

PROJECT REFERENCE NO. B-5772	SHEET NO. UC-6A
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UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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TEMPORARY BRIDGE FOR SUPPORT OF WATER LINE
 THE BRIDGE STRUCTURE SHOWN ON THESE DRAWINGS IS FOR THE TEMPORARY SUPPORT OF THE WATER LINE THAT IS TO REMAIN IN SERVICE DURING THE CONSTRUCTION OF THE BRIDGE REPLACEMENT. THE DESIGN AND CONSTRUCTION OF THE TEMPORARY BRIDGE SHALL CONFORM TO THE FOLLOWING STANDARDS.

DESCRIPTION
 THE CONTRACTOR SHALL FURNISH DESIGN CALCULATIONS AND DRAWINGS REQUIRED; FURNISH MEMBERS AND DECK MATERIALS FOR STRUCTURES AND ANY OTHER MATERIALS NECESSARY. ERECT, MAINTAIN, REMOVE AND DISPOSE OF TEMPORARY STRUCTURES REQUIRED FOR THE MAINTENANCE OF THE WATER LINE AND FOR MAINTENANCE PERSONNEL ACCESS. THE BRIDGE STRUCTURE DOES NOT NEED TO BE DESIGNED FOR PEDESTRIAN, HIGHWAY AND OTHER TRAFFIC LOADINGS. CONSTRUCT TEMPORARY STRUCTURES IN ACCORDANCE WITH THE CONTRACT.

MATERIALS
 USE MATERIALS FOR TEMPORARY STRUCTURES THAT CONFORM TO DIVISION 10 OR PREVIOUSLY USED MATERIALS CONFORMING TO THE CONTRACT. OBTAIN APPROVAL FOR THE USE OF SALVAGED MATERIALS AND MATERIALS NOT COVERED BY DIVISION 10 BEFORE THEIR USE.

PLANS

- A. FURNISHING PLANS:**
- USE THE PLANS FOR THE TEMPORARY STRUCTURE FURNISHED IN THESE DRAWINGS AND SUBMIT A DESIGN IN ACCORDANCE WITH PARAGRAPH B.
 - FOR ALL CONTRACTOR DESIGNS, FURNISH ONE SET OF DESIGN CALCULATIONS AND DETAIL DRAWINGS OF THE STRUCTURE IN ACCORDANCE WITH PARAGRAPH B.
 - SUBMIT DETAIL DRAWINGS AND DESIGN CALCULATIONS FOR TEMPORARY STRUCTURES FOR REVIEW AND COMMENT BEFORE BEGINNING WORK. DO NOT PERFORM ANY WORK UNTIL THE DETAIL DRAWINGS ARE REVIEWED AND ACCEPTED.

ACCEPTANCE OF SUCH DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR SAFETY AND CONTINUOUSLY MAINTAINING SUPPORT FOR THE WATER LINE.

- B. DESIGN REQUIREMENTS FOR CONTRACTOR FURNISHED DRAWINGS:**
- PROVIDE TEMPORARY STRUCTURES OF SUCH CARRYING CAPACITY, DIMENSIONS, GRADES AND ALIGNMENT AS REQUIRED BY THESE DRAWINGS. DESIGN TEMPORARY STRUCTURE TO CARRYING THE UTILITY LOADS AND UNIFORM LIVE LOADS IN THE FOLLOWING MAGNITUDES:
 - UTILITY LOADING (WATER LINE + ENCASEMENT): 90 POUNDS PER LINEAR FOOT* UNIFORM LIVE LOADING;
 - *UNIFORM LINE LOAD PLACED AT CENTERLINE OF BRIDGE
 - ENSURE AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA DESIGNS AND DETAILS THE TEMPORARY STRUCTURE. CONSTRUCT THE TEMPORARY STRUCTURE IN ACCORDANCE WITH THIS DESIGN. THE DRAWINGS SHALL BE SEALED AND SIGNED BY THE DESIGN ENGINEER.
 - INDICATE IN THE PLANS, THE SPECIFICATIONS FOR THE MATERIALS USED IN THE TEMPORARY STRUCTURE.
 - FOUNDATIONS SHALL BEAR ON RESIDUAL SOIL OR ENGINEERED FILL HAVING A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2,000 PSF. THE CONTRACTOR SHALL HAVE THE FOUNDATION BEARING SOILS VERIFIED BY AN INDEPENDENT TESTING COMPANY PRIOR TO CASTING CONCRETE.

CONSTRUCTION METHODS

- CONSTRUCT AND MAINTAIN TEMPORARY STRUCTURE TO ADEQUATELY AND SAFELY CARRY SPECIFIED LOADING DURING THE ENTIRE PERIOD FOR WHICH THEY ARE REQUIRED.

- REMOVE AND DISPOSE OF THE TEMPORARY STRUCTURES AFTER THEY ARE NO LONGER REQUIRED IN ACCORDANCE WITH THE SECTION BELOW.
- UPON REMOVAL OF THE TEMPORARY STRUCTURE, ALL MATERIAL FURNISHED BY THE CONTRACTOR FOR USE IN THIS STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE PROVIDED IN THE CONTRACT.
- UNLESS OTHERWISE SPECIFIED IN THE CONTRACT, REMOVE TEMPORARY PILING TO THE STREAMBED LEVEL OR TO ONE FOOT BELOW EXISTING GROUND.

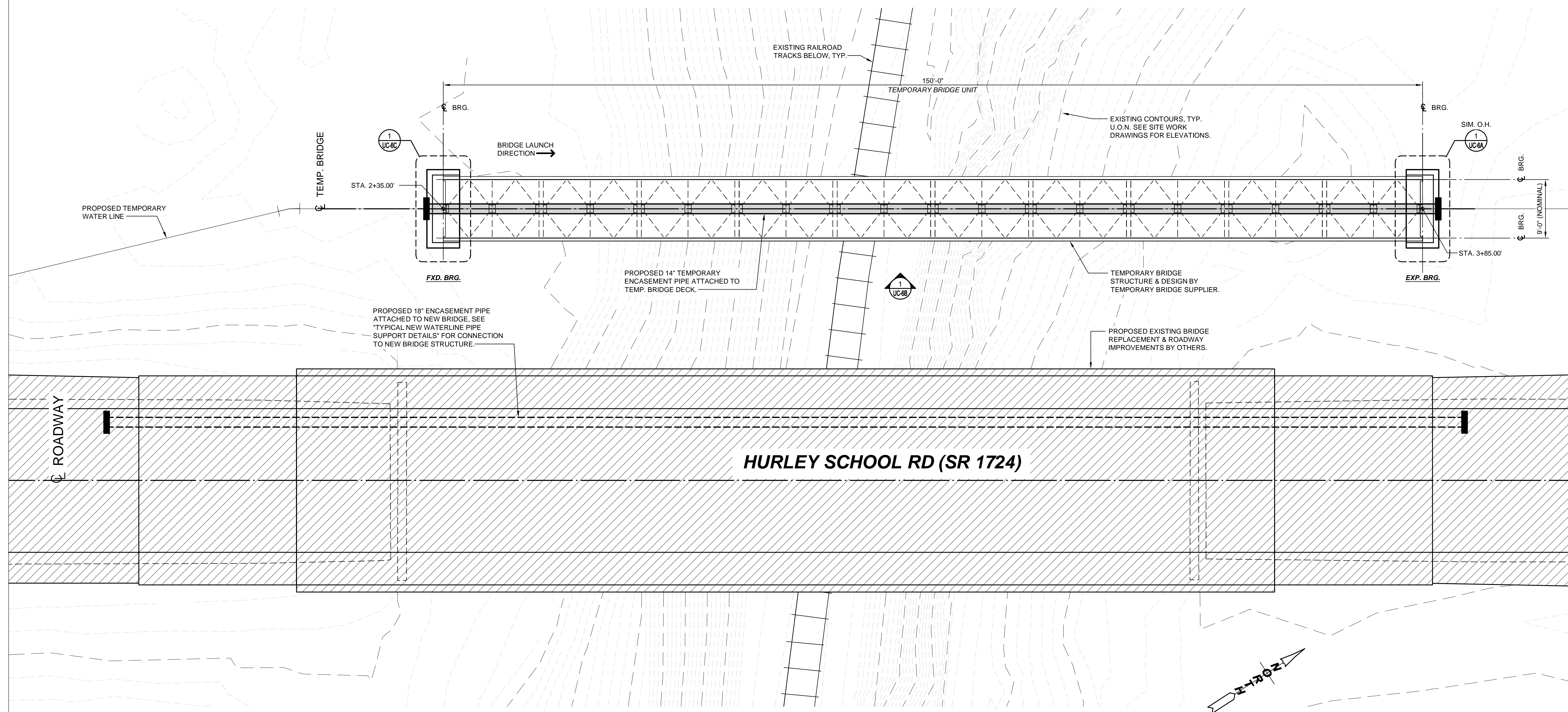
MEASUREMENT AND PAYMENT

- THE PRICE AND PAYMENT BELOW WILL BE FULL COMPENSATION FOR ALL WORK REQUIRED TO PROVIDE TEMPORARY STRUCTURES.
- THE WORK COVERED BY THIS SECTION WILL BE PAID AT THE CONTRACT LUMP SUM PRICE FOR 8" TEMPORARY WATER LINE BRIDGE ATTACHMENT.
- PAYMENT WILL BE MADE UNDER:
 - PAY ITEM PAY UNIT
 - 8" TEMPORARY WATERLINE BRIDGE ATTACHMENT LUMP SUM

REMOVAL OF TEMPORARY STRUCTURES

- EXCAVATE AS NECESSARY TO REMOVE THE STRUCTURE; DISMANTLE, SALVAGE AND STOCKPILE MATERIALS AND COMPONENTS OF THE TEMPORARY STRUCTURE.
- MAINTAIN ACCESS AND SUPPORT OVER THE TEMPORARY STRUCTURE IN ACCORDANCE WITH DIVISION 11 UNLESS OTHERWISE STIPULATED BY THE CONTRACT. COMPLY WITH THE POSTED LOAD LIMITS OF THE TEMPORARY STRUCTURE. THE MAINTENANCE OF THE TEMPORARY STRUCTURE IS THE RESPONSIBILITY OF THE CONTRACTOR.

- USE APPROVED METHODS AND OPERATIONS FOR REMOVAL OF THE TEMPORARY STRUCTURE. UPON REMOVAL, ALL MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE INDICATED IN THE CONTRACT. DISPOSE OF WASTE AND DEBRIS FROM THE TEMPORARY STRUCTURE IN ACCORDANCE WITH SECTION 802.
- PERFORM REMOVAL OPERATIONS WHILE PREVENTING DAMAGE TO ADJACENT PROPERTY. PROTECT NEW CONSTRUCTION DURING OTHER OPERATIONS NECESSARY FOR THE REMOVAL OF THE TEMPORARY STRUCTURE.
- UNLESS OTHERWISE REQUIRED BY THE CONTRACT, REMOVE TEMPORARY SUBSTRUCTURE DOWN TO ONE FOOT BELOW THE NATURAL GROUND SURFACE. REMOVE THE SUBSTRUCTURE AS NECESSARY TO AVOID INTERFERENCE WITH CONSTRUCTION OF THE PROPOSED STRUCTURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, THE DESIGN OF, ERECTING, AND REMOVING ANY TEMPORARY SHORING AND BRACING DURING CONSTRUCTION (INCLUDING SUPPORT OF ALL EXCAVATIONS).
- ALL SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED. WITH THE EXCEPTION OF SPECIFIC DIRECTION PROVIDED IN THE CONSTRUCTION DOCUMENTS HEREIN, THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. FOR ACTS OF OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE EXISTING BUILDING(S), OWNER EQUIPMENT, ROADS, WALKS, AND UTILITIES. HE SHALL MAINTAIN THEM DURING THE COURSE OF WORK AND REPAIR ALL DAMAGES AT HIS OWN EXPENSE.



TEMPORARY WATERLINE SUPPORT BRIDGE FOUNDATION PLAN - STATION 3+10.00'

1/8" = 1'-0"
 FY216011-PLNS