GENERAL EROSION CONTROL NOTES

SITE PREPARATION

1) ALL NECESSARY AND REQUIRED EROSION CONTROL WILL NEED TO BE INSTALLED AND IN PLACE PRIOR TO ANY CLEARING AND GRUBBING.

2) ONCE THE TEMPORARY EROSION CONTROL MEASURES, AS DESCRIBED ON THE PLAN AND AS REQUIRED IN THE FIELD, ARE IN PLACE; GRUBBING, GRADING AND EARTHWORK MAY BEGIN IN PHASES. EACH PHASE, FROM THE BEGINNING OF CLEARING TO FINAL STABILIZATION OF SEEDING AND MULCHING, SHOULD BE ACCOMPLISHED WITHIN A REASONABLE PERIOD OF TIME, USUALLY TWO WEEKS.

3) ALL BLASTING WILL BE COMPLETED UNDER BLAST MATS OR EARTH OVERBURDEN IN ORDER TO PREVENT UNCONTROLLED EJECTION OF ROCK FRAGMENTS. BLASTING SHALL ALSO CONFORM TO ALL STATE AND FEDERAL STANDARDS.

4) SLOPES WILL BE BROUGHT TO FINAL GRADE AS RAPIDLY AS POSSIBLE. AT THE END OF EACH DAY'S OPERATION, THE SEGMENT OF THE SLOPE UNDER CONSTRUCTION WILL EITHER BE SEEDED AND MULCHED UPON COMPLETION OF FINAL GRADE, OR ALL EROSION CONTROL MEASURES INSPECTED TO INSURE THAT THEY WOULD FUNCTION PROPERLY IN THE EVENT OF A RAIN DURING THE NON-WORKING PERIODS.

THE BASIS OF DESIGN TO ENSURE A MINIMUM OF SOIL EROSION DURING CONSTRUCTION IS AS FOLLOWS:

1) TEMPORARY EROSION CONTROL

ALL FINISH GRADED AREAS SHALL BE MULCHED AND SEEDED EXPEDITIOUSLY AS SOON AS THEY ARE SO GRADED. IT SHOULD BE POSSIBLE TO PLACE SEED AND MULCH WITHIN ONE WEEK OF FINISH GRADING.

PROBLEM AREAS SUCH AS WET SITE AND INTERMITTENT WATER COURSES WILL BE GIVEN PRELIMINARY SEED AND MULCH COATS PRIOR TO FINAL PLANTING AS AN EXTRA PRECAUTION.

TOP SOIL STOCKPILED FOR FUTURE USE IS TO BE PROTECTED FROM EROSION. IF TOPSOIL IS TO BE STOCKPILED, IT SHALL ONLY BE DONE OUTSIDE ANY DRAINAGE WAYS OR WATER COURSES. A SWALE NOT LESS THAN TWELVE INCHES DEEP SHALL BE CONSTRUCTED AROUND THE PERIMETER OF THE STOCKPILE. IF THE STOCKPILE IS TO REMAIN IN POSITION FOR MORE THAN ONE MONTH, IT WILL BE SEEDED AND MULCHED.

2) SITE AND ROADWAY

THE ROADWAY CROSS-SECTION HAS BEEN DESIGNED SO THAT NO CUT OR FILL SLOPES WILL EXCEED TWO FOOT HORIZONTAL IN ONE FOOT VERTICAL (2:1), EXCEPT IN LEDGE CUTS WHICH ARE 1:3. IN AREAS WHERE SOILS MAY BE SATURATED BY SEASONAL OR PERMANENT WATER TABLES, IT MAY BE NECESSARY TO PROVIDE ARTIFICIAL SLOPE STABILIZATION BY UNDERDRAIN MEASURES TAKEN AS THEY ARE UNCOVERED DURING CONSTRUCTION. WHERE SATURATED SOILS ARE OBVIOUS WITHOUT EXPLORATION, CUT SECTIONS HAVE BEEN AVOIDED IN AS MUCH AS IS PRACTICAL.

3) CLEARING AND GRUBBING

STUMPS ARE TO BE CHIPPED IN PLACE AND ALLOWED TO DECOMPOSE, PLACED IN NON STRUCTURAL FILL SECTIONS OR SHALL BE REMOVED TO AN APPROVED STUMP DUMP.

4) SEEDING AND MULCHING

ALL AREAS WHERE THE NATURAL GROUND SURFACE HAS BEEN DISTURBED AND NATURAL VEGETATION REMOVED OR DESTROYED ARE TO BE SEEDED, FERTILIZED AND MULCHED WITHIN THE WORK PERIOD SPECIFIED TO AVOID SOIL DISPLACEMENT BY EROSION BOTH DURING AND AFTER CONSTRUCTION, UNLESS OTHERWISE SPECIFIED IN THE LANDSCAPE PLAN. STANDARD SOIL CONSERVATION SEED MIX IS TO BE APPLIED AT A RATE OF 60 LBS. PER ACRE (TALL FESCUE - 24 LBS., RED FESCUE - 20 LBS., RED TOP - 2 LBS., AND BIRDSFOOT TREFOIL - 4 LBS.). 10-10-10 FERTILIZER IS TO BE WORKED INTO THE TOP 3 OR 4 INCHES OF SOIL (HYDRAULIC APPLICATION PREFERRED) AT A RATE OF 1,000 LBS. PER ACRE. MULCH CONSISTING OF RIPE SEED CARRYING HAY SHALL BE APPLIED OVER SEEDED AND FERTILIZED AREAS AT A RATE OF 2 TONS PER ACRE. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A STRONG VEGETATIVE GROWTH IN ALL DISTURBED. GRASS AREAS.

5) EROSION CONTROL DURING BUILDING CONSTRUCTION

ALL PLACES WHERE NATURAL VEGETATION IS REMOVED OR DESTROYED DURING CONSTRUCTION WILL BE SEEDED AND MULCHED SO AS TO PREVENT DISPLACEMENT OF SOIL BY EROSION. WORK TO BE PERFORMED IN THESE PHASES OF CONSTRUCTION WILL BE SCHEDULED IN SUCH A WAY TO INSURE EROSION WILL BE EFFECTIVELY CONTROLLED.

IN CASES OF PROLONGED INCLEMENT WEATHER LEADING TO RUNOFF, EXPOSURE OF NEW SOIL WILL BE TEMPORARILY HALTED; AND ANY AREAS WHERE SOIL DISPLACEMENT BY EROSION IS OCCURRING WILL BE PROTECTED BY METHODS SUCH AS MULCHING, HAY BALES, DIVERSION DITCHES, ETC.

6) COMMENCEMENT AND COMPLETION

ALL WORK INVOLVING EARTHWORK, LANDSCAPING OR ANY OTHER DISTURBANCES OF THE GROUND SURFACE RESULTING IN THE REMOVAL OR DESTRUCTION OF NATURAL GROUND COVER SHALL NOT BE COMMENCED UNTIL APRIL 1 AND ALL AREAS SO DISTURBED SHALL BE FINISH GRADED, SEEDED AND MULCHED OR TEMPORARILY SEEDED AND MULCHED PRIOR TO NOVEMBER 15. SHOULD THERE BE A NEED TO EXTEND BEYOND THIS DATE, EXTRAORDINARY EROSION CONTROL MEASURES WILL BE INSTITUTED, SUBJECT TO THE REVIEW AND APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND OTHER APPLICABLE PERMITTING AGENCIES. PROCESSES SUCH AS THE PLACEMENT OF GRAVEL, PAVING, PLACEMENT OF STONE FILL, CONSTRUCTION OF HEADWALLS, ETC., MAY BE ACCOMPLISHED OUTSIDE OF THESE INCLUSIVE DATES.

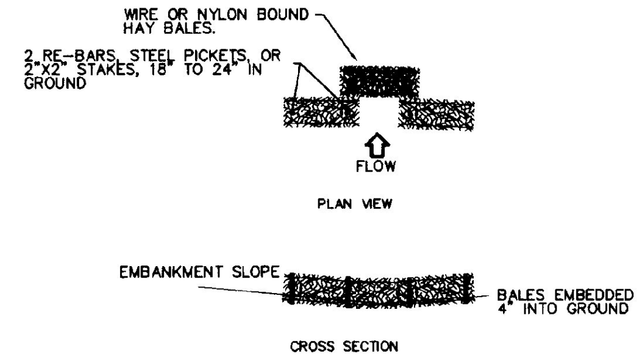
7) DUST CONTROL

CALCIUM CHLORIDE OR WATER WILL BE USED AS NEEDED TO CONTROL DUST.

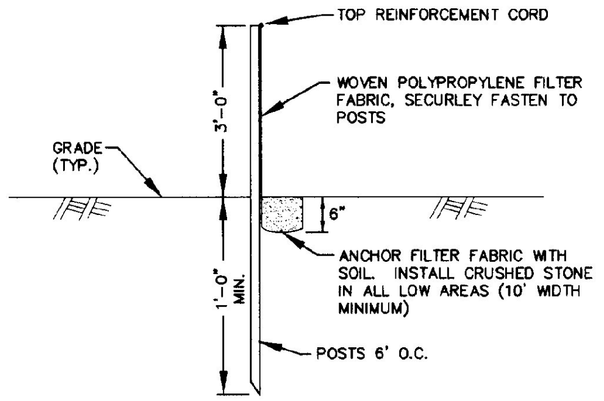
AT THE END OF EACH DAY OR PRIOR TO CONSTRUCTION SHUTDOWNS FOR WEEKENDS OR FOR LONG PERIODS, ALL EROSION CONTROL MEASURES WILL BE INSPECTED AND WHATEVER MAINTENANCE THAT WOULD BE REQUIRED, BE PERFORMED IN ORDER TO ENSURE THAT THE ENTIRE EROSION CONTROL SYSTEM WOULD FUNCTION PROPERLY DURING A RAINFALL EVENT.

IN THE EVENT THAT AN UNUSUAL RAINFALL EVENT OCCURS DURING NON-WORKING HOURS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT THE EROSION CONTROL MEASURES (WHILE IT IS RAINING) AND TAKE WHATEVER MEASURES THAT ARE NECESSARY WHERE EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY.

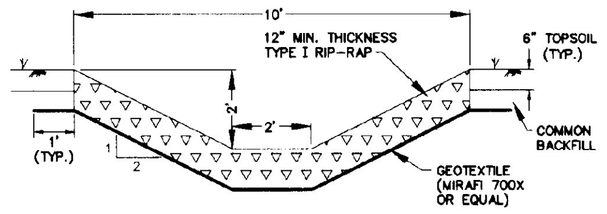
THE VERMONT HANDBOOK OF SOIL EROSION AND SEDIMENT CONTROL ON CONSTRUCTION SITES (1982) HAS SERVED AS A GUIDE IN THE DESIGN OF THIS PROJECT.



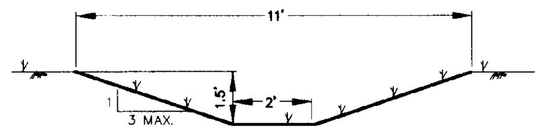
HAY BALE DIKE
N.T.S.



SILT FENCE DETAIL
N.T.S.



STONE LINED DITCH
(AS NOTED AND ON ROAD DITCHES > 5%)



GRASS LINED DITCH

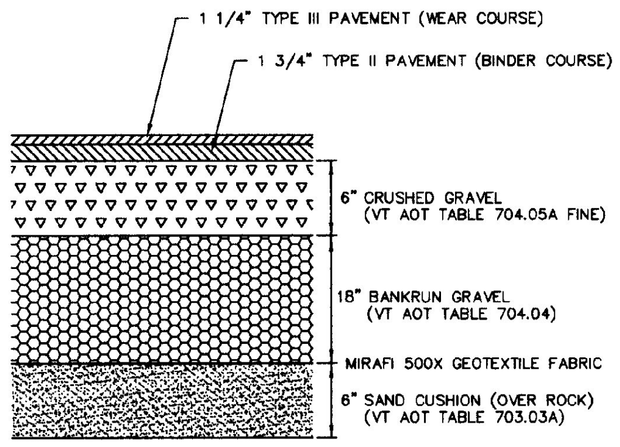
STONE FOR RIP-RAP

STONE FOR RIP-RAP SHALL BE APPROVED, HARD, BLASTED ANGULAR ROCK OTHER THAN SERPENTINE ROCK CONTAINING THE FIBROUS VARIETY CHRYSOTILE (ASBESTOS). THE LEAST DIMENSION OF THE STONE SHALL BE GREATER THAN 1/3 OF THE LONGEST DIMENSION. THE STONE FILL SHALL BE REASONABLY WELL GRADED FROM THE SMALLEST TO THE MAXIMUM SIZE STONE SPECIFIED SO AS TO FORM A COMPACT MASS WHEN IN PLACE.

(A) TYPE I. THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM 1 INCH TO 12 INCHES, AND AT LEAST 50 PERCENT OF THE VOLUME SHALL HAVE A LEAST DIMENSION OF 4 INCHES.

(B) TYPE II. THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM 2 INCH TO 36 INCHES, AND AT LEAST 50 PERCENT OF THE VOLUME SHALL HAVE A LEAST DIMENSION OF 12 INCHES.

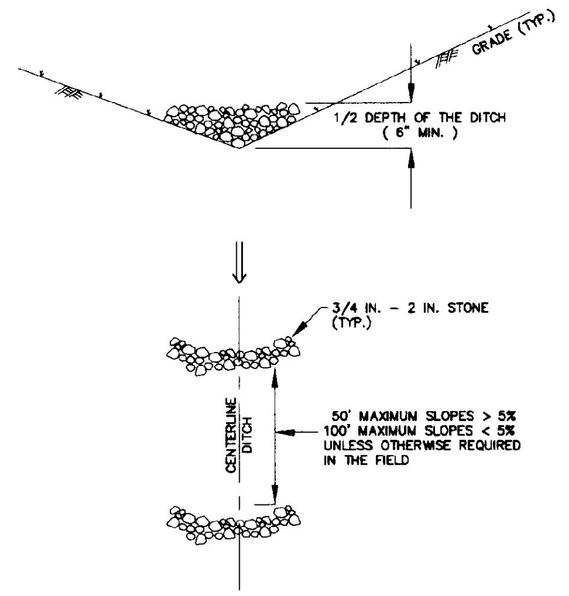
TYPICAL DRAINAGE DITCH SECTIONS
N.T.S.



NOTE:

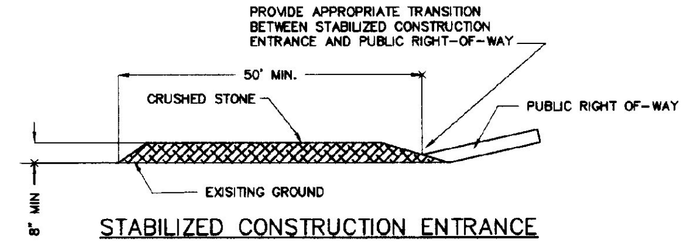
ALL GRAVEL AND SUBGRADE TO BE PLACED IN 6" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR

TYPICAL PAVEMENT
N.T.S.



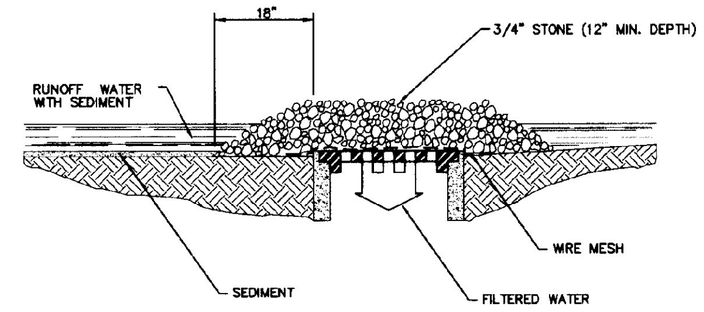
STONE CHECK DAMS
N.T.S.

NOTE: REQUIRED AT DRIVE UNTIL SITE PAVING IS COMPLETE.

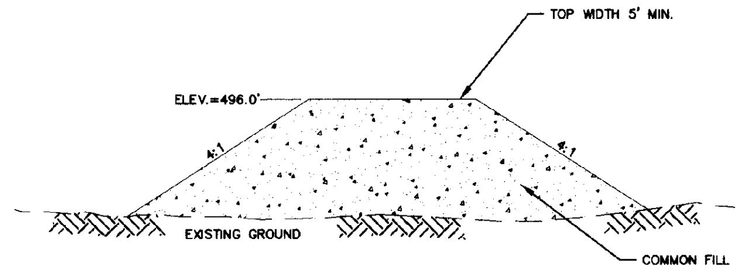


STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

NOTES:
1) THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING, WASHING, OR FLOWING OF SEDIMENT INTO PUBLIC RIGHT-OF-WAY.
2) ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.



STONE CHECK DAM AT CATCH BASIN INLET
N.T.S.



DETENTION POND BERM SECTION
N.T.S.

NOTES:
1) COMMON FILL SHALL MEET THE VAOT SPECIFICATIONS FOR THIS MATERIAL. FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR.
2) FILL SHALL BE COVERED WITH 2" LOAM (UNLESS COMMON FILL HAS SUFFICIENT ORGANIC CONTENT TO SUPPORT GROWTH), LIMED, FERTILIZED, SEEDED AND MULCHED.

SCALE: AS NOTED

NO	REVISIONS		DATE
1.	PERMIT PLANS	MFD	2/28/97
2.	CONSTRUCTION PLANS	MFD	7/2/97
3.	CONSTRUCTION PLANS II	MFD	7/9/97

MISCELLANEOUS DETAILS
FOR
VERMONT AOT MAINTENANCE GARAGE
IN
BRANDON, VERMONT

BRUNO ASSOCIATES INC. P.C.
ENGINEERS, PLANNERS, SURVEYORS
PO BOX 387, THE MILL BUILDING
WOODSTOCK, VERMONT 05091
PHONE: (802) 457-3560 FAX: (802) 457-4853

FOR CONSTRUCTION

SURVEYED: N/A
DESIGNED: ESC
DRAWN: MFD, ESC
CHECKED: JWB
DATE: 1/09/97

VERMONT AOT

MISCELLANEOUS DETAILS

C6
7 OF 23

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BRUNO ASSOCIATES INC., P.C.

FILE: C:\JOBS\BRANDON\97-41\AOTDET

PROJECT: 970041 VAOT SHED

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