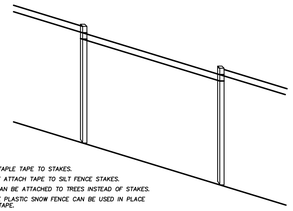

- NAIL/STAPLE TAPE TO STAKES.
- DO NOT ATTACH TAPE TO SILT FENCE STAKES.
- TAPE CAN BE ATTACHED TO TREES INSTEAD OF STAKES.
- ORANGE PLASTIC SNOW FENCE CAN BE USED IN PLACE OF 4" TAPE.

4" ORANGE BARRIER TAPE DETAIL

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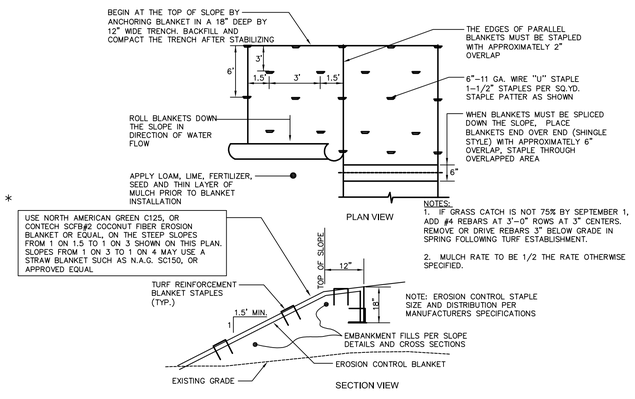


NOTES:
1. IF GRASS CATCH IS NOT 75% BY SEPTEMBER 1, ADD #4 REBARS AT 3'-0" ROWS AT 3" CENTERS. REMOVE OR DRIVE REBARS 3" BELOW GRADE IN SPRING FOLLOWING TURF ESTABLISHMENT.
2. MULCH RATE TO BE 1/2 THE RATE OTHERWISE SPECIFIED.

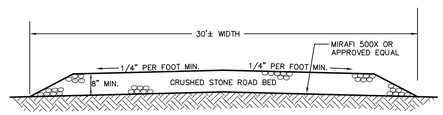
EROSION BLANKET DETAIL

NTS

MULCH MATERIAL	QUALITY STANDARDS	per 1000 Sq.Ft.	per ACRE	DEPTH OF APPLICATION	REMARKS
WOOD CHIPS OR SHAVINGS	AIR-DRIED. FREE OF OBJECTIONABLE COARSE MATERIAL	500-900 LBS.	10-20 TONS	2-7"	USED PRIMARILY AROUND SHRUB AND TREE PLANTINGS AND RECREATION TRAILS TO INHIBIT WEED COMPETITION. RESISTANT TO WIND BLOWING. DECOMPOSES SLOWLY.
WOOD FIBER CELLULOSE (PARTLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT.	50 LBS.	2,000 LBS.	-	APPLY WITH HYDROMULCHER. NO TIE DOWN REQUIRED LESS EROSION CONTROL PROVIDED THAN 2 TONS OF HAY OR STRAW.
GRAVEL, CRUSHED STONE OR SLAG	WASHED. SIZE 2B OR 3A - 1-2"	9 CU. YDS.	405 CU. YDS.	3"	EXCELLENT MULCH FOR SHORT SLOPES AND AROUND PLANTS AND ORNAMENTALS. USE 2B WHERE SUBJECT TO TRAFFIC. (APPROXIMATELY 2,000 LBS./CU.YD.). FREQUENTLY USED OVER FILTER FABRIC FOR BETTER WEED CONTROL.
HAY OR STRAW	AIR-DRIED. FREE OF UNDESIRABLE SEEDS & COARSE MATERIALS	90-100 LBS. 2-3 BALES	2 TONS (100-120 BALES)	COVER ABOUT 90% SURFACE	USE SMALL GRAIN STRAW WHERE MULCH IS MAINTAINED FOR MORE THAN 3 MONTHS. SUBJECT TO WIND BLOWING UNLESS ANCHORED. MOST COMMONLY USED MULCHING MATERIAL. PROVIDES THE BEST MICRO-ENVIRONMENT FOR GERMINATING SEEDS.
JUTE TWISTED YARN	UNDYED, UNBLEACHED PLAIN WEAVE. WARP 78 ENDS/TD., WEFT 41 ENDS/YD. 60-90 LBS./ROLL	48"x 50 YDS. OR 48"x 75 YDS.	-	-	USE WITHOUT ADDITIONAL MULCH. TIE DOWN AS PER MANUFACTURERS SPECIFICATIONS. GOOD FOR CENTER LINE OF CONCENTRATED WATER FLOW.
EXCELSIOR WOOD FIBER MATS	INTERLOCKING WEB OF EXCELSIOR FIBERS WITH PHOTODEGRADABLE PLASTIC NETTING.	8'x 100" 2-SIDED PLASTIC, 48"x 180" 1-SIDED PLASTIC	-	-	USE WITHOUT ADDITIONAL MULCH. EXCELLENT FOR SEEDING ESTABLISHMENT. APPROXIMATELY 72 LBS./ROLL FOR EXCELSIOR WITH PLASTIC ON BOTH SIDES. USE TWO SIDED PLASTIC FOR CENTERLINE OF WATERWAYS.
COMPOST	UP TO 3" PIECES, MODERATELY TO HIGHLY STABLE	3-9 CU. YDS.	134-402 CU. YDS.	1-3"	COARSER TEXTURED MULCHES MAY BE MORE EFFECTIVE IN REDUCING WEED GROWTH AND WIND EROSION.
STRAW OR COCONUT FIBER, OR COMBINATION	PHOTODEGRADABLE PLASTIC NET ON ONE OR TWO SIDES	MOST ARE 6.5 FT. x 3.5 FT.	81 ROLLS	-	DESIGNED TO TOLERATE HIGHER VELOCITY WATER FLOW. CENTERLINES OF WATERWAYS, 60 SQ.YDS PER ROLL.

TEMPORARY & PERMANENT PLANTINGS, SOIL AMENDMENTS

ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IN THE FOLLOWING PROPORTIONS:
A. SEED @ 20 LB/ACRE (CONSERVATION MIX).
B. FERTILIZER (300 LB/ACRE OF 10-20-20)
C. LIME @ 2 TONS/ACRE
D. MULCH @ 2 TONS/ACRE (SEE TABLE ABOVE).
E. TOPSOIL (6" MINIMUM USING SCREENED TOPSOIL FROM STOCKPILES AT THE WARREN HOUSE SITE).
F. EROSION NETTING (AS REQUIRED).



NOTES:

1. STABILIZED ENTRANCE TO BE CONSTRUCTED AS SHOWN ON THIS PLAN.

2. CRUSHED STONE SIZE TO BE 1.5 TO 2.5 INCHES.

3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO MAIN ROAD. PERIODIC TOP DRESSING WITH ADDITIONAL STONE MAY BE REQUIRED TO ACCEPTABLY MAINTAIN THE ENTRANCE ROAD. ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO THE TOWN ROAD MUST BE REMOVED IMMEDIATELY.

4. WHEN NECESSARY, THE WHEELS OF VEHICLES EXITING THE SITE SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, WATERCOURSE, OR WETLAND. THE STABILIZED CONSTRUCTION ENTRANCE SHALL START AT AND PROCEED FOR A LENGTH OF 50' INCLUDING ALL TURNING RADII.

TYPICAL STABILIZED CONSTRUCTION ENTRANCE

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EROSION CONTROL NOTES

1. PROPERTY LINES SHOWN ON THESE PLANS ARE BASE UPON SURVEYS PROVIDED BY OUR OFFICE. THE PROJECT VERTICAL DATUM IS USGS. TOPOGRAPHY AND EXISTING CONTOURS OF THE AREA SHOWN ON THE SITE PLANS WERE DEVELOPED BY FIELD SURVEYS BY OUR OFFICE.

TEMPORARY & PERMANENT PLANTINGS, SOIL AMENDMENTS

2. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IN THE FOLLOWING PROPORTIONS:
   A. SEED @ 20 LB/ACRE (CONSERVATION MIX)
   B. FERTILIZER (300 LB/ACRE OF 10-20-20)
   C. LIME @ 2 TONS/ACRE
   D. MULCH @ 2 TONS/ACRE
   E. TOPSOIL (6" MINIMUM SCREENED USING STOCKPILES SAVED AT THE WARREN HOUSE)
   F. EROSION NETTING (AS NEEDED.)

3. SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS TO RETAIN SEDIMENT. THE SILT FENCE CAN BE REMOVED WHEN THE EXCAVATION IS COMPLETE, THE SLOPES ARE MULCHED AND GOOD GRASS COVER STARTED.

4. IT IS ANTICIPATED THAT ADDITIONAL EROSION CONTROL MEASURES WILL BE REQUIRED IN THE FIELD. THE ENGINEER, ONSITE PLAN COORDINATOR OR OWNER SHALL AUTHORIZE ADDITIONAL NETTING, MULCH, STONE, CATCH BASINS, ETC. AS THEY BECOME NECESSARY.

5. STONE CHECK DAMS OR STRAW LOGS SHALL BE PLACED AT THE INLET END OF ALL CULVERTS TO RETAIN SEDIMENT. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF THESE THROUGH OUT CONSTRUCTION.

6. USE EROSION CONTROL BLANKET, ON ALL SLOPES GREATER THAN 3:1 SHOWN ON THE PLAN. BLANKETS OR NETTING SHALL BE STAPLED INTO THE GROUND.

7. THE "VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL 2008" SHALL BE FOLLOWED DURING ALL SITE CONSTRUCTION.

8. A PRECONSTRUCTION MEETING WILL BE HELD WITH THE OWNER, ENGINEER AND CONTRACTOR TO REVIEW EROSION CONTROL REQUIREMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

9. MAINTENANCE AND INSPECTIONS: INSPECTIONS WILL BE PERFORMED BY THE ONSITE PLAN COORDINATOR, A MINIMUM OF ONCE PER WEEK. ALSO, PRIOR TO AND IMMEDIATELY FOLLOWING STORM EVENTS. MAINTENANCE TO BE PERFORMED AS NEEDED BASED ON INSPECTIONS.

10. ALL SEED SHALL BE APPLIED PRIOR TO SEPTEMBER 15TH, TO FACILITATE GERMINATION.

11. ESTABLISH CONSTRUCTION STAGING AREA AND SOIL STOCKPILE AREA PRIOR TO THE START OF CONSTRUCTION.

12. SITE WORK WHICH IS REQUIRED AFTER OCTOBER 15 WILL REQUIRE A WINTER EROSION CONTROL PLAN WHICH IS TO BE SUBMITTED TO STATE ANR PRIOR TO SEPTEMBER 15. THE ENGINEER SHALL BE NOTIFIED PRIOR TO SEPTEMBER 1 IN ORDER TO PREPARE THE PLAN AND APPLICATION.

13. ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY: i) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION IN THE FORECAST FOR THE NEXT 24 HOURS, AND/OR, ii) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.I

66.

PROJECT SEQUENCE

PHASE I: CONSTRUCTION OF LINCOLN PEAK VILLAGE PRIOR TO SEPT. 15th

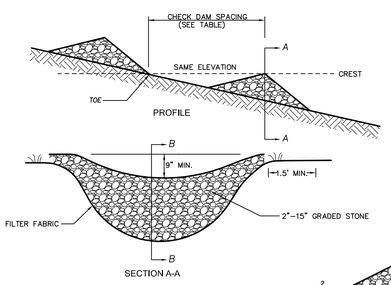
- INSTALL LIMITS OF DISTURBANCE AND SILT FENCE (SEE SITE PLAN).
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- EXCAVATE FOR RICE BROOK RESIDENCES.
- START CONCRETE FOUNDATION WORK.
- START BUILDING FRAMING.
- INSTALL UTILITIES (SEWER, WATER, GAS, ELECTRIC).
- INSTALL DRAINAGE CATCH BASINS & STORMDRAINS.
- CONSTRUCT ROADWAY & TURNAROUND.
- CONSTRUCT STORMWATER TREATMENT FEATURES.
- SEED AND MULCH DISTURBED AREAS BEFORE SEPT. 15th.
- INSTALL HARD SCAPE FEATURES (STEPS, PATIO AND WALKWAYS).
- FULLY STABILIZE PHASE I, BEFORE MOVING TO PHASE II.

PHASE II: FINAL SITE CLEANUP PRIOR TO OCT.15th

- REMOVE LIMITS OF DISTURBANCE.
- INSPECT SILT FENCE AS SHOWN ON EPSC PLAN FOR INTEGRITY.
- INSPECT EROSION CONTROL NETTING, SEED AND MULCH FOR COVERAGE.
- REVIEW SITE FOR WINTER STABILIZATION.
- FINAL STABILIZATION.

SPECIAL CONDITIONS FOR WINTER CONSTRUCTION: (OCT. 15th - APRIL 15th)

- INSPECT SILT FENCE AND INSTALL DOUBLE ROWS ALONG TOE OF SLOPES..
- INCREASE MULCH APPLICATION RATE TO 3" OF COVER. TRACK IN HAY MULCH TO PREVENT WIND DISTURBANCE.
- REINFORCE EROSION CONTROL MAT & RESTAPLE AS NEEDED.
- REFURBISH STABILIZED CONSTRUCTION ENTRANCE & REPLACE LAYER AS NEEDED.
- COVER & CONTAIN STOCKPILES TO OVER WINTER.
- PULL IN LIMITS OF DISTURBANCE TO PREVENT TRAFFIC IN STABILIZED AREAS.
- NOTICE OF WINTER CONSTRUCTION MUST BE FILED UNDER PERMIT 9020 FOR ANY WORK PLANNED BETWEEN OCT. 15th AND APRIL 15th.



MAXIMUM DRAINAGE AREA 2 ACRES

CHECK DAM	
DITCH SLOPE	SPACING - FEET
3	70
4	50
5	40
6	35
7	30
8	25
10	20

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.

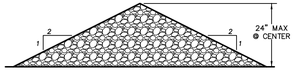
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.

3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.

4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.

5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

6. TO BE PLACED IN DITCHES OVER 2½ % IF RIP RAP IS NOT INSTALLED WITHIN 24 HOURS AFTER DITCH IS CLEANED OR AS ORDERED BY ENGINEER.



SECTION B-B

STONE CHECK DAM

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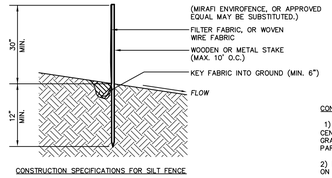

CONSTRUCTION SPECIFICATIONS FOR SILT FENCE

SILT FENCE SHALL BE EITHER PRE-FABRICATED EROSION CONTROL FENCE (MIRAFI ENVIROFENCE, OR EQUAL), OR CONSTRUCTED-IN-PLACE, AS SPECIFIED HEREIN.

PRE-FABRICATED SILT FENCE

1) FENCE SHALL BE INSTALLED PARALLEL TO GROUND CONTOURS, AND FILTER FABRIC SIDE SHALL FACE UPSLOPE; MESH AND STAKES SHALL FACE DOWNSLOPE.

2) TRENCH SHALL BE EXCAVATED MINIMUM 6 INCHES DEEP ON UPSLOPE SIDE OF FENCE LINE. EXCESS FLAP OF FILTER FABRIC (MINIMUM 8 INCHES) SHALL BE PLACED IN TRENCH. TRENCH SHALL BE BACKFILLED AND COMPACTED. CONSTRUCTION IN THIS MANNER PREVENTS SEDIMENT-LADEN RUNOFF FROM FLOWING UNDER SILT FENCE.

3) SILT FENCE SHALL BE INSPECTED WEEKLY, AND AFTER EACH SIGNIFICANT PRECIPITATION EVENT. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

4) BROKEN STAKES SHALL BE REPLACED PROMPTLY.

CONSTRUCTED-IN-PLACE SILT FENCE

1) FENCE POST SHALL BE DRIVEN, 10 FEET MAXIMUM ON CENTER. POSTS SHALL BE DRIVEN MINIMUM 24" BELOW GRADE. FENCE SHALL BE POSITIONED AS SHOWN, PARALLEL TO THE GROUND CONTOURS.

2) TRENCH SHALL BE EXCAVATED MINIMUM 6 INCHES DEEP ON UPSLOPE SIDE OF FENCE LINE.

3) WOVEN WIRE FABRIC (14 GA., 6 INCH MAX. MESH OPENING) SHALL BE STAPLED OR FASTENED SECURELY WITH WIRE TIES TO UPSLOPE SIDE OF FENCE POSTS. WOVEN WIRE FABRIC SHALL EXTEND MINIMUM 36 INCHES ABOVE GRADE.

4) FILTER FABRIC SHALL BE FASTENED SECURELY ON UPSLOPE SIDE OF WOVEN WIRE FABRIC WITH WIRE TIES, SPACED EVERY 24 INCHES, AT TOP AND MID- SECTION OF FENCE. MINIMUM 8 INCH FLAP OF FILTER FABRIC SHALL BE PLACED IN TRENCH ON UPSLOPE SIDE OF FENCE, AND BACKFILLED.

5) WHEN TWO SECTIONS OF FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.

6) SILT FENCE SHALL BE INSPECTED WEEKLY, AND AFTER EACH SIGNIFICANT PRECIPITATION EVENT. MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE.

SILT FENCE

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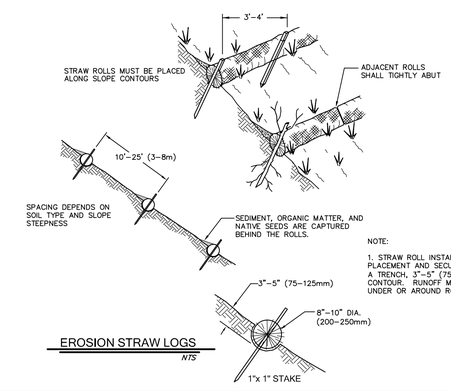

NOTE:

1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" (75-125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

EROSION STRAW LOGS

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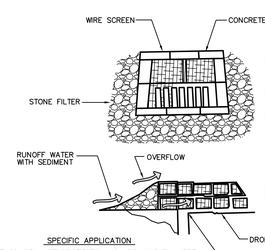

1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF 4", 8" AND 12" WIDE BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12" HIGH AND NO GREATER THAN 24" HIGH.

2. WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS SHALL BE USED.

3. STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE CLOCK BARRIER, AS SHOWN IN DETAIL. THE STONE FILTER SHALL BE 3/4" CRUSHED STONE.

4. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

5. PRE MANUFACTURED SILT SACKS MAY BE USED AS AN EQUIVALENT TO STONE SEDIMENT BARRIERS.,

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

* IF ON TEMPORARY BASIS DURING CONSTRUCTION THE CATCH BASIN IS NOT NEEDED TO COLLECT RUNOFF THE GRATE CAN BE WRAPPED IN DRAINAGE FABRIC AS A SEDIMENT BARRIER.

* FOR PRECAST CONCRETE CATCH BASINS

STONE SEDIMENT BARRIER

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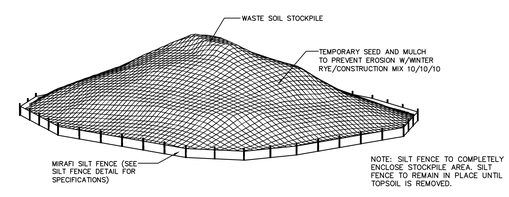

TEMPORARY WASTE SOIL STOCKPILE EROSION PROTECTION DETAIL

NTS

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Land Development
Environmental Services

Sugarbush Lincoln Peak Base Area Development Phase II

Lincoln Peak Village

Warren, VT

Sugarbush BeBetter-Here

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REVISIONS

Not For Construction

DATE: 12-16-11

EROSION DETAILS

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