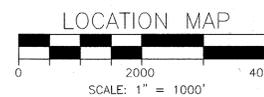
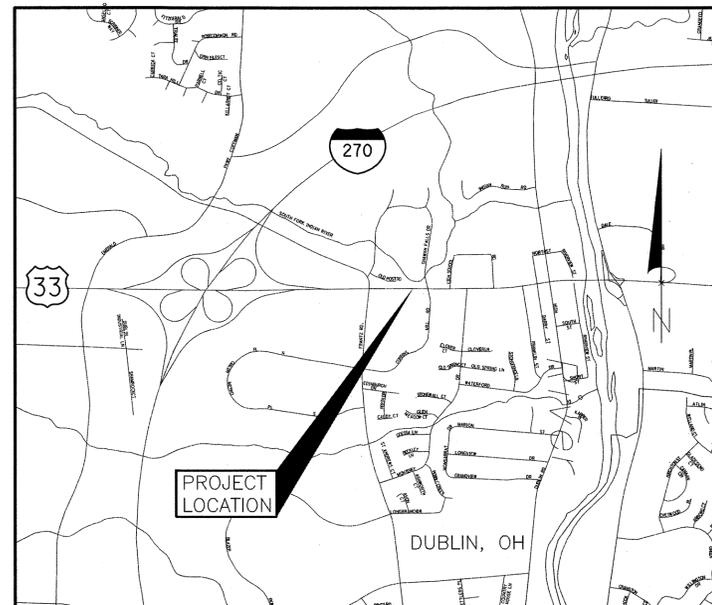


CITY OF DUBLIN, OHIO

BOARDWALK IMPROVEMENTS

S.R. 161 AT SHAWAN FALLS

15-031-CIP



JEFFREY D. HUNTER 8-2-2016
P.E. NO. 78531

SIGNATURES BELOW SIGNIFY CONCURRENCE WITH THE GENERAL PURPOSES AND AND GENERAL LOCATION OF THE PROJECT ONLY AND DO NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

CITY OF DUBLIN

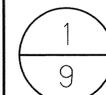
 CITY ENGINEER, CITY OF DUBLIN, OHIO 8-3-2016
 Paul A. Hammersmith, P.E. DATE



AUGUST 2016

BOARDWALK IMPROVEMENTS
SR 161 AT SHAWAN FALLS DRIVE

BURGESS & NIPLÉ
 Engineers ■ Architects ■ Planners
 5085 REED ROAD, COLUMBUS, OHIO 43220



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GENERAL NOTES

CONSTRUCTION AND MATERIAL SPECIFICATIONS

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (C.O.C. CMS) 2012 EDITION AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED AND WITH THE EXCEPTION OF SECTION 100 GENERAL PROVISIONS. REFER TO THE CITY OF DUBLIN GENERAL CONDITIONS DIVISION 100 FOUND IN THE PROPOSAL AND CONTRACT DOCUMENTS.

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR WITH THE COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS RELATED ITEMS.

GENERAL

IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO PROVIDE AND REQUIRE A COMPLETED PROJECT READY FOR OPERATION. ANY WORK ITEMS OMITTED FROM THE CONTRACT DOCUMENTS WHICH ARE CLEARLY NECESSARY FOR COMPLETION OF THE WORK AND ITS APPURTENANCES SHALL BE CONSIDERED A PART OF SUCH WORK, THOUGH NOT DIRECTLY SPECIFIED OR CALLED FOR IN THE CONTRACT DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCH INCIDENTAL ITEMS AS ASPHALT REPAIR, REGRADING, SEEDING, RELOCATION OF SIGNS, SPRINKLERS, OR OTHER MISCELLANEOUS ITEMS.

THE CITY ENGINEER IS NOT RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER IS NOT RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

THE CITY IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE CAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

ANY MODIFICATIONS TO THE WORK AS SHOWN ON THESE APPROVED PLANS SHALL HAVE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE CITY ENGINEER.

THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY, AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, AND/OR THE LIMITS OF DISTURBANCE SHOWN.

PROPERTY BOUNDARIES, INCLUDING PROPERTY LINES AND ROAD RIGHTS-OF-WAY, SHALL BE DETERMINED PRIOR TO THE START OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE FINISHED WORK CONFORM TO THE LINES, GRADES, ELEVATIONS, AND DIMENSIONS CALLED FOR ON THE DRAWINGS. PAYMENT FOR CONSTRUCTION LAYOUT SHALL BE MADE AT THE LUMP SUM PRICE BID FOR CONSTRUCTION LAYOUT STAKES.

GENERAL (CONTINUED)

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES, AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTLEMENT OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER AT THE CONTRACTOR'S EXPENSE.

SUBSURFACE INVESTIGATIONS WERE NOT PERFORMED FOR DESIGN AND ESTIMATING PURPOSES AND ARE NOT PROVIDED IN THE BIDDING DOCUMENTS. LOGS AND TEST DATA ARE NOT WARRANTED TO SHOW THE ACTUAL SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL OBTAIN AND EXAMINE THIS AND ANY ADDITIONAL INFORMATION AT HIS OWN EXPENSE, IF NECESSARY, IN HIS JUDGMENT.

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATER COURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

ALL SIGNS, FENCES, LANDSCAPING, STRUCTURES, OR OTHER APPURTENANCES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE PAID FOR BY THE CONTRACTOR.

NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT WRITTEN PERMISSION FROM THE CITY ENGINEER.

TRACKING OR SPILLING MUD, DIRT, OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. IF THE CONTRACTOR FAILS TO REMOVE THE MUD, DIRT, DEBRIS, OR SPILLAGE. THE CITY OF DUBLIN RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE WITHHELD FROM MONIES THAT ARE DUE OR MAY BECOME DUE THE CONTRACTOR.

THE CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED SO AS TO ELIMINATE ALL UNNECESSARY NOISE, DUST, AND ODORS. THE USE OF OIL OR OTHER MATERIAL FOR DUST CONTROL, WHICH MAY CAUSE TRACKING, IS NOT PERMITTED.

IN THE EVENT THAT IT BECOMES NECESSARY FOR THE CITY TO PERFORM WORK OF AN IMMEDIATE NATURE (SUCH AS THE PLACEMENT OF BARRICADES OR REPLACEMENT OF SIGNS AND OTHER WARNING OR PROTECTIVE DEVICES) BECAUSE OF FAILURE OR REFUSAL OF THE CONTRACTOR TO PERFORM SUCH WORK AS REQUIRED BY THE CONTRACT, THE CONTRACTOR SHALL REIMBURSE THE CITY AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. THE CITY SHALL BE REQUIRED TO NOTIFY OR ATTEMPT TO NOTIFY THE DESIGNATED REPRESENTATIVE OF THE CONTRACTOR OF THE NECESSITY TO PERFORM SUCH WORK. IF THE CONTRACTOR REFUSES OR FAILS WITHIN A REASONABLE TIME TO PERFORM OR CAUSE THE PERFORMANCE OF SUCH WORK, THE CITY SHALL BE REIMBURSED BY THE CONTRACTOR IN THE AMOUNT PROVIDED HEREIN BY WAY OF A DEDUCTION FROM THE CONTRACTOR'S NEXT PAYMENT UNDER THE CONTRACT. REASONABLE TIME FOR ALL STREETS INVOLVED ON THIS CONTRACT IS 1 HOUR FROM THE TIME OF NOTIFICATION BY THE CITY.

CONSTRUCTION SEEDING AND MULCHING, AS PER PLAN

ALL NON-PAVEMENT AREAS DISTURBED WITHIN THE DESIGNATED EASEMENTS, RIGHTS-OF-WAY, AND LIMITS OF DISTURBANCE AS SHOWN, SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ITEM 207, "CONSTRUCTION SEEDING AND MULCHING." ALL AREAS DISTURBED OUTSIDE THESE LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

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GENERAL NOTES (CONTINUED)

CONSTRUCTION SEEDING AND MULCHING, AS PER PLAN (CONTINUED)
SEEDING AND MULCHING SHALL CONFORM TO STANDARDS SET FORTH IN CITY OF COLUMBUS SPECIFICATIONS, ITEM 207. PLACEMENT OF SEEDING AND MULCHING SLURRY MIXTURE SHALL BE MADE WITH APPROVED HYDRO-SEEDING EQUIPMENT. APPLY MULCH SLURRY AT A MINIMUM RATE OF 1,500 POUNDS PER ACRE ON 4:1 SLOPES OR FLATTER, OR BETWEEN 1,500 AND 2,000 POUNDS PER ACRE ON SLOPES STEEPER THAN 4:1. DIRECT SLURRY TO EVENLY COVER DESIGNATED SEED AREAS. THE CONTRACTOR SHALL REPAIR RUTS, DEPRESSIONS, AND ALL DAMAGE CAUSED BY HYDRO-SEEDING EQUIPMENT.

DRAINAGE

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES STORM SEWER, DRAIN, AND DITCH FLOWS THROUGH EXISTING FACILITIES UNTIL NEW FACILITIES ARE COMPLETED AND PUT INTO SERVICE. THE FLOW OF ALL STORM SEWERS, DRAINS, AND OTHER WATER COURSES ENCOUNTERED AND DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION SATISFACTORY TO THE CITY ENGINEER. PAYMENT FOR THIS SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

EXISTING STORM SEWERS LOCATED WITHIN THE WORK LIMITS AND THEIR ASSOCIATED STRUCTURES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR DURING THE COURSE OF THE WORK IF NOT SPECIFICALLY DESIGNATED FOR REMOVAL.

BACKFILL AND EMBANKMENT

ALL TRENCHES WITHIN PAVEMENT, BERM, AND SHOULDER LIMITS SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NON-WORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE TRENCHES FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

UTILITIES

EXISTING UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS. ELECTRIC POWER LINES HAVE BEEN IDENTIFIED OVERHEAD OF THE BOARDWALK AND A GAS LINE HAS BEEN IDENTIFIED AT THE INTERSECTION OF S.R. 161 AND SHAWAN FALLS DRIVE. WHILE UTILITIES ARE NOT EXPECTED TO INTERFERE WITH THE WORK ON THIS PROJECT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, IDENTIFY, AND AVOID INTERFERENCE WITH ANY AND ALL EXISTING UTILITIES INCLUDING UTILITIES THAT MAY NOT HAVE ALREADY BEEN IDENTIFIED.

IN THE EVENT THAT EXISTING UTILITIES BECOME DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK, NOTIFY THE ENGINEER, AND CONTACT THE AFFECTED UTILITY COMPANY. UNDER THE GUIDANCE OF THE AFFECTED UTILITY, THE CONTRACTOR SHALL COORDINATE, FUND, AND EXECUTE (OR ASSIST THE UTILITY IN EXECUTING) THE NECESSARY REPAIRS AS SOON AS POSSIBLE AT NO ADDITIONAL COST TO THE PROJECT OR CITY OF DUBLIN.

THE FOLLOWING IS A LIST OF THE KNOWN CONTACTS THAT HAVE AN INTEREST IN UTILITIES CROSSING THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING ALL UTILITIES ON THIS PROJECT, AND COORDINATING THEIR WORK WITH THE RESPECTIVE UTILITY OWNERS.

AMERICAN ELECTRIC POWER
(CITY PROJECTS/DISTRIBUTION)
ATTN: PAUL PAXTON
850 TECH CENTER DRIVE
GAHANNA, OH 43230
(614) 883-6817

AMERICAN ELECTRIC POWER
(TRANSMISSION LINES)
ATTN: BARB DUNLAP
700 MORRISON ROAD
GAHANNA, OHIO 43230
(614) 552-1893

UTILITIES (CONTINUED)

AT&T LNS & CORE - HLG CONSULTING
ATTN: CHRISTOPHER M. MCCLOSKEY
5980 - G WILCOX PLACE
DUBLIN, OHIO 43016
614-760-8320

CITY OF DUBLIN ENGINEER'S OFFICE
ATTN: KEN RICHARDSON, PE, PS
5800 SHIER-RINGS ROAD
DUBLIN, OH 43016
(614) 410-4600

TIME WARNER COMMUNICATIONS
ATTN: RAY MAURER
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
614-481-5262

THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764) AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE PLANS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY ENGINEER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK TO FACILITATE WORK BY UTILITIES IN THE RIGHT-OF-WAY, IN EASEMENTS, AND OUTSIDE OF THE CONSTRUCTION WORK LIMITS.

DEWATERING

THE COST OF ANY DEWATERING OPERATIONS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS RELATED ITEMS.

SCHEDULE

THE CONTRACTOR SHALL SUBMIT A WORK SCHEDULE TO THE CITY ENGINEER AT THE TIME OF THE PRE-CONSTRUCTION MEETING. THE SCHEDULE WILL DETAIL THE TIMING OF THE WORK ACTIVITIES FOR THE VARIOUS SECTIONS OF THE PROJECT. REVISED PROJECT SCHEDULES ARE TO BE SUBMITTED EVERY MONTH THROUGHOUT THE PROJECT.

WORKING HOURS

THE CONTRACTOR IS PERMITTED TO WORK BETWEEN 7:00 A.M. AND 7:00 P.M., MONDAY THROUGH SATURDAY UNLESS NOTED OTHERWISE IN THE PLANS. PERMISSION TO WORK ON SUNDAY AND HOLIDAYS MUST BE REQUESTED IN WRITING AND APPROVED BY THE CITY ENGINEER.

STORAGE OF EQUIPMENT AND MATERIALS

NO MATERIALS, INCLUDING PIPE, SHALL BE STORED WITHIN TWENTY (20) FEET OF ANY INTERSECTING STREET OR DRIVEWAY. DURING NON-WORKING HOURS, STORAGE OF EQUIPMENT SHALL COMPLY WITH THESE SAME REQUIREMENTS AND SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC.

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GENERAL NOTES (CONTINUED)

INSPECTION

ALL WORK RELATED TO THIS CONTRACT SHALL BE INSPECTED BY THE CITY OF DUBLIN.

DESIGN DATA:

CLASS C CONCRETE (FOOTINGS) COMPRESSIVE STRENGTH: 4,000 PSI

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM FIELD MEASUREMENTS. HOWEVER, THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C.O.C. CMS SECTIONS 102.05 AND 105.02. BASE CONTRACT BID PRICES UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE CITY OF DUBLIN (CITY) WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS, WHICH HAVE BEEN VERIFIED IN THE FIELD.

PROPOSED WORK

THE PROJECT CONSISTS OF, BUT IS NOT LIMITED TO THE FOLLOWING WORK:

- 1.) REMOVAL AND REPLACEMENT OF SELECT BOARDWALK TIMBER MEMBERS
- 2.) REPAIRS TO SELECT TIMBER POST CONCRETE FOUNDATIONS
- 3.) ADDITION OF POST BRACKETS AT ALL TIMBER POST/CONCRETE FOOTING CONNECTIONS
- 4.) SEALING OF TIMBER MEMBERS

STAGING AREA

THE CONTRACTOR MAY UTILIZE THE CITY PROPERTY NORTH OF THE SIDEWALK ADJACENT TO SR161 AND WEST OF THE BOARDWALK. THE CONTRACTOR SHALL DOCUMENT THE EXISTING CONDITION OF THIS STAGING AREA PRIOR TO COMMENCING WORK OR UTILIZING THIS SPACE. AFTER COMPLETING ALL WORK, THE CONTRACTOR SHALL MAKE ANY NECESSARY REPAIRS, AT NO ADDITIONAL COST TO THE CITY, TO RETURN THIS AREA TO ITS ORIGINAL CONDITION AS APPROVED BY THE INSPECTOR.

MAINTENANCE OF TRAFFIC

THE CONTRACTOR MAY CLOSE THE RIGHT LANE OF SR-161 WESTBOUND ADJACENT TO THE BOARDWALK. ANY SUCH LANE CLOSURE SHALL ONLY OCCUR BETWEEN 9:00 A.M. AND 3:30 P.M., MONDAY THROUGH FRIDAY AND ANYTIME DURING WORK PERIODS ON SATURDAY. THE CLOSURE SHALL NOT EXTEND BEYOND THE EXTENTS OF THE TIMBER BOARDWALK AND SHALL CONFORM TO ODOT STANDARD CONSTRUCTION DRAWING (SCD) MT-95.30.

THE CONTRACTOR SHALL PROVIDE NOTIFICATION ALONG THE SIDEWALK NEAR BOTH ENDS OF THE BOARDWALK INDICATING WHEN THE BOARDWALK WILL BE CLOSED. THIS NOTIFICATION SHALL BE INSTALLED 14 DAYS PRIOR TO BEGINNING WORK AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION BEGINS. AT THE TIME THE CONTRACTOR BEGINS WORK, THE NOTIFICATION SIGN SHALL BE REMOVED, THE SIDEWALK SHALL BE BLOCKED WITH EITHER PLASTIC OR CONCRETE BARRICADES, AND A "SIDEWALK CLOSED" SIGN SHALL BE INSTALLED AT EACH END OF THE BOARDWALK. ADDITIONALLY, "SIDEWALK CLOSED AHEAD" SIGNS SHALL BE ERECTED ADJACENT TO THE SIDEWALKS AT THE SHAWAN FALLS DRIVE AND POST ROAD INTERSECTIONS. ALL SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR FOLLOWING THE COMPLETION OF WORK.

MAINTENANCE OF TRAFFIC (CONTINUED)

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C.O.C. CMS 614 (AND OTHER APPLICABLE PORTIONS OF THIS MANUAL) AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER. THE CONTRACTOR'S BID AND PAYMENT FOR THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE INSTALLATION, USE, AND REMOVAL OF ALL SIGNAGE AND BLOCKADES AS DESCRIBED IN THIS NOTE.

PRIOR TO INITIATING ANY WORK, AND INCLUDED AS INCIDENTAL TO THE MAINTENANCE OF TRAFFIC PAY ITEM, THE CONTRACTOR SHALL COMPLETE ALL REMAINING PORTIONS OF THE INCLUDED STATE OF OHIO DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY PERMIT APPLICATION FORM MR-505). THIS SHALL INCLUDE ANY NECESSARY MAPS, DIAGRAMS, OR PLANS INDICATING THE INTENDED MEANS OF ACCESS AND SPECIFIC CONSTRUCTION PROCESS. WORK MAY NOT COMMENCE UNTIL THIS APPLICATION HAS BEEN APPROVED.

SITE PRESERVATION AND RESTORATION

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRESERVE THE CONDITION OF THE PROJECT SITE AND SURROUNDING AREA DURING AND AFTER CONSTRUCTION. THE SITE SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE DISCRETION OF THE CITY OF DUBLIN INSPECTOR OR ENGINEER. ALL COSTS RELATED TO SITE RESTORATION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CITY.

WATERSHED PROTECTION:

THE WORK ASSOCIATED WITH THIS PROJECT IS BEING PREFORMED WITHIN THE DIRECT DRAINAGE AREA OF A MAJOR DRINKING WATER SUPPLY FOR THE CITY OF COLUMBUS. IT IS ESSENTIAL THAT ALL ACTIVITIES ASSOCIATED WITH THIS WORK BE PREFORMED IN A MANNER CONSISTENT WITH THE BEST WATERSHED MANAGEMENT PRACTICES INCLUDING, BUT NOT LIMITED TO:

AREAS OF DISTURBED GROUND SHALL HAVE APPROPRIATE EROSION AND SEDIMENT CONTROLS. IF HAZARDOUS/TOXIC MATERIALS INCLUDING BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS, ARE STORED ON SITE, THEY SHALL BE STORED IN A DOUBLE-CONTAINMENT MANNER. ALL EQUIPMENT REPAIRS, REFUELING, MAINTENANCE, AND MECHANICAL WORK THAT COULD RESULT IN THE RELEASE OF HAZARDOUS/TOXIC MATERIALS SHALL BE PREFORMED IN AN APPROPRIATELY CONTAINED AREA, OUTSIDE OF THE FLOODPLAIN AND RIVERBANKS, PREFERABLY OFF SITE OR AN APPROPRIATE OFF-SITE FACILITY.

IN THE EVENT THAT ANY HAZARDOUS/TOXIC MATERIALS INCLUDING, BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S, PAINT, SEALANTS, OR OTHER CHEMICALS ARE SPILLED INTO THE WATERWAY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF DUBLIN, THE CITY OF COLUMBUS DUBLIN ROAD WATER TREATMENT PLANT AT (614) 645-8297, AND THE OHIO EPA. THE CONTRACTOR SHOULD BE PREPARED TO PROVIDE DETAILED INFORMATION RELATIVE TO THE TYPE AND QUANTITY OF MATERIAL THAT HAS BEEN SPILLED AS WELL AS THE EXACT LOCATION AND EXACT TIME AT WHICH THE SPILL OCCURRED.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INFORMING ALL SUBCONTRACTORS AND OTHER AGENTS OF THESE RESPONSIBILITIES, PRECAUTIONS, AND PROHIBITIONS.

TEMPORARY SUPPORTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING THE BOARDWALK DURING ALL PHASES OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH TEMPORARILY SUPPORTING THE BOARDWALK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. ADDITIONAL DEAD OR LIVE LOAD SHALL NOT BE PERMITTED ON THE BOARDWALK DURING CONSTRUCTION.

GENERAL NOTES (CONTINUED)

CONCRETE

THE CONTRACTOR SHALL REFER TO THE C.O.C. CMS SECTIONS 499 AND 511 FOR CONCRETE SPECIFICATIONS AND PLACEMENT. ALL CONCRETE SHALL BE CLASS C (COMPRESSIVE STRENGTH = 4,000 PSI).

THE CONTRACTOR SHALL UTILIZE CIRCULAR FORMS AND SHALL ENSURE THAT SMOOTH ROUNDED EDGES ARE OBTAINED.

BEFORE PLACING CONCRETE, THOROUGHLY CLEAN ALL FORMS AND EXISTING FOOTINGS THAT CONTACT THE CONCRETE AND ENSURE THAT THE SPACE TO BE OCCUPIED BY THE CONCRETE IS FREE OF LAITANCE, SILT, DIRT, SHAVINGS, SAWDUST, LOOSE AND BUILT-UP RUST, AND OTHER DEBRIS.

FASTENERS

PLASTIC LUMBER FASTENERS SHALL FOLLOW THE INSTALLATION REQUIREMENTS AS ESTABLISHED BY THE SUPPLIER.

TIMBER FASTENERS SHALL BE 2 1/2" LONG #9 GALVANIZED STEEL SCREWS.

SEALING OF TIMBER MEMBERS

ALL EXPOSED SURFACES OF THE VERTICAL POSTS, LONGITUDINAL BEAMS, TRANSVERSE FLOORBEAMS, LONGITUDINAL CROSS BRACING AND BLOCKING, AND ABUTMENTS SHALL BE SEALED USING THE FOLLOWING TIMBER SEALER:

SUPERDECK EXTERIOR WATERBORNE CLEAR SEALER
SHERWIN-WILLIAMS PAINT COMPANY
COMMERCIAL STORE
883 KING AVENUE
COLUMBUS, OHIO 43212-2646
(614) 299-2116

THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS, PREPARATION, AND APPLICATION REQUIREMENTS AS ESTABLISHED BY THE SUPPLIER AND SHALL UTILIZE TARPS OR OTHER MEANS TO PREVENT SPILLAGE OR DRIPS FROM CONTACTING THE GROUND AT NO ADDITIONAL COST TO THE PROJECT OR CITY OF DUBLIN.

ALL LABOR, EQUIPMENT, AND MATERIALS NEEDED FOR THE SURFACE PREPARATION AND APPLICATION OF THE PROPOSED SEALANT SHALL BE INCLUDED IN THE BID PRICE FOR ITEM-TIMBER SEALANT.

TIMBER MEMBERS

FURNISH AND INSTALL TIMBER MEMBERS AS SHOWN IN THE PLANS. TIMBER SHALL CONFORM TO AASHTO M 168 AND BE TREATED ACCORDING TO AASHTO M 133.

ALL LABOR, EQUIPMENT, AND MATERIALS NEEDED TO FURNISH AND INSTALL THE TIMBER MEMBERS AS SHOWN IN THESE PLANS SHALL BE INCLUDED IN THE RESPECTIVE TIMBER MEMBER ITEM.

POST BRACKET ASSEMBLY

BRACKETS: THE CONTRACTOR SHALL USE SW60 STURDI-WALL BRACKETS AS SUPPLIED BY:

PERMA-COLUMN INC.
400 CAROL ANN LANE
OSSIAN, IN 46777
(800) 622-7190
www.permacolumn.com

POST BRACKET ASSEMBLY (CONTINUED)

THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS AND INSTALLATION REQUIREMENTS AS ESTABLISHED BY PERMA-COLUMN AND PROVIDED IN THIS BID DOCUMENT.

EXPANSION ANCHORS: EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT 3 (SS304), 1/2" DIA. X 4 1/2" LENGTH, OR EQUAL.

BOLTS AND HARDWARE: BOLTS SHALL BE ASTM A307 (GRADE 2). ALL BOLTS, WASHERS, AND HEX NUTS SHALL BE GALVANIZED.

2"x6" PLASTIC LUMBER

THE CONTRACTOR SHALL USE 2"x6" PLASTIC LUMBER AS SUPPLIED BY:

PLASTIC LUMBER YARD
220 E. WASHINGTON STREET
NORRISTOWN, PA 19401
(610) 227-3970
www.plasticlumberyard.com

THE CONTRACTOR MAY USE AN EQUIVALENT ALTERNATIVE SUPPLIER UPON APPROVAL BY THE ENGINEER.

THE PLASTIC LUMBER SHALL CLOSELY MATCH THE EXISTING TIMBER MEMBERS IN COLOR AND AS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS AND INSTALLATION REQUIREMENTS AS ESTABLISHED BY THE SUPPLIER.

ALL LABOR, EQUIPMENT, AND MATERIALS NEEDED TO FURNISH AND INSTALL THE 2"x6" PLASTIC LUMBER AS SHOWN IN THESE PLANS SHALL BE INCLUDED IN ITEM - 2"x6" PLASTIC LUMBER

ROCK CHANNEL PROTECTION, TYPE C, WITH FILTER FABRIC (AS PER PLAN)
INSTALL 5'-0" WIDE (1'-6" MIN. THICK) HAND-PLACED STRIP OF ROCK CHANNEL PROTECTION CENTERED ALONG DOWNSLOPE (NORTH) LINE OF VERTICAL POSTS BETWEEN POSTS 2 AND 32 PER CITY OF COLUMBUS 703.18. ITEM 703.18 MATERIALS SHALL CONSIST OF NATURAL, BROKEN, OR CRUSHED ROCK. BROKEN CONCRETE MATERIALS ARE UNACCEPTABLE. PORTIONS OF ROCK CHANNEL PROTECTION INSTALLED AT DRAINAGE OUTLETS SHALL CONFORM TO THE LAYOUT SHOWN IN OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD DRAWING HW-2.2. THE FILTER UNDERLYING ROCK CHANNEL PROTECTION SHALL BE FILTER FABRIC AS PER 712.09, TYPE B.

REMOVAL OF EXISTING TIMBER MEMBERS

THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NEEDED FOR THE REMOVAL AND DISPOSAL OF ALL TIMBER MEMBERS AND ASSOCIATED HARDWARE OR CONNECTIONS TO BE REPLACED.

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<i>QUANTITIES</i>	
<i>ITEM</i>	<i>QUANTITY</i>
<i>MOBILIZATION</i>	<i>LUMP</i>
<i>CONSTRUCTION LAYOUT STAKES</i>	<i>LUMP</i>
<i>CONSTRUCTION SEEDING AND MULCHING, AS PER PLAN</i>	<i>LUMP</i>
<i>MAINTENANCE OF TRAFFIC</i>	<i>LUMP</i>
<i>REMOVAL OF EXISTING TIMBER MEMBERS</i>	<i>LUMP</i>
<i>2"x6" PLASTIC LUMBER</i>	<i>9090 FT.</i>
<i>2"x4" TIMBER BOARDS</i>	<i>510 FT.</i>
<i>2"x6" TIMBER BOARDS</i>	<i>1852 FT.</i>
<i>2"x8" TIMBER BOARDS</i>	<i>1852 FT.</i>
<i>4"x6" TIMBER SPACER BLOCKS</i>	<i>23 EACH</i>
<i>CONCRETE</i>	<i>5 CU. YD.</i>
<i>FASTENERS</i>	<i>69 LBS.</i>
<i>TIMBER SEALANT</i>	<i>32 GAL.</i>
<i>POST BRACKET ASSEMBLY</i>	<i>96 EACH</i>
<i>ROCK CHANNEL PROTECTION, TYPE C, WITH FILTER FABRIC (AS PER PLAN)</i>	<i>82 CU. YD.</i>

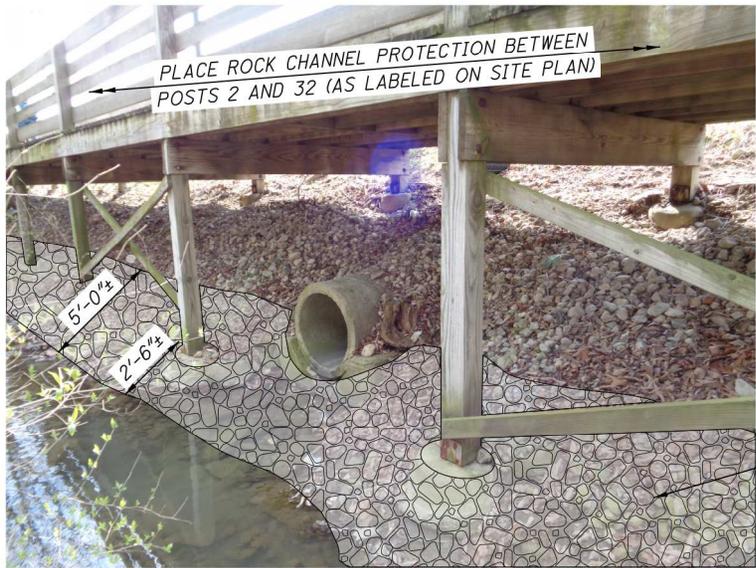
REPLACE-IN-KIND EXISTING
2"x6" TIMBER RAILS
(MIDDLE RAILS)
(TYP. BOTH SIDES)
(92 TOTAL 19'-8"± LONG BOARDS,
4 TOTAL 9'-10"± LONG BOARDS,
1852 TOTAL LINEAR FT.)



REPLACE-IN-KIND EXISTING
2"x8" TIMBER RAILS
(TOP AND BOTTOM RAILS)
(TYP. BOTH SIDES)
(92 TOTAL 19'-8"± LONG BOARDS,
4 TOTAL 9'-10"± LONG BOARDS,
1852 TOTAL LINEAR FT.)

REPLACE EXISTING 2"x6" TIMBER DECKING
WITH 2"x6" PLASTIC LUMBER
(1010 TOTAL 9'-0"± LONG BOARDS,
9090 TOTAL LINEAR FT.)

TYPICAL SECTION



PLACE ROCK CHANNEL PROTECTION BETWEEN
POSTS 2 AND 32 (AS LABELED ON SITE PLAN)

TYPE C ROCK CHANNEL PROTECTION,
1'-6" MIN. THICKNESS
(5'-0"± WIDE, CENTERED ON POSTS)
(NORTH SIDE OF BOARDWALK ONLY)

ROCK CHANNEL PROTECTION DETAIL

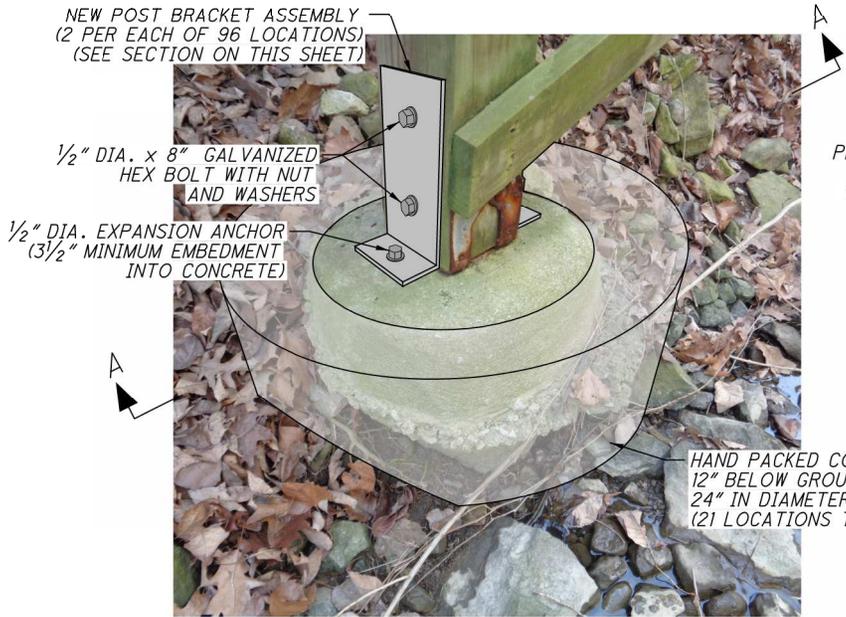
REPLACE-IN-KIND EXISTING
4"x6" SPACER BLOCKS
(23 TOTAL LOCATIONS)



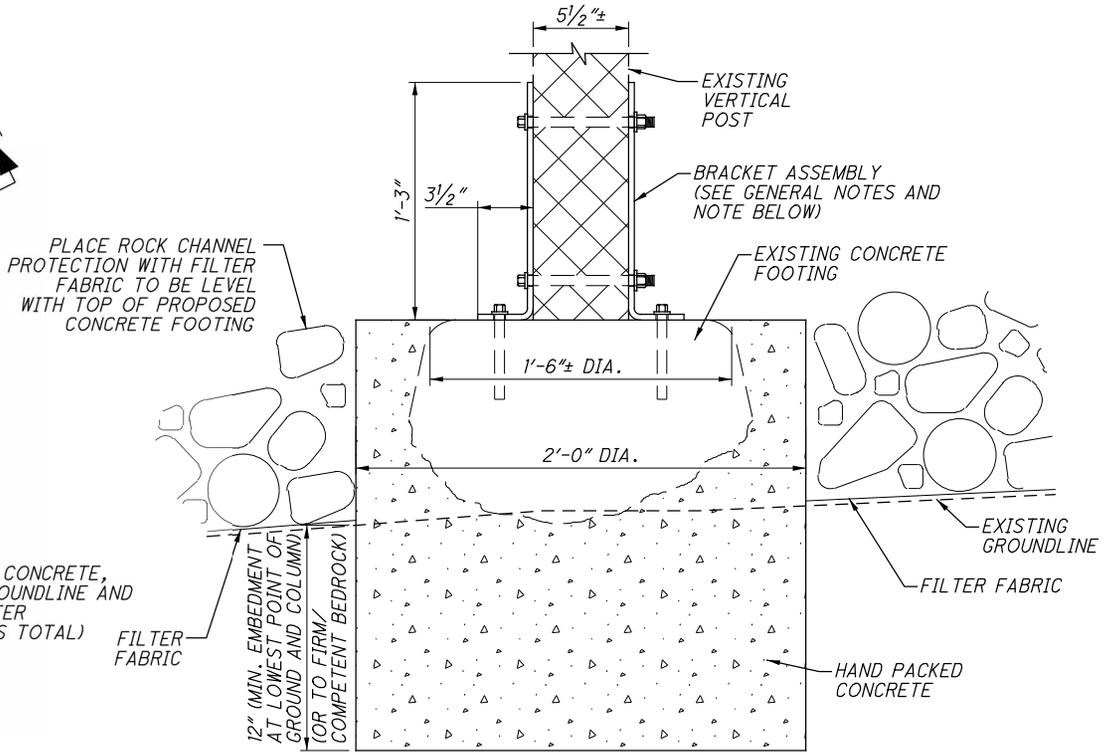
REPLACE-IN-KIND EXISTING
2"x4" TIMBER MEMBERS
(23 TOTAL LOCATIONS)
(510 TOTAL LINEAR FT.)

TYPICAL BRACING REPAIR

BOARDS SHOULD BE CUT TO FIT
EXISTING BOARDS MEASURE
BETWEEN 10" AND 12" IN LENGTH



TYPICAL VERTICAL POST SUPPORT REPAIR
 PROPOSED ROCK CHANNEL PROTECTION NOT SHOWN FOR CLARITY



SECTION A-A

- EACH POST BRACKET ASSEMBLY SHALL CONSIST OF:
- 2 - SW60 BRACKETS
 - 2 - 1/2" DIA. x 8" GALVANIZED BOLTS
 - 2 - 1/2" EXPANSION ANCHORS
 - 2 - HEX NUTS
 - 6 - WASHERS