<u>EROSION AND SEDIMENT CONTROL PLAN</u> **LEGEND** PROPOSED EXISTING Prepared For: THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER THE EXPANSION OF THE PARK DANFORTH AT 777 STEVENS AVENUE IN PORTLAND, MAINE. THIS PLAN IS BASED ON THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION, BEST MANAGEMENT PRACTICES, MARCH ---- 2003. Home For The Aged 777 Stevens Avenue GRANITE MONUMENT INLET SEDIMENT Portland, Maine 04103 CONTROL CONTROL DEVICE (TYP.) <u>A. PROPOSED DEVELOPMENT</u> Tel.: 207-797-7710 DEVICE (TYP.) CATCHBASIN Applicant: THE PROJECT CONSISTS OF THE CONSTRUCTION OF A FIVE-STORY, 21,777 SQUARE FOOT BUILDING. THE BUILDING WILL INCLUDE 54 APARTMENT UNITS, A PARKING GARAGE, A GARAGE MANHOLE The Park Danforth STABILIZED LEVEL MECHANICAL ROOM AND SERVICE CORE. THE 4.16-ACRE PARCEL CURRENTLY CONSISTS OF BUILDING AND A PARKING LOT; 17.4% OF THE EXISTING SITE IS IMPERVIOUS. THE CONSTRUCTION ENTRANCE 777 Stevens Avenue PROPOSED IMPERVIOUS LOT IMPERVIOUS IS 3.05-ACRES OR 13.3% OF THE SITE. Portland, Maine 04103 **-HYDRANT** INLET SEDIMENT Tel.: 207-797-7710 CONTROL DEVICE (TYP.) <u>B. EROSION CONTROL PRACTICES/TEMPORARY MEASURES</u> UTILITY POLE 0 Prepared By: **EROSION CONTROI** MITCHELL & ASSOCIATES WATER VALVE THE FOLLOWING TEMPORARY MEASURES TO CONTROL EROSION AND SEDIMENTATION SHALL BE UTILIZED: \otimes W \vee FENCE (TYP.) Landscape Architects The Staples School EACH GROUND AREA, OPENED OR EXPOSED, WHETHER DIRECTLY OR INDIRECTLY DUE TO THE DEVELOPMENT, SHALL BE MINIMIZED AND SHALL BE STABILIZED WITHIN 15 DAYS OF ESC FENCE 70 Center Street INITIAL DISTURBANCE OF SOIL AND SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN DAYS OF FINAL GRADING. THIS STATEMENT APPLIES TO DISTURBED AREAS BEYOND THE Portland, Maine 04101 LIMITS OF THE PROPOSED BUILDING. EXPOSED AREAS SHALL BE STABILIZED PRIOR TO A RAIN EVENT. CONTROL DEVICE Tel.: 207-774-4427 TEMPORARY SOIL STABILIZATION SHALL BE EITHER BY TEMPORARY MULCHING, TEMPORARY SEEDING, PERMANENT BASE GRAVEL, OR ASPHALT BINDER COURSE AS FOLLOWS: TEMPORARY SEEDING: SEED SHALL BE AROOSTOOK RYE APPLIED AT 2.60#/1000 SF. LIME SHALL BE AGRICULTURAL GROUND LIMESTONE APPLIED AT 13.8#/1000 SF. FERTILIZER SHALL BE 10-10-10 CLASSIFICATION APPLIED AT 13.8#/1000 SF. MULCH SHALL CONSIST OF HAY AND STRAW MULCH AND SPREAD EVENLY AT A RATE OF 70-90#/1000 SF. TEMPORARY SEEDINGS SHALL ONLY BE MADE BETWEEN APRIL 15 AND OCTOBER 1, AND SHALL NOT BE PLACED OVER SNOW. TEMPORARY MULCHING: MULCH SHALL CONSIST OF CHOPPED HAY OR STRAW MULCH AND SPREAD BY MECHANICAL BLOWER EVENLY AT A RATE OF 150-200#/1000 SF. TEMPORARY MULCH SHALL BE REMOVED PRIOR TO PERMANENT SOIL STABILIZATION. MULCH MUST NOT BE PLACED OVER SNOW. SNOW SHALL BE REMOVED PRIOR TO MULCHING. PERMANENT BASE GRAVEL: BASE GRAVEL UNDER PAVEMENT SHALL BE SUITABLE AS TEMPORARY SOIL STABILIZATION UNDER THE FOLLOWING CONDITIONS: STABILIZED CONSTRUCTION \ a) SLOPES SHALL BE LESS THAN EIGHT PERCENT, NTRANCE b) GRAVEL SHALL MEET THE SPECIFICATIONS FOR BASE OR SUBBASE GRAVEL FOR THE PROPOSED COMPLETED PAVEMENT. C. EROSION CONTROL PRACTICES/PERMANENT MEASURES THE FOLLOWING PERMANENT MEASURES TO CONTROL EROSION AND SEDIMENTATION SHALL BE UTILIZED: STABILIZED CONSTRUCTION ENTRANCE (TYP.) . PERMANENT SEEDING SHALL BE PERFORMED DURING CONSTRUCTION OPERATIONS AS EACH DISTURBED AREA HAS BEEN BROUGHT TO FINISH GRADE. PERMANENT SEEDINGS SHALL BE MADE AS DORMANT SEEDING AFTER THE FIRST KILLING FROST. DORMANT SEEDING AND MULCH SHALL BE USED AT TWO TIMES THE PERMANENT SEEDING AND MULCHING RATE SHOWN BELOW FOR BOTH LAWN AS WELL AS EMBANKMENTS. SEED, LOAM, LIME, FERTILIZER AND MULCH ARE TO BE AS FOLLOWS: SEED: THE SEED MIXTURE SHALL CONSIST OF SEED PROPORTIONED BY WEIGHT. ALL SEED SHALL BE FRESH, CLEAN, "NEW CROP" SEED. HARMLESS INERT MATTER AND WEED INLET SEDIMENT SEEDS SHALL BE PERMITTED UP TO ONE PERCENT OF THE GROSS WEIGHT OF EACH VARIETY OF SEED. ALL SEED SUPPLIED SHALL BE PACKED IN APPROVED CONTAINERS CONTROL DEVICE (TYP.) BEARING THE MANUFACTURER'S MANE AND ANALYSIS OF CONTENTS. THE FOLLOWING MATERIALS AND APPLICATION RATES SHALL BE REQUIRED FOR PERMANENT SEEDING: 0.69#/1000 SF CREEPING RED RESCUE: 0.57#/1000 SF KENTUCKY BLUEGRASS: PROPOSED MANHOLE (DMH#2) PERENNIAL RYEGRASS: 0.46#/1000 SF 0.12#/1000 SF REDTOP: 1.84#/1000 SF TOTAL: LEXISTING 10-INCH STORM DRAIN. LOAM: SHALL BE FREE OF GRASSES, ROOTS, LARGE STONE AND INORGANIC DEBRIS. PLACE LOAM AT FOUR INCHES MINIMUM DEPTH OVER ALL DISTURBED AREAS. FINAL GRADING OF ALL LAWN AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT BEFORE SEEDING. LIME: LIME SHALL BE AGRICULTURAL GROUND LIMESTONE AND APPLIED AS PER RECOMMENDATION OF A STATE COMMERCIAL SOIL TESTING LABORATORY. FERTILIZER: INLET SEDIMENT FERTILIZER SHALL BE 10-20-20 CLASSIFICATION AND APPLIED AS PER RECOMMENDATION OF A STATE COMMERCIAL SOIL TESTING LABORATORY. CONTROL DEVICE (TYP. MULCH: MULCH SHALL CONSIST OF HAY OR STRAW MULCH. MULCH SHALL BE SPREAD EVENLY AT A RATE OF TWO AND ONE HALF TONS PER ACRE OVER ALL SEEDING. AFTER APPLICATION, THE MULCH SHALL BE THOROUGHLY WETTED. IN STEEP AREAS, THE MULCH SHALL BE HELD IN PLACE BY THE USE OF JUTE EROSION CONTROL NETTING OR APPROVED ALTERNATIVE NETTING MATERIAL. NOTE: ALL EXPOSED SOIL MUST BE COVERED REGARDLESS OF MULCHING RATES SPECIFIED. Φ THE CONTRACTOR SHALL MAINTAIN THE SEEDED AND MULCHED AREAS UNTIL FINAL ACCEPTANCE OR THE WORK. MAINTENANCE SHALL CONSIST OF PROVIDING PROPER WATERING, PROTECTION AGAINST TRAFFIC AND REPAIRING ANY AREAS DAMAGED DUE TO WIND, WATER, EROSION, FIRE OR OTHER CAUSES, SUCH DAMAGED AREAS SHALL BE REPAIRED TO REESTABLISH THE CONDITION AND GRADE OF THE SOIL PRIOR TO SEEDING AND SHALL THEN BE REFERTILIZED, RESEEDED AND REMULCHED. EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN I ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. LIMIT THE EXPOSED AREA TO 'HOSE AREAS IN WHICH WORK IS EXPECTED TO BE UNDERTAKEN DURING THE PROCEEDING IS DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. HAY AND STRAW MULCH RATE SHALL BE A MINIMUM OF 150 LBS./1,000 S.F. (3 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. THE CONTRACTOR SHALL INSTALL ANY ADDED MEASURES te WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE, DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION. <u>E. CONSTRUCTION SEQUENCE</u> THE GENERAL SEQUENCE OF WORK SHALL BE AS FOLLOWS: INSTALL EROSION CONTROL DEVICES. (SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE AND OR SEDIMENT BARRIER.) INLET SEDIMENT 2. TEMPORARILY STABILIZE DISTURBED AREAS BY MULCHING ALL EXPOSED SOIL WITHIN 15 DAYS OF INITIAL DISTURBANCE. CONTROL DEVICE (TYP. INSTALL STORMWATER SYSTEM; COMPLETE SITE CONSTRUCTION WORK; CONSTRUCT PAVED ACCESS AND PARKING AREAS; . INSTALL PERMANENT VEGETATION ON ALL EXPOSED AREAS WITHIN 15 DAYS OF FINAL GRADING; AND OCTOBER 17, 2014 PERFORM CONTINUING MAINTENANCE ON ALL EROSION AND SEDIMENTATION CONTROL DEVICES AND MEASURES. TOP HOOD=115.6 <u>F. SITE INSPECTION & MAINTENANCE</u> WEEKLY INSPECTIONS, AS WELL AS ROUTINE INSPECTIONS FOLLOWING RAINFALLS OF 0.5" OVER A CONSECUTIVE 24-HOUR PERIOD, SHALL BE CONDUCTED BY THE SITE CONTRACTOR Issued For: OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES UNTIL FINAL ACCEPTANCE OF THE PROJECT. NECESSARY REPAIRS SHALL BE MADE TO CORRECT UNDERMINING OR PERMITTING DETERIORATION. FINAL ACCEPTANCE SHALL INCLUDE A SITE INSPECTION TO VERIFY THE STABILITY OF ALL DISTURBED AREAS AND SLOPES. UNTIL FINAL INSPECTION, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL IMMEDIATELY BE CLEANED, AND REPAIRED BY THE SITE CONTRACTOR AFTER STORM EVENTS. DISPOSAL OF ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR. 2 EACH DUMP Revisions: CONTINUED TEMPORARY MAINTENANCE AND LONG TERM PROVISIONS FOR PERMANENT MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES AFTER ACCEPTANCE NOV. 25, 2014: Per City of Portland OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE PARK DANFORTH. **Staff Review Comment** (1/4" NYLON ROPE, 2" 50' MINIMUM JAN. 5, 2015: Per City of Portland **Staff Review Comments** MAR. 25, 2015: Site Pricing Set REBAR OR 2" X 2" WOODEN STAKE 1.5' - 2' IN GROUND. MAX SPACING OF 6' WOVEN FABRIC INSTALLATION DETAIL BAG DETAIL EXISTING GROUND ----PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZATION CONSTRUCTION ENTRANCE AND PUBLIC GEOTEXTILE FABRIC MIRAFI ----Reproduction or reuse of this document RIGHT-OF-WAY 600X OR APPROVED EQUAL without the expressed written consent of Mitchell & Associates is prohibited. 50' MINIMUM I" REBAR FOR BAG -REMOVAL FROM INLET LESTER S. **EROSION AND SEDIMENT** BERRY, JR. CONTROL PLAN No. 3341 Scale: 1" = 40' OPTIONAL METAL HANGING FRAME FOR TRAFFIC **CONSTRUCTION SPECIFICATIONS:** STONE SIZE: AASHTO DESIGNATION M 43, SIZE NO. 2 (2.5" TO 1.5"). USE CRUSHED STONE. CONDITIONS - ROLL END STAKES I. SILT FENCE TO BE INSTALLED PARALLEL TO EXISTING CONTOURS DOWNSLOPE FROM AREAS OF LENGTH: AS EFFECTIVE, BUT NOT LESS THAN 50 FEET. SOIL DISTURBANCE. 3. THICKNESS: NOT LESS THAN EIGHT (8) INCHES. f. MIDTH: NOT LESS THAN FULL WIDTH OF ALL POINT OF INGRESS OR EGRESS. -FILTER FABRIC 2. SILT FENCE TO BE SECURELY ATTACHED TO THE UPSLOPE SIDE OF THE SUPPORTING STAKES. 5. WASHING: WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED 3. BOTTOM 4 TO 6 INCHES OF SILT FENCE TO BE BURIED IN SLOPE AND BACKFILLED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE COMPACTED SOIL PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH THE USE OF SAND BAGS, METCALF Sheet No.: GRAVEL, BOARDS OR OTHER APPROVED METHODS. 4. INSPECTION SHALL BE MADE AFTER EVERY RAINFALL WITH REMOVAL OF EXCESSIVE SEDIMENT 6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR

FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH

STABILIZED CONSTRUCTION ENTRANCE

ADDITIONAL STONES AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO

TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST

INLET SEDIMENT CONTROL DEVICE

- WOODEN STAKES

END POST OVERLAP DETAIL

NOT TO SCALE

AND REPAIR OF THE FENCE ACCOMPLISHED PROMPTLY.

EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

SILT FENCE

NOT TO SCALE

5. SILT FENCE AND ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS PERMANENT