EROSION AND SEDIMENTATION CONTROL NOTES

THE PRIMARY EMPHASIS OF THE EROSION/SEDIMENTATION CONTROL PLAN TO BE IMPLEMENTED FOR THIS PROJECT ARE AS FOLLOWS:

- DEVELOPMENT OF A CAREFUL CONSTRUCTION SEQUENCE.
- RAPID REVEGETATION OF DENUDED AREAS TO MINIMIZE THE PERIOD OF SOIL EXPOSURE.
- RAPID STABILIZATION OF DRAINAGE PATHS TO AVOID RILL AND GULLY EROSION. THE USE OF ONSITE MEASURES TO CAPTURE SEDIMENT (HAY BALES/SILT FENCE, ETC.)

DESCRIPTION AND LOCATION OF LIMITS OF ALL PROPOSED EARTH MOVEMENTS THE CONSTRUCTION OF THE DEVELOPMENT WILL REQUIRE THE FOLLOWING ON-SITE IMPROVEMENTS.

EARTHWORK ACTIVITY INCLUDING CUTS AND FILLS TO BRING THE PARKING, DRIVE AISLE AND WALKWAY AREAS TO SUBGRADE.

CONSTRUCTION OF PARKING LOTS, DRIVE AISLES, WALKWAYS AND INSTALLATION OF THE DRAINAGE SYSTEMS.

EROSION/SEDIMENTATION CONTROL DEVICES

THE FOLLOWING EROSION/SEDIMENT CONTROL DEVICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS PART OF THE SITE DEVELOPMENT. THESE DEVICES SHALL BE INSTALLED AS INDICATED ON THE PLANS OR AS DESCRIBED WITHIN THIS REPORT. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PRIOR TO ANY WORK BEING DONE SO THAT NO SEDIMENT ENTERS THE PROPOSED DRAINAGE SYSTEM. FOR FURTHER REFERENCE, SEE THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES.

SILTATION FENCE OR A SEDIMENT BARRIER SHALL BE INSTALLED DOWNSTREAM OF ANY DISTURBED AREAS TO TRAP RUNOFF BORNE SEDIMENTS UNTIL THE SITE IS REVEGETATED. THE SEDIMENT BARRIER SHALL BE INSTALLED PER THE DETAIL PROVIDED IN THE PLAN SET AND INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY BY THE CONTRACTOR IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THE SEDIMENT BARRIER LINE. PROPER PLACEMENT OF STAKES AND FABRIC INTO THE GROUND IS CRITICAL TO SILT FENCE EFFECTIVENESS. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES. OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THE BARRIER, THE BARRIER SHALL BE REPLACED WITH A STONE CHECK DAM. STRAW OR HAY MULCH INCLUDING HYDROSEEDING IS INTENDED TO PROVIDE COVER FOR DENUDED OR SEEDED AREAS UNTIL REVEGETATION IS ESTABLISHED. MULCH PLACED ON SLOPES OF LESS THAN 15 PERCENT OR 8 PERCENT DEPENDING ON THE TIME OF YEAR SHALL BE ANCHORED BY APPLYING WATER: MULCH PLACED ON SLOPES STEEPER THAN 15 PERCENT OR 8 PERCENT DEPENDING ON THE TIME OF YEAR SHALL BE COVERED WITH A FABRIC NETTING AND ANCHORED WITH STAPLES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SLOPES STEEPER THAN 3:1 WHICH ARE TO BE REVEGETATED SHALL RECEIVE CURLEX BLANKETS BY AMERICAN EXCELSIOR OR EQUAL WITHIN 5 DAYS OF FINAL GRADING OR PRIOR TO A PREDICTED RAINFALL EVENT. HAY MULCH SHALL BE AVAILABLE ON SITE AT ALL TIMES IN ORDER TO PROVIDE IMMEDIATE TEMPORARY STABILIZATION WHEN NECESSARY. A CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED AT ALL ACCESS POINTS ONTO THE SITE TO PREVENT TRACKING OF SOIL ONTO ADJACENT PAVED AREAS. STONE SEDIMENT TRAPS OR A PREMANUFACTURED SILTSACK WILL BE INSTALLED AT CATCH BASIN INLETS TO PREVENT SILT FROM ENTERING ONSITE OR OFFSITE THE STORM DRAIN SYSTEM. LOAM AND SEED IS INTENDED TO SERVE AS THE PRIMARY PERMANENT REVEGETATIVE MEASURE FOR ALL DENUDED AREAS NOT PROVIDED WITH OTHER EROSION CONTROL MEASURES, SUCH AS RIPRAP. APPLICATION RATES ARE PROVIDED AT THE END OF THIS SECTION FOR TEMPORARY AND PERMANENT SEEDING.

TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES

THE FOLLOWING ARE PLANNED AS TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION:

A CRUSHED STONE STABILIZED CONSTRUCTION ENTRANCE(S) SHALL BE PLACED AT THE SITE ACCESS ONTO ADJACENT PAVED AREAS.

SILTATION FENCE OR A MULCH FILTER BARRER SHALL BE INSTALLED ALONG THE DOWNGRADIENT SIDE OF THE PARKING AREAS AND OF ALL FILL SECTIONS. THE SILTATION FENCE WILL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL THE SITE IS ACCEPTABLY REVEGETATED.

TEMPORARY STOCKPILES OF STUMPS, GRUBBINGS, OR COMMON EXCAVATION WILL BE PROTECTED AS FOLLOWS:

TEMPORARY STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE SWALES

STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS BY EITHER TEMPORARILY SEEDING THE STOCKPILE WITH A HYDROSEED METHOD CONTAINING AN EMULSIFIED MULCH TACKIFIER OR BY COVERING THE STOCKPILE WITH MULCH.

ALL DENUDED AREAS WHICH HAVE BEEN ROUGH GRADED AND ARE NOT LOCATED WITHIN THE PARKING AND DRIVEWAY SUBBASE AREA, SHALL RECEIVE MULCH OR EROSION CONTROL MESH FABRIC WITHIN 7 DAYS OF INITIAL DISTURBANCE OF SOIL.

FOR WORK WHICH IS CONDUCTED BETWEEN OCTOBER 1 AND APRIL 15 OF ANY CALENDAR YEAR, ALL DENUDED AREAS WILL BE COVERED WITH HAY MULCH, APPLIED AT TWICE THE NORMAL APPLICATION RATE AND ANCHORED WITH A FABRIC NETTING. THE TIME PERIOD FOR APPLYING MULCH SHALL BE LIMITED TO 5 DAYS FOR ALL AREAS OR IMMEDIATELY IN ADVANCE OF A PREDICTED RAINFALL EVENT.

ADJACENT PAVED AREAS SHALL BE SWEPT TO CONTROL MUD AND DUST AS NECESSARY. A STREET SWEEPER SHALL BE AVAILABLE ON IMMEDIATE NOTICE.

DURING GRUBBING OPERATIONS STONE CHECK DAMS OR HAY BALE BARRIERS WILL BE INSTALLED AT ANY EVIDENT CONCENTRATED FLOW DISCHARGE POINTS.

SILT FENCING WITH A MAXIMUM STAKE SPACING OF 6 FEET SHOULD BE USED, UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT OF MINIMUM 14 GAUGE AND WITH A MAXIMUM MESH SPACING OF 6 INCHES. IN WHICH CASE STAKES MAY BE SPACED A MAXIMUM OF 10 FEET APART. THE BOTTOM OF THE FENCE SHOULD BE PROPERLY ANCHORED A MINIMUM OF 6" PER THE PLAN DETAIL AND BACKFILLED. ANY SILT FENCE IDENTIFIED BY THE OWNER OR REVIEWING AGENCIES AS NOT BEING PROPERLY INSTALLED DURING CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED IN ACCORDANCE WITH THE INSTALLATION DETAILS.

PERMANENT EROSION CONTROL MEASURES

THE FOLLOWING PERMANENT EROSION CONTROL MEASURES HAVE BEEN DESIGNED AS PART OF THE **EROSION/SEDIMENTATION CONTROL PLAN:**

ALL AREAS DISTURBED DURING CONSTRUCTION, BUT NOT SUBJECT TO OTHER RESTORATION (PAVING, RIPRAP, ETC.) WILL BE LOAMED, LIMED, FERTILIZED, MULCHED, AND SEEDED. FABRIC NETTING, ANCHORED WITH STAPLES, SHALL BE PLACED OVER THE MULCH IN AREAS WHERE THE FINISH GRADE SLOPE IS GREATER THAN 10 PERCENT. NATIVE TOPSOIL SHALL BE STOCKPILED TEMPORARILY STABILIZED WITH SEED AND MULCH AND REUSED FOR FINAL RESTORATION WHEN IT IS OF SUFFICIENT QUALITY.

CATCH BASINS WILL BE PROVIDED WITH A 3'-0" DEEP SEDIMENT SUMP.

TIMING AND SEQUENCE OF EROSION/SEDIMENTATION CONTROL MEASURES THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE OPTIMIZED. THE SEQUENCE APPLIES TO ALL PHASES OF CONSTRUCTION.

NOTE: FOR ALL GRADING ACTIVITIES, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO OVEREXPOSE THE SITE BY LIMITING THE DISTURBED AREA.

INSTALL CRUSHED STONE STABILIZED CONSTRUCTION ENTRANCE. INSTALL PERIMETER SILTATION FENCE OR SEDIMENT BARRIER AS INDICATED ON THE PLANS.

COMPLETE DEMOLITION ACTIVITY

PERFORM EARTHWORK TO BRING PARKING AREAS TO SUBGRADE.

BEGIN INSTALLATION OF DRAINAGE APPURTENANCES AND PIPING. COMMENCE ADDITIONAL EARTHWORK IN FILL AREAS AND FOR WATER QUALITY TREATMENT AREAS.

COMPLETE EARTHWORK, GRADING AND PIPE INSTALLATION FOR WATER QUALITY TREATMENT FILTERS UP TO BOTTOM OF SOIL FILTER MEDIA - SOIL FILTER MEDIA SHALL NOT BE INSTALLED UNTIL PARKING LOT PAVEING (BINDER) IS COMPLETED. COMPLETE EARTHWORK AND GRADING TO SUBGRADE AS NECESSARY FOR PARKING AREAS.

COMPLETE INSTALLATION OF STORM DRAINAGE APPURTENANCES. COMMENCE INSTALLATION OF UTILITIES FROM THE STREET OR ON SITE AS NECESSARY.

INSTALL LIGHT POLE FOUNDATIONS.

COMPLETE ALL REMAINING EARTHWORK OPERATIONS INCLUDING FINE GRADING OF SLOPES. INSTALL SUBBASE AND BASE GRAVELS.

INSTALL BASE COURSE PAVING.

INSTALL CURBING.

LOAM, LIME, FERTILIZE, SEED AND MULCH DISTURBED AREAS, AND COMPLETE ALL LANDSCAPING. INSTALL SOIL FILTER MEDIA IN WATER QUALITY TREATMENT AREAS.

INSTALL SURFACE COURSE PAVING. STRIPE PER PLANS.

REMOVE ACCUMULATED SEDIMENT FROM AHEAD OF ANY SEDIMENT BARRIERS AS NECESSARY ONCE THE SITE IS STABILIZED AND A 90% CATCH OF VEGETATION HAS BEEN OBTAINED, REMOVE ALL

TEMPORARY EROSION CONTROL MEASURES.

TOUCH UP LOAM AND SEED.

NOTE: ALL DENUDED AREAS NOT SUBJECT TO FINAL PAVING, RIPRAP OR GRAVEL, SHALL BE REVEGETATED. DUE TO THE TIMING AND SIZE OF THE PROJECT, COMPLETION OF THE FACILITY WITHIN A SUMMER CONSTRUCTION SEASON IS EXPECTED. HOWEVER, IF CIRCUMSTANCES DICTATE FOR ALL WORK WHICH WILL BE CONDUCTED BETWEEN OCTOBER 1 AND APRIL 15 OF THE CALENDAR YEAR, THE CONTRACTOR SHALL SUBMIT A SCHEDULE WHICH WILL SATISFY THE FOLLOWING CRITERIA:

LIMIT THE AMOUNT OF EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS EXPECTED TO BE UNDERTAKEN DURING THE PROCEEDING 7 DAYS. DURING THE CONSTRUCTION PROCESS, ALL DISTURBED AREAS SHALL BE COVERED WITH MULCH WITHIN 5 DAYS OF FINAL GRADING. ONCE FINAL GRADE HAS BEEN ESTABLISHED, THE CONTRACTOR MAY CHOOSE TO DORMANT SEED THE DISTURBED AREAS PRIOR TO PLACEMENT OF MULCH AND PLACEMENT OF FABRIC NETTING ANCHORED WITH STAPLES. IF DORMANT SEEDING IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL RECEIVE 4" OF LOAM AND SEED AT AN APPLICATION RATE OF 5#/1000 S.F.

ALL AREAS SEEDED DURING THE WINTER MONTHS WILL BE INSPECTED IN THE SPRING FOR ADEQUATE CATCH. ALL AREAS INSUFFICIENTLY VEGETATED (LESS THAN 90% CATCH) SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DORMANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING.

THE AREA OF DENUDED NON-STABILIZED CONSTRUCTION SHALL BE LIMITED TO THE MINIMUM AREA PRACTICABLE. AN AREA SHALL BE CONSIDERED TO BE DENUDED UNTIL THE SUBBASE GRAVEL IS INSTALLED IN PARKING AREAS, OR THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED, AND MULCHED. THE MULCH RATE SHALL BE TWICE THE RATE SPECIFIED IN THE SEEDING PLAN. [FOR EXAMPLE, 115#/1,000 S.F. X 2 = 230#/S.F.]

THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS.

PERMANENT SEEDING PLAN PROJECT - 90 JOHNSON ROAD - PARKING AREA

SITE LOCATION -

X PERMANENT SEEDING TEMPORARY SEEDING 1.AREA TO BE SEEDED: LESS THAN 1/2 ACRE

2.INSTRUCTIONS ON PREPARATION OF SOIL: PREPARE A GOOD SEED BED FOR PLANTING METHOD USED. 3.APPLY LIME AS FOLLOWS: 138#/M SQ. FT.

4.FERTILIZE WITH 18.4 POUNDS OF 10 - 20 - 20 N-P-K/M SQ. FT.

5.METHOD OF APPLYING LIME AND FERTILIZER: SPREAD AND WORK INTO THE SOIL BEFORE SEEDING. 6.SEED WITH THE FOLLOWING MIXTURE:

15% ANNUAL RYEGRASS

35% TALL FESCUE

30% CREEPING RED FESCUE

20% PERENNIAL RYEGRASS WHEN USING SMALL GRAIN AS NURSE CROP SEED IT AT ONE-HALF THE NORMAL SEEDING RATE.

7.MULCHING INSTRUCTIONS: APPLY AT THE RATE OF 115 POUNDS PER M. SQ. FT.

AMOUNT UNIT #, TONS, ETC. 8.TOTAL LIME 138 #/1000 SQ. FT.

9.TOTAL FERTILIZER 18.4 #/1000 SQ. FT.

10.TOTAL SEED 5 LBS/1000 SQ. FT.

11.TOTAL MULCH 115 #/1000 SQ. FT. 12.TOTAL OTHER MATERIALS, SEEDS, ETC. N/A

13.REMARKS

SPRING SEEDING IS RECOMMENDED. HOWEVER, LATE SUMMER (PRIOR TO SEPTEMBER 1) SEEDING CAN BE MADE. PERMANENT SEEDING SHOULD BE MADE PRIOR TO AUGUST 5 OR AS A DORMANT SEEDING AFTER THE FIRST KILLING FROST AND BEFORE THE FIRST SNOWFALL. IF SEEDING CANNOT BE DONE WITHIN THESE SEEDING DATES, TEMPORARY SEEDING AND MULCHING SHALL BE USED TO PROTECT THE SITE. PERMANENT SEEDING SHALL BE DELAYED UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

FERTILIZER REQUIREMENTS SHALL BE SUBJECT TO ACTUAL TEST RESULTS OF THE TOPSOIL USED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TOPSOIL TEST RESULTS FOR PH AND RECOMMENDED FERTILIZER APPLICATION RATES TO THE OWNER.

TEMPORARY SEEDING PLAN PROJECT - 90 JOHNSON ROAD - PARKING AREA SITE LOCATION -

PERMANENT SEEDING X TEMPORARY SEEDING 1.AREA TO BE SEEDED: LESS THAN 1/2 ACRE 2.INSTRUCTIONS ON PREPARATION OF SOIL: PREPARE A GOOD SEED BED FOR PLANTING METHOD USED. 3.APPLY LIME AS FOLLOWS: 138#/M SQ. FT. 4.FERTILIZE WITH POUNDS OF N-P-K/AC. OR 18.4 POUNDS OF 10 - 20 - 20 N-P-K/M SQ. FT. 5.METHOD OF APPLYING LIME AND FERTILIZER: SPREAD AND WORK INTO THE SOIL BEFORE SEEDING. 6.SEED WITH THE FOLLOWING MIXTURE: 50% PERENNIAL RYEGRASS 50% WINTER RYE WHEN USING SMALL GRAIN AS NURSE CROP SEED IT AT ONE-HALF THE NORMAL SEEDING RATE. 7.MULCHING INSTRUCTIONS: APPLY AT THE RATE OF 230 POUNDS PER M. SQ. FT.

AMOUNTUNIT #, TONS, ETC. 8.TOTAL LIME 138#/1000 SQ. FT. 9.TOTAL FERTILIZER 13.8#/1000 SQ. FT.

10.TOTAL SEED 3.5#/1000 SQ. FT. 11.TOTAL MULCH 230#/1000 SQ. FT. 12.TOTAL OTHER MATERIALS, SEEDS, ETC. N/A

13.REMARKS

RECOMMENDED SEEDING DATES AFTER AUGUST 15. FOR AREAS WITH SLOPES >10%, FALL AND WINTER EROSION CONTROL AREAS, MULCH NETTING SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS.

STANDARDS FOR STABILIZING SITES FOR THE WINTER

IN THE EVENT THAT WINTERTIME WORK IS WARRANTED OR NECESSARY, THE FOLLOWING STANDARDS SHALL APPLY:

- STRIPS FROM SLOUGHING DURING FLOW CONDITIONS.
- AND WINTER.
- RIP RAP AS DESCRIBED IN ITEM IV OF THIS STANDARD
- SLOPE FACE.
- DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.
- AS DESCRIBED IN ITEM III OF THIS STANDARD.
- INTO THE DISTURBED SOIL.
- DISTURBED SOIL.

1. STANDARD FOR THE TIMELY STABILIZATION OF DITCHES AND CHANNELS: THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE ALL STONE-LINED DITCHES AND CHANNELS ON THE SITE BY NOVEMBER 15. THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE ALL GRASS-LINED DITCHES AND CHANNELS ON THE SITE BY SEPTEMBER 15. IF THE CONTRACTOR FAILS TO STABILIZE A DITCH OR CHANNEL TO BE GRASS-LINED BY SEPTEMBER 15. THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE DITCH FOR LATE FALL AND WINTER.

I. INSTALL A SOD LINING IN THE DITCH. THE CONTRACTOR SHALL LINE THE DITCH WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING THE SOD WITH JUTE OR PLASTIC MESH TO PREVENT THE SOD

II. INSTALL A STONE LINING IN THE DITCH. THE CONTRACTOR SHALL LINE THE DITCH WITH STONE RIPRAP BY NOVEMBER 15. THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH. IF NECESSARY, THE CONTRACTOR SHALL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO AS TO PREVENT THE STONE LINING FROM REDUCING THE DITCH'S CROSS-SECTIONAL AREA.

2. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES: THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE CONTRACTOR SHALL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE DEPARTMENT WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 10% (10H: 1V) TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL

I. STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MESH. BY OCTOBER 1 THE CONTRACTOR SHALL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE CONTRACTOR SHALL MONITOR GROWTH OF THE RYE OVER THE NEXT 45 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 15, THEN THE CONTRACTOR SHALL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM III OF THIS STANDARD OR WITH STONE

II. STABILIZE THE SLOPE WITH SOD. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR SHALL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H: 1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

III. STABILIZE THE SLOPE WITH WOOD WASTE COMPOST. THE CONTRACTOR SHALL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE CONTRACTOR SHALL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE CONTRACTOR SHALL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H: 1V) OR HAVING GROUNDWATER SEEPS ON THE

IV. STABILIZE THE SLOPE WITH STONE RIP RAP. THE CONTRACTOR SHALL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO

3. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOIL: BY SEPTEMBER 15, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.

I. STABILIZE THE SOIL WITH TEMPORARY VEGETATION. BY OCTOBER 1. THE CONTRACTOR SHALL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1.000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1.000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE CONTRACTOR SHALL MONITOR THE GROWTH OF THE RYE OVER THE NEXT 45 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE CONTRACTOR SHALL MULCH THE AREA FOR OVER-WINTER PROTECTION

II. STABILIZE THE SOIL WITH SOD. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH

III. STABILIZE THE SOIL WITH MULCH. BY NOVEMBER 15, THE CONTRACTOR SHALL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1,000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE CONTRACTOR SHALL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE CONTRACTOR SHALL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE



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