

EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION CONTROL MEASURES MAY INCLUDE THE USE OF STABILIZED CONSTRUCTION ENTRANCES, HYDRAULIC MULCH, HAY AND STRAW, SLOTTED CURBS, SLOTTED CURB AND CHANNELS, SLOTTED CURB AND CHANNELS WITH BARRIERS, SLOTTED CURB AND CHANNELS WITH BARRIERS AND SEDIMENT COLLECTION BAGS AND GEOTEXTILE FILTER BAGS. PERMANENT MEASURES INCLUDE THE USE OF RIPRAP AT EXPOSED STORMDRAIN AND CULVERT INLETS AND OUTLETS, ARMORED SWALES AND SLOPES AND PERMANENT VEGETATION.

- A. THE PROJECT SHALL CONFORM WITH THE STANDARDS OF THE MAINE CONSTRUCTION GENERAL PERMIT, IF APPLICABLE.
- B. ALL EROSION AND SEDIMENT CONTROL BMPs HANDBOOK PUBLISHED BY THE MAINE DEP UNLESS OTHERWISE NOTED IN THESE PLANS.
- C. ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DEMAND NECESSARY BY THE OWNER'S REPRESENTATIVE, DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND/OR MUNICIPAL OFFICIALS SHALL BE INSTALLED BY THE CONTRACTOR.
- D. THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES RESULTING FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES, WATER BODIES, OR WETLANDS AS A RESULT OF THIS PROJECT.
- E. THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE SITE WHENEVER POSSIBLE WHILE ALLOWING PROPER SITE DEVELOPMENT.
- F. CONSTRUCTION STAGING SHALL BE CONDUCTED IN A WAY TO MINIMIZE THE POTENTIAL FOR STORMWATER RUN-ON TO DISTURBED AREAS.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE ABOVE PERFORMANCE DESCRIPTIONS OF VARIOUS TYPES FOLLOWS:
 - i. FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS THAT 90% OF THE DISTURBED AREA IS COVERED WITH REASONABLY THICK LAYER OF SEED, FERTILIZER AND MULCH. SEEDING SHALL BE DONE BETWEEN APRIL 15 AND SEPTEMBER 15. AREAS NOT SEED BY OCTOBER 15 OF EACH YEAR, LATE SEASON SEEDING MAY BE DONE BETWEEN APRIL 15 AND SEPTEMBER 15, AREAS NOT SEED BY OCTOBER 15 DO NOT OBTAIN A SATISFACTORY GROWTH BY OCTOBER 1. SHALL BE SEED BY APOSTOCK WINTER RYE OR MULCHED AT SPECIFIED RATES. SEE WINTER SEEDING AND MULCHING SPECIFICATIONS FOR STABILIZATION AFTER NOVEMBER 1.
 - ii. APPLY TOPSOIL TO A DEPTH OF 4 INCHES. IN COMPACTED AREAS TILL 2-3" OF COMPOST INTO UPPER 6" OF DISTURBED SOIL. AND THEN APPLY 4 INCHES OF TOPSOIL.
 - iii. APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS. IN LETU OF SOIL TESTS, APPLY GROUND LIME/STONE AT A RATE OF 33 LBS PER 1000 SQUARE FEET AND GRANULAR, COMMERCIAL-GRADE FERTILIZER 10-10-10 AT A RATE OF 18 LBS PER 1000 SQUARE FEET.
 - iv. UNIFORMLY APPLY SEED MIXTURE AT THE RECOMMENDED SEEDING RATES AND DATES. APPLY HAY OR STRAW MULCH AT A RATE OF 2.5 BALES PER 1000 SQUARE FEET AND ANCHOR AS NECESSARY.
 - v. THE SEED MIXTURE FOR SOIL MODIFIED RANGEROUS SHALL CONSIST OF NEW ENGLAND EROSION CONTROL, RESTORATION MIX FOR EROSION CONTROL, AND RESTORATION MIX FOR SOIL MODIFIED RANGEROUS. RESTORATION MIX FOR EROSION CONTROL SHALL BE APPLIED TO ALL AREAS WHERE EROSION CONTROL IS REQUIRED. RESTORATION MIX FOR SOIL MODIFIED RANGEROUS SHALL BE APPLIED TO ALL AREAS WHERE RESTORATION MIX IS REQUIRED.
 - vi. FOR OPEN CHANNELS, LEVEL SPREADERS, ENGINEERED BUFFERS OR OTHER DESIGNED STORMWATER CONVEYANCE STRUCTURE, PERMANENT STABILIZATION MEANS THE CHANNELLED AREAS) IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH APPROVED RIPRAP, OR WITH OTHER NON-EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE SHALL BE NO EVIDENCE OF SLUMPING, UNDERCUTTING OR DOWNCUTTING OF THE DESIGNED CHANNEL.

Measure	Dates For Use	Timing, Activity, and Location
Sedimentation Barrier	ALL	Before soil disturbance, install downhill of areas to be disturbed and around material stockpiles.
Up-slope Diversion	ALL	Before soil disturbance, install uphill of areas to be disturbed and material stockpiles.
Catch Basin Protection	ALL	Before soil or pavement disturbance, install ACF Environment, Inc. High Flow Siltsock, Siltsover Inlet Filter, or equal, installed per manufacturer's requirements.
Dust Control	ALL	During dry weather, apply water and calcium chloride to control dust.
Temporary Seeding	April 15 to Oct. 1	Soil stockpiles that are not covered and disturbed areas that will not be restored again within 14 days. If grass growth provides less than 95% soil coverage by Nov. 1, apply mulch and anchor with erosion control blanket.
Mulch	April 15 to Sept. 15	On all areas of exposed soil prior to precipitation or every 1000 sq. ft. apply 150 to 170 lbs. mulch (4 bales) per 1000 sq. ft. and anchor with erosion control blanket. Mulch may be used as a substitute for winter mulch.
Winter Mulch	Sept. 16 to Oct. 31	On all areas of exposed soil prior to precipitation or every 1000 sq. ft. apply 150 to 170 lbs. mulch (4 bales) per 1000 sq. ft. and anchor with erosion control blanket. Mulch may be used as a substitute for winter mulch.
Inspections	Nov. 1 to April 14	On all areas of exposed soil prior to precipitation or every 1000 sq. ft. and anchor with erosion control blanket. Erosion control blanket may be used as a substitute for winter mulch. Inspect the erosion and sedimentation control measures daily, and maintain and repair as necessary.

Permanent Erosion Control:

Measure	Dates For Use	Timing, Activity, and Location
Pavement – Base Course	When no frost is in ground	Install only in areas shown on the plan, shortly after pavement base is brought to final grade, install near completion of project.
Permanent Seeding	April 15 to Sept. 15	On final grade areas, within 7 days of grade preparation, prepare topsoil, followed by seed and mulch application.
Dormant Seeding	Sept. 16 to April 15	On final grade areas, with prepared topsoil. Apply seed of species and mulch on bare soil, and follow with an application of winter mulch.
Ground Cover, Trees, Shrubs	April 15 to Nov. 1	Install with final landscaping.
Permanent Mulch	ALL	Install with final landscaping.

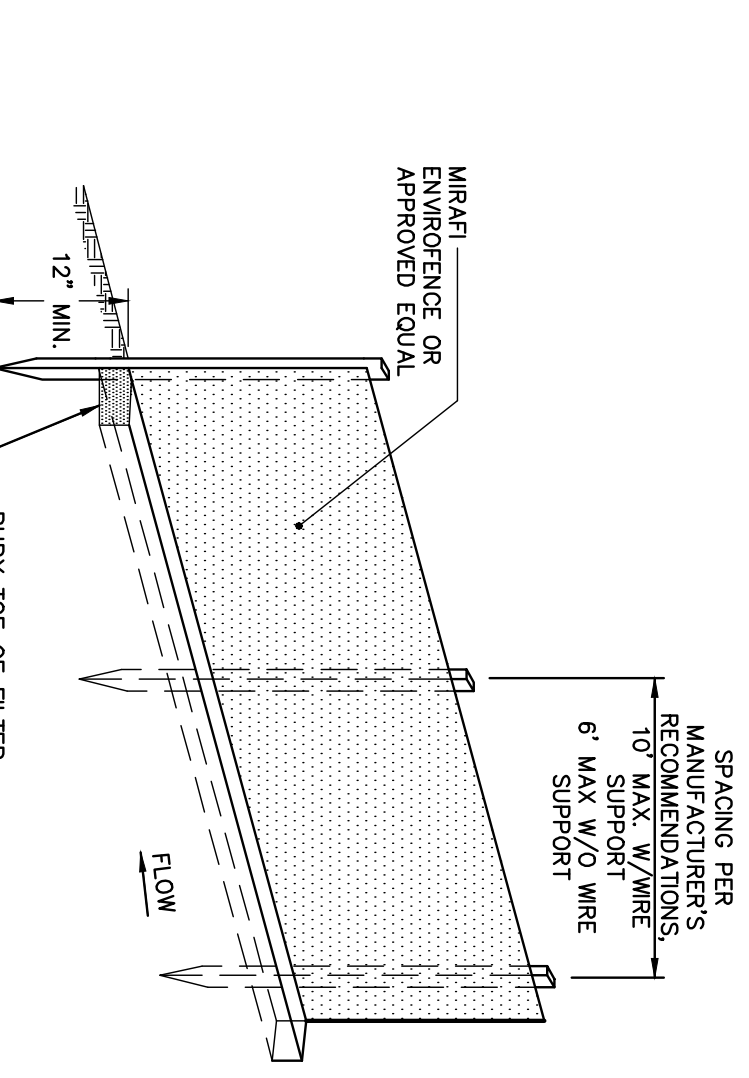
Inspections:

Regular inspections of all erosion and sedimentation controls shall be made at least once weekly during the construction period. Minimum inspections shall be made as listed in the table below.

Inspected Item	Look For
Matched Surfaces	Thin mulch or inadequate application. Wind movement.
Seeded Surfaces	Poor seed germination. Loss of mulch. Development of ruts/cracks.
Sediment Barrier	Sediment build-up to one half the height of the barrier. Undermining of the barrier. Supporting stakes loose, toppled, or embedded. Breaks in barrier.
Perimeter Diversion	Discharge is to stabilized area. Erosion or breaks in barrier. Supporting stakes loose, toppled or unattached.
Catch Basin Protection	Sediment build-up and structure blockages. Slow flow/flooding water. Breaks in fabric or voids in barrier.
Dewatering Filter	Breaks in fabric of supporting structure. Slow flow, indicating high sediment build-up.
Construction Entrance	Sedimentation of roadways. Off-site dust complaints.

EROSION AND SEDIMENT CONTROL NOTES

CONTRACTOR SHALL PREPARE AND SUBMIT A SOIL EROSION AND WATER POLLUTION CONTROL PLAN TO ENGINEER IN ACCORDANCE WITH SECTION 656.

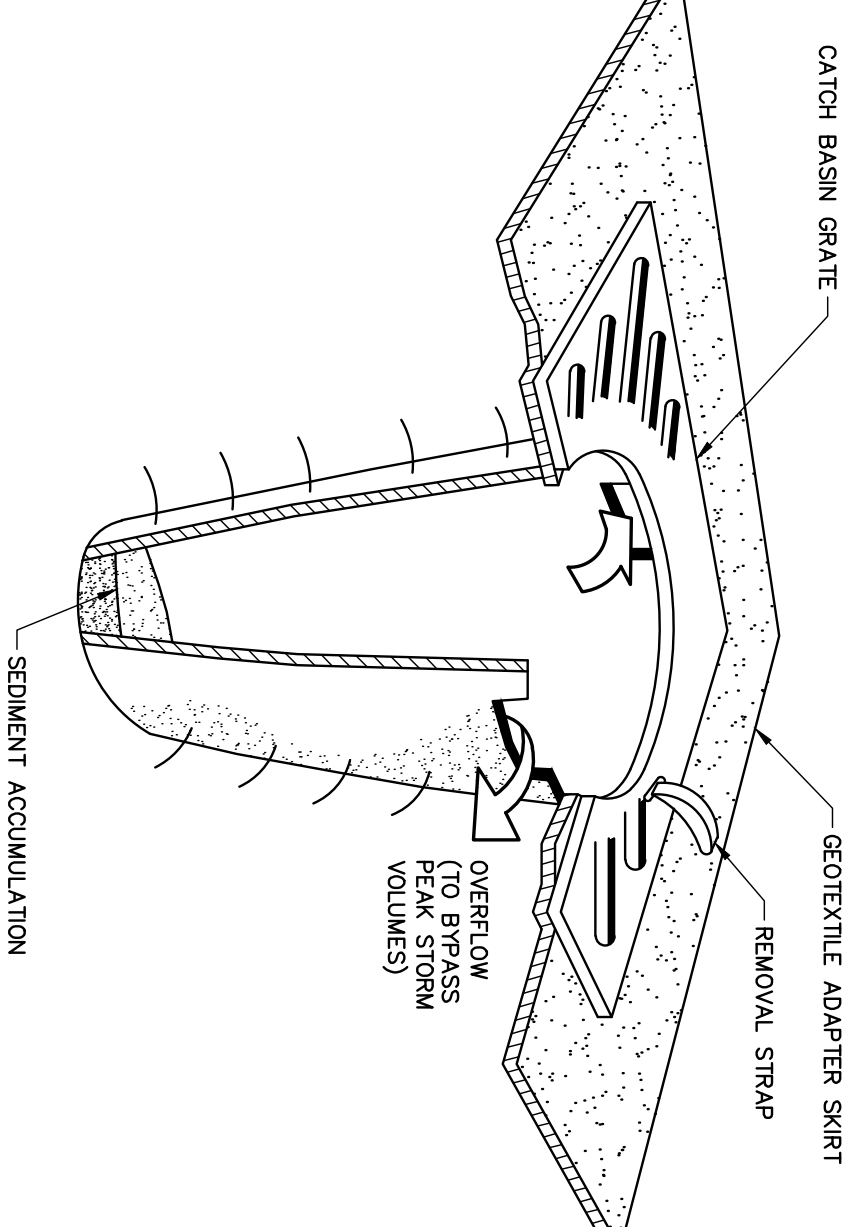


- NOTES:
- INSTALL FABRIC ON UPHILL SIDE OF SUPPORT POSTS
- INSTALL SILT FENCE ACROSS SLOPES
- SILT FENCE SHALL NOT BE USED IN DRAINAGE WAYS

MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO ACCUMULATED SEDIMENT WHEN SILT REACHES A DEPTH OF SIX-INCHES OR LESS.

REMOVAL: WHEN UPGRADE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.

SEDIMENT BARRIER – SILTATION FENCE DETAIL
CONTRACTOR OPTION
N.T.S.

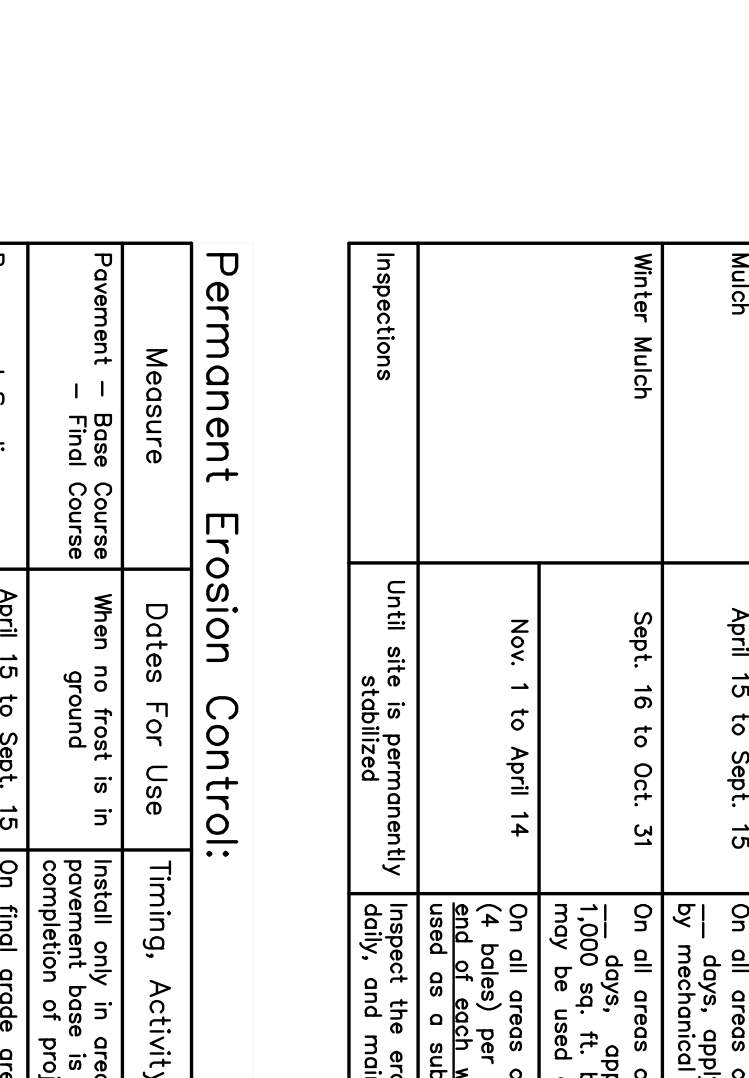


NOTES:
CATCH BASIN PROTECTION TO BE "SILTBACK" (BY ACF ENVIRONMENTAL) OR "STREAM GUARD" (BY FOSS ENVIRONMENTAL SERVICES).
INSERT TO BE EMPTIED IN AN APPROVED MANNER WHEN IT IS 1/2 FULL OF SEDIMENT.
INSPECT INSERT AFTER ALL RAINFALL EVENTS, REPAIR AND MAINTAIN AS REQUIRED.

TEMPORARY INLET PROTECTION
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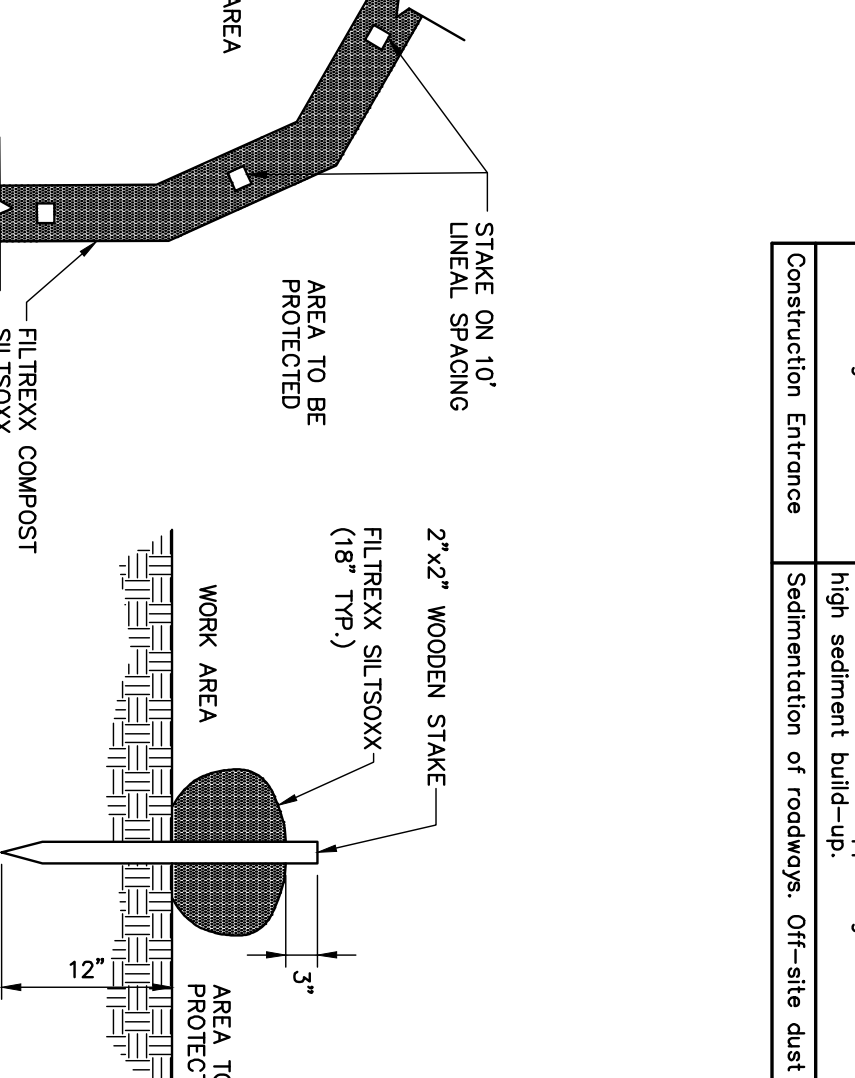


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SEDIMENTATION BARRIER – SILTISOXX
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N.T.S.



PLAN VIEW

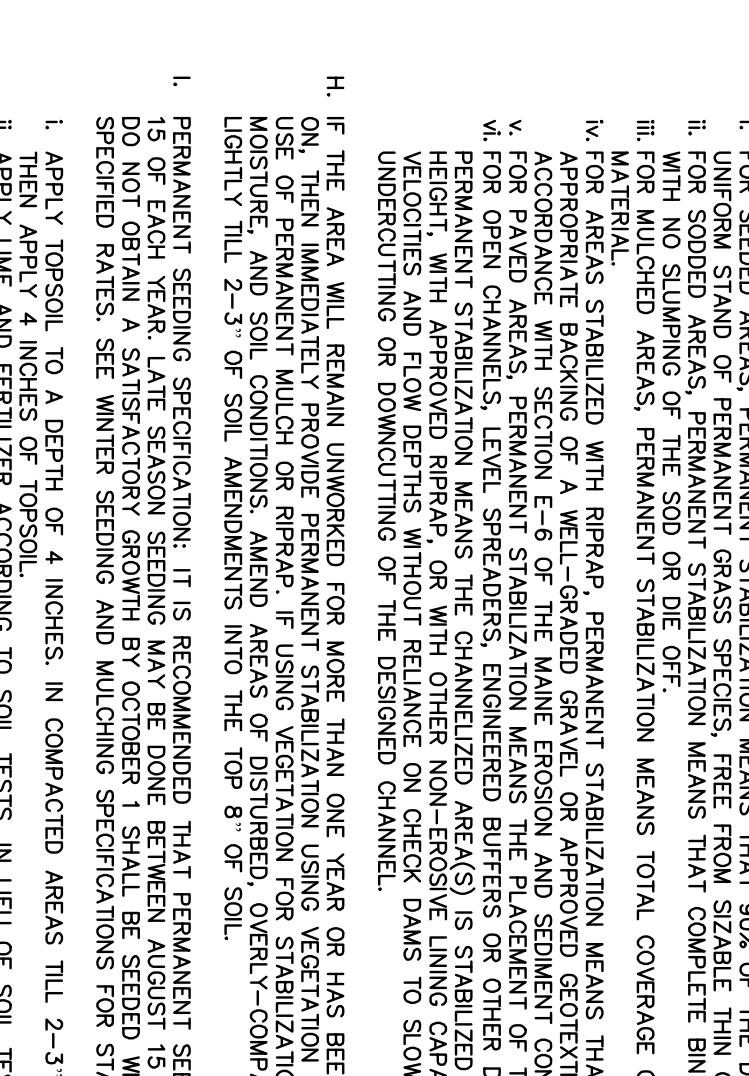
NOTE:
WHEN STAKING IS NOT POSSIBLE, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SEDIMENT CONTROL TO HELP STABILIZE DURING RAINFALL EVENTS.

SECTION

TEMPORARY INLET PROTECTION
N.T.S.

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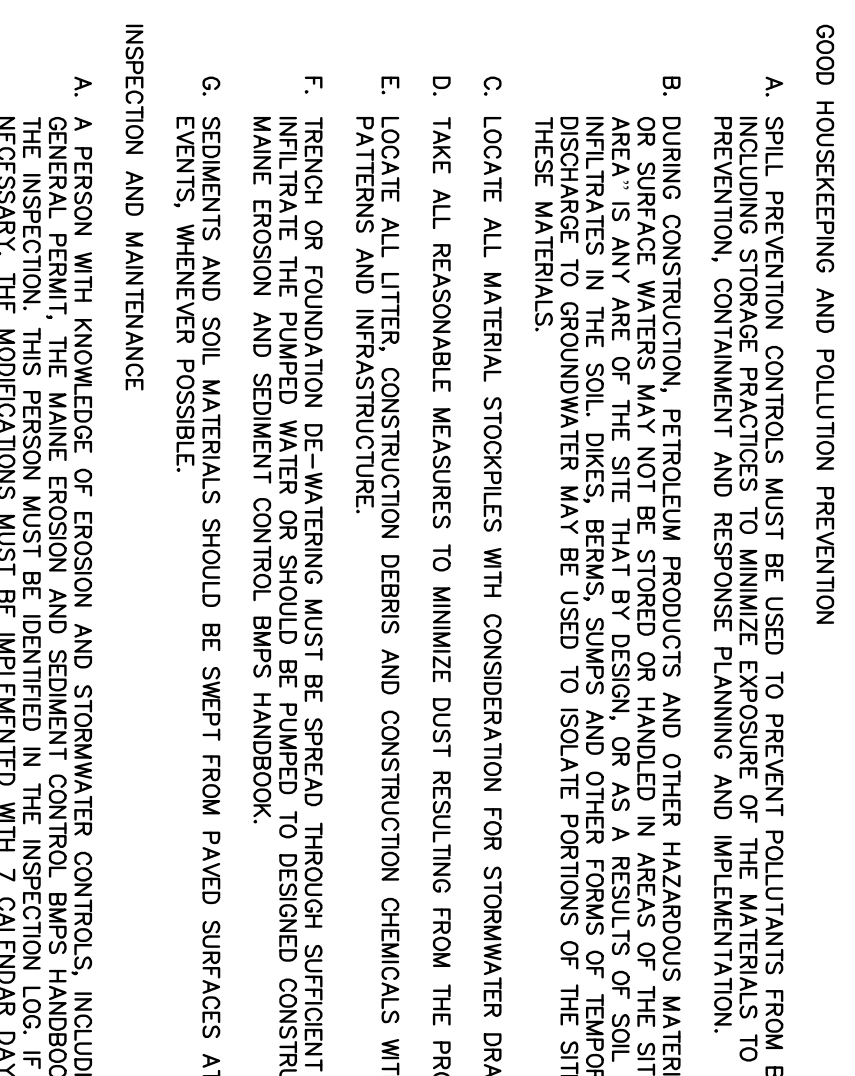


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SECTION

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N.T.S.

PRELIMINARY - NOT FOR CONSTRUCTION

JOB NO.: 225869.01	COW PLAZA HOTEL, LLC 100 COMMERCIAL STREET, SUITE 306 PORTLAND, MAINE, C/O TIM SOLEY	DATE: OCTOBER 2012	SCALE: AS NOTED	SHEET: 9 OF 9	C-304						
CIVIL DETAILS - 5											
<table border="1" style="width: 100%;"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>FINAL SITE PLAN APPLICATION SUBMISSION</td> <td>9/28/2012</td> </tr> </table>						REV	DESCRIPTION	DATE	1	FINAL SITE PLAN APPLICATION SUBMISSION	9/28/2012
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1	FINAL SITE PLAN APPLICATION SUBMISSION	9/28/2012									
DESIGNED BY: MDLM		CHECKED BY: DLG		DRAWN BY: JBC							
		22586901-000A.DWG									

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COMMITMENT & INTEGRITY DRIVE RESULTS

STATE OF MAINE
DENISE CAMERON
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Professional Engineer

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10/01/2012