

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE PA D.E.P.S. EROSION AND SEDIMENT (E&S) POLLUTION CONTROL PROGRAM MANUAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE EROSION SEDIMENTATION CONTROL AND INSTALL BEST MANAGEMENT PRACTICES (BMP). NO SOIL RUNOFF AND NO SEDIMENT IS PERMITTED BEYOND THE PROJECT PROPERTY LINE. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, ARCHITECT, ENGINEERS, APPROPRIATE MUNICIPAL OFFICIALS, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. AREAS TO BE FILLED ARE TO BE CLEARED AND STRIPPED OF ROOTS AND OTHER OBJECTIONABLE MATERIAL.
5. TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs HAVE BEEN INSTALLED. IF STOCKPILES ARE REQUIRED FOR TOPSOIL ON SITE, HEIGHTS SHALL NOT EXCEED 25 FEET. STOCKPILE SLOPES SHALL BE 3H:1V OR FLATTER.
6. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
7. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ. 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
8. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
9. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
10. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THE D.E.P. MANUAL, OVER UNDISTURBED VEGETATED AREAS.
11. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADE, RESEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
12. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
13. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
14. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUT SLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
15. TEMPORARY SOIL STABILIZATION OF DISTURBED AREAS SHALL OCCUR WITHIN 4 DAYS OF THE COMPLETION OF SITE GRADING EFFORTS.
16. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
17. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
18. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
19. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATE INTO FILLS. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
20. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
21. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEP-ER.
22. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER AND SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THE D.E.P. MANUAL.
23. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS DURING NON-GERMINATING MONTHS. MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE D.E.P. MANUAL FOR THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
24. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
25. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED.
26. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID RE-VEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.

- EXISTING CONDITIONS INFORMATION HAS BEEN PROVIDED BY OWNER. SEE PROPERTY OWNER FOR CERTIFIED COPY.
2. CONTRACTOR IS RESPONSIBLE FOR CONTACTING PENNSYLVANIA ONE CALL AND DOCUMENTING AND PROTECTING EXISTING UTILITIES FOR THIS PROJECT.
3. THE CONTRACTOR SHALL VISIT THE SITE AND CAREFULLY EXAMINE AND STUDY THE SITE AND THE CONDITIONS TO FAMILIARIZE HIMSELF/HERSELF WITH ALL DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND THAT LATER CLAIMS FOR ADDITIONAL COMPENSATION DUE TO ADDITIONAL LABOR, MATERIAL, OR EQUIPMENT REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
4. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH.
5. MAINTENANCE AND PROTECTION OF TRAFFIC BOTH VEHICULAR AND PEDESTRIAN SHALL BE COORDINATED WITH THE OWNER AND ACCESS TO THE FACILITY CANNOT BE INTERRUPTED.
6. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE, AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES. CONTRACTOR IS REQUIRED BY PA STATE LAW TO NOTIFY ALL UTILITY COMPANIES NOT LESS THAN THREE WORKING DAYS PRIOR TO BEGINNING EXCAVATION OR DEMOLITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PLACE PA ONE CALL 811.
7. PRIOR TO CONSTRUCTION VERIFY LOCATIONS AND ELEVATIONS OF EXISTING CONDITIONS, UTILITIES, UTILITY BOXES, POLES, FIRE HYDRANTS, VAULTS AND SIMILAR STRUCTURES. NOTIFY OWNER PRIOR TO ANY WORK OF DISCREPANCIES. FAILURE TO NOTIFY THE OWNER OF DISCREPANCIES BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS CONSTITUTES CONTRACTORS ACCEPTANCE OF EXISTING CONDITIONS.
8. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING EARTHWORK OPERATIONS TO PROVIDE THE FINISHED GRADES. IMPORT/EXPORT OF MATERIAL NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION IS UNCLASSIFIED AND WILL INCLUDE (WITHOUT LIMITATION THERETO) THE EXCAVATION AND REMOVAL OF ALL SOIL, SHALE, ROCK OR ROCK FORMATIONS, BOULDERS, EXISTING FOUNDATIONS OR FILL FOR THE INSTALLATION OF FOUNDATIONS, SLABS, OR AS INDICATED IN THE CONTRACT DOCUMENTS, AND ANY TYPE OF UNSATISFACTORY SUBSURFACE CONDITION ENCOUNTERED IN THE CONTRACT AREA. PROOF ROLL THE SUBGRADE WITH A COMPACTOR OR OTHER APPROVED VEHICLE. ANY YIELDING AREAS SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED FILL. NO CLAIMS FOR EXTRA COMPENSATION AND/OR EXTENSION OF CONTRACT TIME BECAUSE OF THE NATURE OF SUBSURFACE CONDITIONS ENCOUNTERED WILL BE CONSIDERED BY THE OWNER.
9. ANY EARTH DISTURBANCE WITHIN THE SITE SHALL CONFORM TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION CHAPTER 102 REGULATIONS AS OUTLINED IN THE EROSION AND SEDIMENTATION POLLUTION CONTROL PROGRAM MANUAL BY THE BUREAU OF LAND AND WATER CONSERVATION.
10. REMOVE EXCESS EXCAVATED MATERIALS FROM THE PROJECT SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
11. CONTRACTOR SHALL NOTIFY THE APPROPRIATE INSPECTION AGENCIES IN ACCORDANCE WITH LOCAL CODE FOR FIELD INSPECTION DURING CONSTRUCTION.
12. CONSTRUCTION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, NEITHER THE OWNER NOR THE OWNER'S REPRESENTATIVES SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY OF FOR SAFETY OF THE WORK OR PERSONS ENGAGED IN THE WORK.
13. SAWCUT EXISTING BITUMINOUS AND CONCRETE PAVEMENT AND CURBS WHERE NEW PAVING AND CURBS JOIN EXISTING PAVING AND CURBS.
14. DRAINAGE: PROVIDE POSITIVE DRAINAGE TO CATCH BASINS UPON PLACEMENT OF PAVEMENT. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING, WALKS AND BUILDING ENTRANCES. FINISHED GRADE OF TOPSOIL SHALL BE 1/4 TO 3/4 INCH BELOW TOP OF WALKS AND CURBS TO PROVIDE POSITIVE DRAINAGE OFF OF WALKS. PROVIDE FROST FREE SLABS AT ALL BUILDING ON-GRADE ENTRANCES/THRESHOLDS.
15. ALL TRAFFIC CONTROL SIGNS AND MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD, UNLESS OTHERWISE NOTED.
16. PROVIDE PROPER DRAINAGE AND INFILTRATION RATES TO ENSURE VIGOROUS PLANT HEALTH IN PLANTING BEDS, HEDGEROWS, RAIN GARDEN AND LAWN / DISTURBED AREAS. REMOVE FROM THE SITE ALL SOIL THAT DOES NOT PROVIDE ADEQUATELY DRAINAGE. RESTORE INFILTRATION CAPACITY OF THE SOIL BY SPADING WITH A BACKHOE OR A SOIL RENOVATOR TO A DEPTH OF 18" DEPTH FOR DISTURBED AREAS.
17. SEED AND TOPSOIL ALL DISTURBED AREAS. SLOPES LESS THEN 3:1 SHALL BE SEEDDED WITH TEMPORARY AND PERMANENT LAWN SEEDING. SLOPES GREATER THEN 3:1 SHALL BE SEEDDED WITH STEEP SLOPE MIX.
18. PLANTING BEDS SHALL RECEIVE 18" TOPSOIL MIX AND SEEDDED AREAS TO RECEIVE A MINIMUM OF 6" TOPSOIL UNLESS OTHERWISE NOTED.
19. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THE CONSTRUCTION SET FOR PERTINENT INFORMATION.
20. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS CALLED OUT IN THIS SET OF DRAWINGS.
21. CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND OR RESTORING ANY DAMAGE TO EXISTING CONDITIONS OR NEW WORK ADJACENT TO WORK TO BE COMPLETED.
22. CONTRACTOR IS RESPONSIBLE FOR PROVIDING INDEPENDENT TESTING RESULTS FOR CONCRETE.
23. CONTRACTOR RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. ADDITIONAL DRAWINGS, CERTIFICATIONS AND SPECIFICATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
24. SEED ALL AREAS NOT HARDSCAPE OR GRAVELED DISTURBED BY DEMOLITION AND CONSTRUCTION. IF CONSTRUCTION WORK DISTURBS PLANTING BEDS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE IN KIND.
25. ADJUST ELEVATIONS OF EXISTING MANHOLES, INLETS, CLEANOUTS, FIRE HYDRANTS, VALVES, STRUCTURES, ETC. TO MEET FINAL GRADES AS REQUIRED.
26. ALL PROPERTY CORNERS, MONUMENTS, AND BENCHMARKS SHALL BE PROTECTED. IF DISTURBED, A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER SHALL RESET THESE ITEMS.
27. FORM ISOLATION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, BUILDINGS, WALKS, OTHER FIXED OBJECTS TYPE. PRO-WIDE EXPANSION JOINTS WHERE NEW OR EXISTING LIGHT STANDARDS, POLES, FIRE HYDRANTS, ACCESS FRAMES / COVERS FOR UTILITIES OR SEWERS AND SIMILAR STRUCTURES ABUT NEW CONCRETE WORK. LOCATE EXPANSION JOINTS AT MINIMUM INTERVALS OF 15 FEET. PROVIDE EXPANSION JOINTS BETWEEN FROST FREE SLAB AND ADJACENT PAVING. SET CONSTRUCTION JOINTS AT SIDE AND END TERMINATIONS OF PAVEMENT AND AT LOCATIONS WHERE PAVEMENT OPERATIONS ARE STOPPED FOR MORE THAN ONE-HALF HOUR UNLESS PAVEMENT TERMINATES AT ISOLATION JOINTS.
28. CONTRACTOR TO INSTALL INLET PROTECTION ON ANY INLETS DOWNSTREAM OF WORK AREA THAT WILL RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES.
29. ALL RADI ARE 5'-0" UNLESS OTHERWISE NOTED ON PLAN.
30. MATCH EXISTING CONCRETE SCORING PATTERNS.

CONCRETE SIDEWALK, SLAB AND STAIR REPLACEMENT - SEE DETAILS L301A: #1, #3, #11 AND A602

1. SAW CUT EXISTING SIDEWALK, SLAB AND OR STAIR TO BE REPLACED AT NEAREST EXPANSION/CONTROL JOINT. ALL SAW CUTS TO BE NEAT, SQUARE AND STRAIGHT.
2. FORM, POUR AND FINISH CONCRETE SIDEWALK, SLAB AND OR STAIR AS NECESSARY.
3. PLACE EXPANSION JOINTS BETWEEN NEW SIDEWALK, SLAB OR STAIR AND EXISTING.
4. MATCH EXISTING FINISH, GRADE AND SCORING PATTERN OF ADJACENT SIDEWALK, SLABS OR STAIR.
5. PROVIDE 6" OF TOPSOIL AND RESEED. FINISH TOPSOIL GRADE TO BE ¼" TO ¾" BELOW FINISH LEVEL OF CONCRETE. PROVIDE POSITIVE DRAINAGE AWAY FROM SIDEWALK, SLAB OR STAIR SURFACE.
6. IF SLAB ADJACENT TO BUILDING DOORWAY: PROVIDE 5' X 5' FROST FREE THRESHOLD SLAB, STEPS AND PORCH HANDRAIL PER DETAILS FOUND ON L301A AND A602

CONCRETE SLAB, STAIR CRACK / SPALL / EDGE / CORNER REPAIR - SEE DETAIL L301A #8

1. LOOSEN AND REMOVE DEBRIS, OIL, GREASE AND GRAVEL. ETC. FROM CRACK WITH WIRE BRUSH, DETERGENT AND DRY, OIL FREE COMPRESSED AIR AS NECESSARY.
2. SAW CUT OR CHISEL VERTICAL EDGES TO A MINIMUM DEPTH OF ½". CHISEL, SAW CUT OR JACK HAMMER TO SOLID SUBSTRATE.
3. MIX AND APPLY COMMERCIAL GRADE NON-SHRINK GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4. TROWEL AND FINISH ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
5. FOR REPAIRS LESS THAN 2" IN DEPTH: REPLACE MIX WATER WITH CONCRETE ACRYLIC FORTIFIER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
6. FOR REPAIRS GREATER THAN 2" DEPTH: PLACE 2" TAPCON (OR APPROVED EQUAL) ANCHORS ON 6" CENTERS ALONG VERTICAL SURFACE. PLACE TAPCON (OR APPROVED EQUAL) ANCHORS AT LEAST 1" BELOW FINISHED GRADE WITH MIN 1" EXPOSED FOR MECHANICAL BOND. ADD 30 LBS. WASHED ¾" GRAVEL PER 60 LB. BAG OF NON SHRINK GROUT MIX.
7. MATERIAL:
 - a) QUIKRETE COMMERCIAL GRADE FAST-SET NON-SHRINK GROUT, 1585-09 OR APPROVED EQUAL QUIKRETE CONCRETE ACRYLIC FORTIFIER, 8610 OR EQUAL

SITE HANDRAIL REPLACEMENT - SEE TYPICAL HANDRAIL DETAIL L301A #1

- REMOVE EXISTING HANDRAIL. SAWCUT STANTIONS. CORE DRILL AROUND METAL BASE TO REMOVE. REMOVE TAPCON ANCHORS, BOLTS, ETC.
- IF IN LAWN, REMOVE HANDRAIL AND FOUNDATION. POUR NEW FOOTINGS/FOUNDATIONS. RESTORE EXISTING GRADES. CONTRACTOR TO PROVIDE ALL NECESSARY MATERIALS. RESTORE LAWN.
- PROVIDE AND INSTALL HANDRAIL. APPLY TWO-PART EPOXY TO NEW HANDRAIL STANCHION ACCORDING TO MANUFACTURER'S INSTRUCTIONS. APPLY TO EXTERIOR AND INTERIOR SURFACES TO 1" ABOVE FINISHED CONCRETE SURFACE.
- MIX, INSTALL, FINISH AND CURE COMMERCIAL GRADE NON-SHRINK GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. INSTALL GROUT IN ALL TAPCON HOLES, BOLT HOLES, ETC
- PAINT WITH SHERWIN WILLIAMS PRO INDUSTRIAL URETHANE ALKYD ENAMEL OR APPROVED EQUAL. 2 COATS ACCORDING TO MANUFACTURER'S INSTRUCTION. COLOR TO BE APPROVED BY OWNER.
- MATERIAL:
 - a) QUIKRETE COMMERCIAL GRADE FAST SET NON-SHRINK GROUT, 1585-09 OR APPROVED EQUAL. QUIKRETE CONCRETE ACRYLIC FORTIFIER, 8610 OR APPROVED EQUAL
 - b) SHERWIN WILLIAMS MACROPOXY 646-100, FAST CURE EPOXY OR APPROVED EQUAL.
 - c) SHERWIN WILLIAMS PRO INDUSTRIAL URETHANE ALKYD ENAMEL OR APPROVED EQUAL. 2 COATS.

SEAL-COAT EXISTING ASPHALT PAVING / PAVEMENT MARKINGS AND LINE STRIPING.

1. ASPHALT SLURRY SEAL. THIS WORK IS CONSTRUCTION OF A BITUMINOUS SLURRY SEAL COURSE OF THE TYPE DESIGNATED.

MATERIAL

- a) BITUMINOUS MATERIAL. EMULSIFIED ASPHALT, CLASS SS-1H(E-8A), OR CSS-1H(E-8C).
- b) MIXTURE COMPOSITION. DESIGN AND TEST THE SLURRY SEAL MIXTURE ACCORDING TO ASTM D 3910. CONSTRUCTION
- c) WEATHER LIMITATIONS DO NOT PLACE MIXTURE IF THE AIR TEMPERATURE IS 50F OR LOWER, OR IF THE PAVEMENT TEMPERATURE IS 50F OR LOWER.
- d) CONDITIONING OF EXISTING SURFACE.
 - 1) SEAL OPEN JOINT AND CRACKS WITH AN ACCEPTABLE CRACK SEALER OR EMULSION.
 - 2) IN ADDITION TO THE SURFACE CLEANING SPECIFIED, ALSO REMOVE HEAVY PAINT BUILD-UP.
 - 3) COVER AND SATISFACTORILY PROTECT EXISTING RAISED PAVEMENT MARKERS.
 - 4) REPLACE DAMAGED MARKERS.
- e) PLACEMENT. CONTROL THE TEMPERATURE OF THE COMPONENTS OF THE COMPLETED MIXTURE SO APPLICATION TEMPERATURE OF THE SLURRY SEAL IS WITHIN THE RANGE DESIGNATED, BUT NOT LESS THAN 50F OR MORE THAN 125F
- f) JOINTS.
 - 1) TRANSVERSE JOINTS. CONSTRUCT BY EITHER OVERLAPPING PREVIOUSLY CURED SLURRY WITH 10 FEET TO 15 FEET OF FRESH SLURRY, OR BY LIGHTLY WETTING THE AREA THE SPREADER BOX WILL TOUCH, WHILE THE SLURRY IS IN A COMPLETELY UNCURED, SEMI-FLUID CONDITION.
 - 2) LONGITUDINAL JOINTS. CONSTRUCT AS FOLLOWS: DO NOT WET THE SLURRY IF IT IS COMPLETELY UNCURED. PULL A BURLAP LOG, OR OTHER SUITABLE DEVICE, ALONG THE JOINT SEAM, TO CAUSE FRESH SLURRY FROM THE SPREADER BOX TO DISTRIBUTE ITSELF EVENLY OVER THE JOINT. WET THE SLURRY WITH THE SPRING BAR, IF THE SLURRY IS COMPLETELY CURED.
- g) CURING. DO NOT ALLOW TRAFFIC ON THE SURFACE UNTIL DIRECTED, TO ALLOW THE SLURRY SEAL TO COMPLETELY CURE TO A FIRM CONDITION THAT WILL PREVENT PICK-UP OF THE MIXTURE.

PAVEMENT MARKINGS / LINE STRIPING

SYSTEM DESCRIPTION

- (a). PROVIDE LINE STRIPING AND/OR OTHER SPECIFIED-MARKINGS ON PAVEMENT TO MATCH EXISTING PAVEMENT AND PLAYGROUND MARKINGS. COLOR AND LAYOUT AS APPROVED BY OWNER.
- (b). RESTORATION AND / OR LAYOUT AND PAINTING OF TRAFFIC MARKINGS, PARKING DIVISION LINES, DIRECTION ARROWS, CROSSWALK LINES, HANDICAP SYMBOLS.
- (c). TRAFFIC CONTROL
- (d). PROVIDE CONTRACTOR-GRADE ACRYLIC TRAFFIC PAINT FOR NEW BITUMINOUS PAVING, EXISTING BITUMINOUS AND CONCRETE PAVEMENTS AND/OR RESTRIPING.

FIELD MEASUREMENTS

- (a). CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE PROPOSED PAVEMENT MARKING BASED ON EXISTING MARKINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT EXISTING PAVEMENT AND PLAYGROUND MARKINGS AND ACCURATELY REPLICATE THOSE MARKINGS ON NEW PAVED SURFACES. THE CONTRACTOR MUST TAKE PHOTOGRAPHS OR VIDEOS OF THE ENTIRE PROJECT AREA TO DOCUMENT EXISTING PAVEMENT MARKINGS CONDITIONS. IF THE CONTRACTOR DEEMS THAT ADDITIONAL DATA MAY BE REQUIRED, THE OWNER MUST BE NOTIFIED IN WRITING PRIOR TO THE SUBMITTAL OF THE BID.

(a). MANUFACTURER'S PRINTED PRODUCT DATA SHEETS.

(b). PROPOSED TRAFFIC CONTROL PLAN IF NECESSARY.

PROJECT CONDITIONS

(a). COORDINATION: COORDINATE THIS WORK WITH THE WORK OF OTHER SECTIONS TO AVOID ANY DELAY OR INTERFERENCE WITH OTHER WORK.

(b). ENVIRONMENTAL REQUIREMENTS: APPLY MARKING PAINT IN DRY WEATHER WHEN PAVEMENT AND ATMOSPHERIC TEMPERATURES ARE FIFTY (50) DEGREES F. OR ABOVE AND ARE ANTICIPATED TO REMAIN ABOVE FIFTY (50) DEGREES F. FOR FOUR (4) HOURS AFTER COMPLETING APPLICATION.

MATERIALS

(a). HIGH-SOLIDS, WATER-BASED ACRYLIC PAINT CONTAINING ULTRAVIOLET-RESISTANT PIGMENTS.

(b). COLORS: MATCH EXISTING CONDITIONS, OR AS OTHERWISE DIRECTED BY THE OWNER.

(c). PAVEMENT MARKINGS SHALL BE SHERWIN-WILLIAMS TRAFFIC PAINT, PERMALINE MARKING PAINT AS MANUFACTURED BY NEYRA INDUSTRIES, INC. OF CINCINNATI, OH, OR AN EQUAL PAINT APPROVED BY PENNDOT. ALL MANUFACTURER'S SPECIFICATIONS SHALL GOVERN.

EXAMINATION

(a). EXAMINE AREAS IN WHICH WORK IS TO BE PERFORMED. REPORT IN WRITING TO THE OWNER ALL PREVAILING CONDITIONS THAT WILL ADVERSELY AFFECT SATISFACTORY EXECUTION OF WORK AND/OR DEFECTS THAT WILL ADVERSELY AFFECT QUALITY OF WORK AND WHICH CANNOT BE PUT INTO ACCEPTABLE CONDITION THROUGH NORMAL PREPARATORY WORK. DO NOT PLACE MARKING ON UNSOUND PAVEMENTS. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

(b). STARTING WORK CONSTITUTES ACCEPTANCE OF THE EXISTING CONDITIONS AND THE CONTRACTOR SHALL THEN, AT HIS/HER EXPENSE, BE RESPONSIBLE FOR CORRECTING ALL UNSATISFACTORY AND DEFECTIVE WORK ENCOUNTERED.

(c). VERIFY THAT NEW ASPHALT PAVEMENT IS COMPLETE, HAS BEEN ACCEPTED BY THE OWNER AND CURED A MINIMUM OF FOURTEEN (14) DAYS.

- (a). CONTRACTOR SHALL PROVIDE A QUALIFIED TECHNICIAN TO SUPERVISE EQUIPMENT AND APPLICATION OF MARKINGS. LAYOUT MARKINGS USING GUIDE LINES, TEMPLATES AND/OR FORMS.
- (b). THOROUGHLY CLEAN SURFACES FREE OF DIRT, SAND, GRAVEL, OIL AND OTHER FOREIGN MATTER.
- (c). PROTECT ADJACENT CURBS, WALLS, FENCES AND OTHER ITEMS FROM RECEIVING MARKING PAINT.
- (d). LAYOUT AND PAINT PARKING DIVISION LINES, ROADWAY MARKINGS, CROSSWALK LINES, DIRECTIONAL ARROWS, HANDICAP SYMBOLS AND OTHER MARKINGS IN ACCORDANCE WITH THE "UNIFORM FEDERAL ACCESSIBILITY STANDARDS".

APPLICATION

- (a). APPLY MARKING PAINT AT A RATE OF ONE (1) GALLON PER FOUR HUNDRED FIFTY (450) LINEAL FEET OF FOUR (4) INCH WIDE LINE STRIPES OR EQUIVALENT. SHOULD THE OWNER REQUIRE PAVEMENT MARKINGS IN ADDITION TO THE SPECIFIED STRIPES, THE MARKING PAINT SHALL BE APPLIED AT A RATE OF ONE (1) GALLON PER ONE HUNDRED FIFTY (150) SQUARE FEET.
- (b). APPLY MARKING PAINT BY POWER SPRAY, BRUSH OR ROLLER.
- (c). APPLY SECOND COAT AS REQUIRED FOR PROPER APPROVED COVERAGE.
- (d). ANY EXISTING PAVEMENT MARKINGS IN PLACE PRIOR TO CONSTRUCTION AND WHICH BECAME DEGRADED BY THE CONSTRUCTION MUST BE REPLACED IN KIND WITH PAVEMENT MARKINGS, IN ACCORDANCE WITH THESE PROJECT SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.

- (a). CONTRACTOR SHALL BARRICADE ALL MARKED-AREAS UNTIL THE MARKING PAINT IS DRIED AND READY FOR TRAFFIC. NORMALLY AN AREA MAY BE OPEN TO TRAFFIC IN APPROXIMATELY SIX (6) HOURS IN GOOD DRYING CONDITIONS.
- (b). REMOVE OVER-SPRAY, SPILLS OR DRIPS FROM SURFACES OTHER THAN THOSE REQUIRING MARKING PAINT.

URETHANE ALKYD ENAMEL, COLOR TO BE SELECTED FROM STANDARD PALLET BY OWNER.

1. MAINTAIN EXISTING GRADE AND ADJACENT SLOPE CONDITIONS. PROTECT EXISTING PAVING
2. REMOVE LOOSE WALL STONES OR BLOCKS
3. EXCAVATE SOIL BEHIND WALL TO ACCOMMODATE 12" WIDE DRAINAGE TRENCH WITH 4" PERF

5. REPAIR OR REBUILD WALL STONES, BLOCKS AND CAPS TO MATCH EXISTING WALL PATTERNS
6. REUSE EXISTING WALL STONES, BLOCKS AND CAPS.
7. PROVIDE AND INSTALL ADDITIONAL STONES, BLOCKS OR CAPS TO MATCH EXISTING AS NECESSARY.
8. BACKFILL BETWEEN WALL AND SOIL WITH #57 DRAINAGE AGGREGATE.
9. PROVIDE 6" OF TOPSOIL AND SEEDING TO ALL DISTURBED AREAS.
10. PROTECT ADJACENT SURFACES AND CONDITIONS DURING CONSTRUCTION.

1. MILL EXISTING ASPHALT TO COMPETENT MATERIAL OR A MIN. OF 2 INCHES.
2. INSTALL BITUMINOUS TACK COAT AND WEARING COURSE.
3. IF MILLED TO MORE THEN THREE INCHES, INSTALL FULL DEPTH BITUMINOUS PAVEMENT, SEE
DETAIL L301A #6.
4. RESTRIPE PARKING AREA AND ADA PARKING SYMBOLS

1. THICKNESS AND AREA TO ACCOMMODATE THE CRITICAL FALL HEIGHT OF THE EXISTING PLAYGROUND EQUIPMENT.
2. MODIFY SURFACING AS NECESSARY TO MEET ASTM F1292 AND TO MEET PUBLIC PLAYGROUND SAFETY HANDBOOK AS PUBLISHED BY U.S. CONSUMER PRODUCT SAFETY COMMISSION, LATEST EDITION.



Task Order
Contract No. 33 -
Glen Hazel Rental
Assistance
Demonstration
(RAD)

945 Roselle Ct
Pittsburgh, PA 15207

CONSTRUCTION
DOCUMENTS

ISSUED: October 27, 2017

Site Instructions

R3A PROJECT #	15074B
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