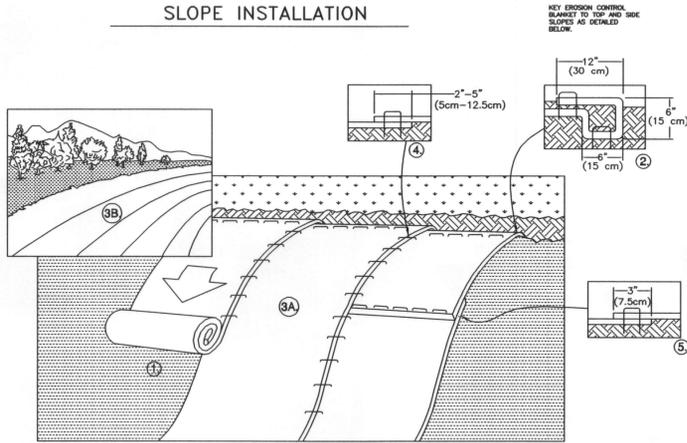


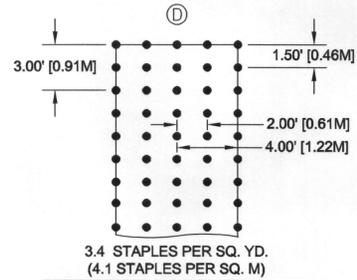


SLOPE INSTALLATION



- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
 - CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
- NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

**STAPLE PATTERN GUIDE
8' (2.4 M) WIDE ROLLS**



SLOPE/UPLAND SEED DATA

2009 New England Erosion Control/Restoration Mix For Dry Sites

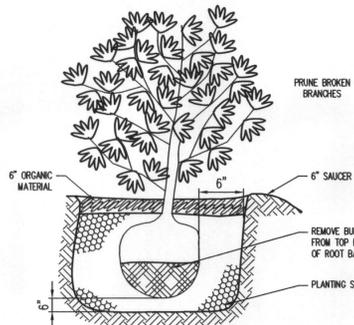
Botanical Name	Common Name	Ind.
Agrostis perennans	Upland Bentgrass	FACU
Agrostis scabra	Rough Bentgrass/Ticklegrass	FAC
Bouteloua gracilis	Blue Grama	FACU+
Elymus canadensis	Canada Wild Rye	FACU
Festuca rubra	Creeping Red Fescue	FACU
Lolium multiflorum	Annual Ryegrass (naturalized)	
Lolium perenne	Perennial Ryegrass (naturalized)	
Schizachyrium scoparium	Little Bluestem	FACU
Sorghastrum nutans	Indian Grass	UPL

Application Rate: 35 lbs/acre

SEEDING NOTES:

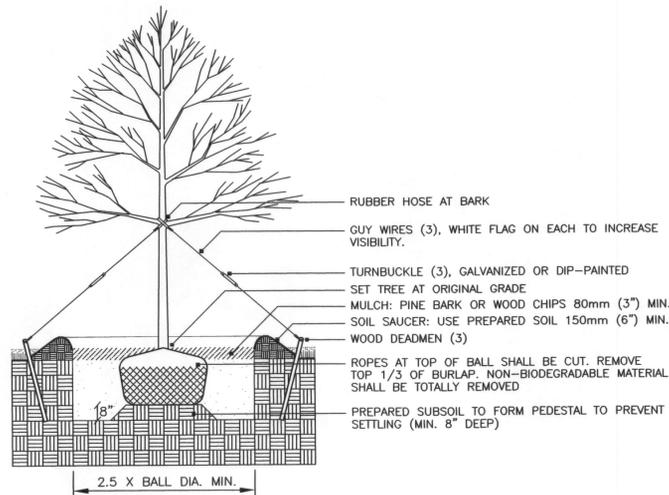
The New England Erosion Control/Restoration Mix for dry sites provides an appropriate selection of native and non-native grasses to ensure that dry, recently disturbed sites will be quickly revegetated and the soil surface stabilized. It is an appropriate seed mix for road cuts, pipelines, detention basin side slopes, and areas requiring temporary cover during the ecological restoration process.

Seeding: The mix may be applied by hydro seeding, by mechanical spreader, or on small sites it may be spread by hand. When applying on bare soil, rake the soil to create grooves, apply seed, then lightly rake over. This mix may be applied at any time of the year. A light mulching of weed free straw to conserve moisture and to aid in slope stabilization and fertilization with 10-10-10 is recommended.



SHRUB DETAIL

NOT TO SCALE



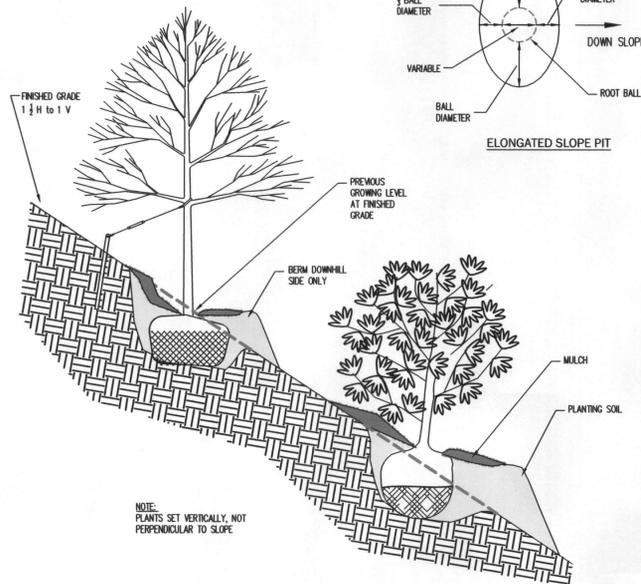
TREE PLANTING DETAIL

NOT TO SCALE

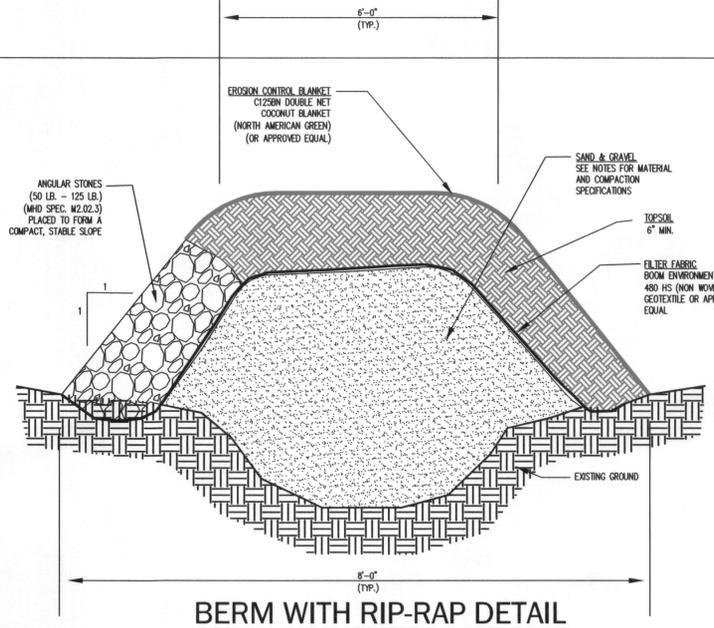
PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
TREES				
Ar	Acer rubrum	Red Maple	2 1/1 - 3" cal.	B&B
Ps	Pinus strobus	White Pine	7' - 8'	B&B
Oa	Quercus alba	White Oak	2 1/1 - 3" cal.	B&B
SHRUBS				
Al	Amelanchier laevis	Allegheny Serviceberry	3' - 4'	container
Ca	Corylus americana	American Filbert	4' - 5'	container
Gb	Gaylussacia baccata	Black Huckleberry	2' - 3'	container
Hv	Hamamelis virginiana	Common Witchhazel	3' - 4'	container
Vc	Vaccinium corymbosum "Blue Crop"	Blue Crop Highbush Blueberry	3' - 4'	container

NOTE:
PLANTS SET VERTICALLY, NOT PERPENDICULAR TO SLOPE

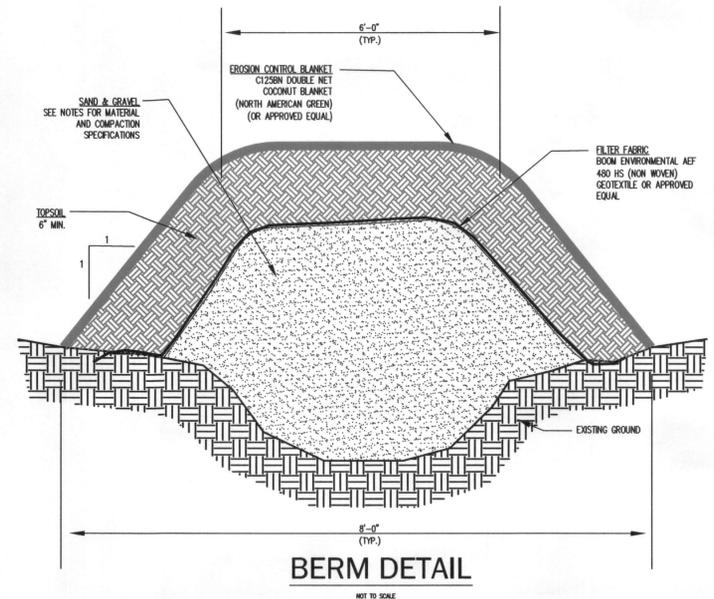


STEEP SLOPE TREE PLANTING DETAIL



BERM WITH RIP-RAP DETAIL

NOT TO SCALE



BERM DETAIL

NOT TO SCALE

PREPARED FOR:
**FTN LIMITED PARTNERSHIP
#48 OLD POWDER MILL RD.
CONCORD, MASSACHUSETTS**

BEALS ASSOCIATES INC.

2 THIRTEENTH STREET CHARLESTOWN, MA 02129
PHONE: 617-242-1120 FAX: 617-242-1190

REFERENCES:

PROPERTY LINE INFORMATION TAKEN FROM THE 'ALTA/ACSM LAND TITLE SURVEY' PLAN PREPARED BY PRECISION LAND SURVEYING, INC., DATED JULY 2007.

TOPOGRAPHICAL INFORMATION TAKEN FROM AERIAL PHOTOGRAPHS BY COL-EAST, INC. DATED NOVEMBER 1, 2006.

TOPOGRAPHICAL INFORMATION NEAR ASSABET RIVER TAKEN FROM CONCORD GIS DEPARTMENT MAY 2008 (NAD83 NAVD88).

DETAILED TOPOGRAPHIC INFORMATION OF SLOPE FAILURE AREA IS THE RESULT OF AN ON-THE GROUND SURVEY PERFORMED BY PRECISION LAND SURVEY IN NOVEMBER OF 2008.

DIG SAFE NOTE

IN ACCORDANCE WITH MGL CH 82, SECTION 40, INCLUDING AMENDMENTS, ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES, IN WRITING, OF THE INTENT TO EXCAVATE, NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS & HOLIDAYS) OR CALL "DIG SAFE" AT 1-800-322-4844.

UTILITY NOTE:

ALL UTILITY LOCATIONS SHOWN ARE EITHER THE RESULT OF ON-THE GROUND SURVEY OR EXISTING RECORD PLANS AVAILABLE. THE DRAIN MANHOLE DEPICTED ON THE EAST SIDE OF THE WORK AREA, AT THE TOP OF THE SLOPE, IS SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL LOCATE THIS STRUCTURE IN THE FIELD. THE DESIGN ENGINEER SHALL CONFIRM THAT THE DRAINAGE SYSTEM IS FUNCTIONING, AS SHOWN.



NO.	REVISION/ISSUE	DATE
5	PER DEP SITE WALK	06/16/2009
4	PER DEP SITE WALK	06/12/2009
3	PER CMA AND NRC COMMENTS	04/30/2009
2	PER CMA AND NRC COMMENTS	04/15/2009
1	MODIFY STABILIZATION DESIGN	04/10/2009

SITE DETAILS

**PLAN TO ACCOMPANY NOTICE OF INTENT
FOR #48 OLD POWDER MILL ROAD
CONCORD, MASSACHUSETTS
AND
40 SUDBURY ROAD
ACTON, MASSACHUSETTS**

PROJECT	DESIGN	SHEET
C-472.07	TML	
DATE DECEMBER 19, 2008	CHECKED TML	3 OF 5
SCALE NONE	REVISED TJM	