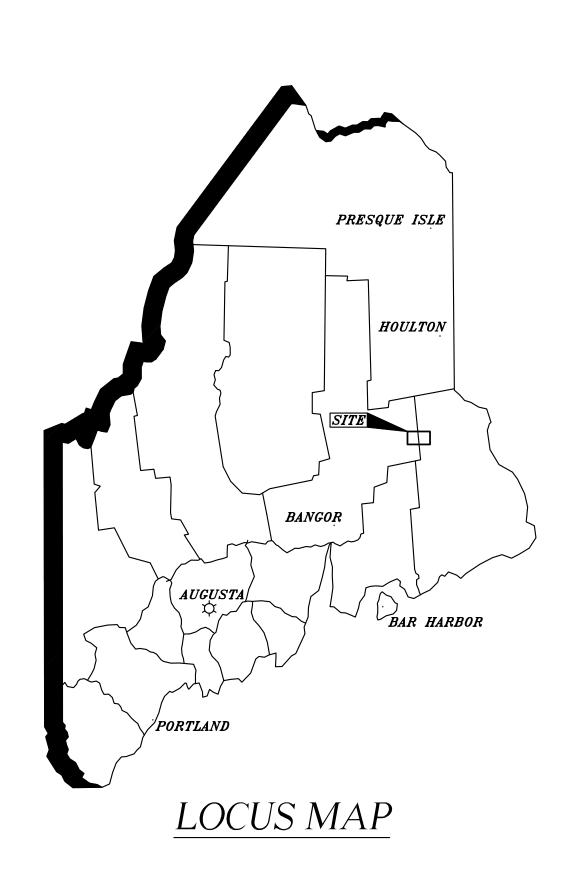
PERMIT DESIGN SUBMITTAL

BOWERS MOUNTAIN WIND PROJECT

CARROLL PLANTATION, PENOBSCOT COUNTY KOSSUTH TOWNSHIP, WASHINGTON COUNTY PREPARED FOR CHAMPLAIN WIND, LLC

72380E

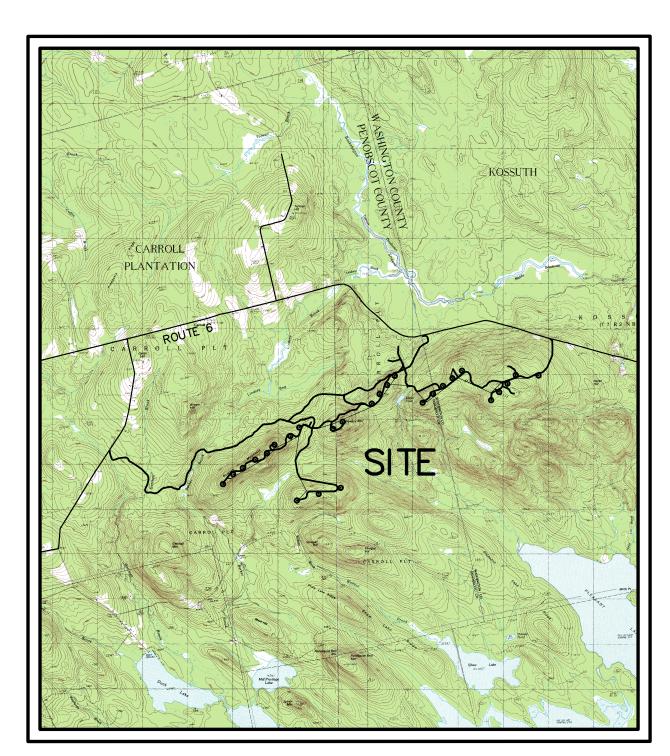
MARCH 1, 2011



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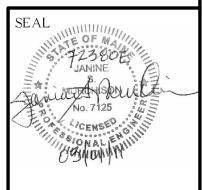
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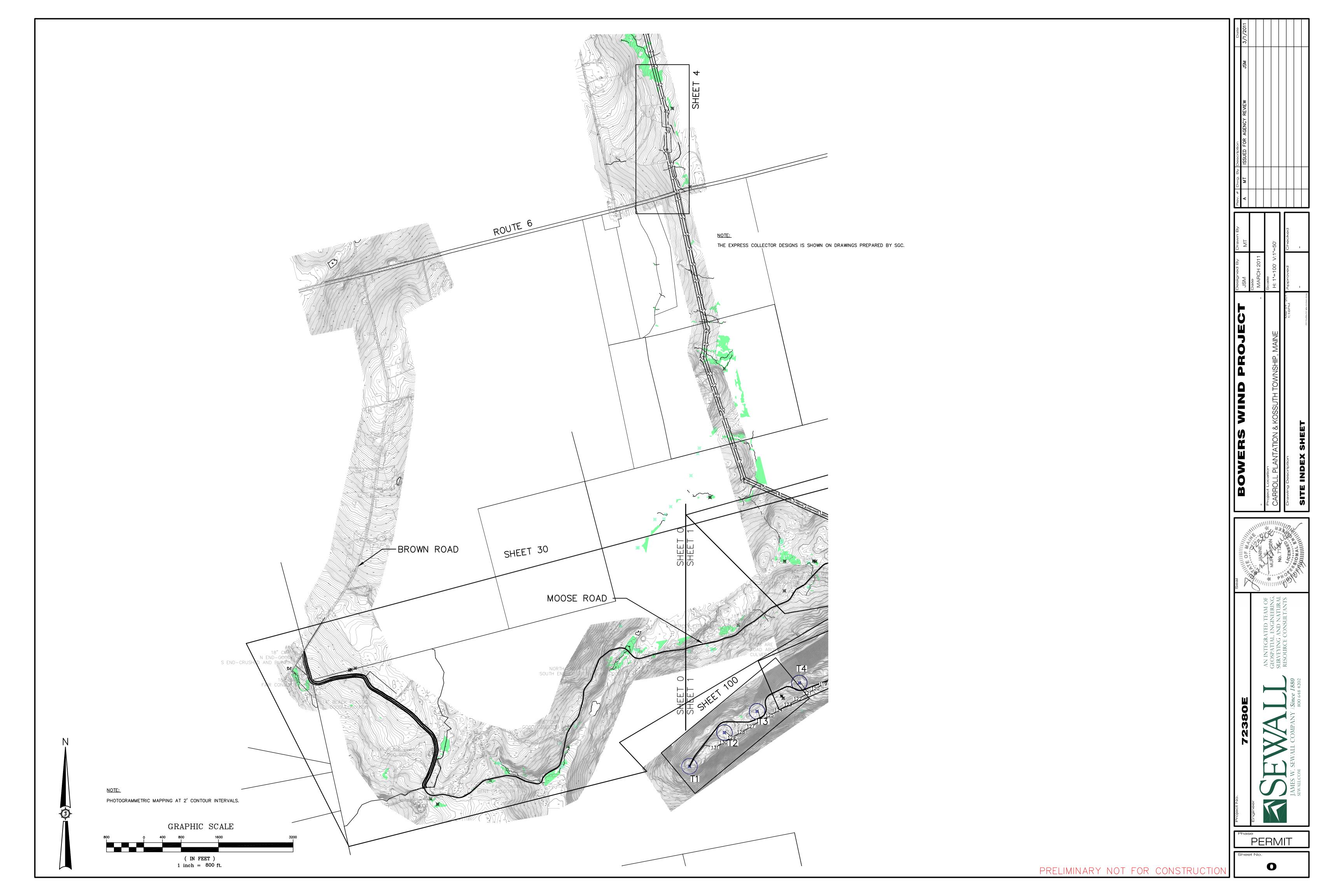


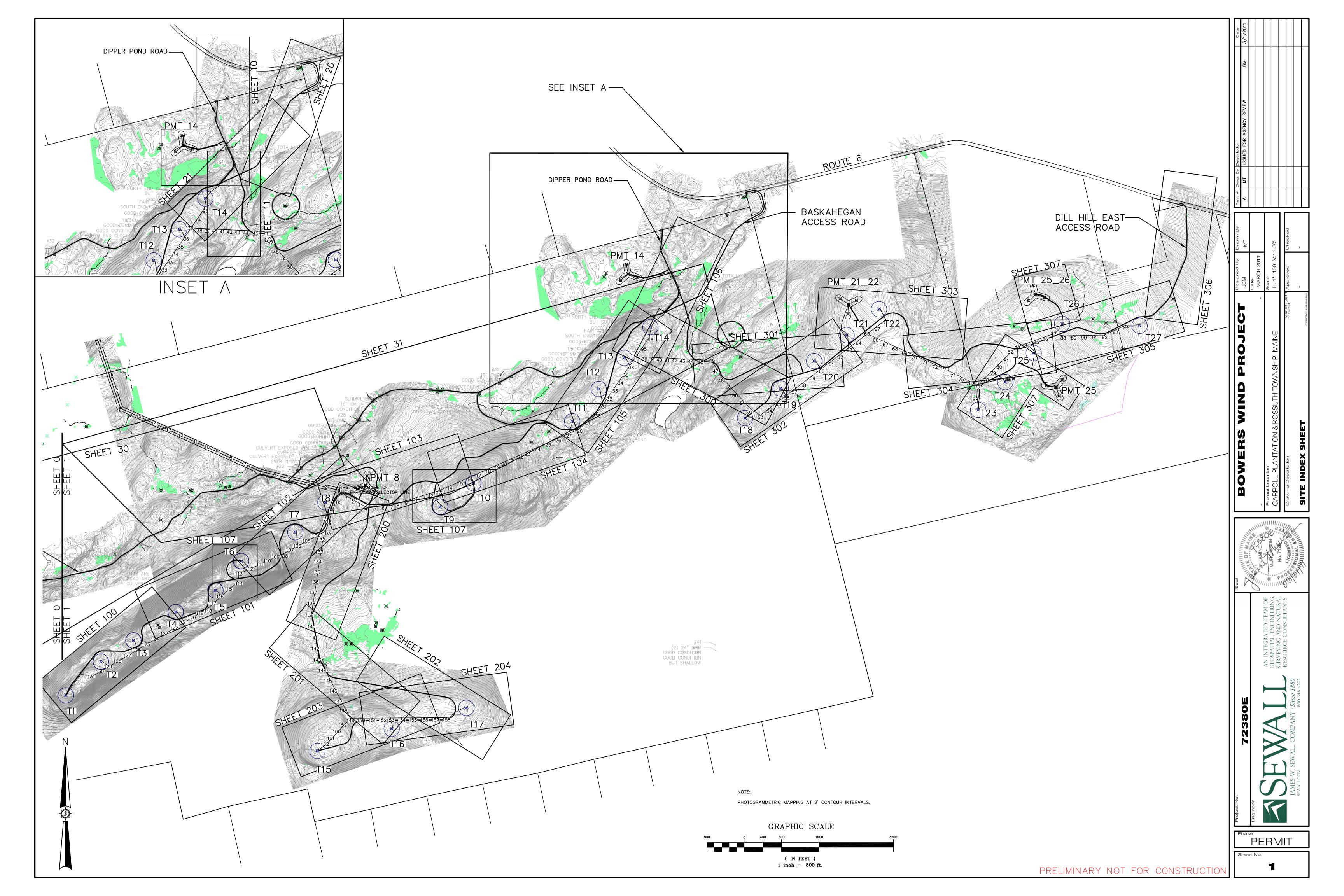
VICINITY MAP

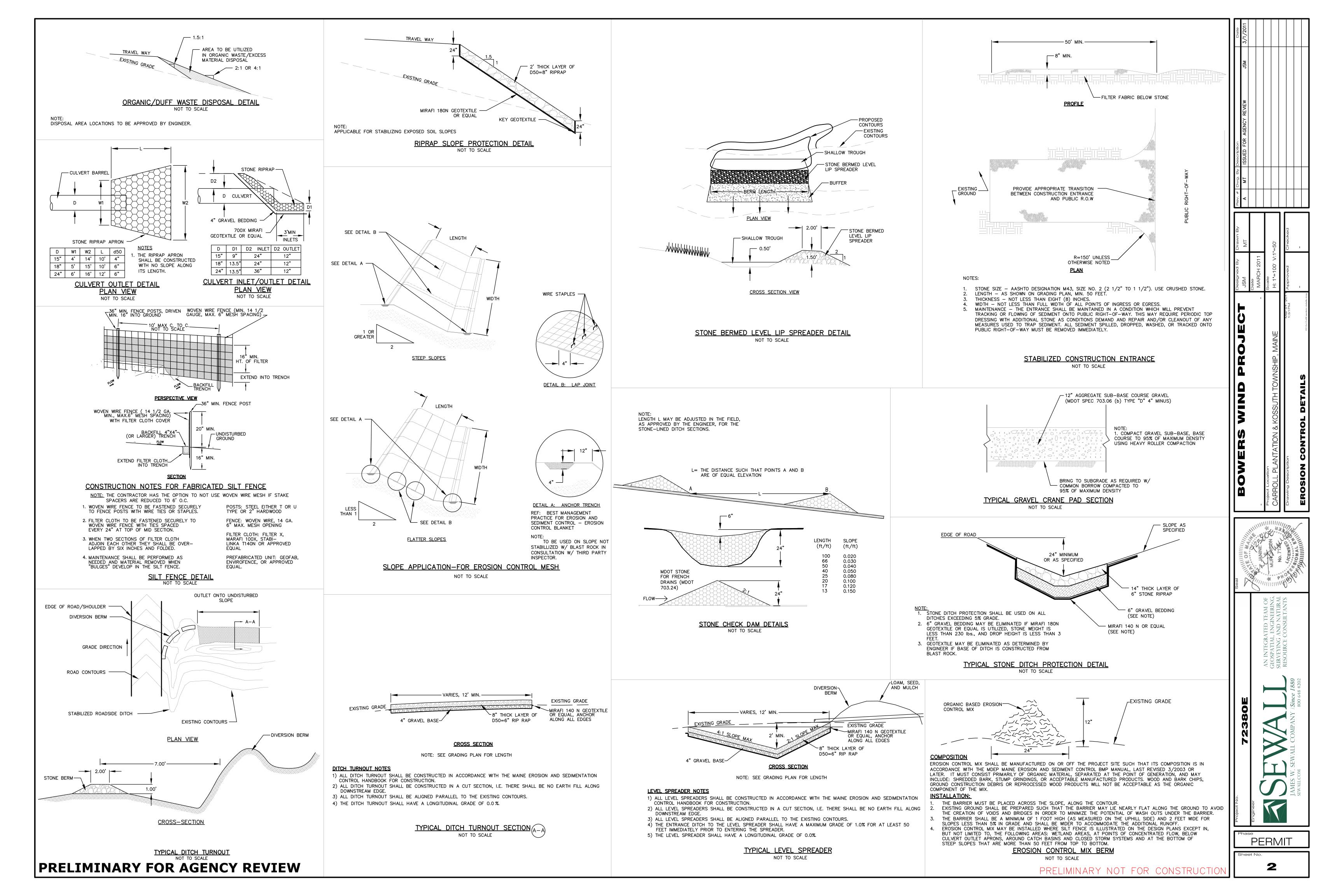












SPECIFIC MAINTENANCE INSTRUCTION: GENERAL NOTES & CONSTRUCTION SPECIFICATIONS BLAST ROCK WHERE INDICATED NOTE: PERMANENT ACCESS ROAD STRAW/HAY BALE BARRIERS, SILT FENCE, FILTER BARRIERS- MAKE ANY REQUIRED 1. DEPTH OF GRAVEL TO BE DETERMINED REPAIRS IMMEDIATELY. REPLACE W/ TEMPORARY CHECK DAM IF THERE IS UNDERCUTTING ---12-18" COMPACTED 4" MINUS STABILIZATION WILL BE DONE WITHIN 7 DAYS OF GRADING OR WITHIN 30 DAYS BASED ON SUBGRADE CONDITIONS AND AT CENTER OR EDGES, OR IF LARGÉ VOLUMES OF WATER ARE IMPOUNDED. REPLACE GRAVEL OF INITIAL SOIL DISTURBANCE. AS APPROVED BY ENGINEER. DECOMPOSED OR INEFFECTIVE FABRIC IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AFTER SLOPES COMPOSED OF STONES 4" OR EACH STORM. DEPOSITS REMAINING IN PLACE AFTER SILT FENCE OR FILTER FABRIC IS 1.5:1 (RIPRAPPED) MAX. DITCHING AS EVERY WEEK AND AFTER PRECIPITATION PRODUCING THE EQUIVALENT OF GREATER SHALL NOT BE COVERED WITH 1/4"/FT (TYP.) NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM W/ EXISTING GRADE, PREPARED REQUIRED 2 2:1 (TOPDRESS WITH NATIVE CAST ON LOAM & SEED. ONE-HALF INCH OF RAINFALL, THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES. MAINTENANCE SHALL INCLUDE, BUT NOT BE TOPSOIL & SEEDED) (TYP.) LIMITED TO, REMOVAL OF SEDIMENT FROM SILT FENCES IF SOIL ACCUMULATES TO CULVERTS - CULVERTS SHOULD BE CHECKED MONTHLY FOR ACCUMULATION OF DEBRIS. WITH E&S MATTING AND/OR IF NEEDED THEY SHOULD BE DREDGED. A DEPTH OF ONE-HALF THE FABRIC HEIGHT. RIPRAP OUTLET PROTECTION TOTAL ACCESS POAD (AT CULVERT OUTLETS) * A STORMWATER MAINTENANCE LOG SHOULD BE MAINTAINED TO DOCUMENT COMPLIANCE ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN WITH THE SUGGESTED SCHEDULE. ACCORDANCE WITH "MAINE EROSION & SEDIMENT CONTROL: BEST MANAGEMENT TYPICAL ACCESS ROAD PRACTICES," BY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH -0.5'/1' BACKSLOPE IN EXISTING GRADE WINTER CONSTRUCTION NOTES ROCK CUTS NOT TO SCALE 1. THE WINTER CONSTRUCTION PERIOD SHALL BE FROM NOVEMBER 1 THROUGH APRIL 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES, INCLUDING MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL. 35.0' TEMPORARY CRANE ACCESS (DURING CONSTRUCTION) 2. WHERE FEASIBLE, A MINIMUM 25-FT BUFFER SHALL BE MAINTAINED BETWEEN SILT FENCE OR OTHER PERIMETER CONTROLS AND ACCESS ROADS TO ALLOW FOR SNOW CLEARING MECHANICAL STABILIZATION SHALL BE INSTALLED ON ALL SOIL SLOPES WHICH HAVE A SLOPE GREATER THAN 3:1. PERMANENT ACCESS ROAD DURING WINTER CONSTRUCTION, A DOUBLE ROW OF SEDIMENT BARRIERS (I.E. SILT FENCE EROSION CONTROL MEASURES SHALL BE INSPECTED ON A MONTHLY BASIS ONCE 12-18" COMPACTED BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY FINAL STABILIZATION IS COMPLETE, BY THE INSPECTING ENGINEER. THIS NATURAL RESOURCE AND THE DISTURBED AREA. DURING FROZEN CONDITIONS, SEDIMENT 4" MINUS GRAVEL INSPECTION IN NO WAY REDUCES OR ELIMINATES THE CONTRACTOR'S BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED RESPONSIBILITY TO ADHERE WITH VERBAL OR WRITTEN REQUIREMENTS OF DEP, SEDIMENT BARRIERS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY DITCHING AS ARMY CORPS, EPA, OR OTHER JURISDICTIONAL AGENCIES. 1/4"/FT (TYP.) BALES OR SILT FENCES. REQUIRED 4. DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS. AFTER EACH INSPECTION OF EROSION CONTROL MEASURES, AN INSPECTION REPORT DETAILING THE SCOPE OF THE INSPECTION, NAME(S) OF PERSONNEL ACCEPTABLE OVER-WINTER STABILIZATION SHALL CONSIST OF VEGETATION (MIN. 75% CONDUCTING THE INSPECTION, DATE, MAJOR OBSERVATIONS, AND ACTIONS MATURE), MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, RIPRAP OR GRAVEL TAKEN, SHALL BE MADE AND KEPT ON FILE FOR THREE YEARS AFTER THE WHERE INDICATED COMPACTED FILL 6. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT REQUIRE EARTH TYPICAL TURBINE PAD/CRANE PATI CONSTRUCTION SEQUENCE & PHASING NOTES DISTURBANCE (e.g., CONSTRUCTION FENCE AND SILT FENCE) SHALL BE INSTALLED PRIOR -0.5'/1' BACKSLOPE IN 1.5:1 (RIPRAPPED) MAX. 2:1 NOT TO SCALE TO THE GROUND FREEZING. DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY ROCK CUTS (TOPDRESS WITH NATIVE TOPSOIL & CONSIST OF EROSION CONTROL MIX BERMS. EXISTING GRADE SEEDED) (TYP.) WITH E&S MATTING PHASE 1: AND/OR RIPRAP OUTLET FROM NOVEMBER 1 TO APRIL 15, MULCH SHALL BE INSTALLED AT DOUBLE THE NORMAL CLEARING OF VEGETATION AND STOCKPILING OF TOPSOIL PROTECTION (AT CULVERT OUTLETS) RATE. NETTING OR OTHER MEANS APPROVED BY THE ENGINEER SHALL BE USED TO MINIMIZE WIND EROSION OF MULCHING. INSTALL EROSION CONTROL MEASURES PRIOR TO SOIL DISTURBANCE. 8. PRIOR TO STABILIZATION, ICE AND SNOW SHALL BE REMOVED TO LESS THAN 1-IN. FLAG & MARK R.O.W. OF ACCESS ROADS, CRANE PATHS, & COLLECTION LINES, 9. IF VEHICLE TRAFFIC IS ANTICIPATED AROUND STRUCTURES UNDER CONSTRUCTION, THE WITH THE OTHER CONSTRUCTION AREAS TO FOLLOW. DEPTH OF GRAVEL TO BE DETERMINED BASED ON AREA SHALL BE STABILIZED WITH STONE. SUBGRADE CONDITIONS AND AS APPROVED BY **FNGINFFR** 10. EXCAVATED FROZEN SOILS SHALL BE STOCKPILED IN LEVEL AREAS AND SHALL NOT BE 2. DITCHES SHALL BE CONSTRUCTED TO NOT INTERCEPT PILE REMAINING SMALL BRUSH IN SPECIFIC LOCATIONS & AT DESIGNATED USED UNTIL THAWED. STOCKPILES SHALL BE ENCIRCLED WITH EROSION CONTROL MIX GROUND WATER TABLE. DITCH DEPTH SHALL BE 12"-18", UNDISTURBED-UNDISTURBED-DISTANCES (40 TO 100 FT, DEPENDING ON FOREST & FOLIAGE DENSITY) FROM BACKFILL EXCEPT AS APPROVED BY THE ENGINEER. FARTH OF FARTH O ONE ANOTHER WITHIN THE R.O.W. COMPACTED COMPACTED 11. EXCAVATION OF SOILS IN SHALLOW GROUNDWATER AREAS SHALL BE MINIMIZED IF AT ALL 35' TEMPORARY CRANE PATH POSSIBLE DURING WINTER, AND LIMITED TO ONLY THOSE AREAS THAT CAN BE STABILIZED BACKFILL 1.5:1 (RIPRAPPED) MAX.— EACH BRUSH PILE TO BE CHIPPED. BLAST ROCK WHERE INDICATED DURING THE SAME DAY. OR 20' ACCESS ROAD 2:1 (TOPDRESS WITH NATIVE CHIPPED MATERIAL TO BE BROADCAST AS AN EPSC MEASURE. BACKFILL TOPSOIL & SEEDED) (TYP.) 12. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF SPRING DITCHING AS WITH E&S MATTING AND/OR DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE LINE 1/4"/FT (TYP.) HAUNCHING REQUIRED STUMPS TO BE REMOVED FROM LOCATIONS WHERE STRUCTURES (i.e., TURBINES, RIPRAP OUTLET PROTECTION BEDDING 4" BEDDING SUBSTATION, O&M BUILDING, STORMWATER MANAGEMENT SYSTEMS) ARE TO BE (AT CULVERT OUTLETS) A. IF NO PRECIPITATION IS FORECAST WITHIN 24 HOURS AND WORK WILL RESUME IN THE INSTALLED/CONSTRUCTED. STUMPS TO BE CHIPPED ON-SITE & USED AS AN 1.5 MIN. SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY. 12-18" COMPACTED EPSC MEASURE. 4" MINUS GRAVEL STONE DITCH-DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS BUILDING FOUNDATIONS PROTECTION AS EXISTING GRADE LOW GROWING VEGETATION TO REMAIN, WHERE FEASIBLE (e.g., WITHIN THE AND OPEN UTILITY TRENCHES. RIGID PIPE FLEXIBLE PIPE REQUIRED OVERHEAD COLLECTION LINE R.O.W.) TO PROVIDE SOIL STABILITY. 13. THE ENGINEER SHALL MAKE NECESSARY ADJUSTMENTS TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND ASSOCIATED EROSION PREVENTION AND SEDIMENT CONTROL TYPICAL UPHILL CUT ROAD EXISTING TOPSOIL IN AREAS OF DEVELOPMENT TO BE STOCKPILED ON-SITE FOR GENERAL NOTES MEASURES (e.g., CONSTRUCTION FENCE AND SILT FENCE) TO ACCOMMODATE ANTICIPATED USE IN FINAL STABILIZATION OF ROAD SHOULDERS, TURBINE CLEARINGS AND LAY NOT TO SCALE DOWN AREAS. *AASHTO SOIL CLASSIFICATIONS USED BEDDING SHALL BE CLASS I—A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I—B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION) 14. AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCE. IF NOT STABILIZED WITH A TOPSOIL STOCKPILE AREAS SHALL BE PROTECTED FROM EROSION AND 35' TEMPORARY CRANE PATH____ MINIMUM OF 75% MATURE VEGETATION, SHALL BE MULCHED BY DECEMBER 1 AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL COVER. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE BLAST ROCK WHERE INDICATED OR 20' ACCESS ROAD THIS WILL INCLUDE ENCIRCLING DOWNGRADIENT SIDES OF STOCKPILES WITH SILT DURING WINTER CONSTRUCTION A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE PLACED FENCE AND AN EROSION CONTROL MIX BERM. SLOPES SHALL BE LEFT IN A WITH ASTM D 698. CLASS III AND IV—A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT. BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. NATURAL RESOURCE ROUGHENED CONDITION TO REDUCE RUNOFF VELOCITIES AND EROSION. DITCHING AS CROSSINGS SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE EXISTING GRADE 1/4"/FT (TYP.) FROM THE RESOURCE. REQUIRED 10. STOCKPILES UNDISTURBED MORE THAN 30 DAYS SHALL BE SEEDED WITH WINTER RYE, OR 15. STOCKPILES OF SOIL SHALL BE MULCHED FOR OVER-WINTER PROTECTION WITH HAY OR MULCHED WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR COVERED WITH A 4-INCH STRAW AT TWICE THE NORMAL RATE OR WITH A 4-INCH LAYER OF EROSION CONTROL LAYER OF EROSION CONTROL MIX. 12-18" COMPACTED STONE DITCH-ALL TRENCH EXCAVATIONS SHALL BE SLOPED SHORED, SHEETED, BRACED, OR OTHERWISE 4" MINUS GRAVEL PROTECTION AS REQUIRED SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS) FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. FINAL COVER PHASE 2: CONSTRUCTION OF ACCESS ROADS, CRANE 16. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE TYPICAL CUT SECTION WITH DITCHES ON BOTH SIDES CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING OVER PIPE SHALL BE MIN. 24". PATHS, & LAY DOWN/STAGING AREAS AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL NOT TO SCALE INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED. FOLLOWING CULVERT TRENCH AND BEDDING 20-FT WIDE ACCESS ROADS EXCEPT 16-FT WIDE ON A PORTION OF DILL HILL & THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL, IN 1.5:1 (RIPRAPPED) MAX. 2:1 — 35-FT WIDE CRANE PATHS TO BE CONSTRUCTED. USE OF EXISTING/UPGRADED THE SPRING, INSPECT AND REPAIR ANY DAMAGES OR BARE SPOTS. NOT TO SCALE 35' TEMPORARY CRANE PATH____ (TOPDRESS WITH NATIVE LOGGING ROADS WHERE APPLICABLE. TOPSOIL & SEEDED) (TYP.) OR 20' ACCESS ROAD WITH E&S MATTING AND/OR SURVEY CREWS TO STAKE THE ROADWAY R.O.W. BOUNDARIES & CENTERLINE TO TEMPORARY SEEDING NOTES RIPRAP OUTLET PROTECTION GUIDE OPERATORS. ADDITIONAL STAKING & MARKING AT LOCATIONS WHERE 1/4"/FT (TYP.) (AT CULVERT OUTLETS) STORMWATER CONTROL MEASURES WILL BE INSTALLED. 1. DISTURBED AREAS TO BE LEFT IN ROUGH GRADED FORM FOR MORE THAN 30 DAYS BUT LESS THAN ONE GROWING SEASON SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED 3. STAKE PERIMETER OF LAY DOWN/STAGING AREAS. ALL TEMPORARY DISTURBED CUT & FILL AREAS EXISTING GRADE FROM EDGE OF TURBINE PAD AND LIMIT OF 2. APPLICATION RATES AND MATERIALS USED SHALL BE THE SAME AS FOR PERMANENT 12-18" COMPACTED GRADING TO BE PERMANENTLY STABILIZED WITH SEEDING EXCEPT SEED MIXTURE SHALL BE ANNUAL RYEGRASS. 4" MINUS GRAVEL BLAST ROCK, EROSION CONTROL MIX OR LOAM PHASE 3: CONSTRUCTION OF PERMANENT STORMWATER & SEED AND ALLOW TO NATURALLY PERMANENT SEEDING NOTES REVEGETATE. MANAGEMENT SYSTEMS TYPICAL FILL ROAD 1. DURING PERIODS FROM APRIL 15 TO SEPTEMBER 15, DISTURBED AREAS SHALL BE GRADING TO BE CONDUCTED IN ACCORDANCE WITH PERMITTED PERMANENT PERMANENTLY SEEDED WITH CONSERVATION SEED MIX (A MIXUTRE OF CREEPING RED STORMWATER MANAGEMENT DESIGN. FESCURE, REDTOP, TALL FESCURE, CLOVER AND ANNUAL RYE), AT A RATE OF 3.0 LB/1,000 SF. ONCE FINAL GRADES ARE ACHIEVED, EXPOSED SOIL SURROUNDING THE STORMWATER MANAGEMENT STRUCTURES TO BE PERMANENTLY STABILIZED WITH DORMANT SEEDING NOTES LOAM, SEED & MULCH OR WOODWASTE PER GUIDELINES AND SPECIFICATIONS. DURING PERIODS FROM SEPTEMBER 16 TO NOVEMBER 15, DISTURBED AREAS SHALL BE REVEGETATION: PLACE AN EVEN LAYER OF EROSION DORMANT SEEDED WITH WINTER RYE, 5 LB/1,000 SF. DURING PERIODS BETWEEN PHASE 4: CONSTRUCTION OF CRANE PADS NOVEMBER 15 AND APRIL 15, DISTURBED AREAS SHALL BE MULCHED AND IF NECESSARY, CONTROL MIX, ON-SITE GENERATED STABILIZED WITH EROSION CONTROL MESH. CRANE PADS TO BE CONSTRUCTED ONCE TURBINE FOUNDATIONS HAVE BEEN MATERIAL WITH ADEQUATE ORGANICS, OR LOAM AND SEED OVER ALL ESTABLISHED. DISTURBED AREAS TO PROMOTE NATIVE REVEGETATION. AFTER THE SUBGRADE IS ESTABLISHED, CRANE PAD TO BE CONSTRUCTED WITH CRUSHED AGGREGATE SPREAD & COMPACTED; MINOR GRADE ADJUSTMENTS MAY NEED TO OCCUR, WITH COMPLETION ONCE CRANE PADS MEET DESIGN CRANE PADS TO REMAIN IN PLACE FOR FUTURE MAINTENANCE & OPERATION. **FOUNDATION** EXPOSED SOIL SURROUNDING CRANE PADS & TURBINE FOUNDATIONS TO BE (20' ACCESS ROAD) STABILIZED WITH LOAM, SEED OR MULCH WOODWASTE PER GUIDELINES & — EXISTING GROUND SPECFICATIONS. ─ 75' X 100' CRANE PAD TO REMAIN 2:1 SIDE SLOPE -FILL WITH BLAST ROCK OR IF BLAST ROCK IS USED FOR FILL THEN GEO—TECH FABRIC SHALL BE USED ABOVE AS NECESSARY SUITABLE STRUCTURAL EROSION CONTROL MIX -12"-18"± PROCESSED ROCK -EXISTING GRADE AS APPROVED BY ONSITE ENGINEER. PHASE 5: CLEAN-UP & FINAL STABILIZATION (-2% SLOPE) COMMON FILL DEVOID OF -ORGANIC MATERIAL . UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL WORK AREAS TO BE CLEARED --->--->---EXISTING TOPSOIL IN AREAS OF DEVELPOMENT TO BE 1% UNUX AREAS OF OF CONSTRUCTION DEBRIS & OTHER MATERIALS. STOCKPILED ON-SITE FOR USE IN FINAL STABILIZATION OF TURBINE CLEARINGS AND LAYDOWN AREAS. SEEPAGE 2. SPECIFIC CLEAN-UP REQUIREMENTS TO INVOLVE: REMOVAL OF ALL TEMPORARY TYPCIAL TURBINE PAD STABILIZATION DETAIL WORK TRAILERS; REMOVAL OF MATERIAL & EQUIPMENT; DISPOSAL OF ALL RUBBISH RESULTING FROM CLEARING, CONSTRUCTION, & INSTALLATION; ROUGH GRADING & ROCK SANDWICH -SCALE: NTS STABILIZATION OF EMBANKMENTS MADE FOR CONSTRUCTION PURPOSES; FILLING OF (SEE DETAIL) EXCAVATIONS; & REPAIRING RUTS IN ACCESS ROADS. ROCK DRAINAGE TO BE GEO-TECH FABRIC WRAPPED IN NON-WOVEN . FINAL STABILIZATION TO INVOLVE RESPREADING OF STOCKPILED TOPSOIL MATERAL &(SEE DETAIL) GEO-SYNTHETIC FABRIC SEEDING OR MULCHING WITH WOODWASTE MULCH ALL AREAS OF DISTURBED SOIL, WHERE FINAL GRADE HAS BEEN ACHIEVED. ALL WORK TO BE PERFORMED IN TIE ROCK DRAINAGE INTO EXISTING ACCORDANCE WITH THE PROJECT PERMITS & OWNERS ENVIRONMENTAL POLICIES & EMBED BOULDER IN -SUB-SURFACE DRAINAGE LAYER NOTE: CULVERTS WITHIN ROCK SANDWICH SHALL BE PLACED SUCH THAT A MINIMUM OF 6" OF 3"-6" STONE IS BELOW INVERT. NOTE: BOULDER RETAINING WALL SHALL BE APPROVED BY SITE GEOTECHNICAL ENGINEER. ROCK SANDWICH TYPICALLY UTILIZED IN ROADWAY CUTS TRAVERSING AREAS <u>BOULDER RETAINING WALL</u> WITH SHALLOW GROUNDWATER PERMIT <u>TYPICAL ROCK SANDWICH DETAIL</u> PRELIMINARY FOR AGENCY REVIEW 3 PRELIMINARY NOT FOR CONSTRUCT

