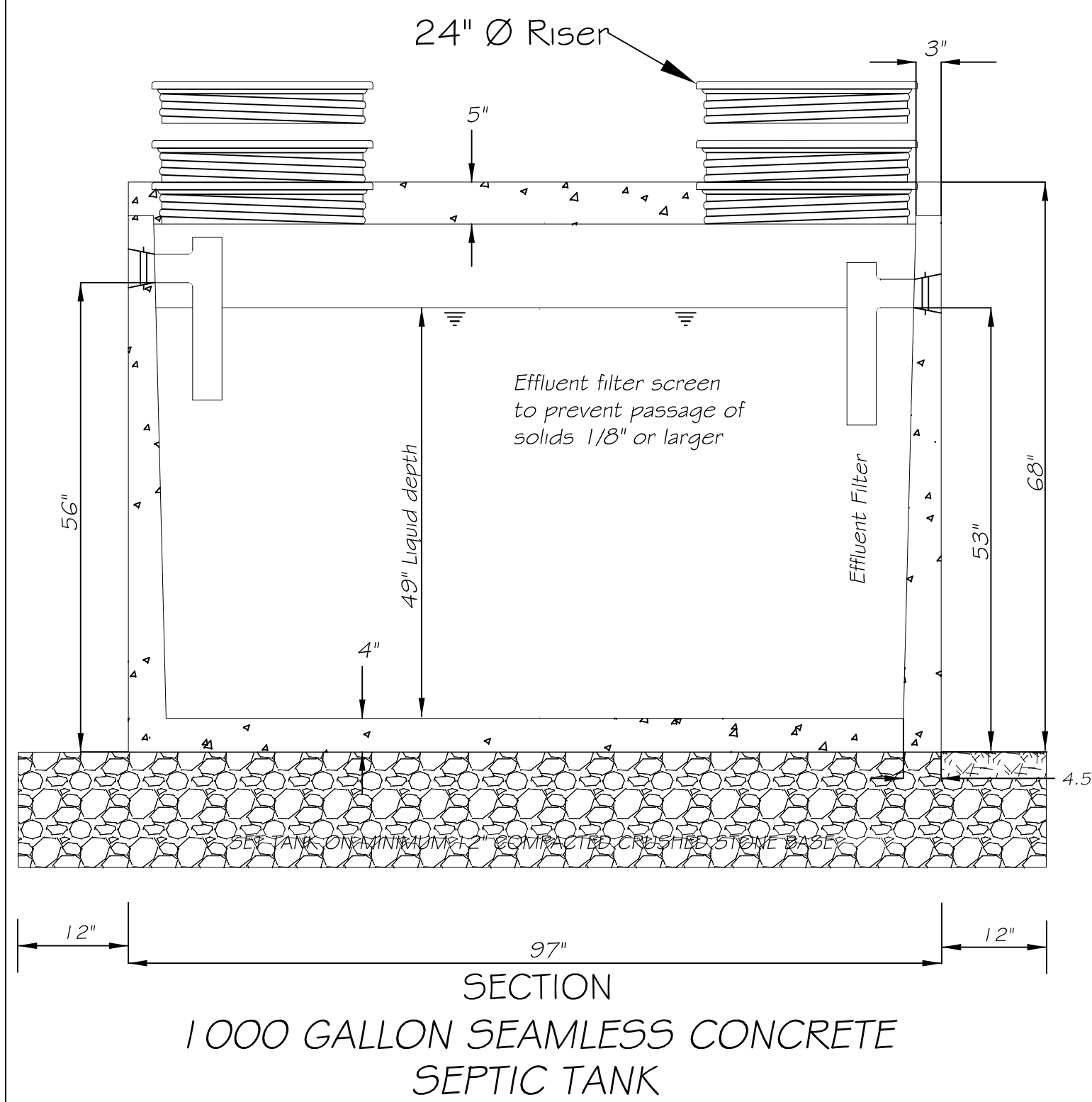
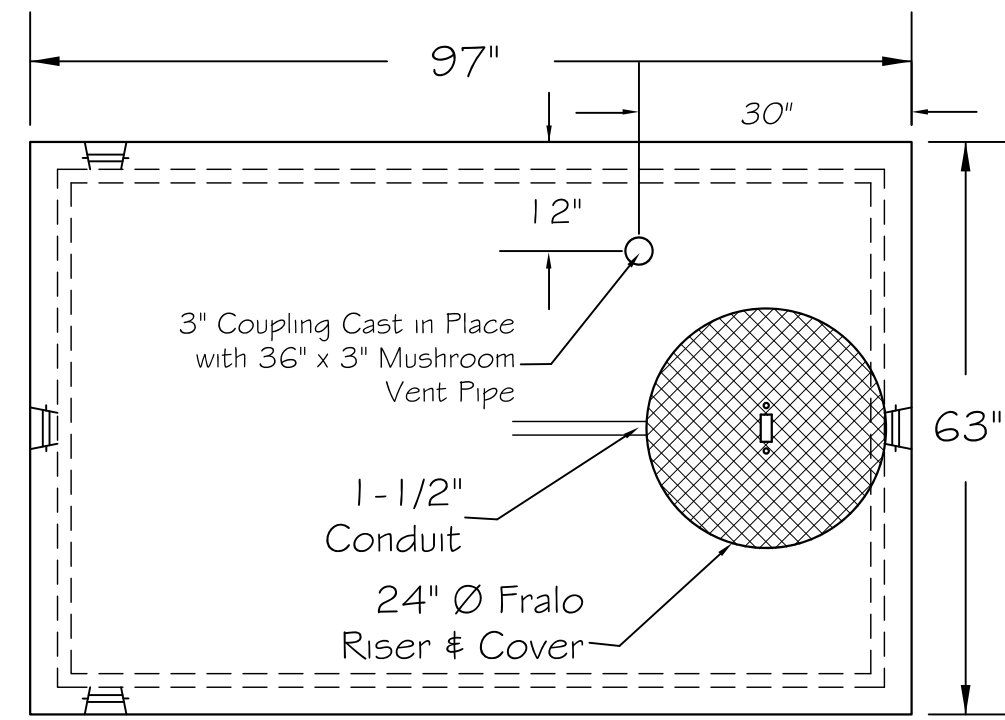


PLAN

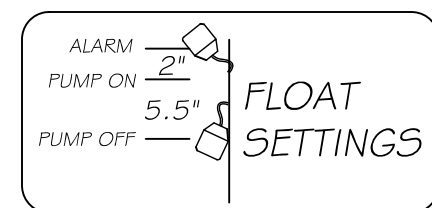
NOTE: INSTALLER SHALL CONTACT DESIGNER IF GROUNDWATER OR EVIDENCE OF A HIGHWATER TABLE IS OBSERVED WHEN EXCAVATING FOR TANK. STEPS MAY NEED TO BE TAKEN TO PREVENT FLOATING.



SECTION
1000 GALLON SEAMLESS CONCRETE SEPTIC TANK

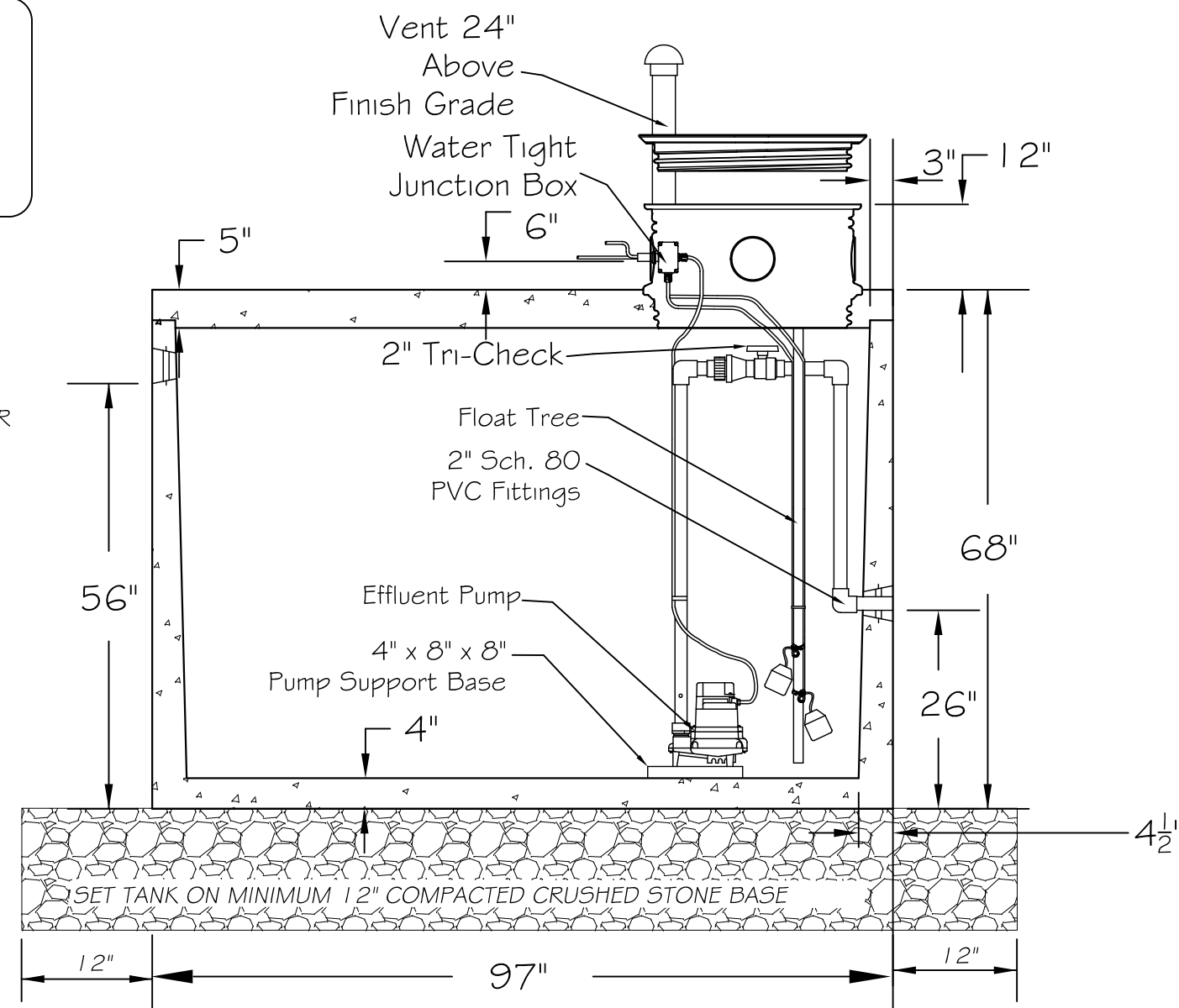


PLAN



SYSTEM DOSING:
BASED ON FLOAT
SETTINGS= 1.23 GAL./
DOSE 4 TIMES
DAILY

NOTE: INSTALLER SHALL CONTACT DESIGNER IF GROUNDWATER OR EVIDENCE OF A HIGHWATER TABLE IS OBSERVED WHEN EXCAVATING FOR TANK. STEPS MAY NEED TO BE TAKEN TO PREVENT FLOATING.



SECTION

1000 GALLON SEAMLESS CONCRETE PUMPSTATION

NOTES

- INSTALLER SHALL PROVIDE DESIGNER 48HRS. NOTICE PRIOR TO BEGINNING CONSTRUCTION FOR PLAN REVIEW, AND SYSTEM LAYOUT. AT TIME OF PLAN REVIEW A TESTING/INSPECTION SCHEDULE SHALL BE DETERMINED. THERE WILL BE A FEE FOR SYSTEM LAYOUT AND FOR INSPECTION AND REPORTS.
- INSTALLER SHALL VERIFY ALL QUANTITIES.
- THE AREA SURROUNDING DISPOSAL AREAS AND SEPTIC COMPONENTS SHALL BE GRADED SO AS TO DIVERT SURFACE RUNOFF WATERS.
- THE AREA DESIGNATED AS SECONDARY AREAS SHALL BE AVOIDED SO AS TO PREVENT COMPACTION OF SOILS.
- THE INSTALLER SHALL PROVIDE ASBUILT TIES FOR ALL SEPTIC COMPONENTS FOR FUTURE RECOVERY IF NECESSARY.
- ALL SEPTIC COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH E.P.R. CHAPTER 1.
- THE SERVICE LINE FROM THE PROPOSED RESIDENCE TO THE SEPTIC TANK & SIPHON CHAMBER SHALL BE 4" PVC SCH. 40, AND SHALL MAINTAIN A MIN. OF 1/4" PER FOOT SLOPE.
- A MINIMUM DEPTH OF 4" SHALL BE MAINTAINED OVER ALL SEWER AND WATER LINES, (6" MIN. OVER PIPES IN FLOWED AREAS). INSULATION IS RECOMMENDED IN AREAS OF LESS THAN MINIMUM COVER.
- ANY ALTERATION OF THESE PLANS WITHOUT THE EXPRESS WRITTEN CONSENT OF THE DESIGNER SHALL RENDER THESE PLANS NULL & VOID.
- PRIOR TO OPERATION THE POTABLE WATER SYSTEM SHALL BE SUCCESSFULLY PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH EFR CHAP. 21, WATER SUPPLY RULES, VERMONT DEPT. OF HEALTH REGULATIONS & SUBCHAPTER 10.9 OF THE NATIONAL PLUMBING CODE.
- THE LOCATION OF ALL UNDERGROUND UTILITIES, IF ANY, SHALL BE CONSIDERED APPROXIMATE UNTIL CERTIFIED IN THE FIELD. THE CONTRACTOR IS ADVISED TO BE AWARE OF ALL UTILITIES NOT SHOWN THAT MAY EXIST.
- CUT TREES IN MOUND AREAS AT GROUND LEVEL, LEAVING STUMPS, PRIOR TO FLOWING. REMOVE ALL TREES WITHIN 10' OF MOUND TOE.
- MOUND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH EFR CHAPTER 1.
- MOUND SAND MUST BE CERTIFIED PRIOR TO DELIVERY AND A WRITTEN COPY OF THE SIEVE ANALYSIS SHALL BE SUBMITTED TO THE DESIGNER PRIOR TO BEGINNING CONSTRUCTION.
- PROPOSED SEPTIC TANK(S) SHALL BE WATER TIGHT 1000 GALLON PRECAST CONCRETE, WITH 4000 PSI REINFORCED CONCRETE WITH LOW PRESSURE SEALS DESIGNED TO ACCEPT 4" PVC PIPE. WALLS OF TANK SHALL HAVE A MINIMUM THICKNESS OF 3". ALL TANKAGE SHALL BE TESTED FOR LEAKAGE.
- THE PROPOSED SEPTIC TANK SHALL BE FITTED WITH AN EFFLUENT FILTER THAT PREVENTS THE PASSAGE OF ANY PARTICLE LARGER THAN 1/8 OF AN INCH.
- THE PROPOSED FORCE MAIN SHALL BE TESTED IN ACCORDANCE WITH E.P.R. CHAP. 1, APPENDIX 1A-05. THE TESTS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE DESIGNER.
- THIS SYSTEM IS NOT DESIGNED TO SUPPORT THE USE OF GARBAGE, DISPOSALS, HOT TUBS, WATER SOFTENER DISCHARGE, ETC.

SOILS TEST PIT DATA

TEST PITS DUG 1/14/16
AS LOGGED BY C. CHASE &
OBSERVED BY ANR
REG. ENG. C. FULLER

- STP 1
0-8 L-loose/finable-dark brown (topsoil)
8-16 FS L-loose/finable-brown
16-24 VFS L-loose/finable-brown
24-48 Si L-firm - gray
ESHWT 16' NO BEDROCK TO DEPTH
- STP 2
0-6 L-loose/finable-dark brown (topsoil)
6-16 FS L-loose/finable-brown
16-25 VFS L-loose/finable-brown
25-53 Si L-firm - gray
ESHWT 16' NO BEDROCK TO DEPTH
- STP 3
0-4 L-loose/finable-dark brown (topsoil)
4-16 FS L-loose/finable-brown
16-24 VFS L-loose/finable-brown
24-51 Si L-firm - gray
ESHWT 16' NO BEDROCK TO DEPTH
- STP 4
0-4 L-loose/finable-dark brown (topsoil)
4-16 FS L-loose/finable-brown
16-24 VFS L-loose/finable-brown
24-51 Si L-firm - gray
ESHWT 16' NO BEDROCK TO DEPTH
- STP 5
0-4 L-loose/finable-dark brown (topsoil)
4-19 FS L-loose/finable-brown
19-24 VFS L-loose/finable-brown
24-42 Si L-firm - gray
ESHWT 19' NO BEDROCK TO DEPTH
- STP 6
0-8 L-loose/finable-dark brown (topsoil)
8-19 FS L-loose/finable-brown
19-30 VFS L-loose/finable-brown
30-55 Si L-firm - gray
ESHWT 19' NO BEDROCK TO DEPTH
- STP 7
0-10 L-loose/finable-dark brown (topsoil)
10-18 FS L-loose/finable-brown
18-25 VFS L-loose/finable-brown
25-52 Si L-firm - gray
ESHWT 18' NO BEDROCK TO DEPTH
- STP 8
0-12 L-loose/finable-dark brown (topsoil)
12-18 VFS L-loose/finable-brown
18-50 Si L-firm - gray
ESHWT 18' NO BEDROCK TO DEPTH
- STP 9
0-6 L-loose/finable-dark brown (topsoil)
6-12 VFS L-loose/finable-brown
12-48 Si L-firm - gray
ESHWT 12' NO BEDROCK TO DEPTH
- L = Loam
FSL = Fine Sandy Loam
VFS L = Very Fine Sandy Loam
Si L = Silt Loam

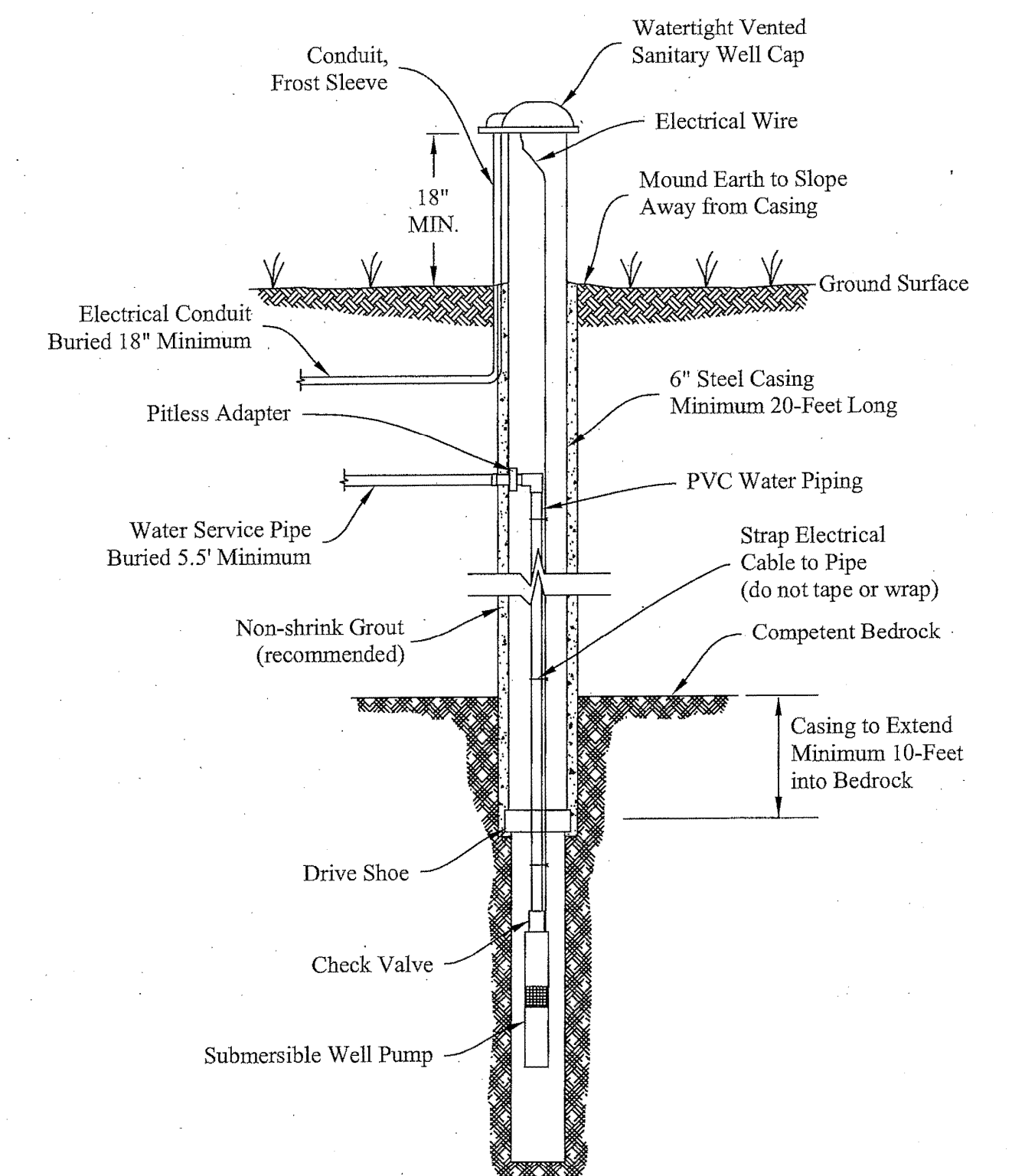
PERCOLATION TEST RESULTS
TESTS RUN IN ACCORDANCE
WITH E.P.R. CHAP. 1.

#	RATE	DEPTH
1	21 MIN/INCH	18"
2	33 MIN/INCH	18"
3	13 MIN/INCH	18"

BASIS OF DESIGN
PROPOSED (3) 3 BEDROOM
SINGLE FAMILY RESIDENCES
DAILY FLOW = 1260 GPD
APPLICATION RATE = 1.0 GPD/SF
REQUIRED = 1260 SF
DESIGNED = (3) 4x120' (1440 SF)
TRENCHES IN 30' PERFORMANCE
BASED MOUND

LINEAR LOADING RATE CALCULATIONS
SOIL = VFSL SLOPE = 9.5%
ESHWT = 16"
F = 13.5 H = 16'-6" = 10' OR 0.8333'
LLR = 11.34 GPD/LF
1260GPD / 11.34 GPD PER LF = 111 LF MIN.
DESIGNED @ 120' LONG = 10.5 GPD/LF

Typical Drilled Bedrock Well Construction Detail



POTABLE WATER SYSTEM INSTALLER CERTIFICATION:

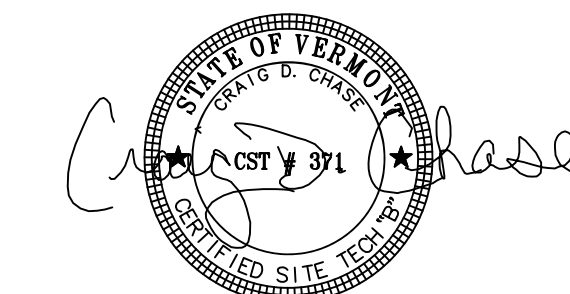
I, _____, INSTALLED, TESTED, AND INSPECTED THE POTABLE WATER SYSTEM FOR LOT _____ OF THE CONNOR SUBDIVISION ON TOWNE HILL ROAD IN THE TOWN OF EAST MONTPELIER, VERMONT AND I HEREBY CERTIFY THAT IN THE EXERCISE OF MY REASONABLE PROFESSIONAL JUDGMENT THE INSTALLATION RELATED INFORMATION SUBMITTED IS TRUE AND CORRECT AND THE POTABLE WATER SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE PERMITTED DESIGN AND ALL PERMIT CONDITIONS. WAS INSPECTED, WAS PROPERLY TESTED, AND HAS SUCCESSFULLY MET THOSE PERFORMANCE TESTS.

DATED: _____ SIGNATURE: _____

WASTEWATER SYSTEM INSTALLER CERTIFICATION:

I, _____, INSTALLED, TESTED, AND INSPECTED THE WASTEWATER SYSTEM FOR THE CONNOR SUBDIVISION ON TOWNE HILL ROAD IN THE TOWN OF EAST MONTPELIER, VERMONT AND I HEREBY CERTIFY THAT IN THE EXERCISE OF MY REASONABLE PROFESSIONAL JUDGMENT THE INSTALLATION RELATED INFORMATION SUBMITTED IS TRUE AND CORRECT AND THE WASTEWATER SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE PERMITTED DESIGN AND ALL PERMIT CONDITIONS. WAS INSPECTED, WAS PROPERLY TESTED, AND HAS SUCCESSFULLY MET THOSE PERFORMANCE TESTS.

DATED: _____ SIGNATURE: _____



GENERAL SEPTIC DETAILS
CHERRY TREE LLC
TOWNE HILL ROAD
EAST MONTPELIER, VERMONT

SCALE: 1" = 40' DATE: 12/06/16 PROJ.# 2016 084 DWG.# 16115D
DRAWN BY: SHEET CHECKED BY: WRC TB/PC: EFB 88 SHEET SD1

CHASE & CHASE
SURVEYORS & SEPTIC DESIGNERS INC.
301 N. MAIN ST. STE. 1 - BARRE, VT. 05641
(802)-479-9636