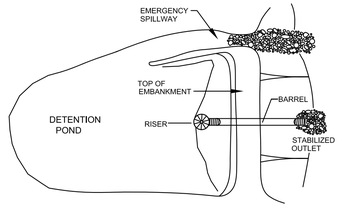
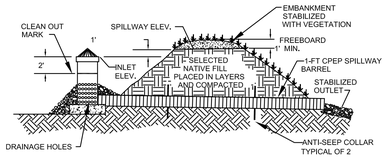
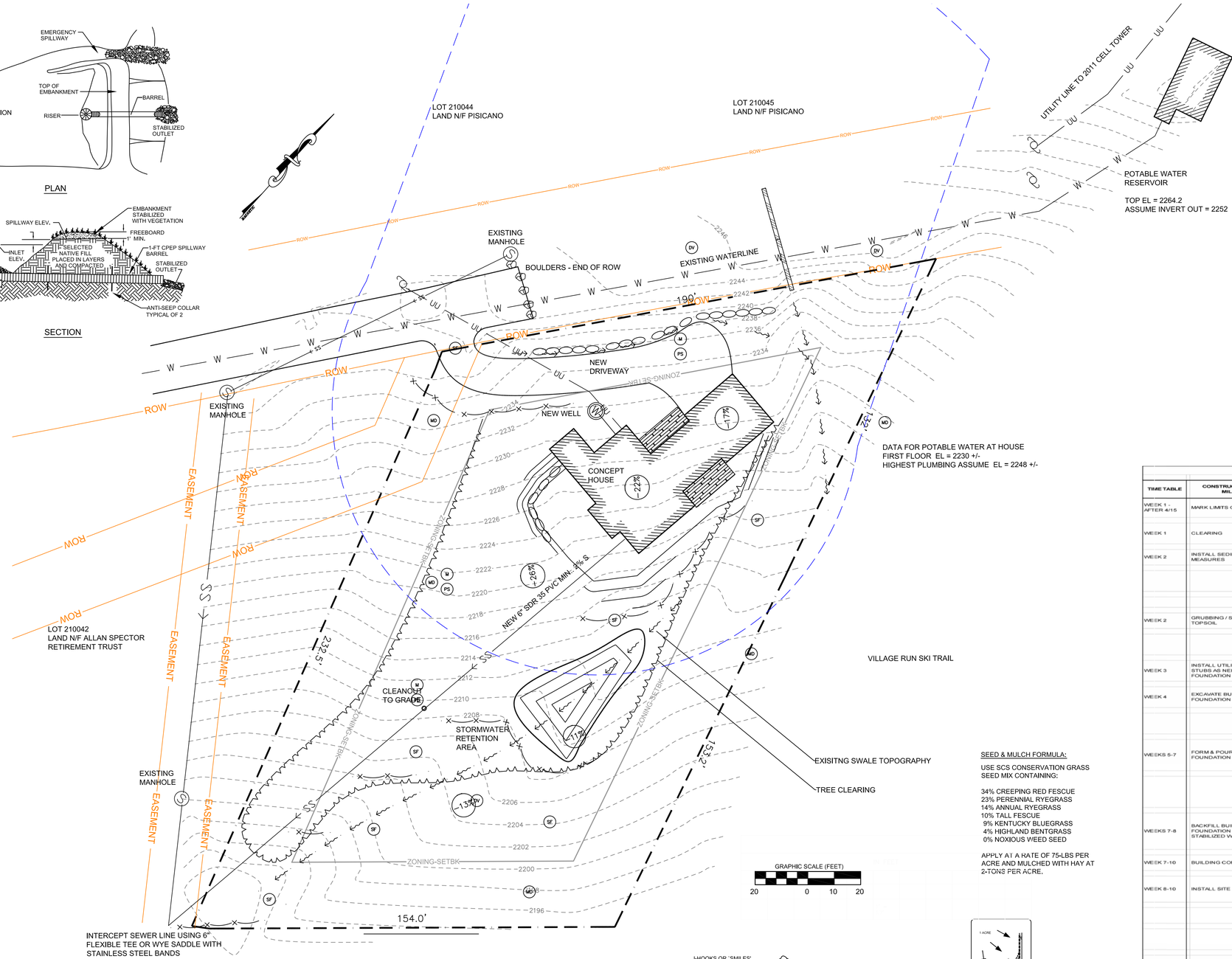


PLAN



SECTION



COMMON SETBACKS

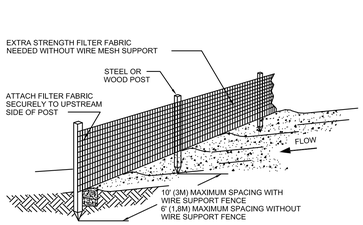
100' TO UPSLOPE DRILLED WELL
200' TO DOWN SLOPE DRILLED WELL
50' SEPTIC TANK TO WELL
10' FIELD TO DRIVES
25' FIELD TO ROAD OR DITCH
75' FIELD UPSLOPE OF HOUSE
35' FIELD DOWN SLOPE OF HOUSE
25' FIELD TO PROPERTY LINES
25' FIELD TO TOP EMBANKMENT
50' FIELD TO SURFACE WATERS
25' WATER LINE TO FIELD & TANK
10' WATER LINE TO SEWER LINE

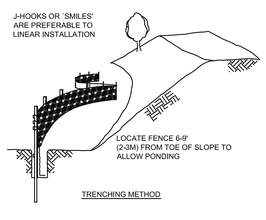
LEGEND

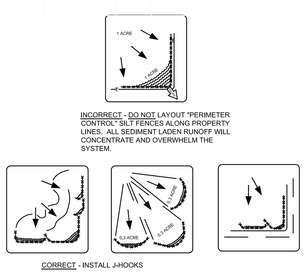
- SB — SOIL BORING OR TEST PIT
- PT — PERCOLATION TEST
- SIGN
- STUMP
- WV — WATER VALVE
- TRAVERSE POINT
- WOOD STAKE OR IRON PIN
- ROCK OUTCROP
- W — WELL
- UTIL. POLE
- GUY WIRE
- SILT FENCE
- TREELINE
- WET AREA
- BENCHMARK
- EXISTING DECIDUOUS TREE
- PROPOSED DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- PROPOSED EVERGREEN TREE

EROSION CONTROL SYMBOLS

AREA TREATMENT BMPS	KEY	LINETYPE	SYMBOL	DESCRIPTION
LAND GRADING	LG			LAND GRADING INTENDED TO MINIMIZE THE IMPACTS OF SURFACE EROSION AND RUNOFF.
MINIMIZE DISTURBANCE	MD			PROTECT AND RETAIN NATURAL VEGETATIVE COVER AND VEGETATIVE BUFFER STRIPS.
MULCHING	M			APPLYING A PROTECTIVE BLANKET OF STRAW OR OTHER PLANT RESIDUE, GRAVEL OR SYNTHETIC FABRIC OR OTHER MATERIAL TO THE SOIL SURFACE TO PROTECT IT FROM EROSION.
PERMANENT SEEDING	PS			ESTABLISHMENT OF PERENNIAL VEGETATION ON DISTURBED AREAS TO PROVIDE PERMANENT COVER.
PERMANENT DIVERSION	DV		DV	A PERMANENT CHANNEL WITH A RIDGE ON THE LOWER SIDE CONSTRUCTED ACROSS A SLOPE TO REDUCE SLOPE LENGTH AND INTERCEPT AND DIVERT STORM WATER RUNOFF TO A STABILIZED OUTLET AT NON-ERODIBLE VELOCITIES.
TEMPORARY GRAVEL CONSTRUCT ENTRANCE/EXIT	VCE		VCE	STABILIZED PAD OF CRUSHED STONE LOCATED AT POINTS WHERE TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE, TO REDUCE SOIL TRANSPORTED ONTO PUBLIC ROADS OR OTHER PAVED AREAS.
SILT FENCE	SF			A SILT FENCE IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF FILTER FABRIC ENTRENCHED INTO THE SOIL AND ATTACHED TO SUPPORTING POSTS.
ROCK DITCH CHECK				A STRUCTURE USED TO SLOW OR 'CHECK' THE VELOCITY OF RUNOFF, NOT INTENDED TO TRAP SEDIMENT.
TEMPORARY DIVERSION DIKE	RDC		RDC	A RIDGE OF COMPACTED SOIL CONSTRUCTED AT THE TOP OR THE BASE OF A SLOPING DISTURBED AREA WHICH DIVERTS OFFSITE RUNOFF AWAY FROM UNPROTECTED SLOPES AND TO A STABILIZED OUTLET. MAXIMUM EFFECTIVE LIFE IS 18 MONTHS.







SEED & MULCH FORMULA:

USE SCS CONSERVATION GRASS SEED MIX CONTAINING:

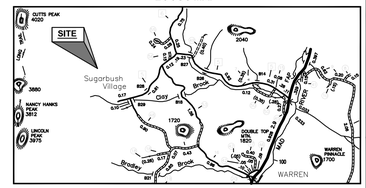
34% CREEPING RED FESCUE
23% PERENNIAL RYEGRASS
14% ANNUAL RYEGRASS
10% TALL FESCUE
9% KENTUCKY BLUEGRASS
4% HIGHLAND BENTGRASS
0% NOXIOUS WEED SEED

APPLY AT A RATE OF 75-LBS PER ACRE AND MULCHED WITH HAY AT 2-TONS PER ACRE.

EROSION & SEDIMENT CONTROL PLAN NARRATIVE

TIME TABLE	CONSTRUCTION ITEM OR MILESTONE	PREVENTION & CONTROL TASK	MAINTENANCE
WEEK 1 - AFTER 4/15	MARK LIMITS OF DISTURBANCE	INSTALL FLAGGING, STAKES, AND CONSTRUCTION BARRIER FENCE AS SHOWN ON PLAN.	MAINTAIN THROUGHOUT CONSTRUCTION. REPAIR OR RE-INSTALL AS NEEDED.
WEEK 1	CLEARING	CLEAR TREES AND BRUSH ONLY. DO NOT REMOVE STUMPS OR TOPSOIL UNTIL AFTER SILT FENCE IS INSTALLED.	REPAIR OR RE-INSTALL ANY FLAGGING, STAKES OR CONSTRUCTION BARRIER FENCE DISTURBED DURING CLEARING.
WEEK 2	INSTALL SEDIMENT CONTROL MEASURES	INSTALL STABILIZED CONSTRUCTION EXIT	REMOVE MUD DEPOSITS OR SNOW/ICE AND/OR PLACE ADDITIONAL STONE AS REQUIRED.
		INSTALL SILT FENCE ALONG THE DOWN SLOPE PERIMETER OF THE SITE AS SHOWN ON PLAN AND/OR AS DIRECTED BY THE ON-SITE COORDINATOR	REPAIR / RE-INSTALL SILT FENCE AS REQ'D. REMOVE ACCUMULATED SEDIMENT AS REQ'D.
		INSTALL GRAVEL BASE IN STAGING AND MATERIAL STORAGE AREA.	REMOVE /SCRAPE AND PLACE ADDITIONAL GRAVEL, AS NEEDED
WEEK 2	GRUBBING / STOCK PILE TOPSOIL	STUMPS TO BE HAULED OFFSITE TO A LANDFILL OR AN APPROVED STUMP DISPOSAL LOCATION	N/A
		INSTALL SILT FENCE ALONG DOWN SLOPE PERIMETER OF THE STOCKPILE LOCATION. AFTER TOPSOIL HAS BEEN STOCKPILED, MULCH ENTIRE PILE.	REPAIR / RE-INSTALL SILT FENCE AS REQ'D. REMOVE ACCUMULATED SEDIMENT AS REQ'D.
WEEK 3	INSTALL UTILITY SERVICE STUBS AS NEEDED PRIOR TO FOUNDATION WORK.	INSTALL UTILITY SERVICES BEYOND PERIMETER OF BUILDING AND ADJACENT WORK AREAS. BACKFILL AND MULCH UTILITY TRENCH EXCAVATION.	RE-MULCH AREAS OUTSIDE STABILIZED AREA AS REQ'D.
WEEK 4	EXCAVATE BUILDING FOUNDATION	STOCKPILE EXCESS MATERIAL IN LOCATION SHOWN ON PLAN. INSTALL SILT FENCE AROUND DOWN SLOPE PERIMETER OF STOCKPILE. MULCH PILE.	REPAIR / RE-INSTALL SILT FENCE AS REQ'D.
		DEWATERING OF THE EXCAVATION FOR THE FOUNDATION IS NOT PERMITTED. CONSULT ENGINEER IF DEWATERING IS REQUIRED.	WATER WITHIN EXCAVATION TO INFILTRATE INTO NATIVE SOIL.
WEEKS 5-7	FORM & POUR CONCRETE FOUNDATION	CONCRETE MIXER WASH WATER SHALL BE DISPOSED OF IN AN UPLAND LOCATION. CONCRETE MIXER WASH WATER SHALL NOT BE DISPOSED OF IN BUFFERS OR NEAR PRESERVED TREES.	EXCAVATE TEMPORARY SHALLOW SUMP IN AN UPLAND LOCATION FOR INFILTRATION OF WASH WATER IF NECESSARY. PROTECT WITH SILT FENCE AND/OR SEED & MULCH AS NEEDED.
			REPAIR / RE-INSTALL SILT FENCE AS REQ'D. REMOVE ACCUMULATED SEDIMENT AS REQ'D FROM STABILIZED EXIT OR STAGING AREAS AND INSTALL ADDITIONAL GRAVEL OR STONE AS REQ'D.
		PREVENT TRANSPORT BY VEHICLE TIRES AND MAINTAIN SEDIMENT CONTROLS AROUND PERIMETER OF WORK AREA.	
WEEKS 7-8	BACKFILL BUILDING FOUNDATION & PROVDE STABILIZED WORK AREA	AFTER PLACEMENT OF BACKFILL, MULCH SOIL OR INSTALL GRAVEL OR CRUSHED STONE BASE AROUND PERIMETER OF BUILDING FOR STABILIZED WORK AREA DURING BUILDING CONSTRUCTION.	RE-MULCH OR APPLY ADDITIONAL GRAVEL / CRUSHED STONE IN STABILIZED WORK AREAS AROUND PERIMETER OF BUILDING. REPAIR AND/OR RE-INSTALL SEDIMENT CONTROL MEASURES AROUND WORK AREA.
WEEK 7-10	BUILDING CONSTRUCTION	REMAIN WITHIN LIMITS OF DISTURBANCE AND MAINTAIN SEDIMENT CONTROL MEASURES.	RE-MULCH AS NEEDED UNTIL GRASS IS ESTABLISHED.
WEEK 8-10	INSTALL SITE UTILITIES	UPON BACKFILLING UTILITY TRENCHES, PLACE TOPSOIL (IF REQUIRED), SEED AND MULCH IN DISTURBED AREAS OUTSIDE LIMITS OF STABILIZED SURFACE / WORK AREAS.	RE-MULCH AS NEEDED UNTIL GRASS IS ESTABLISHED.
		INSTALL STONE INLET PROTECTION AROUND CATCH BASINS AND CULVERT INLETS	RE-MULCH AS NEEDED UNTIL GRASS IS ESTABLISHED.
		UNTIL FINAL GRADING, KEEP C.B. GRATES 6" (IF USED) ABOVE ADJACENT GROUND TO TRAP SEDIMENT AND MAXIMIZE INFILTRATION.	REMOVE ACCUMULATED SEDIMENT AS REQ'D.
WEEK 10-13	SITE WORK (DRIVES, PARKING, WALKS)	WITHIN 48-HOURS OF FINAL GRADING, SEED AND MULCH DISTURBED AREAS OUTSIDE PARKING, DRIVES, AND WALKWAY LIMITS.	RE-MULCH AS NEEDED UNTIL GRASS IS ESTABLISHED.
		MAINTAIN INLET PROTECTION / STONE FILTERS UNTIL SITE IS STABILIZED WITH VEGETATION.	RE-MULCH AS NEEDED UNTIL GRASS IS ESTABLISHED.
		DISTURBED SOIL IN AREAS NOT UNDER ACTIVE CONSTRUCTION WILL BE TEMPORARILY MULCHED.	SEED & MULCH UPON FINAL GRADING.
WEEK 11-20	BUILDING CONSTRUCTION CONCURRENT WITH SITE WORK	REMAIN WITH LIMITS OF DISTURBANCE. MAINTAIN SEDIMENT CONTROL MEASURES IN PLACE AND PLACE ADDITIONAL GRAVEL / CRUSHED STONE IN STABILIZED WORK AREAS.	MAINTAIN SEDIMENT CONTROL MEASURES AS OUTLINED IN ABOVE ITEMS
WEEK 20 (PRIOR TO 9/15)	COMPLETE CONSTRUCTION ON EXTERIOR OF BUILDING AND SITE WORK	WITHIN 48-HOURS OF FINAL GRADING, SEED AND MULCH DISTURBED AREAS OUTSIDE PARKING, DRIVES, AND WALKWAYS.	RE-MULCH AS NEEDED UNTIL GRASS IS ESTABLISHED.
OCTOBER 15TH	END SITE WORK - ONLY INTERIOR CONSTRUCTION THROUGH WINTER.	STABILIZE ALL AREAS FOR WINTER.	RE-MULCH AS NEEDED UNTIL GRASS IS ESTABLISHED.
		INSTALL WINTER BARRIERS& MARKERS TO DIRECT SNOW REMOVAL.	REPAIR OR RE-INSTALL ANY FLAGGING, STAKES OR CONSTRUCTION BARRIER FENCE DISTURBED DURING CLEARING.

- LOCUS MAP -



- PROJECT DESCRIPTION -

PROPOSED PROJECT IS CONSTRUCTION OF A NEW 4-BEDROOM SINGLE-FAMILY DWELLING ON EXISTING 0.7 +/- ACRE LOT. OWNER IS RESPONSIBLE FOR ENSURING THAT ALL PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION OR RELIANCE ON INFORMATION CONTAINED HEREIN. OWNER IS RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO PLAN AND ALL PERMITS.

NOTES:

1. LOW FLOW FIXTURES REQUIRED.

2. CONTRACTOR TO REPORT ALL ERRORS AND OMISSIONS TO ENGINEER PRIOR TO CONSTRUCTION. ALL CHANGE ORDERS, ALTERNATIVE MATERIALS, OR PLAN DEVIATIONS TO BE PRE-APPROVED BY OWNER AND/OR ENGINEER PRIOR TO INSTALLATION AS APPROPRIATE.

3. CONTRACTOR WARNED THAT UNDERGROUND UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THESE PLANS. CONTRACTOR MUST CONTACT DIG-SAFE PRIOR TO ANY DIGGING. THESE PLANS ARE BASED ON LIMITED SUBSURFACE EXCAVATION PER CONTRACTED SCOPE OF WORK. OWNER AND CONTRACTOR WARNED THAT LEDGE OR OTHER UNDESIRABLE CONDITIONS MAY EXIST THAT ARE NOT SHOWN ON THESE PLANS..

4. CARE SHALL BE TAKEN TO MAINTAIN THE SYSTEM TO OBSERVE SETBACK REQUIREMENTS FOR ANY FUTURE CONSTRUCTION.

5. CONTRACTOR AND OWNER ARE RESPONSIBLE FOR SITE SAFETY AND COMPLIANCE WITH OSHA, EROSION CONTROL, AND OTHER STATE AND FEDERAL REQUIREMENTS DURING CONSTRUCTION.

6. THIS PLAN WAS CREATED FOR THE PURPOSE OF COMPLETING THE CONTRACTED SCOPE OF WORK AND IS NOT TO BE USED FOR OTHER PURPOSES WITHOUT PERMISSION. THIS PLAN TAKES INTO ACCOUNT EXPRESSED OR INHERENT BUDGET LIMITATIONS OF THE OWNER. PROJECT GOAL WAS TO MEET REGULATORY REQUIREMENTS AT LEAST COST. BY USE OF THIS PLAN, THE OWNER UNDERSTANDS THAT ADDITIONAL COMPONENTS OR MATERIAL COULD BE ADDED TO PROVIDE BETTER RESULTS AT A HIGHER PROJECT COST.

7. THIS MAP IS BASED ON SURVEY PROVIDED BY OWNER SUPPLEMENTED WITH FIELD SURVEY BY BANNON ENGINEERING FOR THIS PROJECT. CONTOURS BASED ON SPOT ELEVATIONS. BANNON ENGINEERING SHALL NOT BE RESPONSIBLE FOR USE OF THIS INFORMATION BY ANY OTHER ENTITY INCLUDING THE OWNER. THE PROPERTY LINES, EASEMENTS, AND OTHER REAL PROPERTY SHOWN ON THESE PLANS ARE FOR THE USE OF THE VERMONT AGENCY OF NATURAL RESOURCES ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 VSA § 2502(4); AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT. THIS MAP IS NOT A SURVEY.

8. REGULATORY JURISDICTIONS AND ISSUES MAY APPLY INCLUDING FEDERAL AND STATE OF VERMONT WETLAND REGULATIONS, UNDISCLOSED SUBSURFACE SOURCES OF POLLUTION, AND UNDISCLOSED CLAIMS TO RIGHTS OF WAY AND OTHER ISSUES BEYOND THE SCOPE OF CONTRACTED SERVICE. THE INFORMATION SHOWN ON THESE PLANS IS LIMITED BY CONTRACTED SCOPE OF WORK AND REGULATIONS IN PLACE AT TIME OF COMPLETING CONTRACTED SCOPE. IT IS THE OWNER'S RESPONSIBILITY TO ENSURE THAT THE PROJECT IS VIABLE AND PROPERLY PERMITTED AT THE TIME OF CONSTRUCTION.

RELEASED FOR PURPOSE SPECIFIED, SUBJECT TO CHANGE.
STATE OF VERMONT
CHRISTOPHER C. RANDALL
No. 7121
2/20/12
REGISTERED PROFESSIONAL ENGINEER
SIGNATURE, SEAL & DATE

REVISION LOG

0.	2/20/2012	MCB	ORIGINAL DATE- ISSUED

THESE PLANS ARE DISTRIBUTED FOR THE PURPOSE OF:
- ___ PRELIMINARY PLANS
- _X_ LOCAL REVIEW
- ___ NEIGHBOR PLANS
- ___ FINAL PLANS
- ___ CONTRACT PLANS
- ___ CONSTRUCTION
- ___ AS-BUILT

BEFORE USING THESE PLANS, ENSURE THAT YOU HAVE THE LATEST REVISION.

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- CIVIL - ENVIRONMENTAL - DESIGN - PLANNING -

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PROJECT TITLE
MICHAEL & DEIRDRA FENNELLY, LOT 56 UPPER VILLAGE RD, WARREN, VT PARCEL #_____ BK_ PG_

SHEET TITLE
PROPOSED SITE & EROSION CONTROL PLAN

SHEET NO.
S-1