

CONCRETE REPAIR NOTES:

1. DEMOLITION AND SURFACE PREPARATION
 - A. PROVIDE ¾ INCH TO 1 INCH DEEP SAW CUT EDGES AROUND THE PERIMETER OF THE REPAIR AREA. NORMAL TO FACE OF THE SURROUNDING CONCRETE. THE SAW CUTS SHALL FORM POLYGONS WHICH HAVE 90° CORNERS AND ENCLOSE THE DAMAGED AREA. MAKE SAW CUTS AFTER SUFFICIENT CONCRETE IS REMOVED TO LOCATE AND DETERMINE ACTUAL CONCRETE COVER OVER REINFORCEMENT AND AFTER THE EXTENT OF CONCRETE REMOVAL HAS BEEN DETERMINED. DO NOT CUT INTO REINFORCEMENT. REDUCE DEPTH OF SAW CUT OVER REINFORCEMENT AS REQUIRED.
 - B. REMOVE ALL LOOSE AND UNSOUND CONCRETE IN AREAS TO BE REPAIRED. REMOVE CONCRETE (EVEN IF SOUND) TO A MINIMUM DEPTH OF 1 INCH BEYOND THE INNERMOST LAYER OF REINFORCEMENT. REMOVE ADDITIONAL CONCRETE AS REQUIRED TO EXPOSE UNCORRODED REINFORCING BARS AND A SURFACE OF SOUND CONCRETE. ROUGHEN CONCRETE SURFACE TO A MINIMUM AMPLITUDE OF ¼ INCH. CONDUCT CONCRETE REMOVAL IN A MANNER TO PREVENT CUTTING, NICKING, BENDING, OR OTHERWISE DAMAGING THE REINFORCEMENT. REPAIR OR REPLACE ACCIDENTALLY DAMAGED REINFORCEMENT AT NO COST TO THE OWNER.
 - C. USE NOMINAL 15-POUND CLASS CHIPPING HAMMERS FOR DEMOLITION ASSOCIATED WITH REMOVAL OF SLAB SURFACE AND FOR FINISH DEMOLITION AT SURFACES OF CONCRETE TO REMAIN IN PLACE. NOMINAL 30-POUND CLASS CHIPPING HAMMERS MAY BE USED FOR BULK REMOVAL WHERE FULL DEPTH OF SLAB IS REMOVED. USE SHARP POINTED BITS WHERE POSSIBLE.
 - D. REMOVE ALL LOOSE PARTICLES AND DELETERIOUS MATERIALS FROM THE EXPOSED SOUND CONCRETE SURFACE BY ABRASIVE BLASTING OR PRESSURE WASHING WITH A MINIMUM PRESSURE OF 6000 PSI.
 - E. CLEAN REINFORCING BARS TO BARE METAL, INCLUDING UNDERSIDE OF BARS, BY ABRASIVE BLASTING, PRESSURE WASHING, WIRE BRUSHING, OR USE OF NEEDLE SCALER.
2. BONDING SLURRY AND FINAL PREPARATION
 - A. SAND-CEMENT BOND COAT: 1 PART PORTLAND CEMENT TO 1 PART SAND (100% PASSING NO. 30 SIEVE), MIX TO CONSISTENCY OF THICK CREAM.
 - B. CLEAN PREVIOUSLY PREPARED CONCRETE SURFACES BY BLOWING WITH OIL-FREE COMPRESSED AIR OR BY WATER BLASTING BEFORE PLACING BOND COAT. THOROUGHLY WET CONCRETE SURFACE AND KEEP WET FOR AT LEAST ONE HOUR BEFORE PLACING BOND COAT. WHEN BOND COAT IS APPLIED, CONCRETE SURFACES MUST BE SATURATED-SURFACE DRY WITH ABSOLUTELY NO STANDING WATER.
 - C. THOROUGHLY BRUSH BONDING SLURRY INTO ALL EXISTING CONCRETE SURFACES.
 - D. PLACE NEW CONCRETE BEFORE BOND COAT SETS. VIBRATE CONCRETE TO ENSURE PROPER CONSOLIDATION.
3. SEE SPECIFICATION SECTION 03310 FOR ADDITIONAL REQUIREMENTS.

STAIR MODIFICATIONS:

1. REMOVE EXISTING TREADS AND TREAD SUPPORT ANGLES FROM STRINGERS. GRIND EXISTING WELDS SMOOTH. REPLACE EXISTING TREADS WITH NEW TREADS TO BE BOLTED IN PLACE.
2. AFTER GRINDING STRINGERS AND DRILLING NEW HOLES, PREP STRINGERS FOR NEW PAINT. PAINT STRINGERS SAFETY YELLOW. SEE SPEC SECTION 05120.
3. INSTALL NEW TREADS AND REINSTALL STAIRS IN P.L.T.
4. AT CONTRACTOR'S OPTION, NEW MC10x6.5 STRINGERS MAY BE PROVIDED.
5. NEW STAIR TREADS: SERATED STEEL, OPEN DIAMOND PATTERN, MILL GALVANIZED, EQUIVALENT TO GRIP STRUT TREADS, 24" SPAN, MINIMUM 8 ½" WIDE.

GENERAL NOTES:

1. THIS PROJECT INVOLVES RENOVATIONS OF AN EXISTING STRUCTURE. DIMENSIONS SHOWN ON THE DRAWINGS ARE BELIEVED TO BE ACCURATE, BUT CANNOT BE GUARANTEED. MEASURE AND VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND CONSTRUCTION.
2. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS AND SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS THAT PREVENT CONTRACTOR'S COMPLETION OF THE WORK AS SHOWN ON THE DRAWINGS.
3. DESIGN WHEEL LOAD = 12,000 LBS.

MATERIALS

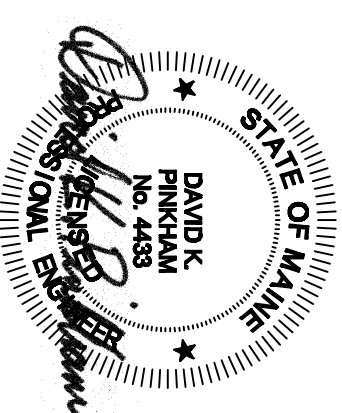
1. CONCRETE:
 - A. MINIMUM 1 DAY COMPRESSIVE STRENGTH: 4000 PSI
 - B. REINFORCING: A57M A615, GRADE 60.
2. STEEL:
 - ANGLE & PLATES: A57M A36
 - W/0: A57M A392
 - HSS: A57M A500 GR. B
3. PAINT EXPOSED SURFACES OF GALVANIZED W/0 AND L8x4 AS NOTED IN DETAILS. PAINT CAP PLATES, HSS 4x4, AND BASE PLATES. THESE ITEMS DO NOT REQUIRE GALVANIZING.
4. GALVANIC ELECTRODES:
 - A. PROVIDE ONE OF THE FOLLOWING (MINIMUM ZINC MASS = 150 GM):
 - GALVASHIELD XP4 BY SIKAVECTOR
 - SENTINEL GOLD BY EUCLID CHEMICAL
 - ETHACO CP INTACT 150 G BY BASF
 - B. INSTALL AT 24"± SPACING AROUND PERIMETER OF REPAIR AREAS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING TESTING (BELOW).
 - C. TEST REINFORCING STEEL FOR ELECTRICAL CONTINUITY PRIOR TO INSTALLING ANODES. MAKE ADDITIONAL ELECTRICAL CONNECTIONS AS RECOMMENDED BY MANUFACTURER IF NECESSARY.
 - D. VERIFY SOUND ELECTRICAL CONNECTION OF EACH ANODE TO REINFORCING STEEL.
5. SUBMITTALS:
 - A. CONCRETE MIX DESIGN.
 - B. REINFORCING SHOP DRAWINGS.
 - C. PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR GALVANIC ANODES.
 - D. SALT BARRIER.
 - E. STEEL SHOP DRAWINGS
 - F. PAINT SYSTEM

REVISED FOR BUILDING PERMIT JUNE 20, 2013

GREATER PORTLAND TRANSIT DISTRICT
 INSPECTION PIT SLAB REPAIR PROJECT
 PORTLAND, MAINE

SCALE: NONE
 DATE: JUNE 3, 2013
 DESG BY: DKP
 PROJECT: 12330-P

S-4A
 SHEET 3 OF 4



06-03-13