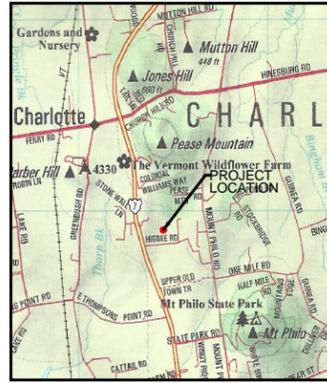


- LEGEND**
- Boundary Line/ROW
  - Edge of Road (Surface Labeled)
  - Edge of Drive (Surface Labeled)
  - 100 — 1 Foot Ground Surface Contour
  - 100 — Finish Grade
  - 100 — Interpolated Ground Contour (Based on USGS Data From The ANR Environmental Interest Locator)
  - Gravity Sewer
  - 1-inch Diameter CL200 Polyethylene Plastic Water Line (Unless Otherwise Noted)
  - Well Isolation
  - Wastewater Isolation
  - Zoning Setbacks
  - SF — Silt Fence
  - UE — Electrical Conduit
  - dl — Ditch Line
  - Tree Line
  - Proposed Limits of Clearing
  - Utility Pole
  - △ Survey Traverse Station
  - △ Temporary Bench Mark (Type and Elevation Noted)
  - Test Pit (TP-01)
  - Soil Boring (SB-01)
  - Percolation Test (PT-01)
  - Drilled Well (Unless Otherwise Noted)

PERMITTING		<b>Jason Barnard Consulting, LLC</b> 4400 VT Route 17 Starksboro, VT 05487 Telephone: (802) 453-2597 Fax number: (802) 453-8497 E-mail: jbsittech@hotmail.com	
TITLE:			
SITE PLAN		<b>NANCY J. FAULKNER</b> <b>REPLACEMENT WASTEWATER DISPOSAL SYSTEM</b> <b>283 HIGBEE ROAD</b> <b>CHARLOTTE, VERMONT</b>	
SIGNATURE:	DATE:	REVISIONS:	DRAWING NO.
	AUGUST 20, 2015		2
	SCALE: 1" = 50'		
	DRAWN BY: CS		
CHECKED BY: JB			SHEET 2 OF 3



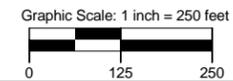
**Project Location Map**  
Not to Scale



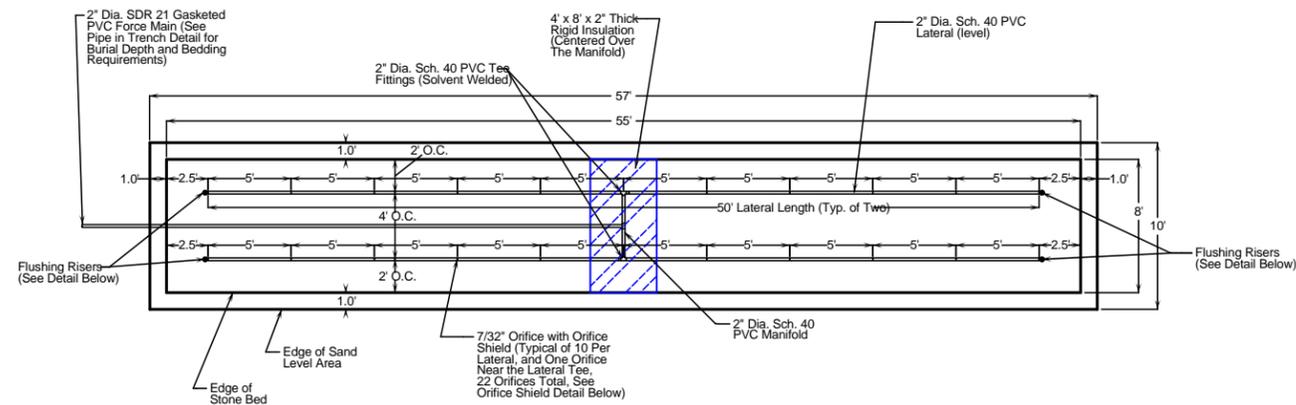
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  - Test Pit (TP-01)
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  - Percolation Test (PT-01)
  - Drilled Well (Unless Otherwise Noted)

**PROJECT NOTES**

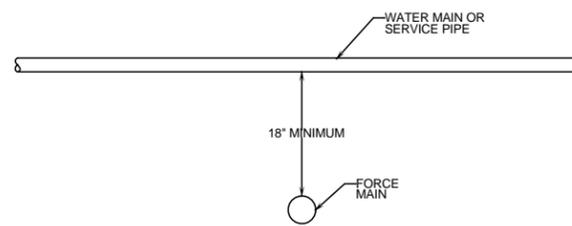
1. THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY CONDUCTED BY JASON BARNARD CONSULTING, LLC WITH A NIKON NPL-522 THREE SECOND TOTAL STATION ON AUGUST 5, 2013.
2. ELEVATIONS ARE BASED ON AN ASSUMED ELEVATION OF 200.00' AT STATION NO. 1.
3. THIS IS NOT A BOUNDARY SURVEY AND DOES NOT MEET THE LEGAL REQUIREMENTS OF A BOUNDARY SURVEY AS DESCRIBED IN 27 V.S.A. AND 1403.
4. PROPERTY LINES ARE BASED ON A SUBDIVISION SURVEY PLAT BY MARK WARD DATED FEBRUARY 15, 2001 AND PHYSICAL EVIDENCE FOUND DURING THE AUGUST 5, 2015 TOPOGRAPHIC SURVEY. NO WARRANTY IS MADE TO THE ACCURACY OF THE BOUNDARY LINES SHOWN HEREON.
5. FOR CLARITY, TEXT IDENTIFYING EXISTING ITEMS ARE LOWER CASE, AND TEXT IDENTIFYING PROPOSED ITEMS ARE UPPER CASE.
6. THE REPLACEMENT MOUND-TYPE WASTEWATER DISPOSAL SYSTEM IS CONSIDERED A "BEST FIX" AND HAS BEEN DESIGNED IN REASONABLE CONFORMANCE WITH THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, "WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES" EFFECTIVE SEPTEMBER 29, 2007.
7. IN ACCORDANCE WITH SUBSECTION 1-806 OF THE STATE OF VERMONT, ENVIRONMENTAL PROTECTION RULES (EPRI CHAPTER 1, EFFECTIVE SEPTEMBER 29, 2007) A VARIANCE IS BEING REQUESTED TO INSTALL THE REPLACEMENT WASTEWATER DISPOSAL SYSTEM. A VARIANCE IS BEING REQUESTED AS A RESULT OF THE FOLLOWING SITE CONDITIONS:
  - 7A. THE REPLACEMENT MOUND SYSTEM IS PROPOSED WITH AT LEAST 2 FEET (24 INCHES) OF MOUND SAND BENEATH THE MOUND SYSTEM'S ABSORPTION BED. THEREFORE, THE PROPOSED MOUND PROVIDES AT LEAST 3 FEET (36 INCHES) OF VERTICAL SEPARATION TO THE IDENTIFIED SEASONAL HIGH WATER TABLE (SHWT). A VARIANCE IS BEING REQUESTED TO REDUCE THE SEPARATION TO THE TOP OF THE INDUCED GROUNDWATER MOUNDING TO 2.31'. THE PROPOSED "BEST FIX" REPLACEMENT MOUND SYSTEM IS A SIGNIFICANT IMPROVEMENT OVER THE EXISTING IN-GROUND SYSTEM AND PROVIDES BETTER PROTECTION TO HUMAN HEALTH AND THE ENVIRONMENT.
  - 7B. THE FRONT TOE OF THE REPLACEMENT MOUND WASTEWATER SYSTEM IS LOCATED WITHIN 25 FEET OF A TOP OF SLOPE GREATER THAN 30%. THE PROPOSED "BEST FIX" REPLACEMENT MOUND WASTEWATER SYSTEM IS LOCATED IN THE MOST SUITABLE AREA FOR WASTEWATER DISPOSAL AT THE SITE.
8. BASED ON VERBAL INFORMATION PROVIDED BY THE PROPERTY OWNER, THE 30.7+- ACRE PARCEL WAS CREATED AND DEVELOPED WITH A 3-BEDROOM SINGLE-FAMILY RESIDENCE PRIOR TO JANUARY 1, 2007.
9. THE EXISTING SEPTIC TANK SHALL BE PUMPED OUT, INSPECTED AND CONFIRMED TO BE 1,000 GALLONS IN SIZE. IF THE TANK IS IN GOOD CONDITION, IT SHALL BE WATER-TIGHTNESS TESTED FOR 24 HOURS AND RETROFITTED WITH A POLYLOK PL-122 EFFLUENT FILTER BEFORE BEING PUT BACK IN SERVICE. IF THE TANK IS IN POOR CONDITION OR IS NOT WATER-TIGHT IT SHALL BE REPLACED WITH A NEW 1,000 GALLON TOP-SEAM CONCRETE SEPTIC TANK.
10. THE EXISTING LEACHFIELD WAS NOT FIELD VERIFIED. THE SHOWN LOCATION IS CONSIDERED APPROXIMATE AND THE SYSTEM SHALL BE ABANDONED IN-PLACE. WASTEWATER PIPING ENCOUNTERED DURING THE WORK SHALL BE CUT AND CAPPED.
11. THE CONTRACTOR SHALL NOTIFY THE DIG SAFE NETWORK AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
12. ALL EXCAVATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE STATE OF VERMONT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (VOSH) GUIDELINES FOR TRENCH EXCAVATIONS.
13. THE EXISTING MAN-MADE POND IS SHOWN ON THE ANR ENVIRONMENTAL INTEREST LOCATOR AS A CLASS II WETLAND. THE EDGE OF THE WETLAND IS BELIEVED TO BE THE EDGE OF THE POND. THE REMAINING PORTIONS OF THE PROPERTY WERE NOT REVIEWED FOR WETLANDS AND A FORMAL WETLAND DELINEATION WAS NOT PERFORMED AS PART OF THIS PROJECT. JASON BARNARD CONSULTING, LLC ARE NOT WETLAND CONSULTANTS AND THEREFORE MAKE NO WARRANTY WITH REGARDS TO THE PRESENCE OR ABSENCE OF WETLANDS ON THE SUBJECT PROPERTY.
14. A MAJORITY OF THE SUBJECT PROPERTY WAS REVIEWED FOR ITS SUITABILITY FOR A REPLACEMENT WASTEWATER DISPOSAL SYSTEM AND DUE TO VARIOUS SITE LIMITATIONS, NO OTHER SUITABLE WASTEWATER DISPOSAL SYSTEM AREAS WERE NOTED WITHIN 500 FEET OF THE EXISTING RESIDENTIAL STRUCTURE. THEREFORE, THE IDENTIFIED "BEST FIX" WASTEWATER DISPOSAL SYSTEM AREA IS THE MOST SUITABLE AREA FOR WASTEWATER DISPOSAL WITHIN 500 FEET OF THE EXISTING RESIDENTIAL STRUCTURE.



<b>PERMITTING</b> TITLE:  <b>OVERALL SITE PLAN</b>	<b>Jason Barnard Consulting, LLC</b> 4400 VT Route 17 Starksboro, VT 05487 Telephone: (802) 453-2597 Fax number: (802) 453-8497 E-mail: jbsitech@hotmail.com							
	<b>NANCY J. FAULKNER</b> <b>REPLACEMENT WASTEWATER DISPOSAL SYSTEM</b> <b>283 HIGBEE ROAD</b> <b>CHARLOTTE, VERMONT</b>							
SIGNATURE: 	DATE: AUGUST 20, 2015	REVISIONS: <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						
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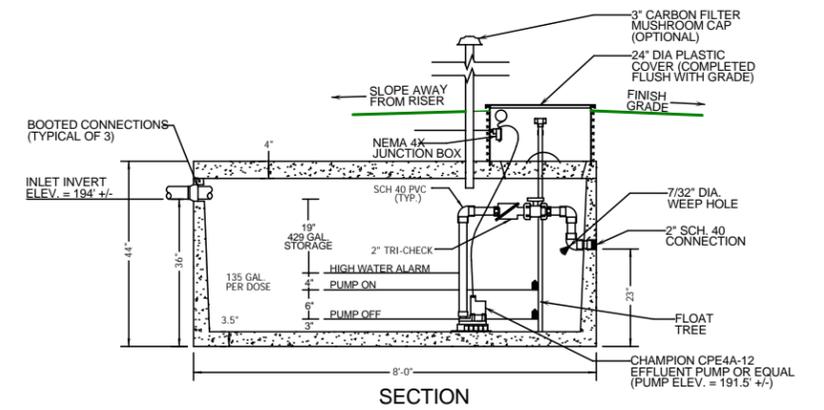


**MOUND WASTEWATER DISPOSAL SYSTEM PLAN VIEW DETAIL**  
SCALE = NOT TO SCALE



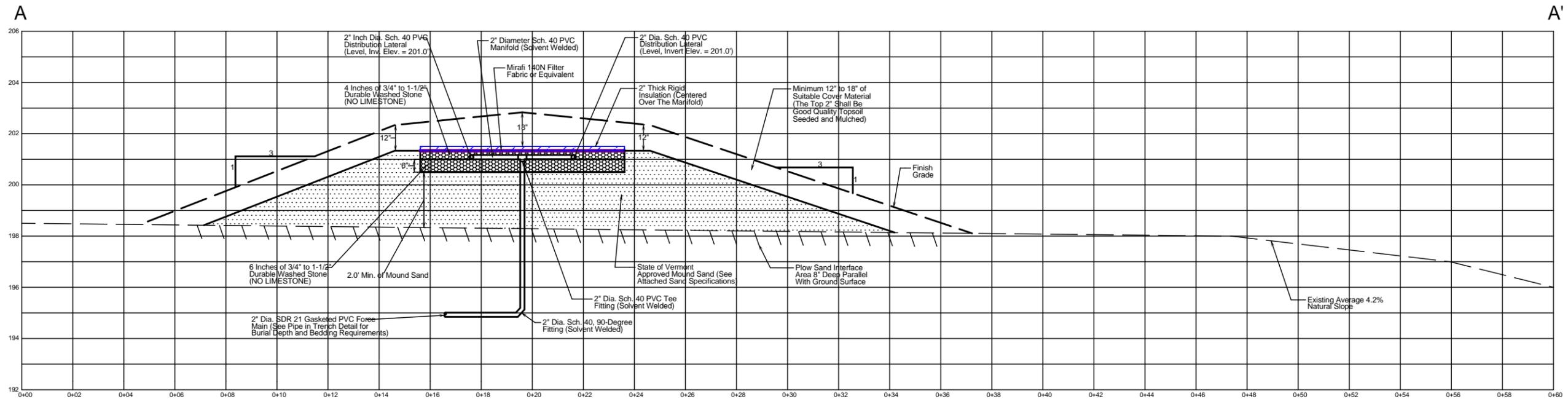
- NOTES:**
1. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE. IF THE SEWER MAIN IS OVER THE WATER MAIN, THEN THE SEWER MAIN MUST BE ENCASED BY CONCRETE, EXTENDING BEYOND THE FIRST SEWER PIPE JOINTS AND RESTING ON UNDISTURBED SOIL ON EACH SIDE OF THE WATER MAIN, OR THE SEWER LINE SHALL BE INSTALLED TO MEET THE SECRETARY'S SEWER LINE STANDARDS FOR SOURCE PROTECTION AREAS.
  2. IF 18 INCHES OF VERTICAL SEPARATION IS NOT ABLE TO BE ACHIEVED, THE DESIGNER SHALL BE CONTACTED.

**WATER AND SEWER CROSSING WATER OVER SEWER**  
NOT TO SCALE



- DESIGNER NOTES:**
1. PUMP STATION SHALL BE SET LEVEL ON A MINIMUM OF 6-INCHES OF COMPACTED GRANULAR BASE.
  2. PUMP STATION SECTIONS SHALL HAVE BUTYL RUBBER JOINT SEALER.
  3. IF WATER-PROOF BOOTED PIPE CONNECTIONS ARE NOT USED, PIPE PENETRATIONS SHALL BE SEALED WITH "WATER PLUG" NON-SHRINK HYDRAULIC CEMENT.
  4. ON/OFF FLOAT SWITCH TO BE SET WITH A 6.0-INCH SETTING TO PROVIDE A 135-GALLON DOSE VOLUME.
  5. HIGH WATER LEVEL ALARM AND PUMP STATION SHALL BE WIRED BY A LICENSED ELECTRICIAN.
  6. THE HIGH WATER ALARM SHALL BE MOUNTED AT A VISIBLE LOCATION.

**800-GALLON TOP-SEAM CONCRETE PUMP STATION**  
NOT TO SCALE

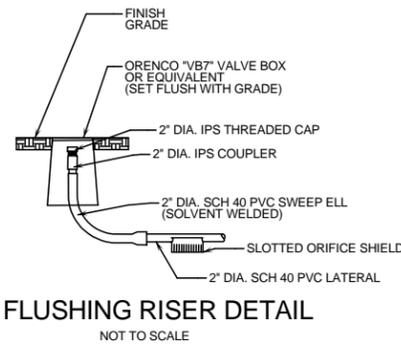


**MOUND WASTEWATER DISPOSAL SYSTEM SECTION**

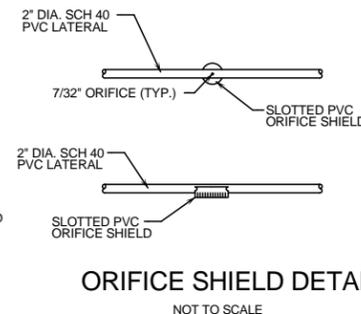
VERTICAL SCALE = NOT TO SCALE  
HORIZONTAL SCALE = NOT TO SCALE

**WASTEWATER DISPOSAL SYSTEM CONSTRUCTION AND MAINTENANCE NOTES**

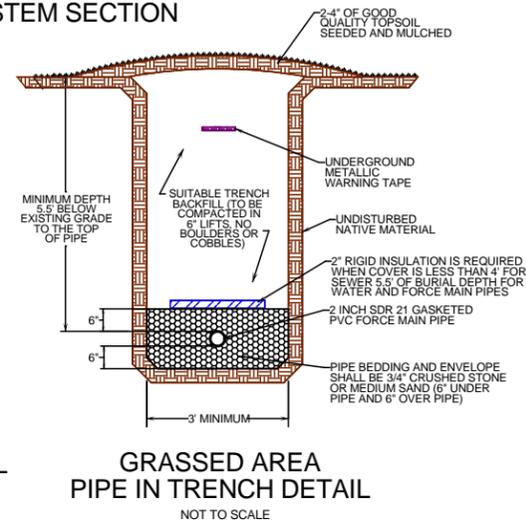
1. THE WASTEWATER DISPOSAL SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES.
2. WASTEWATER DISPOSAL SYSTEM LOCATION SHALL BE STAKED OUT BY THE DESIGNER PRIOR TO START OF CONSTRUCTION.
3. ATTACHED MOUND SYSTEM CONSTRUCTION INSTRUCTIONS SHALL BE FOLLOWED DURING THE INSTALLATION OF THE REPLACEMENT MOUND-TYPE WASTEWATER SYSTEM.
4. THE DESIGNER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR INSPECTIONS OF THE SEPTIC TANK, PUMP STATION, PLOWED LAYER, AND PLACEMENT OF THE MOUND SAND.
5. THE DESIGNER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR A PRESSURE TEST OF THE MOUND SYSTEM PRESSURE DISTRIBUTION NETWORK.
6. WASTEWATER SYSTEM FINISH GRADES WILL VARY WITH NATURAL TOPOGRAPHY. PRIORITY IS TO MAINTAIN 3 ON 1 MOUND TOE SLOPES.
7. SEPTIC TANK EFFLUENT FILTER SHOULD BE REMOVED AND RINSED BACK INTO THE SEPTIC TANK ANNUALLY.
8. THE SEPTIC TANKS AND PUMP STATION SHOULD BE INSPECTED ANNUALLY AND PUMPED OUT EVERY 3 YEARS.
9. FOLLOWING THE MOUND WASTEWATER SYSTEM INSTALLATION, FINISH GRADE SHALL BE SEEDED AND MULCHED WITH A CONSERVATION GRASS SEED MIX.



**FLUSHING RISER DETAIL**  
NOT TO SCALE



**ORIFICE SHIELD DETAIL**  
NOT TO SCALE



**GRASSED AREA PIPE IN TRENCH DETAIL**  
NOT TO SCALE

<b>PERMITTING</b>		<b>Jason Barnard</b> 4400 VT Route 17 Starksboro, VT 05487 Telephone: (802) 453-2597 Fax number: (802) 453-8497 E-mail: jbsitetech@hotmail.com	
TITLE: <b>REPLACEMENT WASTEWATER SYSTEM NOTES AND DETAILS</b>		<b>Consulting, LLC</b>	
SIGNATURE: 		<b>NANCY J. FAULKNER</b> <b>REPLACEMENT WASTEWATER DISPOSAL SYSTEM</b> 283 HIGBEE ROAD CHARLOTTE, VERMONT	
DATE: AUGUST 20, 2015	REVISIONS:	DRAWING NO. <b>3</b>	
SCALE: AS NOTED		SHEET 3 OF 3	
DRAWN BY: CS	CHECKED BY: JB		