

EROSION CONTROL SPECIFICATIONS

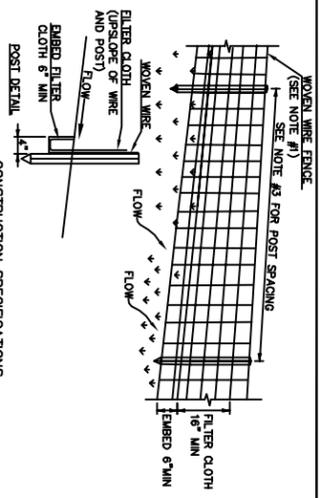
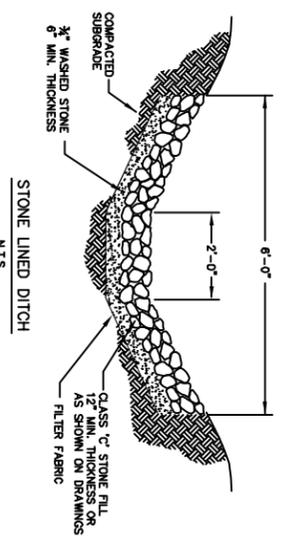
1. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL, 2008, AND LOCAL STATE HANDBOOK FOR EROSION PREVENTION & SEDIMENT CONTROL, 2008. THE CONSTRUCTION SHALL TAKE REFERENCE TO THESE PUBLICATIONS.
2. IMMEDIATE ATTENTION TO EROSION CONTROL PRACTICES DRAMATICALLY IMPROVES SOIL AND MOISTURE CONSERVATION AND REDUCES NEGATIVE IMPACTS ON WATER QUALITY. THE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIRED FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE BOUNDARIES OF THE CLEANING LIMITS SHOWN ON THE PLANS SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FLAGGING, AS SHOWN ON THE PLANS. PRIOR TO CONSTRUCTION, STAKES SHALL BE PLACED AT 10' INTERVALS BEYOND THE CLEANING LIMITS TO MARK THE BOUNDARIES OF THE CLEANING LIMITS. THE CLEANING LIMITS SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION.
3. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION AT ANY ONE TIME BEFORE STABILIZATION. A CONSTRUCTION SEQUENCE HAS BEEN DEVELOPED TO PREVENT EROSION AND SEDIMENTATION. THE CONSTRUCTION SEQUENCE SHALL BE MAINTAINED TO PREVENT EROSION AND SEDIMENTATION AS SOON AS POSSIBLE WITHIN A DISTURBED AREA. NECESSARY LEAVE IN PLACES UNTIL DISTURBED AREAS HAVE BEEN ADEQUATELY STABILIZED. LEAVE IN AREAS RESULTING FROM SILT FENCE REMOVAL SHALL BE PERMANENTLY SEEDED.
4. ALL DISTURBED AREAS SHALL HAVE TEMPORARY STABILIZATION MEASURES IN PLACE WITHIN 48 HOURS OF INITIAL DISTURBANCE, AND PERMANENT STABILIZATION MEASURES CUT AND FILL SLOPES MAY CALL FOR INTENSIVE EROSION CONTROL MEASURES. MULCH NETTING OR EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES 3:1 AND STEEPER. DURING THE CONSTRUCTION PERIOD UNTIL SUCH TIME AS LONG TERM WEATHERING ESTABLISHES, THE CONSTRUCTION SHALL BE NECESSARILY CLEANED, WITH THE BOTTOM OF SEDIMENT BASINS SHALL BE PERMANENTLY CLEANED, WITH THE SEDIMENT DEPOSITS SHALL BE REMOVED AS NECESSARY.
5. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES. THE SITE EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES. THE SITE EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES. THE SITE EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES.
6. A MINIMUM OF 60% VEGETATED GROWTH HAS BEEN ESTABLISHED.
7. WINTER CONSTRUCTION NOTES: AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 60% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLAYING 3 TO 4 TONS OF MULCH PER ACRE, SEEDING WITH ANCHORED NETTING, EROSION CONTROL BLANKETS, OR OTHER EROSION CONTROL MEASURES. MULCH SHALL BE APPLIED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
8. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 60% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PAVING SURFACES, WHERE WORK INCHES OF CUSHED STONE, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CUSHED STONE.
9. WINTER CONSTRUCTION NOTES: CONTRACTOR SHALL ADHERE TO THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL* FOR ADDITIONAL CONSTRUCTION SEQUENCE.

RISK EVALUATION - PROJECT SPECIFIC

IN THE EVENT THAT CHANGES ARE MADE PRIOR TO OR DURING CONSTRUCTION THAT RESULT IN THE DISTURBANCE OF ONE OR MORE AREAS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VNR.

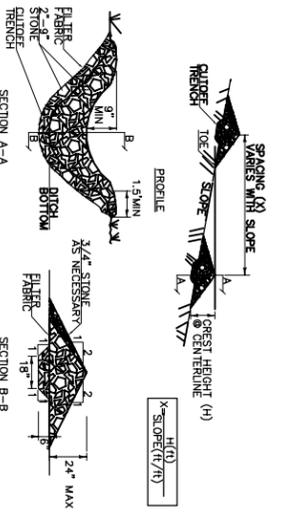
EROSION CONTROL SPECIAL NOTES:

1. EROSION CONTROL ACCESS ROADS AND STAGING AREAS ON PLANS FOR INDICATED PURPOSES ONLY AND SHALL BE INSTALLED AS APPROPRIATE FOR FIELD CONDITIONS AND DOWN-GRADE OF DISTURBED AREAS. SILT FENCE SHALL ONLY BE INSTALLED PARALLEL TO SLOPE CONTOURS, WHERE THIS IS NOT POSSIBLE, RUNOFF FROM DISTURBED AREAS SHALL BE CONFINED TO APPROVED STAGING AREAS. STAGING AREAS SHALL BE CHECKED DURING CONSTRUCTION FOR EROSION CONTROL MEASURES WITH STONE CHECK DAMS, OR OTHER TEMPORARY ACCESS PLAYS ARE MODIFIED FROM LOCATIONS SHOWN ON THE APPROVED ALTERNATE PLANS. ADDITIONAL REVIEW MAY BE NECESSARY WITH VNRMS TO APPROVE ALTERNATE ACCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCUSSING IN THE FIELD.
2. DISCHARGING DEWATERING FLOWS TO ALTERNATE LOCATIONS NOT SHOWN ON THE APPROVED EROSION PLANS MAY REQUIRE ADDITIONAL REVIEW BY VNRMS, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THIS REVIEW IS COMPLETED PRIOR TO IMPLEMENTING ANY CHANGES TO THE FIELD.
3. APPROVED EROSION PLANS MAY REQUIRE ADDITIONAL REVIEW BY VNRMS, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THIS REVIEW IS COMPLETED PRIOR TO IMPLEMENTING ANY CHANGES TO THE FIELD.
4. A PERMANENT DEWATERING SYSTEM SHALL REQUIRE USE OF A FILTER BAG AND/OR HOSE OUTLET PROTECTION, AT A MINIMUM, PRIOR TO DEWATERING. DEWATERING FLOWS FROM AREAS OF EXCAVATION WITH STREET CHANNEL, OR DISCHARGED INTO APPROVED SETTLING BASIN UNLESS AN ALTERNATE LOCATION WITH FILTER BAG AND/OR HOSE OUTLET PROTECTION IS APPROVED BY RESIDENT ENGINEER.
5. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOCAL SEED AND MULCH, AT A MINIMUM, SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH TEMPORARY EROSION MATTING, OR EQUIVALENT GEOTEXTILE FABRIC, AS APPROVED BY RESIDENT ENGINEER.



- CONSTRUCTION SPECIFICATIONS**
1. WOMEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' SURROUND OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STOPPAGE PERMIT. FENCE POSTS SHALL BE 14' MAX. SPACING WITH A 6' MAX. MESH OPENING.
 2. APPROVED EQUIVALENT.
 3. POST SPACING FOR WIRE-BLOCKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS 200%, POST SPACING SHALL NOT EXCEED 6'. WHEN ELONGATION IS 400%, POST SPACING SHALL NOT EXCEED 8'. WOMEN WIRE FENCE IS TO BE FASTENED SECURELY TO WOMEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND ROLDED.
 5. PREPARED UNITS SHALL BE GEOTEX, ENGINEERED, OR APPROVED EQUIVALENT. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

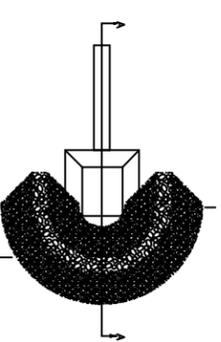
SILT FENCE



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM. 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CONTAINMENT AROUND THE DAM.
4. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LIME AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS BLOCKED ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAXIMUM DRAINAGE AREA 2 ACRES.

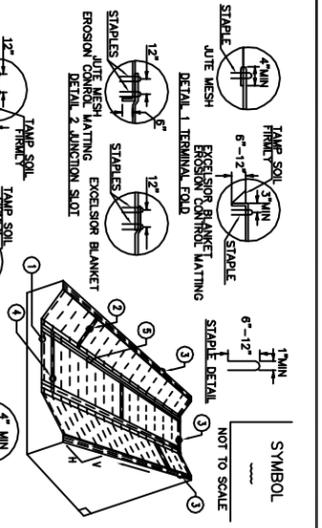
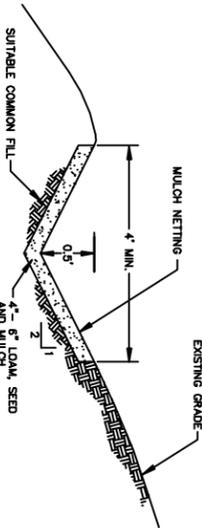
CHECK DAM



CONSTRUCTION SPECIFICATIONS

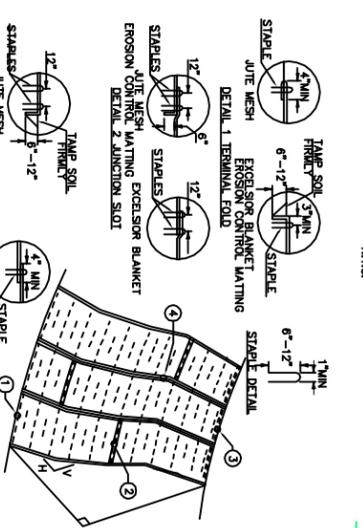
1. USE 2' TO 3" STONE. FILTERING STONE SHALL BE 3/4".
2. PLACE STONE OVER GEOTEXTILE.
3. ONCE PUMPING IS COMPLETE FOR THE PROJECT, THE SEDIMENT TRAPPED BEHIND THE DAM SHALL BE DISPOSED OF IN AN APPROVED WASTE AREA.
4. THE CHECK DAM(S) SHALL BE REMOVED AND THE AREA STABILIZED AND RESTORED TO NEAR PRE-CONSTRUCTION CONDITION.

HOSE OUTLET PROTECTION



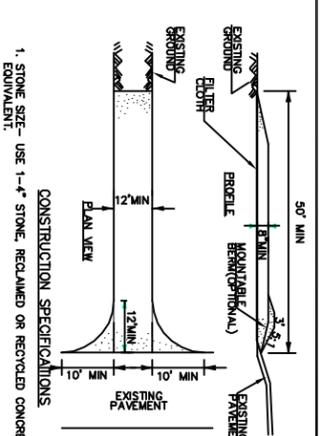
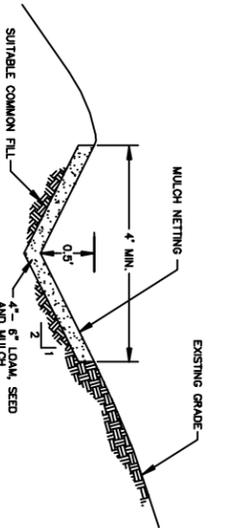
- CONSTRUCTION SPECIFICATIONS**
1. EROSION MATTING CHECK SLOTS SHALL BE SPACED IN DITCH CHANNEL, SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6% ON SLOPES OF 6% OR MORE. THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
 2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
 3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART. REQUIRED PER 4'X25' ROLL OF MATERIAL, AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
 4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GRADING SURFACE. DO NOT STRETCH.
 5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12' INTERVALS.

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH



- CONSTRUCTION SPECIFICATIONS**
1. APPLY TO SLOPES GREATER THAN 3:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
 2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
 3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART. REQUIRED PER 4'X25' ROLL OF MATERIAL, AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
 4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GRADING SURFACE. DO NOT STRETCH.
 5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12' INTERVALS.

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE



- CONSTRUCTION SPECIFICATIONS**
1. STONE SIZE - USE 1-4" STONE, RECYCLED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
 3. THICKNESS - NOT LESS THAN 8".
 4. WIDTH - 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24" IF SINGLE ENTRANCE TO SITE.
 5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PAVED BEHIND THE ENTRANCE. IF PAVING IS IMPRACTICAL, A WOODTRAIL BEAM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL TRACKING OR FLOWING OF SEDIMENT OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

STABILIZED CONSTRUCTION ENTRANCE

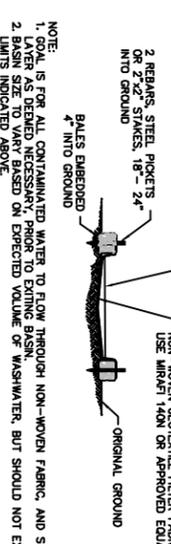
VAQOT RURAL AREA MIX			
%WEIGHT (ERODIBLES)	NAME	GEN% (ERODIBLES)	GEN% (TOTAL)
31.25%	45 PERENNIAL RED FESCUE	64%	68%
31.25%	45 FILL FESCUE	64%	68%
6.25%	6 RIBBON TOE	64%	68%
14.00%	10 BROADLEAF THEROIL	65%	68%
5.00%	6 ANNUAL RYE GRASS	65%	68%
100%			95%

VAQOT URBAN AREA MIX			
WEIGHT (ERODIBLES)	NAME	GEN% (ERODIBLES)	GEN% (TOTAL)
42.5%	16 SHEPHERD RED FESCUE	65%	98%
10.0%	10 PERENNIAL RYE GRASS	90%	98%
42.5%	16 BENTONIC BLUE GRASS	65%	98%
5.0%	8 ANNUAL RYE GRASS	65%	95%
100%			95%

SOIL AMENDMENT GUIDANCE

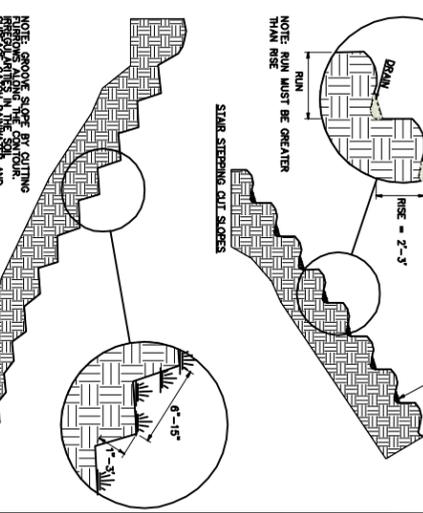
1. APPLY TO SLOPES GREATER THAN 3:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART. REQUIRED PER 4'X25' ROLL OF MATERIAL, AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GRADING SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12' INTERVALS.

TIRE ESTABLISHMENT



- NOTE:**
1. LAYER IS FOR ALL CONTAMINATED WATER TO FLOW THROUGH NON-WOVEN FABRIC, AND SAND FILTER AS NEEDED NECESSARY, PRIOR TO EXTING BASIN.
 2. BASIN SIZE TO VARY BASED ON EXPECTED VOLUME OF WASHWATER, BUT SHOULD NOT EXCEED LIMITS INDICATED ABOVE.
 3. LIMITS INDICATED ABOVE WILL INCREASE TREATMENT CAPACITY.
 4. DETAIL AS SHOWN IS INTENDED DUE TO UNSUITABLE SOIL CONDITIONS, CLOSE PROXIMITY TO SENSITIVE RESOURCES, OR OTHER CONDITIONS. CONTRACTOR SHALL USE APPROPRIATE PLASTIC LINER TO PREVENT SEEPAGE TO SENSITIVE RESOURCES.
 5. ALLOW WATER TO EXIT BASIN IN DESIRED DIRECTION AWAY FROM SENSITIVE RESOURCES.

ALTERNATE TREATMENT BASIN FOR DEWATERING



SURFACE ROUGHENING DETAILS

- NOTE:**
1. REFER TO THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL, 2008, AND LOCAL STATE HANDBOOK FOR EROSION PREVENTION & SEDIMENT CONTROL, 2008, FOR ADDITIONAL CONSTRUCTION SEQUENCE.

SCALE: 1" = 40' AS SHOWN

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DRAWN BY: AMS
CHECKED BY: SAW
DATE: 05/31/13
PROJ. NO. 12367