



- BIO-RETENTION CELL NOTES:**
- SEE NOTE 3 UNDER LANDSCAPE/PLANTING NOTES FOR MULCH SPECIFICATION.
  - THE SOIL FILTER MEDIA SHALL CONSIST OF THE FOLLOWING COMPOSITION BY VOLUME:
    - 50% SAND
    - 20%-30% SHREDDED BARK MULCH
    - 20%-30% TOPSOIL
  - A. THE SAND PORTION SHALL MEET THE MDT 703.01 SPECIFICATION:
 

SIZE	% PASSING
3/8"	100
NO. 4	95-100
NO. 8	80-100
NO. 16	50-85
NO. 30	25-60
NO. 50	5-30
NO. 100	0-10
NO. 200	0-5
  - B. THE SHREDDED BARK MULCH PORTION SHALL NOT CONTAIN ANY LEAF COMPOST AND WILL BE SUPER HUMUS OR AN APPROVED EQUAL.
  - C. THE TOPSOIL PORTION SHALL MEET THE USDA TEXTURAL CLASSIFICATION OF LOAMY SAND OR SANDY LOAM.
  - D. A SIEVE ANALYSIS WILL BE REQUIRED ON THE RESULTANT SOIL FILTER MEDIA BLEND, ALONG WITH PH AND % ORGANIC MATTER TEST.
  - E. WHEN PLACING AND SHAPING THE SOIL FILTER MEDIA, MECHANICAL COMPACTION SHALL BE AVOIDED.
  - F. THE GRANULAR MATERIAL LAYER SHALL MEET THE MDT 703.22, UNDERDRAIN BACKFILL - TYPE B SPECIFICATION.
  - G. CRUSHED STONE LAYER SHALL MEET THE MDT 703.31 SPECIFICATION.
- GENERAL NOTES:**
- TOPOGRAPHIC SURVEY PERFORMED BY OEST ASSOCIATES INC., APRIL, 1994, SEPTEMBER 2002 AND MARCH OF 2005. ELEVATIONS ARE BASED ON NGVD 1929 MEAN SEA LEVEL.
  - EXISTING UTILITIES SHOWN ON THE PROJECT DRAWINGS ARE LOCATED APPROXIMATELY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. UTILITY LOCATIONS ARE BASED ON PHYSICAL LOCATIONS AND/OR MAPS FROM RESPECTIVE UTILITY COMPANIES OR OWNER. THESE UTILITY LOCATIONS ARE PROVIDED FOR REFERENCE TO THE CONTRACTOR. NO GUARANTEE IS MADE THAT UTILITIES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD WITH THE OWNER PRIOR TO CONSTRUCTION AND BE COMPLETELY RESPONSIBLE FOR REPAIR OF ALL UTILITIES DISTURBED DURING CONSTRUCTION AT NO COST TO THE OWNER.
  - CONTRACTOR IS RESPONSIBLE FOR CALLING DIG-SAFE (1-888-344-7233) 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING OTHER NON DIG-SAFE MEMBER UTILITIES FOR UTILITY LOCATIONS 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - CONTRACTOR SHALL PROTECT SURROUNDING PAVEMENT, STRUCTURES, FENCING, GUARD RAILS AND LIGHT POLES. ANY DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
  - ALL DEWATERING PRACTICES AND SOILS EXCAVATION FROM THE SITE MUST BE COORDINATED WITH THE OWNER AND HANDLED IN ACCORDANCE WITH THE DEWATERING AND SOIL HANDLING CRITERIA ESTABLISHED FOR THE PROJECT WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). SPECIAL SOIL TESTING AND MONITORING WILL BE THE RESPONSIBILITY OF THE OWNER.
  - EXCAVATED PAVEMENT AND GRAVEL SHALL BE REMOVED FROM THE PROJECT SITE AND LEGALLY DISPOSED OF. DO NOT ALLOW EXCESS EXCAVATED MATERIAL TO ACCUMULATE ON-SITE. DO NOT REMOVE EXCAVATED OR EXCESS ON-SITE SOILS FROM THE SITE WITHOUT PRIOR CONSENT FROM THE OWNER.
  - CONTRACTOR TO PROTECT EXISTING CATCH BASINS FROM FILLING WITH DEBRIS DURING CONSTRUCTION. CONTRACTOR TO FOLLOW STANDARDS AND SPECIFICATIONS FOR EROSION PROTECTION AS CONTAINED IN: MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION- BEST MANAGEMENT PRACTICES, MARCH 2003.

- SOIL SPECIFICATIONS:**
- 1.1) DELIVERY, STORAGE, AND HANDLING**
- A) SOD: HARVEST, DELIVER, STORE, AND HANDLE SOD ACCORDING TO REQUIREMENTS IN THIS "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" AND "SPECIFICATIONS FOR TURFGRASS SOD TRANSPLANTING AND INSTALLATION" IN ITS "GUIDELINE SPECIFICATIONS TO TURFGRASS SODDING." DELIVER SOD IN TIME FOR PLANTING WITHIN 24 HOURS OF HARVESTING. PROTECT SOD FROM BREAKAGE AND DRYING.
- 1.2) SODDING**
- A) LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY.
- B) LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD; DO NOT STRETCH OR OVERLAP; STAGGER SOD STRIPS OR PASSES TO OFFSET JOINTS IN ADJACENT COURSES. AVOID DAMAGE TO SUBGRADE OR SOD DURING INSTALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SUBGRADE. ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOIL OR FINE SAND INTO MAJOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING SOD AND ADJACENT GRASS.
- C) ANCHOR SOD ON SLOPES EXCEEDING 1:6 WITH WOOD PEGS OR STEEL STAPLES SPACED AS RECOMMENDED BY SOD MANUFACTURER BUT NOT LESS THAN 2 ANCHORS PER SOD STRIP TO PREVENT SLIPPAGE.
- D) SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING.
- 1.3) LAWN MAINTENANCE - FOR CLIENT ONLY**
- A) MAINTAIN AND ESTABLISH LAWN BY WATERING, MOWING, AND OTHER OPERATIONS.
- 1) IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS, ADD NEW MULCH AND ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.
- B) WATERING: PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN-WATERING EQUIPMENT TO CONVEY WATER FROM SOURCES AND TO KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF 4 INCHES (100 MM).
- 1) DURING FIRST WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF 1-1/2 INCHES (38 MM) BELOW SOD.
- 2) SCHEDULE WATERING TO PREVENT WILTING, PLUDDING, AND EROSION. LAY OUT TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS.
- 3) WATER LAWN WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH (25 MM) PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE.
- C) WATERING AND WEEKLY INSPECTIONS OF THE SOD SHALL CONTINUE THROUGHOUT THE FIRST FULL YEAR FROM TIME OF PLANTING UNTIL 12 MONTHS LATER, OR UNTIL SOD IS WELL ESTABLISHED, WHICHEVER COMES LATER.
- D) MOW LAWN AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN 1/3 OF GRASS HEIGHT. REMOVE NO MORE THAN 1/3 OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET. SCHEDULE INITIAL AND SUBSEQUENT MOWINGS TO MAINTAIN THE FOLLOWING GRASS HEIGHT:
- 1) MOW GRASS TO A HEIGHT OF 2 TO 3 INCHES (50 TO 75 MM).

**PLANT MATERIAL SCHEDULE**

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	ROOT	SPACING
<b>SHRUBS</b>						
MP	11	MYRTICA PENNSYLVANICA	BAYBERRY	1.5-2'	3 gal.	10' OC
P	16	POTENTILLA FUTCOSA	BUSH CINQUEFOIL	1.5-2'	2 gal.	3' OC
V	27	VACCINIUM ANGSTIFOLIUM	LOWBUSH BLUEBERRY		1 gal.	3' OC
<b>HERBACEOUS</b>						
ANA	65	ASTER NOVAE ANGLIAE	NEW ENGLAND ASTER		1 gal.	2' OC
ANB	55	ASTER NOVI-BELGII	NEW YORK ASTER		1 gal.	2' OC
EM	24	EUPATORIUM MACULATUM	JOE PYE WEED		1 gal.	3' OC
EP	30	EUPATORIUM PERFOLIATUM	BONESET	0.5-1 gal.	1.5'-2' OC	
IV	66	IRIS VERSICOLOR	BLUE FLAG		1 gal.	2' OC
OS	53	ONOCLEA SENSIBILIS	SENSITIVE FERN	0.5-1 gal.	2' OC	
PH	78	PHYSOTEGIA VIRGINIANA	OBEDIENT PLANT		1 gal.	2' OC
PV	15	PANICUM VIRGATUM	SWITCH GRASS		1 gal.	3' OC

- LANDSCAPE/PLANTING NOTES:**
- THE LANDSCAPE CONTRACTOR SHALL RELOCATE ANY PLANT ACCORDING TO THE DIRECTION OF THE LANDSCAPE ARCHITECT.
  - IF, BECAUSE OF CULTURE REQUIREMENTS, AVAILABILITY, OR OTHER CIRCUMSTANCES, THE LANDSCAPE CONTRACTOR BELIEVES A PARTICULAR PLANT CALLED FOR IS INAPPROPRIATE, THE LANDSCAPE CONTRACTOR SHALL REPORT THE SITUATION IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR DECISION.
  - THE MULCH SHALL BE FINE SHREDDED HARDWOOD MULCH, UNIFORMLY APPLIED NO MORE THAN 3 INCHES IN DEPTH. MULCH SHALL BE FREE OF WEED SEEDS, SOIL, ROOTS, OR ANY OTHER SUBSTANCE NOT CONSISTING OF EITHER BOLE OR BRANCH WOOD AND BARK. MULCH MAY BE EITHER NO MORE THAN ONE YEAR OLD OR FRESH.

**AMENDED SITE PLAN**

3	Revised Sand Layer and Geo-Fabric	GRC	TJG	SDH	10-17-05	FAIRCHILD SEMICONDUCTOR 333 Western Ave. South Portland, Maine
2	Revised Per MDEP Comments	GRC	TJG	SDH	9-23-05	
1	Revised Per Client Comments	GRC	TJG	SDH	9-1-05	BIO-RETENTION CELL 333 Western Ave. South Portland, Maine
0	Issued For Construction	GRC	TJG	SDH	6-1-05	
A	For Client Review	GRC	TJG	SDH	4-25-05	SITE, GRADING AND PLANTING PLAN
REV.	DESCRIPTION	DR.	CKD.	APP.	DATE	

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engineers  
architects  
surveyors  
construction  
managers

SCALE: As Noted  
DATE: April 2005  
DES BY: TJG  
DWN BY: GRC  
CHK BY: SDH

PROJECT NO.  
270.16.02

DRAWING NO.  
3 OF 3  
**C-2**

SCALE: 2701602-03-C2

