Work Sequence

Spring 2006 thru Fall 2006

Disturbance Sequence #1 (Estimated Maximum Disturbance 5 ac):

A. Following timber harvest and "brush hog" mowing of this sequence area and prior to commencing the grading of stumps and earthwork install silt fence along back of Lots 12 through 26, below Stormwater Pond 2 (Sediment Trap No. 6), along back of Lot 55 through 7 and along southeast side of Lots 10 and 11. Following access creation also install temporary swale system, check dams upstream of Sediment Trap 1 and Temporary Sediment Trap 1 as shown on Sheet 6 of the plans, utilize existing undisturbed naturally vegetated areas as part of the temporary inter swale system. Similarly, prior to disturbing Lot 26, 28 and 40 Bridle Path construct tributary Temporary Swale and Sediment Trap 2. Prior to commencing grubbing of stumps and earthwork on Lot #10 Bridle Path and Lot #1 Hunters Ridge install silt fence along the rear property boundary. Coordinate any modifications to the Erosion and Sediment Control Plan with SWPPP Monitoring Professional prior to implementation.
B. Rough grade Bridle Path STA +0+00 to STA +0+50.
C. Install triple culvert crossing and Downstream relocation.
D. Install imported fill material Bridle Path STA +0+ 10+00 to STA +1+75.0.

Disturbance Sequence #2 (Estimated Maximum Disturbance 30 ac):

A. Disturb only a minimum of area necessary clearing, grubbing and soil disturbance to allow installation of temporary erosion and sediment controls and other SMP's (Best Management Practices) on the Northwest side of the Downstroll and below Stormwater Pond 1 as shown on Sheets 6 and 7 of the plans. These controls consist of the silt fencing below Stormwater Pond 1 and using the graded Stormwater Pond 1 as Temporary Sediment Trap No. 6 on the southeast side of the Downstroll. Install erosion control blankets on Stormwater Pond 1 slope as shown on Sheet 6. On the northwest side of the Downstroll clear and grub only that area necessary to get Stormwater Conveyance Channel #1 and Temporary Sediment Trap No. 5 in place. Install temporary swale on Lots 94, 95, 102 and 106, check dams on Lots 94 and 106, Temporary Rip-rap Outlet Sediment Traps 3,4 and forest silt fencing on Lots 98 through 42 (perimeter of road). Phase in prior to the remainder of clearing/grubbing and earthwork. To facilitate these activities the contractor plans to first perform discriminary clearing necessary for Bridle Path, Lot #42 and 34 Timber Road along the perimeter of the wetland mitigation area and Stormwater basin #4 to facilitate perimeter silt fence installation. Then clear and grub area for Temporary Sediment Trap No. 5 and it's outlet so it can be constructed. Then advance discriminary clearing of Bridle Path and areas necessary to install the remaining silt fence and to install the Temporary Sediment Trap No. 5. Coordinate activities and contemplated SWPPP modifications with the SWPPP Monitoring Professional.
B. Commence clearing and grubbing of areas on the northwest side of the Downstroll. Clearing and grubbing will be sequenced such that a maximum of 10 ac is disturbed and has not received stabilization at any given time. This 10 ac maximum is with respect to clearing and grubbing operations, and will be closely monitored by the on site supervisor.
C. Construct storm basin #1.
D. Install utilities Bridle Path STA +0+00 to STA +1+ 12+50.
E. Use earth created as a result of the construction of storm basin #1. Begin grading (filling) lots north and south of Bridle Path STA +1+0+00 to STA +1+ 12+50.

Disturbance Sequence #3 (Estimated Maximum Disturbance 20 ac):

A. Ensure all temporary erosion control and sediment controls and other SMP's previously installed are operating as required and let grading/fill previously completed are stabilized prior to initiating new soil disturbance. Maintain installed road gravel sub-base (stabilized) as necessary. Provide maintenance and/or repair as specified on the plans and as required of NYSDEC Permit GP-02-01. Prior to clearing, grubbing and earthwork perform discriminary clearing along the grading limits of Lot #53, 24, 26, 18, 12 and 8 Timber Road and Lot #12 and 138 Bridle Path to facilitate perimeter silt fence installation. Install silt fence and temporary check dams as shown on Sheet 6 of the plans. Install temporary swale and Temporary Rip-rap Outlet Sediment Trap as shown on Erosion Control Detail sheet on Sheet 26 to ensure prompt restoration and stabilization of disturbed areas upon completion of off site work. Coordinate activities and contemplated SWPPP modifications with SWPPP Monitoring Professional prior to implementation.
B. Continue clearing and grubbing of areas on the northwest side of the Downstroll. Clearing and grubbing activity again will be sequenced such that a maximum of 10 ac is disturbed and has not received stabilization at any given time. This 10 ac maximum is with respect to clearing and grubbing operations, and will be closely monitored by the on site supervisor.
C. Install roadway subbase gravel Bridle Path STA 0+00 +/- to STA 12+00.
D. Construct storm basin #2 and #4.
E. Rough grade Bridle Path STA +0+ 17+00 to STA +1+ 25+00.
F. Rough grade Timber Road STA +0+ 0+00 to STA +1+ 4+00.
G. Use earth created as a result of the above stockpiling to rough grade #2 and #4 and roadway grading to continue grading (filling) lots north and south of Bridle Path STA +1+ 0+00 to STA +1+ 12+50.
H. Install waterline along Jericho Road and Elm Ave. East (off site).

Disturbance Sequence #4 (Estimated Maximum Disturbance 20 ac):

A. Ensure all temporary erosion and sediment controls and other SMP's previously installed are operating as required and let grading/fill previously completed are stabilized prior to initiating new soil disturbance. Prior to commencing grubbing and earthwork activities perform discriminary clearing along the grading limits of Lot #12 and 3 Timber Brook Road and #113, 122, 125, 130 and 138 Bridle Path necessary to facilitate perimeter fence installation. Install temporary swale and check dams along west side of Horseshoe Drive and Temporary Rip-rap Outlet Sediment Trap 7 at Lot 12 so that R.C.W. drainage drains to it prior to initiating earthwork in this sequence. Maintain previously installed silt fencing and supplement as necessary. Coordinate activities and contemplated SWPPP modifications with the SWPPP Monitoring Professional prior to implementation.
B. Continue clearing and grubbing of areas on the northwest side of the Downstroll. Clearing and grubbing activities again will be sequenced such that a maximum of 10 ac is disturbed and has not received stabilization at any given time. This 10 ac maximum is with respect to clearing and grubbing operations, and will be closely monitored by the on site supervisor.
C. Rough grade Bridle Path STA +1+ 25+00 to STA +1+ 34+75.
D. Rough grade Timber Brook STA +0+ 4+00 to STA +1+ 11+00.
E. Rough grade Timber Brook complete.
F. Rough grade Morgan Road complete.
G. Rough grade Horseshoe Dr. STA +1+ 0+00 to STA +1+ 12+10.
H. Grade lots on the northwest side of the Downstroll, essentially working east to west.
I. Use excess earth created as a result of the above stockpiling and lot grading to grade (fill) lots north and south of the Horseshoe Dr. +1- STA 0+00 to STA 12+10.

Disturbance Sequence #5 (Estimated Maximum Disturbance 20 ac):

A. Ensure all temporary erosion and sediment control and other SMP's previously installed are operating as required and previously placed fill and road sub-bases are/remain stabilized, maintain and repair as necessary. Home construction shall disturb only minimal area necessary to accomplish the work. Install stabilized (6" of NYSDOT sub-base gravel) for employee/truck access prior to initiating home construction. Install concrete truck washout station(s) prior to placing concrete, direct truckers to use it. Coordinate activities and contemplated SWPPP modifications with the SWPPP Professional prior to implementation.
B. Complete clearing and grubbing.
C. Complete grading of lots on the northwest side of the Downstroll, continuing to work from east to west.
D. Use excess earth created as a result of the above lot grading to complete the lot grading (filling) of lots north and south of Horseshoe Dr. +1- STA 0+00 to STA 12+10.
E. Install utilities Bridle Path STA +1+ 12+50 to STA +1+ 19+00.
F. Complete road construction Bridle Path STA +1+ 12+50 to STA +1+19.
G. Install emergency access roadway Horseshoe Dr. STA +1+ 0+00 to STA +1+ 12+10.
H. New Home construction Bridle Path STA +1+ 0+00 to STA +1+ 11+00. (Phase Home Town Phasing Plan).

For the Phase I, 20 acre maximum disturbance, the anticipated end date is May 31, 2007.

Phase II

Winter 2006 thru Summer 2007

Disturbance Sequence #1 (Estimated Maximum Disturbance 18 ac):

A. Ensure all temporary erosion and sediment control and other SMP's previously installed are operating as required and previously placed fill and road sub-bases are/remain stabilized, maintain and repair as necessary. Home construction shall disturb only minimal area necessary to accomplish the work. Install stabilized (6" of NYSDOT sub-base gravel) for employee/truck access prior to initiating home construction. Install concrete truck washout station(s) prior to placing concrete, direct truckers to use it. Coordinate activities and contemplated SWPPP modifications with the SWPPP Professional prior to implementation.
B. Complete clearing and grubbing.
C. Complete grading of lots on the northwest side of the Downstroll, continuing to work from east to west.
D. Use excess earth created as a result of the above lot grading to complete the lot grading (filling) of lots north and south of Horseshoe Dr. +1- STA 0+00 to STA 12+10.
E. Install utilities Bridle Path STA +1+ 12+50 to STA +1+ 19+00.
F. Complete road construction Bridle Path STA +1+ 12+50 to STA +1+19.
G. Install emergency access roadway Horseshoe Dr. STA +1+ 0+00 to STA +1+ 12+10.
H. New Home construction Bridle Path STA +1+ 0+00 to STA +1+ 11+00. (Phase Home Town Phasing Plan).

For the Phase II, 18 acre maximum disturbance, the anticipated end date is December 31, 2007.

Phase III Infrastructure Construction

Spring 2006 thru Summer 2008

Disturbance Sequence #1 (Estimated Maximum Disturbance 5 ac):

A. Ensure all temporary erosion and sediment control and other SMP's previously installed are operating as required and previously placed fill and road sub-bases are/remain stabilized, maintain and repair as necessary. Home construction shall disturb only minimal area necessary to accomplish the work. Install stabilized (6" of NYSDOT sub-base gravel) for employee/truck access prior to initiating home construction. Install concrete truck washout station(s) prior to placing concrete, direct truckers to use it. Coordinate activities and contemplated SWPPP modifications with the SWPPP Professional prior to implementation.
B. New home construction Bridle Path STA +1+ 0+00 to STA +1+ 19+00.
C. Complete road construction Bridle Path STA +1+ 19+00 to STA +1+ 34+75.
D. Utility and road construction Timber Road.
E. Utility and road construction Timber Circle.
F. Utility and road construction Morgan Road.

For Phase III, 10 acre maximum disturbance, the anticipated end date is December 31, 2007.

Additional Notes to Sequencing Plan:

A. Erosion and sedimentation controls will be constructed and maintained in accordance with the project SWPPP for each sequence.
B. New home construction will be continuous between infrastructure phases. At no time will the area disturbed as a result of new home construction exceed 5ac.
C. Site topsoils will be stripped sufficiently in advance of earthwork activities. As expectedly as possible, once the rough grading of a lot has been completed to a given location, topsoil will be replaced and lot seeded and/or stabilized with sod and mulch.
D. Excess topsoil will be removed from the site in conjunction with earthwork activities in an effort to minimize the use of soil stockpiles.
E. The site superintendent will be responsible to be aware of forecasted significant precipitation events using local new media sources. T.V. or Radio.
F. The Contractor will maintain on site or have ready access to a sufficient quantity of temporary erosion control maintenance including silt fence, stone, hay bales, erosion control matting, etc.
G. The Contractor will maintain on site or have ready access to the equipment necessary to install temporary erosion control materials including heavy construction equipment, seeders, bale mowers, etc.

General Erosion Control and Grading Notes:

1. Immediately after grading, disturbed areas which will not receive paving or other permanent cover shall be topsoiled and seeded.
2. Seed shall be a commercially available mixture of 50% annual rye and 50% perennial rye. If the hydroseed method is used, the hydroseed mixture will include a conveyance emulsions tackifier (such as earth bond).
3. Seeded areas shall be fully covered with a mulch material.
4. Silt fence barriers shall be placed along the contour of the site to establish as a result of initial application.
5. Silt fence barriers shall be placed within all areas of exposed slopes to control soil erosion during and after construction.
6. Barriers shall remain in place until new seeding has sufficiently grown to stabilize completed work areas.
7. Catch basin sediment barriers shall be placed around each catch basin grate to prevent siltation. (See detail this sheet).
8. Immediately upon completion of grading, installation of flared end sections, sediment barriers shall be installed as shown on the plans. Contractor shall perform installation in any zone completed regardless of status of completion within balance of site.
9. Erosion control matting (Curlex I by American Excelsior) or approved equal shall be installed on all slopes 3:1 or steeper and where shown on the plans. Secure matting slope with 6" steel U-shaped staples, 2 staples per square yard.
10. Maintenance program:
   Maintenance control measures to be inspected for proper functioning. Any damaged or malfunctioning devices shall be replaced. No erosion and sediment control devices shall be removed without approval of site inspector.
11. Erosion control devices are illustrated on site plan in a schematic manner based on NY state guidelines for erosion and sediment control. It may be necessary to adjust the actual location and quantity of erosion control devices depending upon field conditions. The Contractor, in conjunction with the Owner's Engineer, shall be responsible for implementing these measures as required to protect the site.

Erosion And Sediment Control And Stabilization Measures, Maintenance And Inspection Practices:

1. The following is a list of erosion and sediment controls to be used on this site during construction.

A. Stabilization practices for this site include:
   - Temporary seeding: Temporary seeding only in areas where earthwork will be performed and shall progress as earthwork is needed in accordance with the disturbance sequence plan and revisions by the Site Superintendent.
   - Use of erosion control mat for all slopes of 1V:3H or greater.
   - Permanent seeding and mulching.
B. Structural practices for this site include:
   - Perimeter protection using silt fences.
   - Inlet protection and outlet protection.
   - Storm sewers.
   - Stabilized construction access points.
   - Storm water detention ponds (which may also serve as a temporary sediment basin or trap).
   - Temporary swales with stone check dams.
   - Temporary sediment traps.

2. The following inspection and maintenance practices will be used to maintain erosion and sediment controls and stabilization measures:

A. All control measures will be inspected by a P.E. or an individual sufficiently qualified working under the direct supervision of a P.E. employed by the Project Owner at least twice weekly and within 24 hours following a storm event that is 0.5 inches or greater.
B. Additional inspections of the project impacted erosion and sediment controls will be performed by the project superintendent at least (1) additional time per week. No written log will be kept, however, the project superintendent will use what would be considered best practices to correct any deficiencies he observes.
C. All measures will be maintained in good working order; if repairs are found to be necessary, they will be initiated within 24 hours of report.
D. Built up sediment will be removed from silt fences / straw barriers when it has reached one-third the height of the barrier.
E. Silt fences will be inspected for depth of sediment, tears, etc. to see if the fabric is securely attached to the fence posts, and to see that the fence posts are securely in the ground and functioning properly.
F. The sediment trap, if present, will be inspected for depth of sediment, and built up sediment will be removed when it reaches 50 percent of the design capacity.
G. Temporary and permanent seeding and all other stabilization measures will be inspected for bare spots, washouts, and healthy growth.
H. A written site inspection report will be made after each inspection. Copies of the report forms to be completed by the inspector are included in this SWPPP as part of the Construction Phase Operation and Maintenance Manual.
I. The job site superintendent will be responsible for maintenance and repair activities.
J. Personnel selected for the maintenance responsibilities will receive appropriate instruction from the job site superintendent. This will include the inspection and maintenance practices necessary for keeping the erosion and sediment controls that are used similar to good working order, and essential basics for dam control.
K. Disturbed areas and materials storage areas will be inspected for evidence of or potential for pollutants entering storm water systems, regards inside as necessary.
L. Report to the NYS Department of Environmental Conservation within 24 hours any noncompliance with the noncompliance event the SWPPP that will endanger public health or the environment. Follow up with a written report within 5 days of the noncompliance event.

General Sequence of Construction Activities:

A. Construct temporary construction entrance locations shown.
B. Install perimeter silt fences and temporary sediment traps in the locations shown and other locations as necessary to establish control.
C. Begin clearing and grubbing operations. Clearing and grubbing shall be done only in areas where earthwork will be performed and only in areas where building in accordance with the disturbance sequence plans and approved by the site superintendent.
D. Commence site grading and construction.
E. Disturbed areas of the site where construction activity has ceased for more than 10 days shall be temporarily stabilized with seeding.
F. Install protective controls at the locations of all grate inlets, curb inlets, and at the ends of all exposed storm sewer pipes as the work progresses.
G. Finalize pavement subgrade preparation.
H. Install base material as required for pavement.
I. Carry out final grading and seeding and mulching of right of ways.
J. Topsoil and seed shall be reapplied to any areas which fail to establish as a result of initial application.
K. Silt fence barriers shall be placed within all areas of exposed slopes to control soil erosion during and after construction in accordance with NYS Standards and Specifications for Erosion and Sediment Control.
L. All storm outlets shall receive rip rap immediately upon installation (as per plan).
M. Erosion control matting (Curlex I by American Excelsior) or approved equal shall be installed on all 3:1 slopes. Secure matting slope with 6" steel U-shaped staples, 2 staples per square yard.
N. Silt fence barriers shall be inspected and maintained in good condition to prevent visible sediment remove to odor, taste, odor, turbidity and sediment deposition from the receiving waters of the construction activity.
O. Vehicular access points shall be monitored and inspected at the same frequency as erosion control measures to insure that deposits of sand, silt or other material is not being deposited on public roadways. In the event any significant deposits occur, they shall be cleaned up immediately.

Additional Erosion Control And Grading Notes:

1) Minimal erosion control devices are illustrated on site plan in a schematic manner based on NY State Guidelines For Erosion and Sediment Control. It will be necessary to adjust the actual location and quantity of erosion control devices depending upon field conditions. The Contractor, in conjunction with the Owner's Engineer, shall be responsible for implementing these measures as required to protect the site.
2) Seed shall be a commercially available stalume of annual rye and perennial rye.
3) Seeded areas shall be fully covered with hay (clean weed free) mulch material. Followed by the Engineer, an erosion control matting (Curlex I by American Excelsior or approved equal) shall be anchored over seeded areas which exhibit slopes of 3:1 or greater to prevent erosion.
4) Topsoil and seed shall be reapplied to any areas which fail to establish as a result of initial application.
5) Silt fence barriers shall be placed within all areas of exposed slopes to control soil erosion during and after construction in accordance with NYS Standards and Specifications for Erosion and Sediment Control.
6) All storm outlets shall receive rip rap immediately upon installation (as per plan).
7) Erosion control matting (Curlex I by American Excelsior) or approved equal shall be installed on all 3:1 slopes. Secure matting slope with 6" steel U-shaped staples, 2 staples per square yard.
8) Silt fence barriers shall be inspected and maintained in good condition to prevent visible sediment remove to odor, taste, odor, turbidity and sediment deposition from the receiving waters of the construction activity.
9) Vehicular access points shall be monitored and inspected at the same frequency as erosion control measures to insure that deposits of sand, silt or other material is not being deposited on public roadways. In the event any significant deposits occur, they shall be cleaned up immediately.

SWPPP
(STORMWATER POLLUTION PREVENTION PLAN)

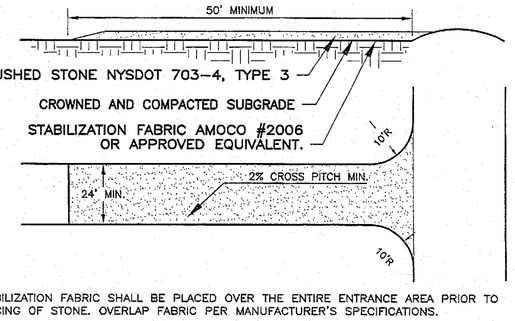
☒ * HAS BEEN DETERMINED TO BE REQUIRED BASED ON SCOPE OF PROJECT. SWPPP REQUIRES DOCUMENTS FROM CONSTRUCTION TEAM.

☐ * HAS BEEN DETERMINED NOT TO BE REQUIRED BASED ON SCOPE OF PROJECT.

* REFER TO REQUIREMENTS LISTED ON THIS SHEET AND SPECIFICATION SECTION 01560 ENCLOSED IN THE SWPPP. IF SCOPE OF PROJECT CHANGES, THE REQUIREMENT FOR A SWPPP AND NYSDEC PERMITTING MAY REQUIRE RE-EVALUATION.

K1 CONSTRUCTION ENTRANCE PAD

N.T.S

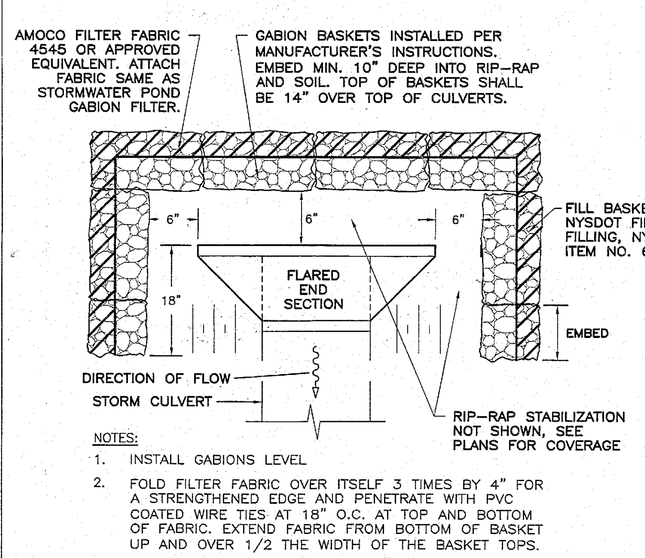


NOTES:

1. STABILIZATION FABRIC SHALL BE PLACED OVER THE ENTIRE ENTRANCE AREA PRIOR TO PLACING OF STONE. OVERLAP FABRIC PER MANUFACTURER'S SPECIFICATIONS.
2. ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE ROAD.
3. WHEN EQUIPMENT WASHING IS REQUIRED IT SHALL BE DONE ON A SEPARATE AREA ADJACENT TO THE ENTRANCE ROAD AND STABILIZED WITH STONE. EQUIPMENT WASHING WILL BE REQUIRED IF ROAD RECEIVES SIGNIFICANT SOILS OR DEBRIS ACCORDING TO JUDGMENT BY OWNER OR SWPPP MONITORING PROFESSIONAL.
4. KEEP ROADS CLEAR OF STONES, MUD, AND OTHER CONSTRUCTION DEBRIS. CLEAN PAVEMENT AS ACCUMULATIONS WARRANT AND AS ORDERED BY ENGINEER.
5. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO DRAINAGE SYSTEM OR TOPSOIL/RESTORATION AREAS.

G1 GABION BASKET RUNOFF FILTER AT INLET

N.T.S

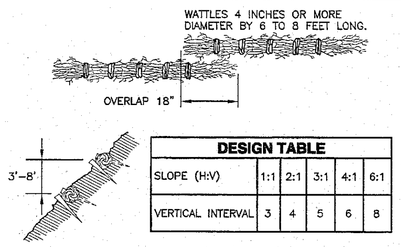


NOTES:

1. INSTALL GABIONS LEVEL
2. FOLD FILTER FABRIC OVER ITSELF 3 TIMES BY 4" FOR A STRENGTHENED EDGE AND PENETRATE WITH PVC COATED WIRE TIES AT 18" O.C. AT TOP AND BOTTOM OF FABRIC. EXTEND FABRIC FROM BOTTOM OF BASKET UP AND OVER 1/2 THE WIDTH OF THE BASKET TOPS.
3. EMBED BASKETS 18" MIN. INTO DRAINAGE CHANNEL BANKS AT BASKET TOP.

F6 UNDERDRAIN DETAIL

N.T.S

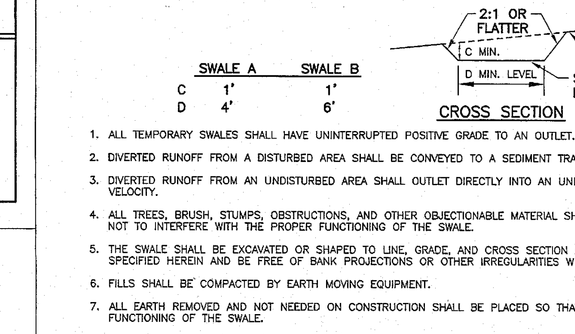


CONSTRUCTION SPECIFICATIONS

1. WILLOW WATTLES SHALL BE 4" MINIMUM DIAMETER AND BUNDLED WITH TAPERED ENDS TO AN OVERALL LENGTH 18 INCHES LONGER THAN THE STEMS.
2. STRUCTURAL MEASURES SUCH AS REVETMENT, DRAINAGE, SURFACE DITCHES WILL BE INSTALLED PRIOR TO WATTLING. SLOPE SHALL BE GRADED AND SMOOTHED WITH OBSTRUCTIONS REMOVED.
3. ANCHOR STAKES WILL BE PLACED ON THE SLOPE AT THE DESIRED CONTOUR INTERVAL.
4. WORKING FROM THE BOTTOM OF THE SLOPE TO THE TOP, EXCAVATE WATTLE TRENCH JUST ABOVE THE STAKES. TRENCH SHALL BE HALF THE DIAMETER OF THE WATTLES. PLACE WATTLES IN TRENCH ANCHORING WITH ADDITIONAL STAKES AT 18 INCH INTERVALS. LOWER WATTLES WITH SOIL LEAVING ABOUT 10% EXPOSURE.
5. SOIL SHALL BE WORKED INTO THE WATTLES AND COMPACTED BY FOOT TRAFFIC.
6. ALL DISTURBED AREAS SHALL BE RESTORED WITH VEGETATION UPON COMPLETION OF WATTLING OPERATIONS.

J6 WATTLING DETAIL

N.T.S



1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE FROM BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

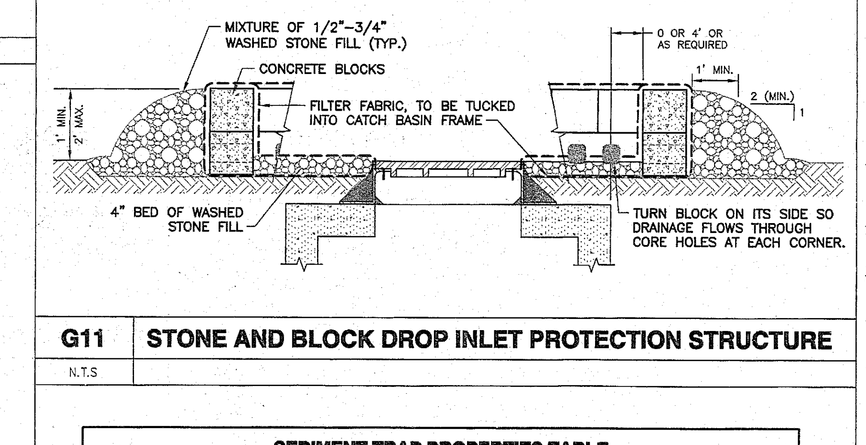
MINIMUM FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	SWALE A (5cc. OR LESS)	SWALE B (5cc.–10cc.)
1	0.5 – 3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1 – 5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1 – 8.0%	SEED WITH JUTE OR EXCELSIOR; SOD	LINED RIP-RAP 4–8" RECYCLED CONCRETE EQUIVALENT
4	8.1 – 20%	LINED 4–8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
10. FLOW CHANNEL STABILIZATION SHOWN ABOVE WILL REQUIRE SUBSEQUENT MAINTENANCE AND ATTENTION. SINCE RUNOFF PATTERNS, QUANTITY, QUALITY AND SEDIMENT CONTENT VARY WIDELY FROM SITE TO SITE, ACTUAL STABILIZATION MAY EXCEED THAT SHOWN IN THE CONTRACT DOCUMENTS. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO TOPSOIL/RESTORATION AREAS.
11. REMOVE TEMPORARY SWALE WHEN SITE IS SUBSTANTIALLY OR COMPLETELY STABILIZED AND SWALE IS NO LONGER REQUIRED. PERFORM FINAL GRADING AND ESTABLISH VEGETATION AT ALL DISTURBED AREAS.

J11 TEMPORARY SWALE

N.T.S



G11 STONE AND BLOCK DROP INLET PROTECTION STRUCTURE

N.T.S

SEDIMENT TRAP PROPERTIES TABLE

TRAP No.	TYPE	DRG. AREA	STORAGE REQ'D	STORAGE PROVIDED	OUTLET LENGTH	STORAGE DEPTH BELOW OUTLET	EMBANKMENT ELEVATION	CONTOUR / AREA
1	V	2.58 AC.	9,288 C.F.	10,375 C.F.	20'	4.35'	168.60	161–1,440 S.F. (BOT.) 165.35–3,400 S.F. (WEIR CREST)
2	V	3.61 AC.	12,996	13,330	20'	4.35'	168.60	161–2,024 S.F. (BOT.) 165.35–4,200 S.F. (WEIR CREST)
3	V	3.53 AC.	12,708	16,296	6'	4'	165.0	156–3,795 S.F. (BOT.) 160–8,474 S.F. (WEIR CREST)
4	V	7.97 AC.	28,692	38,600	20'	2'	155.50	151–16,600 S.F. (BOT.) 154–22,200 S.F. (WEIR CREST)
5	V	3.74 AC.	13,472	14,850	110'	8.8'	149.0	138–223 S.F. (BOT.) 145.80–5,394 S.F. (WEIR CREST)
6	V	7.17 AC.	25,812	92,778	10'	9.8'	156.0	144–550 S.F. (BOT.) 153.50–21,455 S.F. (WEIR CREST)
7	V	0.92 AC.	3,312	3,462	10'	3.0'	168.0	163.50–1,000 S.F. (BOT.) 166.50–1,308 S.F. (WEIR CREST)

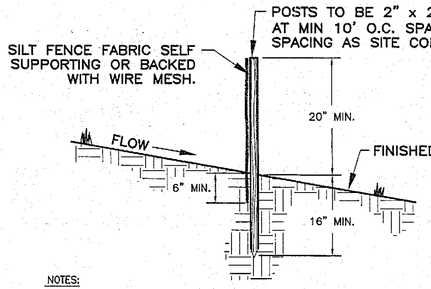
E6 DEWATERING GROUNDWATER DISCHARGES

N.T.S

1. ALL GROUNDWATERING DISCHARGES SHALL NOT RESULT IN TURBIDITY DISCHARGES TO DRAINAGE COURSES. DISCHARGES SHALL BE TO RIP-RAP STABILIZED PADS OR EXISTING VEGETATED AREAS AWAY FROM DRAINAGE COURSES.
2. OFFSITE DEWATERING DISCHARGES SHALL EMPLOY A 10' LENGTH OF 6" PERFORATED PIPE LOOSELY WRAPPED IN FILTER FABRIC AND DISCHARGE ON UPSTREAM SIDE OF SILT FENCE ALONGSIDE ALREADY DISTURBED WORK AREAS.

D1 SILT FENCE

N.T.S

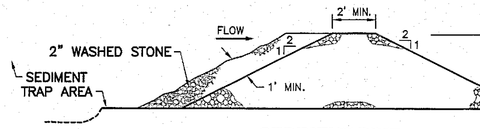


NOTES:

1. SILT FENCE FABRIC SHALL BE FIRMLY ATTACHED TO POSTS USING WIRE TIES OR STAPLES.
2. EMBED FILTER CLOTH A MINIMUM OF 6" BELOW FINISHED GRADE.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED A MINIMUM OF SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE "GENERAL MAINTENANCE PLAN" OR WHEN BULGES OF MATERIAL DEVELOP IN FENCES.
5. ENCIRCLE ALL SOIL STOCKPILES, TEMPORARY OR PERMANENT.
6. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUIVALENT.

A1 SEDIMENT CONTROL DIKE DETAIL

N.T.S

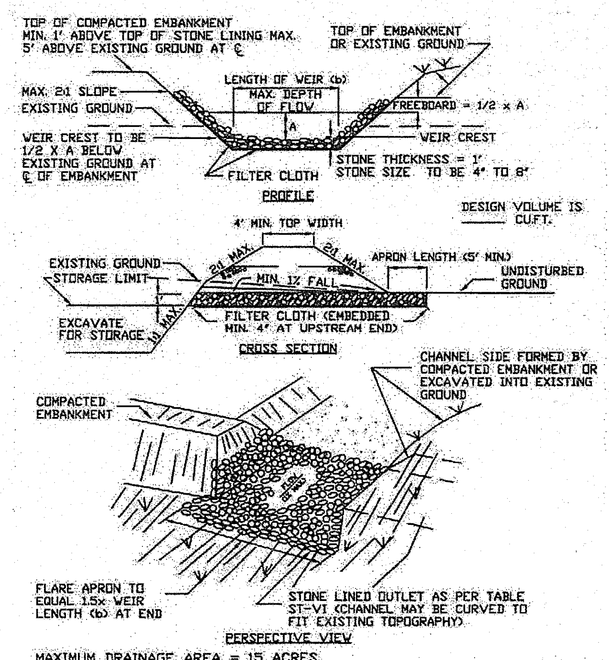


SEDIMENT DIKE

1. AREA UNDER SEDIMENT DIKE SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE STONE USED IN THE DIKE SHALL BE LIGHT RIP-RAP ALONG WITH A 1'-0" THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE RIP-RAP.
3. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 6".
4. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.

A6 RIPRAP OUTLET SEDIMENT TRAP: ST-V CONSTRUCTION SPECS.

N.T.S



MAXIMUM DRAINAGE AREA = 15 ACRES

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

RIPRAP OUTLET SEDIMENT TRAP ST-V

A11 RIPRAP OUTLET SEDIMENT TRAP: ST-V

N.T.S

SUGGESTED EROSION CONTROL CONSTRUCTION SCHEDULE:

1. FLAG THE GRADING LIMITS AND MARK A 10' BUFFER AREA BEYOND THE GRADING LIMITS FOR PROTECTION.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AT APPROXIMATE LOCATION OF DRIVEWAY IF DRIVEWAY STONE HAS NOT YET BEEN PLACED.
3. INSTALL PROTECTIVE MEASURES AROUND TREES TO BE RETAINED WITHIN GRADING LIMITS.
4. INSTALL BRIGHTLY COLORED CONSTRUCTION FENCE ALONG ROAD TO LIMIT VEHICULAR ACCESS TO STONE DRIVEWAY OR CONSTRUCTION ACCESS DRIVE.
5. INSTALL INLET PROTECTION DEVICES AT CATCH BASINS DOWN SLOPE FROM THE SITE