

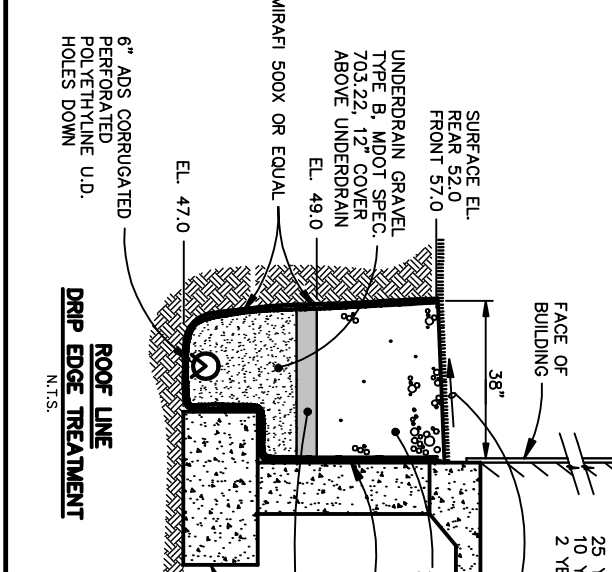
EROSION AND SEDIMENT CONTROL PLAN

THE PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THE PLAN IS SUBJECT TO THE APPROVAL OF THE PORTLAND CITY ENGINEER AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. PROTECTION DATED MARCH 2003. FOR ADDITIONAL DETAILS AND SPECIFICATIONS SEE SHEETS 1 THROUGH 10.

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "PAUSE EROSION AND SEDIMENT CONTROL BEST" MANAGEMENT PLAN, PORTLAND CITY ENGINEER AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED MARCH 2003.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNPROTECTED OR UNVEGETATED CONDITION FOR A MAXIMUM TIME PERIOD OF 14 DAYS. ALL AREAS THAT ARE NOT UNDERGOING CONSTRUCTION SHALL BE PROTECTED WITH A MINIMUM OF 7 DAYS OF FULL COVERAGE FROM THE DATE OF CONSTRUCTION START. THE AREA SHALL BE STABILIZED WITHIN 2 DAYS OF THE END OF CONSTRUCTION (THIS INCLUDES WETLANDS).
3. SEDIMENT BARRIERS (ANY OTHER MEANS, STABILIZED CONSTRUCTION ENTRANCE ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONSTRUCTION AREA ABOVE THE TRAIL.
4. INSTALL EROSION CONTROL MAT AT THE POINTS OF EROSION FROM THE MAIN DRIVEWAY. EROSION CONTROL MAT SHALL BE INSTALLED AT THE POINTS OF EROSION FROM THE MAIN DRIVEWAY AND AT THE POINTS OF EROSION FROM THE MAIN DRIVEWAY.
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6. NO SLOPES OTHER THAN THE EXISTING SHALL BE STEEPER THAN TWO TO ONE (2 TO 1).
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS FROM THE FIRST RAINFALL EVENT, THE NEXT RECOMMENDED SEEDING PERIOD. SEEDING SHALL BE COMPLETED BY MAY 15 OR 45 DAYS FROM THE FIRST RAINFALL EVENT (WHICHEVER IS EARLIER).
8. DURING THE CONSTRUCTION PHASE, INTERFERED SEEDING WILL BE RETURNED TO THE SITE AND REVEALED ONTO OTHER AREAS. POST SEEDING SEEDING WILL BE RETURNED TO THE SITE AND REVEALED ONTO OTHER AREAS.
9. REVEALED AREAS WILL BE COMPLETED UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. SEEDING AS FOLLOWS:
10. FILL AREAS OF LOW LIE WILL BE SPREAD OVER DISTURBED AREAS AND SHOULDER TO A MINIMUM SURFACE.
11. APPLY LIME/STONE AND PERTINENT ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SLOPES OR UNDEVELOPED AREAS, LIME/STONE SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1000 SQUARE FEET OF DISTURBED AREA. LIME/STONE SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1000 SQUARE FEET OF DISTURBED AREA.
12. WETLANDS WILL BE PROTECTED BY EROSION CONTROL MAT OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND ON THE BOUNDARY OF WETLAND DISTURBANCE.

LOCATION	MATERIAL	AMOUNT (LBS/SQ. FT.)
PROTECTED AREA	STRAW OR HAY	100 POUNDS
WHY AREAS	SHREDDED OR CHIPPED	18-275 POUNDS
	SPRINKLED WITH WATER	100 POUNDS
	(APPROXIMATE)	AS REQUIRED
	WATER	AS REQUIRED
	EXCESSIVE WATER	AS REQUIRED
	(GREATER THAN OR EQUAL TO 3")	
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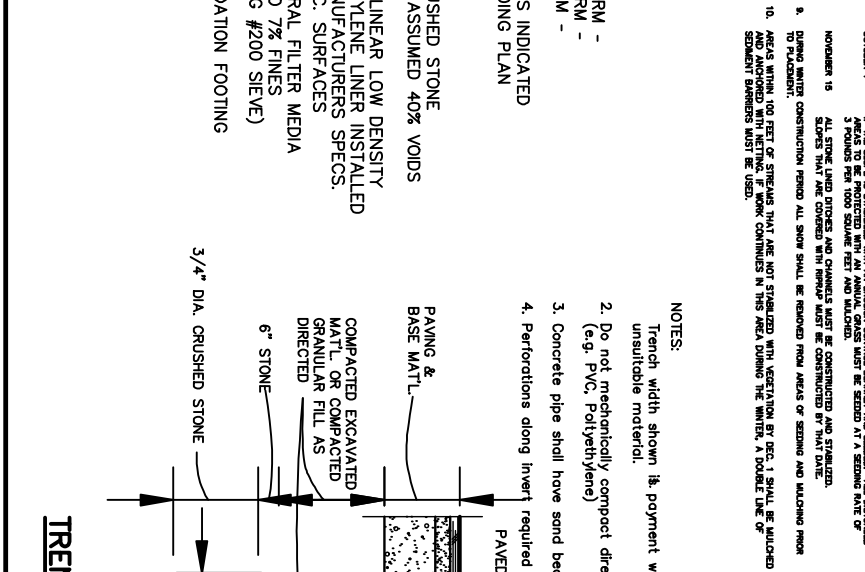
SEASON	SEED TYPE	RATE
Summer (6/15 - 8/15)	Sudangrass	40 lbs/acre
Summer (6/15 - 8/15)	Orchardgrass	40 lbs/acre
Summer (6/15 - 8/15)	Red Top	40 lbs/acre
Winter (12/1 - 2/1)	Winter Rye	112 lbs/acre
Winter (12/1 - 2/1)	Winter Rye w/ Donkey Sward	80 lbs/acre
Spring (4/1 - 7/1)	Annual Ryegrass	40 lbs/acre



EROSION CONTROL DURING CONSTRUCTION

1. WATER CONSTRUCTION PERIOD: OCTOBER 1 THROUGH APRIL 15
2. WITHOUT STABILIZATION AT ANY ONE TIME.
3. PROTECTED AREA SHALL BE LIMITED TO THAT WHICH CAN BE MAINTAINED IN ONE DAY FROM TO ANY SHOWN EVENT.
4. CONSTRUCTION OF TEMPORARY STRUCTURES OR APPROVAL AREAS SHALL NOT BEGIN UNTIL THE PROPOSED SURFACE ON THE AREA HAS BEEN STABILIZED SUCH THAT NO MORE THAN ONE FOOT OF THE DISTURBED AREA IS WITHOUT EROSION CONTROL PROTECTION.
5. OVERWINTER STABILIZATION OF AREAS AND CHANNELS SHALL BE COMPLETED BY NOVEMBER 15. ALL GRASS SEEDS AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 15. A DITCH OR CHANNEL MUST BE STABILIZED WITHIN 14 DAYS OF THE DATE OF CONSTRUCTION. THE DISTURBED AREA MUST BE STABILIZED WITHIN 14 DAYS OF THE DATE OF CONSTRUCTION.
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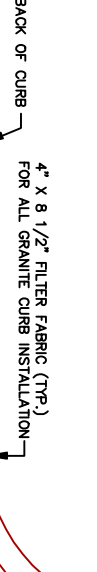
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VERTICAL GRANITE CURB CROSS SECTION



VERTICAL GRANITE CURB PLAN VIEW



EROSION CONTROL MIX BERM



SILT FENCE DETAIL



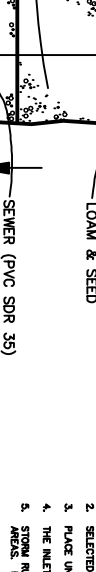
LEVEL LIP SPREADER



TERMINAL CURB PROFILE



VERTICAL GRANITE CURB INSTALLATION IN EXISTING STREETS



CONSTRUCTION SPECIFICATIONS

1. SPREADERS SHALL BE INSTALLED WITH A LEVEL INSTRUMENT. CONSTRUCTION LEVEL UP TO ONE GRADE TO DISBURSE UNIFORM SHEET PILED SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL, NOT FILL.
2. SELECTED GEOTEXTILE FABRIC BASED ON UNDISTURBED SOILS (GRAVEL, SILT, CLAYS, ETC.).
3. PLACE UNIFORMLY GRADED STONE (SEE TABLE 5-3).
4. THE INLET DITCH SHALL NOT EXCEED A 1% GRADE FOR AT LEAST 20 FEET BEFORE EXHIBING THE SPREADER.
5. SPREADER SHALL BE CONSTRUCTED TO SEED WITHIN 14 DAYS OF THE DATE OF CONSTRUCTION.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.
7. CONSTRUCTION OF LEVEL LIP SPREADER SHALL BE FROM UPRILL SIDE ONLY. LEVEL UP AND AREA BELOW SPREADER SHALL BE AT EXISTING GRADES AND UNDISTURBED BY EXISTING OR EQUIPMENT EXCEPT AS NOTED ON PLAN.
8. CONSTRUCT SPREADER WITH UP AT EXISTING ELEVATION AS SPECIFIED.
9. DOWN GRADUANT AND RECEIVING AREA MUST BE NATURALLY WELL VEGETATED.
10. DISBURSE NOT PERMITTED WITHIN 20' OF A STREAM OR WETLAND. CONSULT DEP IF STRUCTURE MUST BE WITHIN 75' OF STREAM OR WATER BODY.

SEIVE DISIGNATION	SEIVE DISIGNATION	% BY WEIGHT PASSING
300 MM	12"	100
150 MM	6"	84-100
75 MM	3"	68-83
25.4 MM	1"	42-55
4.75 MM	NO. 4	8-12

<p>DESIGNED: TSL DATE: FEB 2014</p>		<p>FOR: Melinda Schott 3 Red Mill Way Cumberland, Maine 04021 And Glenn Morse 218 Washington Avenue, Suite 1 Portland, ME 04103</p>		<p>BH2M Berry, Huff, McDonald, Milligan Inc. 28 State Street Columbia, Maine 04108 Tel: (207) 858-8771 Fax: (207) 858-8280</p>		<p>STATE OF MAINE ANDREW S. BROWN No. 22805 Professional Engineer</p>		<p>REVISION</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3/7/14</td> <td>Revised Per City of Portland Comments</td> </tr> <tr> <td>2</td> <td>4/11/14</td> <td>Revised Per City of Portland Comments</td> </tr> <tr> <td>3</td> <td>5/28/14</td> <td>Revised Per Glenn Morse Site Improvements</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	1	3/7/14	Revised Per City of Portland Comments	2	4/11/14	Revised Per City of Portland Comments	3	5/28/14	Revised Per Glenn Morse Site Improvements
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<p>218 WASHINGTON AVENUE PORTLAND, MAINE</p>		<p>LOT DIVISION &amp; DEVELOPMENT OF REMAINING LAND</p>		<p>2</p>		<p>NO. DATE DESCRIPTION</p>															