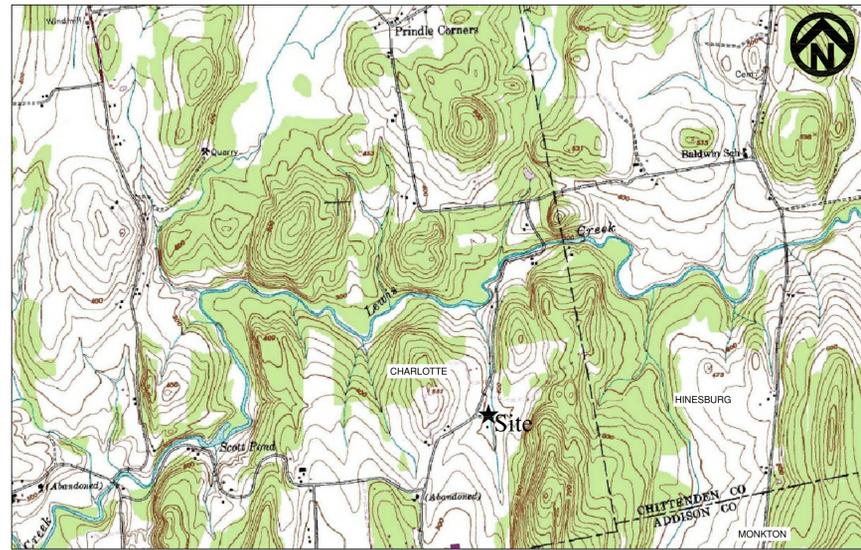
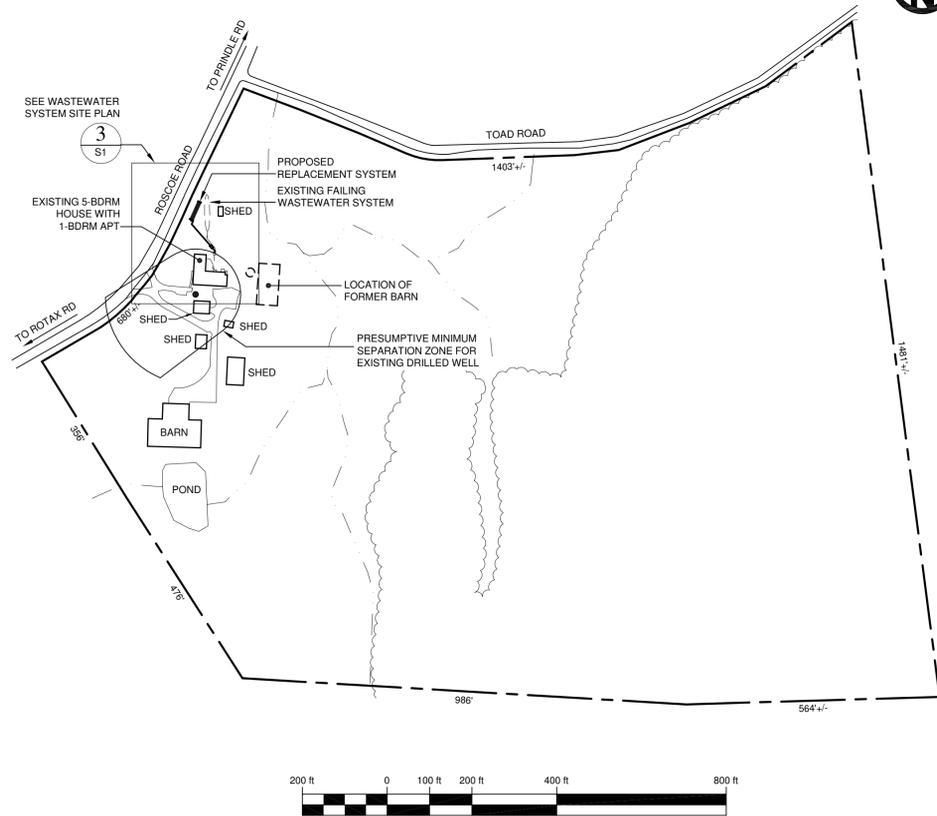


1 LOCATION MAP
S1 NOT TO SCALE



2 PARCEL PLAN
S1 SCALE: 1" = 200'



THE CONTRACTOR SHALL NOTIFY DIG SAFE® AT 811 PRIOR TO ANY EXCAVATION.

Legend

- PROPERTY LINE
- - - 406 EXISTING SURFACE CONTOUR
- - - 406 PROPOSED FINISH GRADE CONTOUR
- W EXISTING WATER SERVICE
- S EXISTING SEWER SERVICE
- FM PROPOSED FORCE MAIN
- OHW OVERHEAD WIRES
- CO EXISTING UTILITY POLE
- X EXISTING WIRE FENCE
- W EXISTING DRILLED WELL
- 1 S1 DETAIL NUMBER
DETAIL REFERENCE
APPEARS ON PLAN SHEET
- AB-4 BORING NUMBER
0.9 AUGER BORING LOCATION
DEPTH (FT) TO EVIDENCE OF HIGH GROUNDWATER
- PT-1 TEST NUMBER
PERCOLATION TEST LOCATION
PERCOLATION RATE (MINUTES PER INCH)

SURVEY NOTE:

- THE WASTEWATER SYSTEM DESIGN IS SHOWN ON A BASE PLAN CREATED FROM A TOPOGRAPHIC SURVEY OF THE SUBJECT PROPERTY. LAMOUREUX & DICKINSON DID NOT PERFORM DEED RESEARCH OR A BOUNDARY SURVEY AND THEREFORE CANNOT PROVIDE DEFINITIVE BOUNDARY INFORMATION. THE PROPERTY LINES DEPICTED ARE BASED ON:
 - A PLAN ENTITLED "FINAL PLAT SUBDIVISION AMENDMENT BETWEEN PROPERTIES OF MARY A. MEAD AND MAURICE A. HARVEY AND ANN L. SCHOFIELD," DATED AUGUST 2008, AND PREPARED BY STUART J. MORROW, L.S.
 - THE TOWN OF CHARLOTTE DIGITAL PARCEL MAP.
 - THE ROSCOE ROAD RIGHT-OF-WAY BASED ON A 3-ROD WIDTH.

SOIL PROFILE SUMMARY

LOGGED ON AUGUST 13, 2012 BY BRIAN TREMBACK

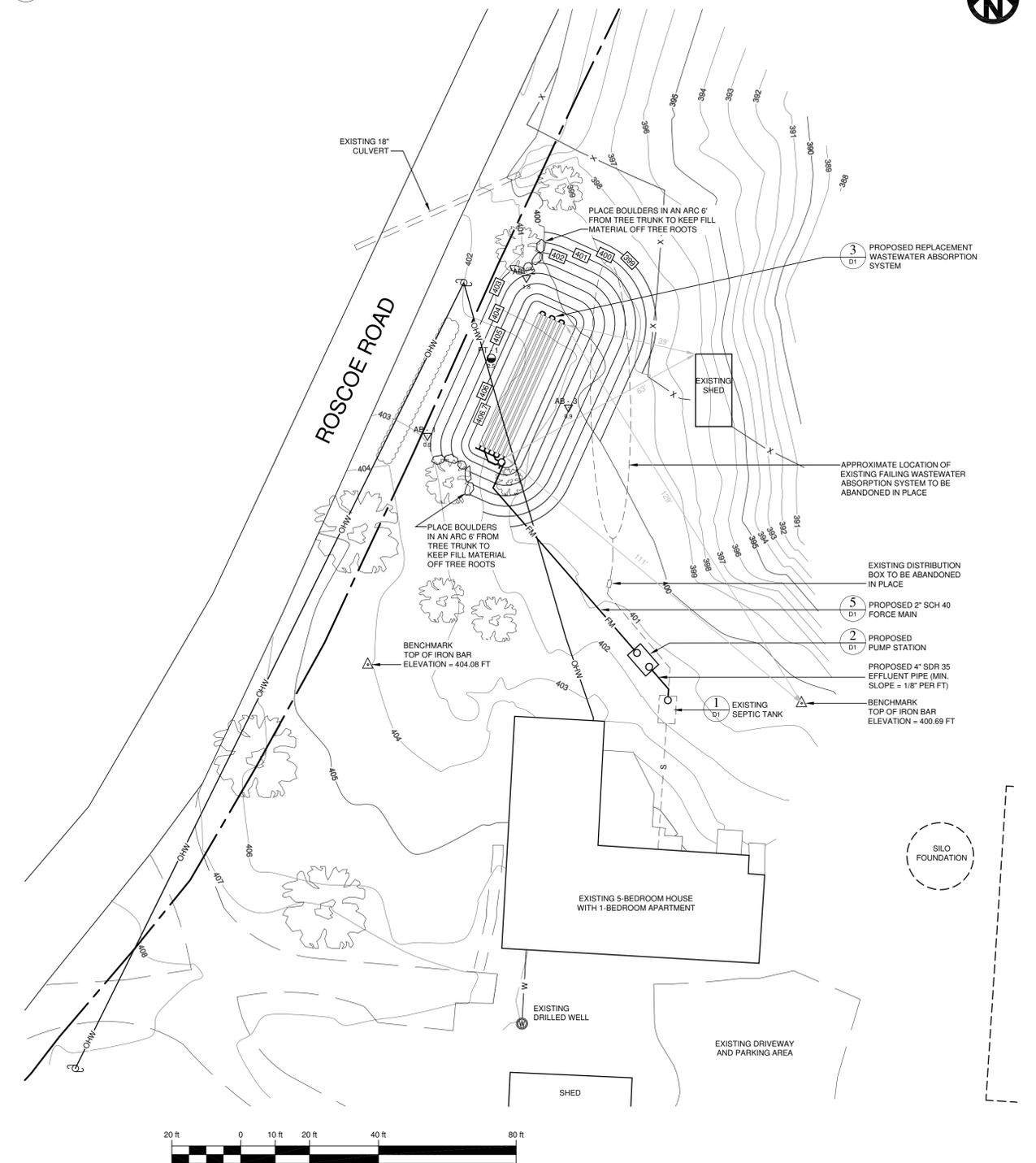
TEST NUMBER	DEPTH TO EVIDENCE OF SEASONAL HIGH GROUNDWATER (FT)	DEPTH TO EXISTING GROUNDWATER (FT)	DEPTH TO BEDROCK (FT)
AB-1	0.9	2.9	> 3.3
AB-2	1.8	> 2.4	> 2.4
AB-3	0.9	> 2.1	> 2.1

PERCOLATION TEST

PERFORMED BY BRIAN TREMBACK ON AUG. 13, 2012

TEST NUMBER	TEST DEPTH (FT)	PERCOLATION RATE (MIN/IN)
PT-1	1.1	2.5

3 WASTEWATER SYSTEM SITE PLAN
S1 SCALE: 1" = 20'



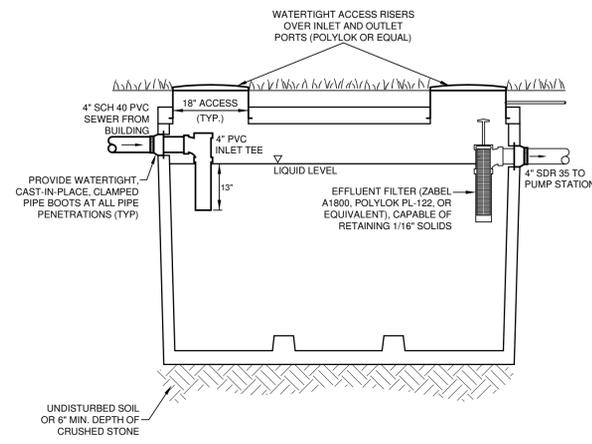
Date	Revision	By

These plans shall only be used for the purpose shown below:

<input type="checkbox"/> Sketch/Concept	<input type="checkbox"/> Act 250 Review
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction
<input checked="" type="checkbox"/> Final State Review	<input type="checkbox"/> Record Drawing

Ann L. Schofield Property 951 Roscoe Road, Charlotte, VT	Project No. 12064 Survey L&D Design BJT
Replacement Wastewater System Design	Drawn BJT Checked DJG Date 9-20-2012
Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com	Scale As shown Sheet number S1 2 sheets total

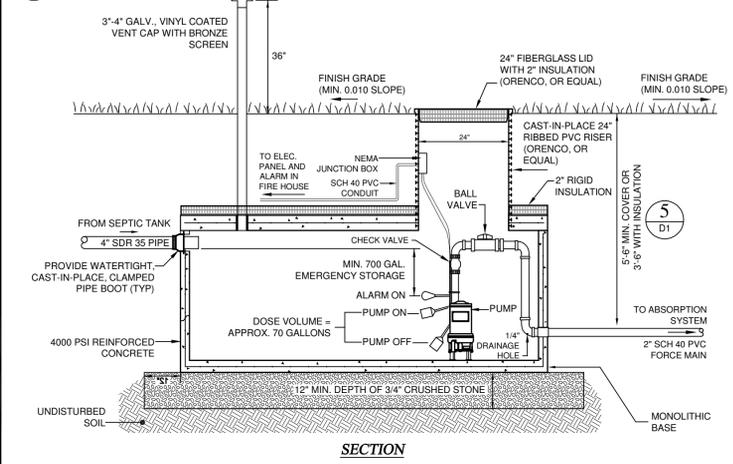
1 PRECAST CONCRETE SEPTIC TANK
S1 NOT TO SCALE



SEPTIC TANK SPECIFICATIONS

- DESIGN DATA: DESIGN FLOW = 700 GPD; USE A 1,000-GALLON SEPTIC TANK.
- THE EXISTING SEPTIC TANK MAY CONTINUE TO BE USED IF IT MEETS THE FOLLOWING CRITERIA:
 - THE TANK IS STRUCTURALLY SOUND.
 - THE TANK HAS THE NECESSARY VOLUME.
 - THE TANK HAS NO MEASURABLE LEAKS. THE CONTRACTOR SHALL ASCERTAIN THIS BY PERFORMING AN INFILTRATION OR EXFILTRATION TEST.
- THE INFILTRATION TEST SHALL BE PERFORMED ONLY IF THE LEVEL OF GROUNDWATER IS ABOVE THE TOP OF THE TANK OR AT A LEVEL DETERMINED BY THE ENGINEER TO BE THE SEASONAL HIGH GROUNDWATER LEVEL. PUMP THE SEPTIC TANK SO THAT NO MORE THAN A FEW INCHES OF LIQUID REMAINS. PLUG THE INLET PIPE FROM THE HOUSE AND BEGIN THE 2-HOUR TEST PERIOD. ANY VISIBLE INFLOW OR MEASURABLE RISE IN WATER LEVEL DURING THE TEST PERIOD SHALL BE CONSIDERED A FAILURE.
- AN EXFILTRATION TEST MAY BE PERFORMED IF THE GROUNDWATER LEVEL IS NO HIGHER THAN THE INVERT OUT OF THE SEPTIC TANK. PLUG THE INLET PIPE FROM THE HOUSE AND THE OUTLET PIPE TO THE PUMP STATION. FILL THE TANK UNTIL THE WATER LEVEL RISES AT LEAST 2 INCHES INTO THE ACCESS PORT OF THE TANK. BEGIN THE 2-HOUR TEST PERIOD. ANY MEASURABLE DROP IN WATER LEVEL SHALL BE CONSIDERED A FAILURE.
- THE TANK SHALL BE FITTED WITH AN EFFLUENT FILTER CAPABLE OF RETAINING 1/16" SOLIDS AND A SURFACE ACCESS RISER TO SERVICE THE FILTER.
- IF THE TANK DOES NOT MEET THESE REQUIREMENTS, AND IT CANNOT BE MODIFIED OR REPAIRED, IT SHALL BE REPLACED.
- ANY NEW SEPTIC TANK SHALL HAVE A CAPACITY OF 1,050 GALLONS OR MORE, BE WATER-TIGHT, AND CONSTRUCTED OF STEEL-REINFORCED, 5,000 PSI, PRE-CAST CONCRETE. DO NOT EXCEED THE MANUFACTURER'S RECOMMENDED DEPTH OF COVER. IF VEHICLE LOADS ARE ANTICIPATED OVER THE SEPTIC TANK, IT SHALL BE RATED FOR H-20 LOADING.
- THE TANK SHALL BE FITTED WITH AN EFFLUENT FILTER CAPABLE OF RETAINING 1/16" SOLIDS.
- WATER-TIGHT SURFACE ACCESS RISERS SHALL BE PROVIDED OVER THE INLET AND OUTLET PORTS OF THE TANK. THE RISERS AND LID SHALL PREVENT INFILTRATION BY SURFACE OR GROUND WATER.
- THE EXCAVATION MUST BE AT LEAST 12" WIDER AND LONGER THAN THE TANK DIMENSIONS.
- EACH PIPE PENETRATION SHALL BE EQUIPPED WITH A WATER-TIGHT, CAST-IN-PLACE, CLAMPED BOOT.
- IF LEDGE IS ENCOUNTERED AT A DEPTH INSUFFICIENT TO ACCOMMODATE THE SPECIFIED TANK, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR ALTERNATE STRUCTURE RECOMMENDATION.
- BACKFILL SIDES AND TOP OF TANK WITH SAND OR GRAVEL. ALL BACKFILL AROUND THE TANK SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO-T-99 STANDARD PROCTOR.

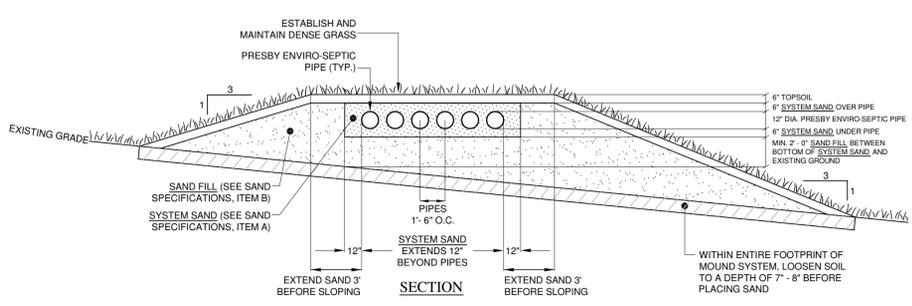
2 PUMP STATION
S1 NOT TO SCALE



PUMP STATION SPECIFICATIONS

- THE PUMP STATION TANK SHALL HAVE SUFFICIENT CAPACITY TO ACCOMMODATE THE REQUIRED PUMP, THE SPECIFIED DOSE VOLUME, AND THE NECESSARY EMERGENCY STORAGE VOLUME.
- USE A WATER-TIGHT, STEEL-REINFORCED, 5,000 PSI, PRE-CAST CONCRETE TANK. DO NOT EXCEED THE MANUFACTURER'S RECOMMENDED DEPTH OF COVER. IF VEHICLE LOADS ARE ANTICIPATED OVER THE PUMP STATION, IT SHALL BE RATED FOR H-20 LOADING.
- THE PUMP STATION SHALL BE CONSTRUCTED TO MINIMIZE THE RISK OF FREEZING OF EFFLUENT IN THE STRUCTURE, PIPES, OR FORCE MAIN.
- BACKFILL SIDES AND TOP OF TANK WITH SAND OR GRAVEL. ALL BACKFILL MATERIAL AROUND THE TANK SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO-T-99 STANDARD PROCTOR.
- ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND MATERIALS SHALL MEET U.L. APPROVAL.
- PUMP SPECIFICATIONS
 - 2" SCH 40 PVC @ 15 GPM
 - LENGTH OF FORCE MAIN = 75 FT
 - ABSORPTION SYSTEM ELEV = 405.3 FT
 - PUMP ELEVATION = 395.0 FT
- HEAD LOSSES
 - STATIC LIFT = 10.3 FT
 - FORCE MAIN FRICTION = 0.4 FT
 - VALVES AND FITTINGS = 3.0 FT
 - TOTAL HEAD LOSS = 13.7 FT
- USE ONE (1) PUMP, SINGLE PHASE, MINIMUM CAPACITY 15 GPM @ 14 FT TOTAL DYNAMIC HEAD (TDH). IF THE "PUMP OFF" ELEVATION IS LESS THAN 395.0, THE CONTRACTOR SHALL NOTIFY THE DESIGNER TO VERIFY ADEQUACY OF THE PUMP.
- TESTING: THE CONTRACTOR AND THE DESIGNER SHALL BE PRESENT DURING START-UP. THE CONTRACTOR SHALL PROVIDE A WATER SOURCE TO PERFORM A FULL OPERATIONAL CHECK OF THE PUMP STATION, INCLUDING PROGRAMMABLE TIMER, FLOAT FUNCTIONS, ALARMS, AND INDICATOR LIGHTS. THE PUMP SHALL BE FIELD-TESTED TO INSURE THE PUMPING CAPACITY MEETS THE PROJECT REQUIREMENTS.

3 WASTEWATER ABSORPTION SYSTEM
S1 NOT TO SCALE



SAND SPECIFICATIONS

① SYSTEM SAND SHALL HAVE THE FOLLOWING SIEVE ANALYSES:

SIEVE NO.	% PASSING						
4	95-100	10	85-100	4	95-100	10	85-100
8	90-100	40	25-75	8	80-100	40	30-50
16	50-85	60	0-30	16	50-85	200	0-10
30	25-60	100	0-10	30	25-60		
50	10-30	200	0-5	50	10-30		
100	2-10			100	2-10		

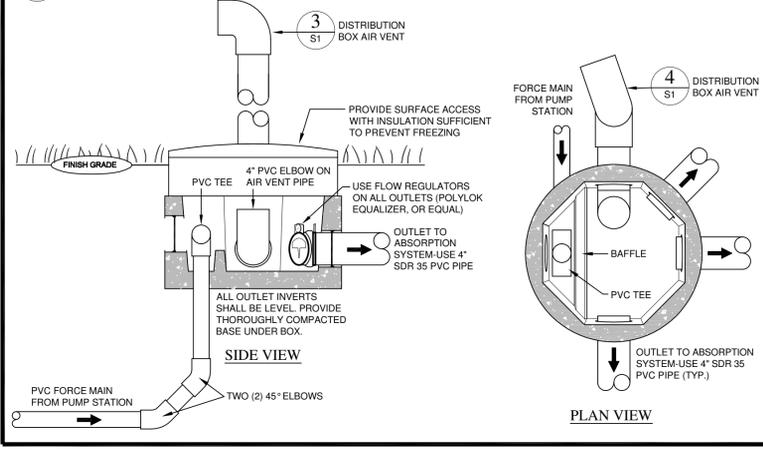
(ASTM SPECIFICATION C-33)

② SAND FILL SHALL HAVE ONE OF THE FOLLOWING SIEVE ANALYSES:

SIEVE NO.	% PASSING						
4	95-100	10	85-100	4	95-100	10	85-100
8	90-100	40	25-75	8	80-100	40	30-50
16	50-85	60	0-30	16	50-85	200	0-10
30	25-60	100	0-10	30	25-60		
50	10-30	200	0-5	50	10-30		
100	2-10			100	2-10		

(ASTM SPECIFICATION C-33)

4 PRECAST CONCRETE DISTRIBUTION BOX
D1 NOT TO SCALE



ABSORPTION SYSTEM SPECIFICATIONS

- INSTALL SYSTEM IN ACCORDANCE WITH VERMONT INNOVATIVE/ALTERNATIVE SYSTEM APPROVAL #2004-02 (2010). THE VERMONT DESIGN AND INSTALLATION MANUAL, THE VERMONT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES, AND THESE PLANS.
- DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.
- CONSTRUCTION EQUIPMENT SHALL BE KEPT OFF THE AREA TO BE USED FOR EFFLUENT ABSORPTION AS MUCH AS POSSIBLE TO PREVENT UNDESIRABLE COMPACTION OF THE SOILS.
- ABOVE-GROUND VEGETATION SHALL BE CLOSELY CUT AND REMOVED FROM THE GROUND SURFACE THROUGHOUT THE ABSORPTION AREA. ONCE CLEARING OF THE LAND IS COMPLETED, THE AREA SHALL BE FENCED TO PREVENT VEHICLES AND EQUIPMENT FROM DRIVING ON THE SOIL.
- PREPARE THE SOIL SURFACE BY PLOWING, OR TURNING UP WITH A BACKHOE BUCKET, THE UPPER 7'-8" OF SOIL OVER THE ENTIRE FOOTPRINT OF THE WASTEWATER ABSORPTION SYSTEM.
- PLACE SAND FILL, MEETING ONE OF THE THREE SPECIFICATIONS IN ITEM 'B' IN THE TABLE, OVER THE PREPARED AREA AS SHOWN ON THE PLAN. THE SAND FOR 6 INCHES BELOW, 6 INCHES ABOVE, AND FOR A DISTANCE OF 1 FT AROUND THE PERIMETER OF THE PRESEBY ENVIRO-SEPTIC® PIPES, SHALL MEET THE SPECIFICATIONS FOR SYSTEM SAND SHOWN IN ITEM 'A' OF THE TABLE.
- EACH ENVIRO-SEPTIC® PIPE SHALL BE INSTALLED LEVEL AT THE SPACING SHOWN AND TEMPORARILY HELD IN PLACE (USING GRADE STAKES OR A SIMILAR METHOD) SO THAT THEIR POSITIONS DO NOT SHIFT AS SAND IS BEING ADDED.
- PROVIDE LIGHT COMPACTION BY WALKING THE SAND INTO PLACE BETWEEN THE PIPES. INSTALL THE VENT AS SHOWN ON THE PLAN.
- INSPECTION: THE ENGINEER MUST OBSERVE THE PIPING IN PLACE BEFORE COVERING WITH SAND AND TOPSOIL.
- AFTER INSPECTION OF THE ABSORPTION SYSTEM PIPING, COVER WITH SIX (6) INCHES OF SYSTEM SAND, AND THEN AN ADDITIONAL 6 INCHES OF TOPSOIL.
- THE AREA OVER AND AROUND THE WASTEWATER SYSTEM SHALL BE GRADED SUCH THAT THERE ARE NO AREAS CAPABLE OF PONDING WATER AND SO THAT THERE IS SUFFICIENT SLOPE TO ENSURE DRAINAGE.

WASTEWATER SYSTEM DESIGN DATA

- IT IS THE OPINION OF THE DESIGNER THAT THE SOIL CONDITIONS WITHIN THE PROPOSED WASTEWATER SYSTEM AREA DO NOT MEET THE REQUIREMENTS OF THE VERMONT ENVIRONMENTAL PROTECTION RULES CHAPTER 1 FOR A PERFORMANCE BASED MOUND SYSTEM, BUT THAT ACCEPTABLE SEWAGE TREATMENT CAN BE ACHIEVED THROUGH THE USE OF A MOUND SYSTEM AND WILL BE A SUBSTANTIAL UPGRADE FROM THE EXISTING SYSTEM.
- BASIS OF DESIGN (USING PRESEBY ENVIRO-SEPTIC PIPE)
 - NO. OF BEDROOMS = 6
 - PERCOLATION RATE = 3 MIN/IN
 - MIN. LENGTH OF PIPE (FROM TABLE A) = 249 FT
 - PIPE SPACING FOR 12% SLOPE AND PERCOLATION RATE OF 3 MIN/IN (FROM TABLE B) = 1.5 FT O.C.
 - MIN. SYSTEM SAND AREA (FROM TABLE D) = 376 SQ FT
- SYSTEM DESIGN: USE 252 LIN FT OF ENVIRO-SEPTIC PIPE CONSISTING OF SIX (6) 42-FT LENGTHS SPACED 1.5 FT ON CENTER. SYSTEM SAND AREA PROVIDED IS 482 SQ FT (10.5' x 44').

INSPECTION

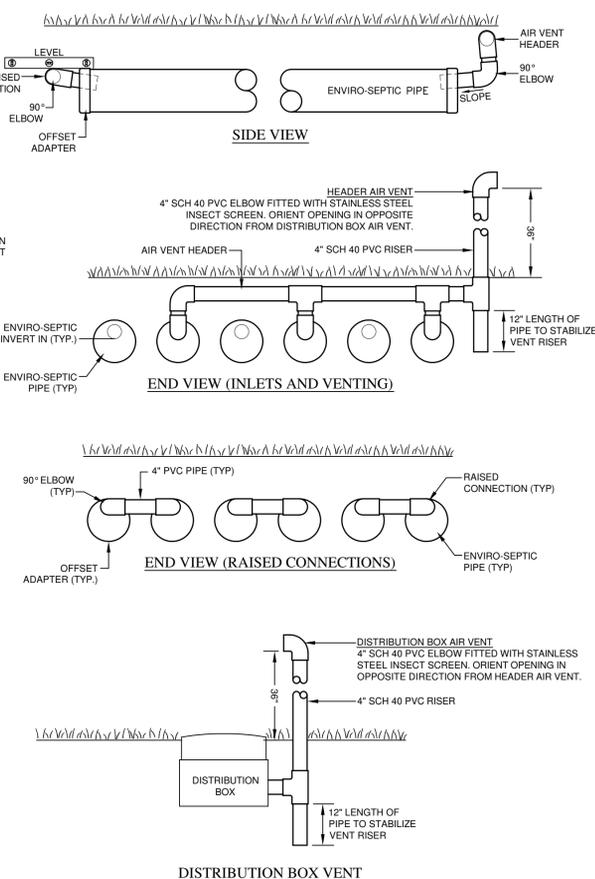
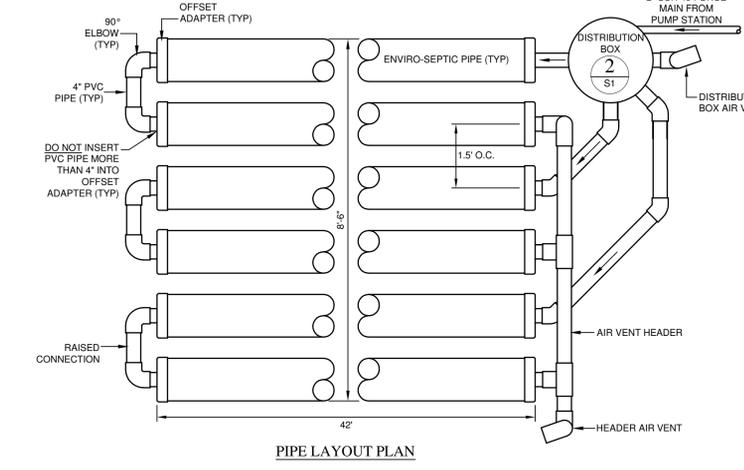
- THE WORK MUST BE INSPECTED BY LAMOUREUX & DICKINSON CONSULTING ENGINEERS, INC., ESSEX JUNCTION, VERMONT TO ENSURE COMPLIANCE WITH THESE PLANS. LAMOUREUX & DICKINSON WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND THE DESIGN INTENT THAT THE PLANS CONVEY, AND FROM FAILURE TO HAVE BEEN NOTIFIED BY THE CONTRACTOR TO INSPECT THE WORKS AND TESTS IN PROGRESS.
- THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR NOTIFYING THE DESIGNER AND THE TOWN FOR INSPECTION OF THE WASTEWATER SYSTEM AT APPROPRIATE STAGES OF CONSTRUCTION. THE REQUIREMENTS FOR CONTACTING THE DESIGNER ARE LISTED BELOW. THE CONTRACTOR SHALL ALSO DETERMINE THE TOWN'S REQUIREMENTS FOR INSPECTION.
 - A FULL OPERATIONAL TEST OF PUMP STATION FUNCTIONS
 - THE WASTEWATER ABSORPTION SYSTEM BEFORE COVERING
 - FINAL GRADING OVER THE WASTEWATER SYSTEM COMPONENTS
- THE CONTRACTOR SHALL NOTIFY THE DESIGNER A MINIMUM OF 24 HOURS IN ADVANCE FOR INSPECTION OF EACH OF THE FOLLOWING ITEMS:

GENERAL SPECIFICATIONS

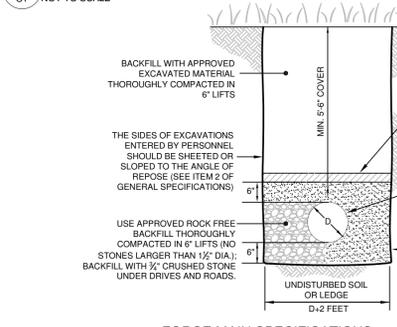
- UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON.
- THE CONTRACTOR SHALL NOTIFY "DIG SAFE" AT 8-1-1 PRIOR TO ANY EXCAVATION.
- LAMOUREUX & DICKINSON DOES NOT UNDERTAKE OR ASSUME ANY RESPONSIBILITY FOR SAFETY ON THE CONSTRUCTION SITE BUT DOES REMIND THE CONTRACTOR THAT THEY SHOULD WORK IN STRICT COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO DEVELOP THIS PROPERTY UNLESS OTHERWISE NOTED ON THESE PLANS. CONTRACTOR SHALL REMOVE ALL TRASH FROM SITE UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR A SAFETY HAZARD. WHEN AND WHEN NECESSARY BY THE ENGINEER, THE CONTRACTOR WILL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER. APPLY CALCIUM CHLORIDE, OR SWEEP THE ROADWAY WITH A POWER BROOM AS DUST CONTROL.
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL AND SHALL BE IMMEDIATELY SEEDED AND MULCHED/MATTED AFTER COMPLETION OF GRADING. ANY WORK PERFORMED AFTER OCTOBER 1 OF EACH YEAR SHALL BE STABILIZED WITH MULCH OR MATTING SUFFICIENT TO PREVENT EROSION AND SHALL BE IMMEDIATELY SEEDED AND REMULCHED OR REMATTED AS SOON AS WEATHER PERMITS IN THE SPRING.
- ALL SLOPES, DITCHES, AND DISTURBED AREAS SHALL BE GRADED SMOOTH AND BE FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.
- ALL FILL OR BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.

MAINTENANCE

- ONCE PER YEAR, THE SEPTIC TANK SHALL BE INSPECTED BY A QUALIFIED PERSON FOR THE ACCUMULATION OF SLUDGE AND SCUM. THE TANK SHALL BE PUMPED IF THE DEPTH OF SLUDGE IS GREATER THAN 12 INCHES OR THE DEPTH OF SCUM IS GREATER THAN 6 INCHES, OR IS LIKELY TO BE SO BEFORE THE NEXT INSPECTION.
- ONCE EVERY 6 MONTHS, OR MORE OFTEN AS NEEDED, THE SEPTIC TANK EFFLUENT FILTER SHALL BE CLEANED BY HOSING IT OFF INTO THE SEPTIC TANK.
- ONCE PER YEAR, THE PUMP STATION SHALL BE INSPECTED BY A QUALIFIED PERSON. PROPER FUNCTIONING OF THE PUMP, FLOATS, AND ALARM SHALL BE VERIFIED, AND ANY ACCUMULATED SOLIDS SHALL BE REMOVED.
- ONCE PER YEAR, THE ABSORPTION SYSTEM SHALL BE INSPECTED BY A QUALIFIED PERSON. THE PROPER FUNCTIONING OF THE SYSTEM SHALL BE VERIFIED AND ANY NECESSARY REPAIRS, OR OTHER MAINTENANCE, SHALL BE DONE PROMPTLY.
- DO NOT FLUSH OR DISCHARGE TO THE SEWAGE DISPOSAL SYSTEM ANY MATERIALS THAT ARE NON-BIODEGRADABLE OR SLOW TO DECOMPOSE. SUBSTANCES THAT CAN SLOW OR HALT BIOLOGICAL ACTIVITY, OR MATERIALS THAT CAN OVERLOAD THE TREATMENT CAPACITY OF THE SYSTEM. THIS INCLUDES, FOR EXAMPLE: FOOD WASTE, CAT LITTER, HIGH-STRENGTH PAPER TOWELS, FEMININE WIPES AND TAMPONS, CONDOMS, FATS AND OILS, PESTICIDES, DISINFECTANTS, STRONG ACIDS AND BASES, PAINTS, SOLVENTS, SOIL, AND SALTS. DO NOT USE GARBAGE DISPOSALS.
- EXCESS WATER USAGE WILL SIGNIFICANTLY REDUCE THE LIFE OF ANY SEWAGE DISPOSAL SYSTEM. WATER FIXTURES SHALL BE REGULARLY INSPECTED FOR LEAKS AND PROMPTLY REPAIRED IF NECESSARY. INSTALL AND MAINTAIN WATER-CONSERVING FIXTURES (TOILETS WITH MAX. 1.6 GALLON FLUSH AND SHOWERHEAD AND FAUCET AERATORS WITH MAX. 2 GALLON PER MINUTE FLOW).
- THIS WASTEWATER SYSTEM DESIGN INCLUDES ONE OR MORE STRUCTURES THAT MEET THE DEFINITION OF A "CONFINED SPACE". UNDER NO CIRCUMSTANCES SHALL A CONFINED SPACE BE ENTERED EXCEPT IN STRICT CONFORMANCE WITH OSHA REQUIREMENTS.



5 FORCE MAIN
S1 NOT TO SCALE



FORCE MAIN SPECIFICATIONS

- USE 2" SCH 40 PVC FORCE MAIN PIPE WITH THRUST BLOCKS AT ALL FORCE MAIN BENDS.
- FORCE MAIN TESTING: THE CONTRACTOR SHALL FURNISH ALL FACILITIES AND PERSONNEL FOR CONDUCTING THE FOLLOWING TEST. THE PVC FORCE MAIN SHALL BE FILLED WITH WATER AND TESTED BY THE CONTRACTOR TO A MINIMUM PRESSURE OF 50 PSI AT THE HIGHEST POINT ALONG THE FORCE MAIN FOR TWO HOURS AND THE PRESSURE SHALL NOT VARY MORE THAN 5 PSI. THE NEW LINES SHALL NOT BE ACCEPTED IF THE LEAKAGE DURING THE TWO-HOUR TEST IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{ND \cdot V \cdot P}{7,400}$$

WHERE L = THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR
 N = THE NUMBER OF JOINTS IN THE LENGTH OF PIPELINE TESTED
 D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES
 P = THE AVERAGE TEST PRESSURE MEASURED IN LBS/SQ IN
- LEAKAGE IS DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE NEWLY LAID PIPE TO MAINTAIN THE PRESSURE OF 50 PSI. THE CONTRACTOR SHALL AT ONCE LOCATE ANY LEAKS AND ACHIEVE THE ACCEPTABLE LIMIT AT NO EXTRA CHARGE TO THE OWNER.

Date	Revision	By

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<input type="checkbox"/> Sketch/Concept	<input type="checkbox"/> Act 250 Review
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction
<input checked="" type="checkbox"/> Final State Review	<input type="checkbox"/> Record Drawing

Ann L. Schofield Property
951 Roscoe Road, Charlotte, VT

Wastewater System
Details and Specifications

Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Morse Drive, Essex, VT 05452
802-878-4450 www.LDengineering.com

Project No. 12064
Survey L&D
Design BJT
Drawn BJT
Checked DJG
Date 9-20-2012
Scale AS SHOWN
Sheet number D1
2 sheets total

