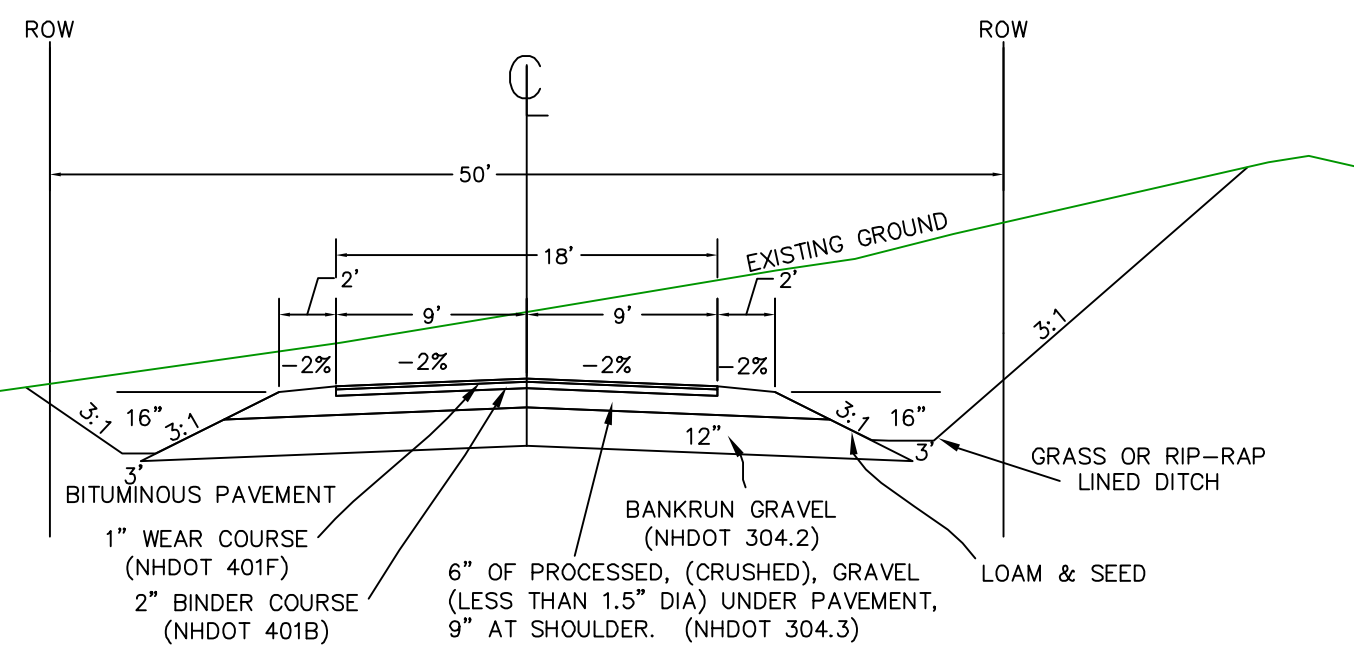
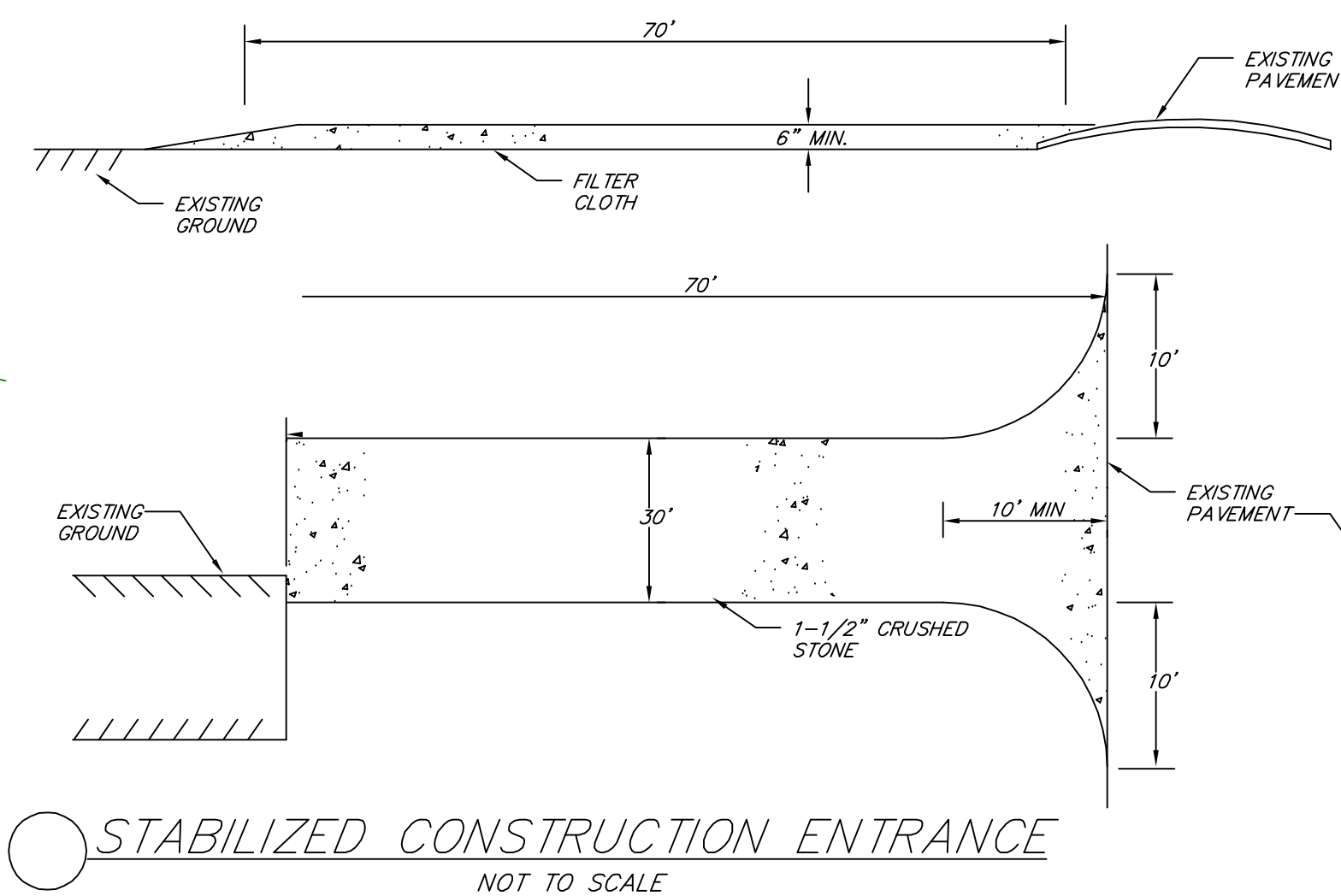


NOTE: THE MINIMUM COMPACTION RATE, (6" LIFTS), SHALL BE NINETY FIVE PER CENT (95%), OPTIMUM, MODIFIED PROCTOR DENSITY. ALL TREES, ROOTS, VEGETATION, HUMUS, OTHER ORGANIC MATERIAL, & STUMPS SHALL BE STRIPPED TO BELOW THE BASE COURSE FOR THE FULL WIDTH OF THE ROADWAY AND SHOULDERS, AND REPLACED WITH SUITABLE FILL MATERIAL. LEDGE AND / OR BOULDERS, SHALL BE REMOVED TO A UNIFORM DEPTH OF NOT LESS THAN TWELVE INCHES (12") BELOW THE SUBGRADE LEVEL SHOWN, AND REPLACED WITH A SUITABLE FILL MATERIAL GRADED AND COMPACTED TO THE SUBGRADE LEVEL. THE TOP LAYER (UPPER 6") SHALL NOT CONSIST OF ANY MATERIALS OTHER THAN PROCESSED GRAVEL WITH AN AGGREGATE SIZE OF LESS THAN ONE & ONE HALF INCHES (1.5"). ANY SUB SURFACE RUNNING WATER SHALL BE EITHER DIVERTED OUTSIDE OF THE OF THE TRAVELED WAY OR CONTAINED TO PREVENT UNDERMINING OF THE ROAD BASE.



TYPICAL CROSS SECTION
NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER SHALL BE DIRECTED AWAY FROM THE ENTRANCE. IF WATER IS FLOWING TOWARD THE ENTRANCE, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE ADDED.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.
8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

MAINTENANCE:

1. MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE GRAVEL AND THE EFFECTIVENESS OF THE GRAVEL PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOPDRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.
2. IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

TEMPORARY SEEDING

*WELL TO MODERATELY WELL DRAINED SOILS
FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

#/ACRE #/1000 S.F.
FOR APRIL 1 - AUGUST 15
ANNUAL RYE GRASS 40 1

FOR FALL SEEDING 112 2.5
WINTER RYE

LIME: AT 1 TON PER ACRE OR 100 LBS PER 1,000 S.F.
FERTILIZER: 10 10 10 (NITROGEN, PHOSPHATE, POTASH) AT 1000# / ACRE
MULCH: HAY OR STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRADING AND SHAPING:
SLOPES SHALL NOT BE STEEPER THAN 2 TO 1. 3 TO 1 OR FLATTER SLOPES ARE PREFERRED.
SEEDBED PREPARATION:
SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED. SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

*FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE AUGUST 1992.

LONG TERM SEEDING

*WELL TO MODERATELY WELL DRAINED SOILS
FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

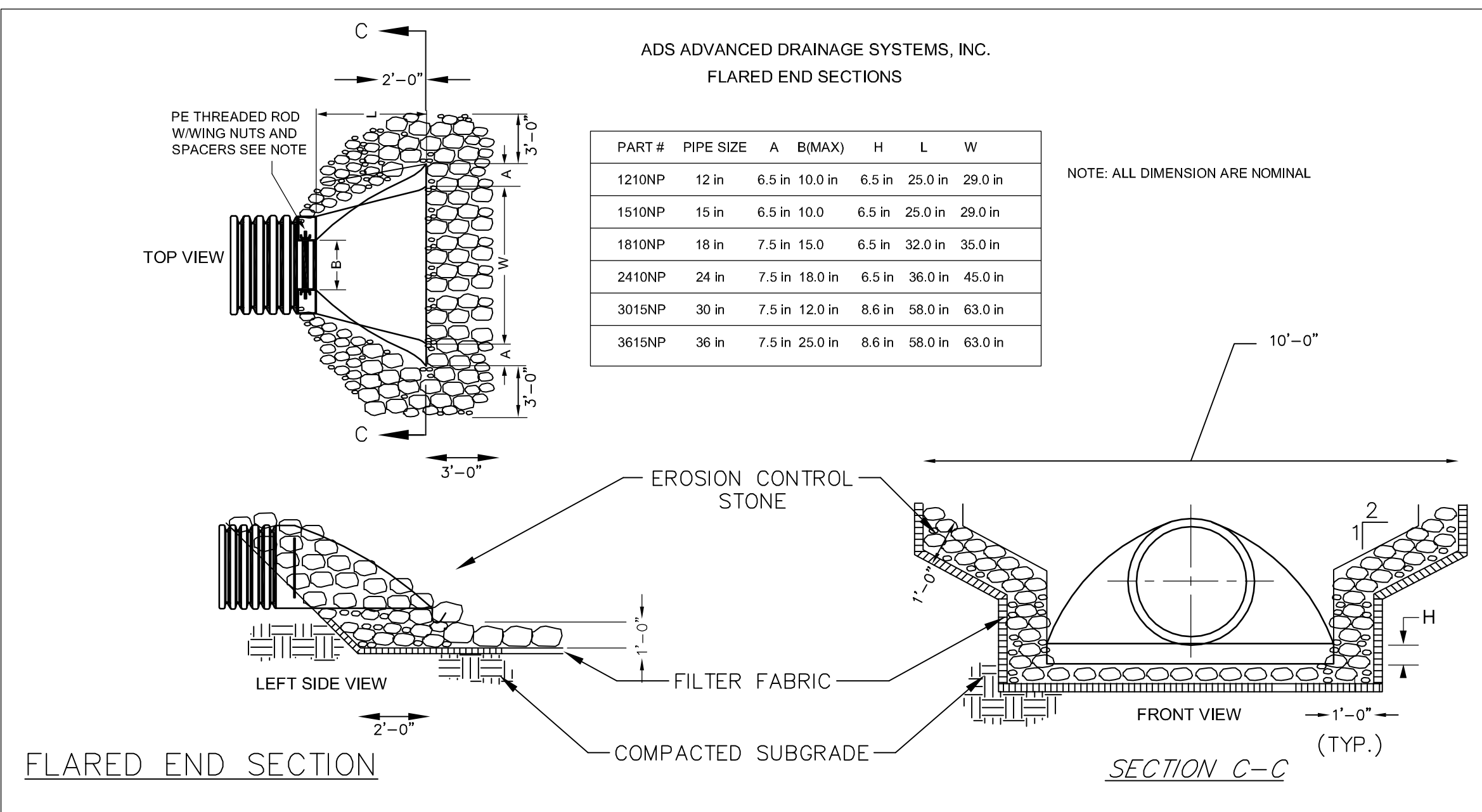
SEEDING MIXTURE C

	#/ACRE	#/1000S.F.
TALL FESCUE:	20	0.45
CREeping RED FESCUE:	20	0.45
BIRDSFOOT TREFOIL:	8	0.20
TOTAL:	48	1.10

LIME:
AT 2 TONS PER ACRE OR 100 LBS PER 1,000 S.F. FERTILIZER: 10 20 20 (NITROGEN, PHOSPHATE, POTASH) AT 500# PER ACRE MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRAING AND SHAPING:
SLOPES SHALL NOT BE STEEPER THAN 2 TO 1. 3 TO 1 OR FLATTER SLOPES ARE PREFERRED.
SEEDBED PREPARATION:
SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED. SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

*FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE AUGUST 1992.

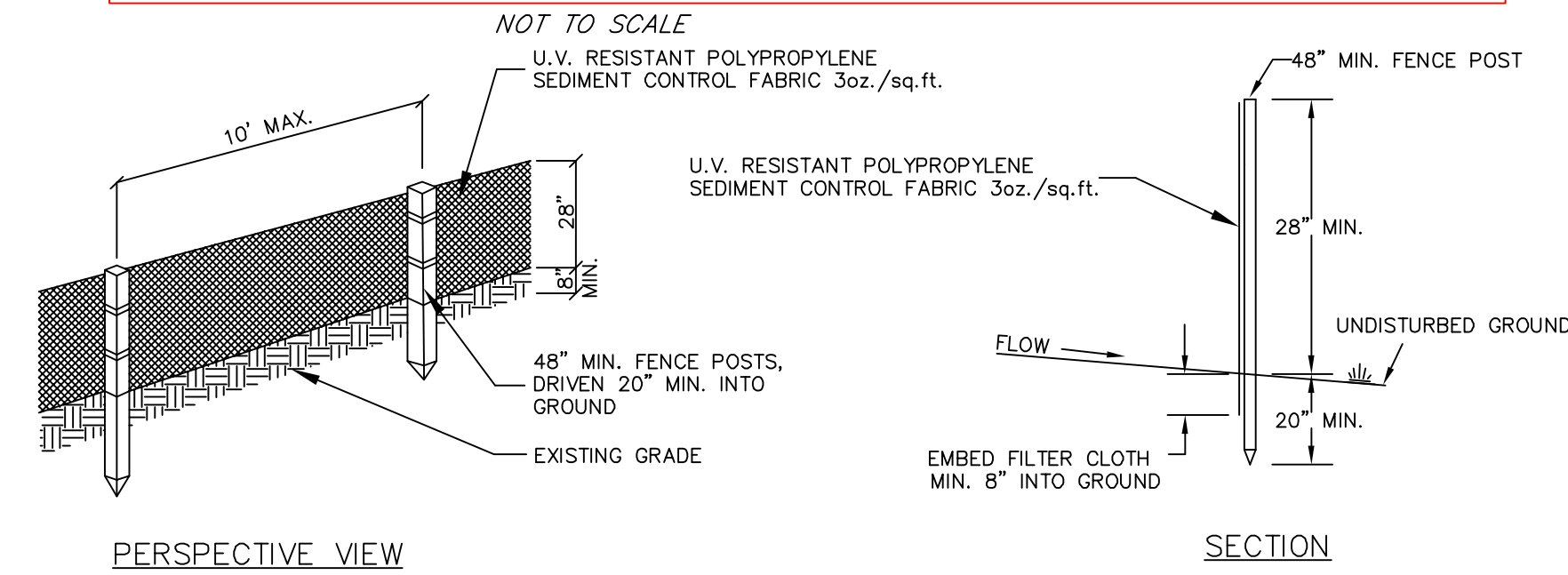


FLARED END SECTION

EROSION AND SEDIMENTATION CONTROL CONSTRUCTION PHASING AND SEQUENCING

- 1- See "Erosion and Sedimentation Control General Notes" which are to be an integral part of this process.
- 2- Install construction entrance, silt fencing and other perimeter control BMP practices as per details and at locations shown on the drawings - prior to earth moving operations. Maintain regularly to prevent sediment migration.
- 3- Clear and grub area. Dispose of debris in appropriate facilities.
- 4- Strip and stockpile topsoil. Stabilize stockpiles of soil construction material by providing silt fencing on downslope sides.
- 5- Construct treatment swales, level spreader(s), and detention structures as depicted on drawings. No drainage will be directed to the structures until they are stabilized. If the pond(s) will be used as sediment basins during construction, they must be cleaned out and re-stabilized using erosion control matting following stabilization of the site.
An area shall be considered stable if one of the following has occurred:
- Base course gravels have been installed in areas to be paved
- A minimum of 85% vegetated growth has been established
- A minimum of 3" of non-erosive material such as stone riprap has been installed or erosion control blankets have been properly installed.
- 6- Rough grade site.
- 7- Install site improvements per the plans and details. Consult the design engineer in the event of any conflicts.
- 8- Install inlet and outlet protection at all storm lines as depicted on plans and details
- 9- Finish grade and compact site.
- 10- Re-spread and add topsoil to all side slopes. Total topsoil thickness to be a minimum of four inches.
- 11- Stabilize all areas of bare soil with mulch (70 to 90 lbs. per 1000 sq. Ft.) And seeding per "general notes".
- 12- Reseed per "long term seeding specifications shown in plans.
- 13- Silt fencing and other temporary erosion control measures are to remain and be maintained for twelve months after construction to insure establishment of adequate soil stabilization and vegetative cover. All silt fencing and trapped silt are then to be removed from the site and properly disposed of.
- 14- Clean site and drainage structures of all silts and debris.
- 15- Lot construction shall not occur until after roadway and other associated drainage is completed and stabilized
- 16- Notify all permitting agencies when construction has finished.

NOTE: AS AN ENVIRONMENTALLY GREEN ALTERNATIVE TO THE USE OF SILT FENCE, SEE EXCERPTS FROM, "BUREAU OF LAND AND WATER QUALITY, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION", MANUAL, "MAINE EROSION AND SEDIMENT CONTROL BMPS", DATED MARCH 2003, INCLUDED AS ATTACHMENT #1 TO THIS PLAN.



NOTES 1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR BEST MANAGEMENT PRACTICE FOR SILT FENCES, OF THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE" PREPARED BY ROCKINGHAM COUNTY CONSERVATION DISTRICT, DATED AUGUST 1992.
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND 6. REMOVE BY HAND AND PROPERLY DISPOSE OF ALL SEDIMENT PRIOR TO REMOVING FENCE. AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
4. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 20 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY. HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ IN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

SILT FENCE
NOT TO SCALE

EROSION AND SEDIMENTATION CONTROL GENERAL NOTES

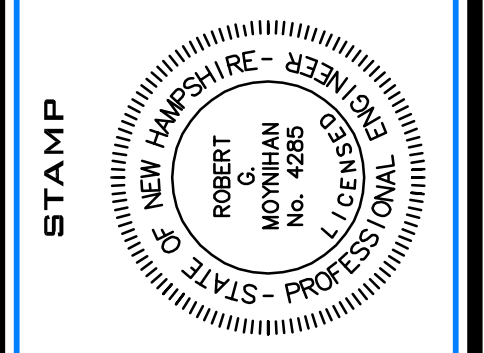
1. CONDUCT ALL CONSTRUCTION IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE PHYSICAL ENVIRONMENT. ALL DITCHES, SWALES AND PONDS MUST BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
2. ALL GROUND AREAS OPENED UP FOR CONSTRUCTION WILL BE RE-GRADED, LOAMED, SEEDED AND MULCHED IN THE SHORTEST PRACTICAL TIME. NO AREA MAY BE DISTURBED AND LEFT UN-STABILIZED FOR MORE THAN THIRTY DAYS. NO AREA IN EXCESS OF 5 ACRES SHALL BE EXPOSED AT ANY ONE TIME. ALL SOILS FINISH GRADED MUST BE STABILIZED WITHIN SEVENTY-TWO HOURS OF DISTURBANCE. ALL TEMPORARY OR LONG TERM SEEDING MUST BE APPLIED PRIOR TO OCTOBER 1ST. EMPLOY TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AS DETAILED ON THIS PLAN AS NECESSARY UNTIL ADEQUATE STABILIZATION HAS BEEN ASSURED. TEMPORARY SEEDING: SEE "TEMPORARY SEEDING SPECIFICATIONS" IN PLANS. LONG TERM SEEDING: SEE "LONG TERM SEEDING SPECIFICATIONS" IN PLANS. FOR EARTH MOVING OPERATIONS THAT OCCUR AFTER OCTOBER 1ST, MATTING (NAG S75 EROSION CONTROL BLANKET OR EQUAL) AND SEEDING PER TEMPORARY SEEDING SPECIFICATIONS, OR OTHER STABILIZATION WILL BE REQUIRED FOR DISTURBED AREAS DURING WINTER MONTHS.
3. STRAW OR HAY BALE BARRIERS AND SILTATION FENCING TO BE SECURELY EMBEDDED AND STAKED AS DETAILED. WHEREVER POSSIBLE A VEGETATED STRIP OF AT LEAST TWENTY-FIVE FEET IS TO BE KEPT BETWEEN SILT FENCE AND ANY EDGE OF WET AREA.
4. SEEDED AREAS WILL BE FERTILIZED AND RESEED AS NECESSARY TO ENSURE VEGETATIVE ESTABLISHMENT.
5. SEDIMENT BASIN(S), IF REQUIRED, TO BE CHECKED AFTER EACH SIGNIFICANT RAINFALL AND CLEANED AS NEEDED TO RETAIN DESIGN CAPACITY.
6. STRAW BALE AND/OR SILT FENCE BARRIERS WILL BE CHECKED REGULARLY AND AFTER EACH SIGNIFICANT RAINFALL. NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER AS WELL AS CLEANING, REMOVAL AND PROPER DISPOSAL OF TRAPPED SEDIMENT.
7. TREATMENT SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATIVE COVER HAS BEEN ESTABLISHED.
8. ALL EROSION AND SEDIMENTATION CONTROL MEASURES IN THE PLAN SHALL MEET THE DESIGN STANDARDS AND SPECIFICATIONS SET FORTH IN THE STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE (AUGUST 1992 OR LATEST) PREPARED BY ROCKINGHAM COUNTY CONSERVATION DISTRICT, N.H. DES AND NRCS.
9. PROVIDE SILT FENCING ON THE DOWN SLOPE SIDES OF EARTH STOCKPILES.
10. A LOG/JOURNAL IS TO BE KEPT DOCUMENTING THE REGULAR INSPECTION AND MAINTENANCE OF THE EROSION AND SEDIMENTATION CONTROL PRACTICES REQUIRED ON THE SITE. NOTIFICATION OF INTENT (NOI) TO THE US EPA (STORMWATER NOTICE PROCESSING CENTER FOR A NPDES PHASE II STORMWATER PERMIT IS REQUIRED BY SITE OPERATOR AND OWNER AT LEAST SEVEN DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY DISTURBING 1 ACRE OR MORE OF LAND. A COPY OF THE NOI WILL BE POSTED AT THE FOLLOWING SITE: <http://cfpub.epa.gov/npdes/stormwater/loi/noisearch.cfm>

CONSTRUCTION NOTES:

1. EROSION CONTROL AND WETLANDS PROTECTION MEASURES SHALL BE USED IN ACCORDANCE WITH NRCS STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE (LATEST EDITION) FOR THE DURATION OF THE PROJECT.
2. EXISTING UTILITIES- ALL INFORMATION ON AND LOCATION OF, EXISTING UTILITIES ARE APPROXIMATE AND BASED ON FIELD INFORMATION AND AVAILABLE PLANS. EXACT LOCATIONS AND DEPTHS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR IS REQUIRED UNDER NEW HAMPSHIRE LAW TO CONTACT "DIG-SAFE" AT 1-800-225-4977, 72 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE "DIG-SAFE" LOCATIONS THROUGHOUT THE DURATION OF THE PROJECT.
4. THE CONTRACTOR SHALL BEAR THE COST TO REPAIR ANY UTILITIES DAMAGED DURING THE COURSE OF THE WORK.
5. ALL EARTHWORK ACTIVITIES SHALL CONFORM TO THE PRACTICES OUTLINED IN THE USDA NATURAL RESOURCE CONSERVATION SERVICE, STORMWATER MANAGEMENT & EROSION & SEDIMENT CONTROL DESIGN HANDBOOK.
6. GRASS AREAS SHALL BE LOAMED (4"), SEEDED (48 lbs. PER ACRE, SCS MIXTURE "A"), LIMED (2 TON PER ACRE), FERTILIZE WITH 10-20-20, (500 lbs. PER ACRE) AND MULCHED (1.5 TONS PER ACRE). ALL TEMPORARY LOAM STOCKPILES SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES. TEMPORARY HAYBALE BARRIERS SHALL BE INSTALLED DOWN SLOPE OF ALL DISTURBED AREA AND SHALL BE EMBEDDED AND ANCHORED IN ACCORDANCE WITH SCS
7. ALL MATERIAL & CONSTRUCTION METHODS SHALL CONFORM TO THE STATE OF NEW HAMPSHIRE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION. FILL UNDER PAVED AREAS SHALL BE COMPACTED IN 6" LIFTS TO 95% OPTIMUM DENSITY, AND SHALL BE FREE OF ORGANIC MATERIALS. BANK RUN GRAVEL (NH DOT ITEM # 304.2) SHALL BE 100% PASSING THE 6" SIEVE. CRUSHED GRAVEL (NH DOT ITEM # 304.3) SHALL BE 100% PASSING THE 1-1/2" SIEVE. PAVEMENT SHALL CONSIST OF A 2" BASE LAYER (225 lbs/SQ. YD.) WITH 3/4" DIA. TYPE B (NH DOT ITEM # 403.11) HOT BITUMINOUS CONCRETE AND A 1" WEARING LAYER (115 lbs/sq. YD.) WITH 1/2" DIA. TYPE E (NH DOT ITEM # 403.11) HOT BITUMINOUS CONCRETE.
8. REGULATION REQUIREMENTS OF THE TOWN OF FARMINGTON, N.H. SHALL BE ADHERED TO.
9. ALL LOAM AND ORGANIC MATERIAL SHALL BE REMOVED FROM THE ROAD BED BENEATH THE BASE MATERIALS AND REPLACED WITH SUITABLE FILL. ALL BOULDERS AND LEDGE SHALL BE REMOVED TO A UNIFORM CROSS SECTION DEPTH OF NOT LESS THAN 12 INCHES BELOW THE SUBGRADE AND REPLACED WITH SAND OR GRAVEL.
10. PER THE TOWN OF FARMINGTON REGULATIONS, ALL ROADS WILL BE CONSTRUCTED UNDER SUPERVISION OF AN INDEPENDENT ENGINEERING FIRM. ALL MATERIALS WILL BE TESTED TO ASSURE THEY MEET THE STATE STANDARDS.

NOTES & DETAILS
TAX MAP R15, LOT 6
CHESTNUT HILL ROAD
FARMINGTON, STRAFFORD COUNTY
NEW HAMPSHIRE
PREPARED FOR
THOMAS E. & MICHELLE P. HUCKINS

R. G. Moynihan
CIVIL ENGINEER AND SURVEYOR
18 CAPTAIN PARKER DRIVE
LEE, N.H. 03824
(603) 659-2596
PLAN # 1139
JUNE 5, 2009
060409 REV 1 - ADD SILT FENCE ALTERNATIVE NOTE



Geometres Blue Hills, LLC
NO. BOX 277
HARRINGTON ROAD
FARMINGTON, NH 03825-0277
603-659-2367
LAND SURVEYING
LAND USE CONSULTING
SEPTIC SYSTEM DESIGN
ENVIRONMENTAL CONSULTING