ADDENDUM NO. 1

PROJECT: East Tennessee State University -
New Football Stadium:
Bid Package No. 01 - Miscellaneous Scopes
SBC No. 166 / 005-02-2013

MHM PROJECT NO. 15012

DATE: October 27, 2015

McCARTY HOLSAPE McCARTY, INC.
550 WEST MAIN STREET
SUITE 300
KNOXVILLE, TENNESSEE 37902

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of the Contract Documents for the East Tennessee State
University – New Football Stadium: Bid Package No. 01 - Miscellaneous Scopes, and
modifies the original specifications and drawings issued for bidding August 31, 2015.

BID DAY AND TIME
Bid Day and Time remain unchanged as November 3 @ 2:00 pm. Bid Opening Location remains
unchanged at the offices of BurWil Construction, the Construction Manager.

PROJECT MANUAL
A. Section 00.10.10 “TABLE OF CONTENTS”:
   1. Section is reissued in its entirety, copy attached, footer dated 27-OCT-15.

B. Section 00.11.19 “REQUEST FOR GMP PROPOSAL”:
   1. Section is reissued in its entirety, copy attached, footer dated 27-OCT-15.

C. Section 00.31.00 “AVAILABLE PROJECT INFORMATION”:
   1. Section is reissued in its entirety, copy attached, footer dated 27-OCT-15.

D. Section 01.10.00 “SUMMARY”:
   1. Section is reissued in its entirety, copy attached, footer dated 27-OCT-15.

E. Section 01.20.00 “PRICE AND PAYMENT PROCEDURES”:
   1. Section was incorrectly listed in Table of Contents and has been deleted therefrom.

F. Section 01.57.23 “TEMPORARY STORM WATER POLLUTION CONTROL”:
   1. The project’s SWPPP and associated Notice of Intent are hereby issued for the Record.

G. Section 01.61.16 “VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT
   RESTRICTIONS”:
   1. Section is newly issued, copy attached, footer dated 27-OCT-15.
PROJECT MANUAL (cont’d.)

H. Section 05.12.00 “STRUCTURAL STEEL FRAMING”:
   1. Pre-Bid RFI No. 1 Response: The requirement for accreditation by the International Accreditation Fabricator Inspection Program is hereby waived.

I. Section 08.33.23 “OVERHEAD COILING DOORS”:
   1. Pre-Bid RFI No. 1 Response: The proposed face-mounted overhead door is acceptable, in lieu of between-the-jamb mount indicated on the Drawings.

K. Section 08.71.00 “DOOR HARDWARE”:
   1. Pre-Bid RFI No. 1 Response: The proposed substitute brand Ives Hinges, Push Plates, Pull Plates and Handles, Wall Stops and Silencers are all approved.
   2. Pre-Bid RFI No. 1 Response: The proposed substitute brand Falcon Cylindrical Locks and Door Closers are not approved.

L. Section 09.22.16 “NON-STRUCTURAL METAL FRAMING”:
   1. Section was incorrectly listed in Table of Contents and has been deleted therefrom.

M. Section 09.65.19 “RESILIENT TILE FLOORING”:
   1. Section was incorrectly listed in Table of Contents and has been deleted therefrom.

N. Section 10.11.01 “VISUAL DISPLAY BOARDS”:
   1. Section is newly issued, copy attached, footer dated 27-OCT-15.

O. Section 11.68.13 “CHALLENGE COURSE”:
   1. Section is reissued in its entirety, copy attached, footer dated 27-OCT-15.
   2. Pre-Bid RFI No. 2 Responses:
      a. Completion Schedule: The completion schedule of March 16, 2016 is a project requirement established by the Owner and will not be changed.
      b. Bid Date: The Bid Date remains unchanged at November 3, 2015.
      c. Specification section has been revised to address questions submitted by Challenge Towers, pages 1 through 2.
      d. Mulch: Provide recycled, shredded rubber mulch, 4” minimum thickness, with steel edge containment. Product shall be Playsafer cocoa brown rubber mulch, or approved equal.

P. Section 13.34.19 “METAL BUILDING SYSTEMS”:
   1. Pre-Bid RFI No. 1 Responses:
      a. Roof and Wall Panel Thicknesses: All panels are uninsulated; provide manufacturer’s standard metal thicknesses for roof and wall panels.
      b. Roof and Wall Finish: Finish shall be silicone polyester.
      c. Roof Attachment: Provide standing seam roof.
      d. Panel Fasteners: Concealed fasteners are not required.
      e. UL 580 Uplift Class: Uplift Class 90 is required.
      f. Soffit Panels: Provide soffit panels on Salt Storage building roof extension.
      g. X-Bracing @ Salt Storage: X-bracing at the rear of the salt storage metal structure is acceptable.
      h. Recycling Center Package: A standard building package is acceptable.
      i. Galvanized Steel: Galvanized steel is required for all structural elements at both the Salt Storage and the Recycling Center.
      j. R-Panels: R-type panels are acceptable, in lieu of corrugated.
      k. Building Manufacturers: A&S, Nucor, Star and United Structures are all acceptable manufacturers, subject to meeting the requirements of the specifications.
**PROJECT MANUAL (cont’d.)**

Q. Section 23.06.16 “TERMINAL BOX POINT CALIBRATION CHECK SHEET”:
   1. Section was inadvertently omitted at time of printing, and is issued, copy attached, footer not dated.

R. Section 26.08.16 “TERMINAL BOX POINT CALIBRATION”:
   1. Section was incorrectly listed in Table of Contents and has been deleted therefrom.

S. Section 27.08.00 “COMMISSIONING AND DOCUMENTATION”:
   1. Section was inadvertently omitted at time of printing, and is issued, copy attached, footer dated 31-AUG-15.

T. Section 32.31.13 “CHAIN LINK FENCES AND GATES”:
   1. Section is reissued in its entirety, copy attached, footer dated 27-OCT-15.

**DRAWINGS**

A. Civil Drawing C062: Refer to responses provided under Section 11.68.13 “CHALLENGE COURSE” for mulch type, thickness and edge containment.

B. Architectural Drawing A061 “BASLER CHALLENGE COURSE – SITE PLAN”: Drawing has been revised to reflect Owner review comments, and is hereby reissued under Rev1, revision block dated 27-OCT-15.

C. Architectural Drawing A062 “BASLER CHALLENGE COURSE – PAVILIONS ENLARGED PLANS AND ELEVATIONS”: Drawing has been revised to reflect Owner review comments, and is hereby reissued under Rev1, revision block dated 27-OCT-15.

D. Plumbing Drawing P051 “RECYCLE BLDG. PLUMBING PLAN”: Drawing has been revised to reflect Contractor questions, and is hereby reissued under Rev1, revision block dated 27-OCT-15.

E. Plumbing Drawing P061 “BASLER CHALLENGE COURSE PLUMBING PLAN”: Drawing has been revised to reflect Owner review comments, and is hereby reissued under Rev1, revision block dated 27-OCT-15.

F. Site Electrical Drawing SE051 “RECYCLE BLDG SITE ELECTRICAL PLAN”: Drawing has been revised to reflect Owner review comments, and is hereby reissued under Rev1, revision block dated 27-OCT-15.

**ATTACHMENTS**

**SPECIFICATIONS**

A. Section 00.10.10 “TABLE OF CONTENTS”, pages 1-5, footer dated 27-OCT-15.

B. Section 00.11.19 “REQUEST FOR GMP PROPOSAL”, page 1, footer dated 27-OCT-15.

C. Section 00.30.00 “AVAILABLE PROJECT INFORMATION”, page 1, footer dated 27-OCT-15.

D. Section 01.10.00 “SUMMARY”, pages 1-2, footer dated 27-OCT-15.
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SPECIFICATIONS (cont’d.)

E. Section 01.57.23 “TEMPORARY STORM WATER POLLUTION CONTROL”, SWPPP and NOI documents, pages 1-30, dated 05-OCT-15.

F. Section 01.61.16 “VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT RESTRICTIONS”, pages 1-3, footer dated 27-OCT-15.

G. Section 10.11.01 “VISUAL DISPLAY BOARDS”, pages 1-2, footer dated 27-OCT-15.
H. Section 11.68.13 “CHALLENGE COURSE”, pages 1-6, footer dated 27-OCT-15.

I. Section 23.06.16 “TERMINAL BOX POINT CALIBRATION CHECK SHEET”, page 1, footer not dated.

J. Section 27.08.00 “COMMISSIONING AND DOCUMENTATION”, page 1, footer dated 31-AUG-15.


DRAWINGS


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REQUEST FOR GMP PROPOSAL

For Project: New Football Stadium for East Tennessee State University
SBC No. 166/005-02-2013
Bid Package No. 1 – Miscellaneous Scopes

A. A Guaranteed Maximum Price proposal is requested for the Work described in this Project Manual and the associated drawings and addenda. You are to obtain bids for trade subcontracts, and develop the proposal in accordance with the CM/GC Master Contract.

B. The proposal shall be for:

X a new Contract.

☐ an amendment to an existing Contract.

C. The proposal shall offer alternates as specified. In addition, voluntary alternates:

☐ may be proposed, up to _____________ in number.

X may not be proposed.

D. Contract Bond, in the amount of 100% of the Contract Sum, on the Owners standard form is required. If this proposal is for an amendment, a rider to the existing bond acknowledging the amendment and the revised Contract Sum is required. A Three-Year Roof Bond is:

X required, for 1) Recycling Center @ $6,000; 2) Salt Storage @ $8,400; 3) Challenge Course Pavilions @ $15,000.

☐ not required.

E. Substantial completion of this Work shall be achieved in the number of calendar days Contract Time allotted each Phase below, from and including the Commencement of each, and accepting the conditions for Liquidated Damages, per day, in the amount set forth for each, wholly and severally for each Phase:

<table>
<thead>
<tr>
<th>Phase</th>
<th>Commencement</th>
<th>Contract Time</th>
<th>Liquidated Damages</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Notice to Proceed for all Work</td>
<td>115 days</td>
<td>$1,000</td>
</tr>
</tbody>
</table>

END OF SECTION
PART 1  GENERAL

1.01  EXISTING CONDITIONS

A.  Certain information relating to existing surface and subsurface conditions and structures is available to bidders but will not be part of the Contract Documents, as follows:

   1.  Original copy is available for inspection at Construction Manager’s offices during normal business hours.
   2.  This survey identifies grade elevations prepared primarily for the use of Architect and Civil Engineer in establishing new grades and identifying natural water shed.

   1.  Original copy is available for inspection at _____ during normal business hours.
   2.  This report identifies properties of below grade conditions and offers recommendations for the design of foundations, prepared primarily for the use of Structural Engineer.
   3.  The recommendations described shall not be construed as a requirement of this Contract, unless specifically referenced in the Contract Documents.
   4.  This report, by its nature, cannot reveal all conditions that exist on the site.  Should subsurface conditions be found to vary substantially from this report, changes in the design and construction of foundations will be made, with resulting credits or expenditures to the Contract Price accruing to Owner.

   1.  Original copy is available for inspection at Construction Manager’s offices during normal business hours.

PART 2  PRODUCTS (NOT USED)

PART 3  EXECUTION (NOT USED)

END OF SECTION
PART 1 GENERAL

1.01 PROJECT

A. Project Name: East Tennessee State New Football Stadium.

B. SBC No.: 166/005-02-2013

C. Owner's Name: East Tennessee State University/Tennessee Board of Regents.

D. Architect's Name: McCarty Holsaple McCarty, Inc.

E. The Project consists of the construction of football field, concourses, seating bowl, west side skybox structure, concessions/toilets buildings, entrance gate, and certain replacement structures.

F. The Project will be issued under Multiple Bid Packages, as follows:

1. **Bid Package No. 01 - Miscellaneous Scopes:** Scope of Work includes abatement and demolition of existing structures, as well as new minor structures to replace those being demolished for the stadium and associated new work. Replacement structures include the following:
   a. Recycling Center
   b. Chemical Storage Pod and Slab-on-Grade
   c. Salt Storage
   d. Fenced Equipment Storage
   e. Basler Challenge Course and Associated Pavilion Structures

2. **Bid Package No. 02 - Rough Grading and Early Utilities:** Scope of Work includes the following:
   a. Rough Grading
   b. New Storm Sewer (to replace existing being demolished for new stadium)
   c. New Sanitary Sewer (to replace existing being demolished for new stadium)
   d. Below-Grade Electrical
   e. Below-Grade Telecommunications
   f. Recreational Fields Parking Lot

3. **Bid Package No. 03 - Deep Foundations:** Scope of Work includes caissons for new west side skybox structure.

4. **Bid Package No. 04 - Balance of Stadium Project:** Scopes of Work includes the following:
   a. Football Field
   b. Concrete Concourses on Grade
   c. Concessions/Toilets Building (two total - one equipped with a basement for grounds maintenance equipment and offices)
   d. West Side Skybox Structure
   e. East Side Main Entrance Gate/Ticket Booths Structure
   f. Below-Grade Utilities for Field and Structures
   g. Scoreboard, Supporting Structure and related Electronic Stadium Equipment
   h. Audio/Visual Equipment and Infrastructure
   i. Food Service Equipment
   j. Landscaping and Irrigation
   k. Video/Broadcast Trucks Parking Area and A/V Connectivity Panels
   l. East Side Roundabout
   m. West Side Roundabout and Associated Parking

1.02 CONTRACT DESCRIPTION

A. Contract Type: Construction Manager at Risk based on Guaranteed Maximum Price as described in Document 00.52.13 - Standard Form of Agreement.


1.03 OWNER OCCUPANCY  
A. Owner intends to occupy the Project upon Substantial Completion.  
B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.  
C. Schedule the Work to accommodate Owner occupancy.

1.04 CONTRACTOR USE OF SITE AND PREMISES  
A. Construction Operations: Limited to areas noted on Drawings.  
B. Provide access to and from site as required by law and by Owner:  
   1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.  
   2. Do not obstruct roadways, sidewalks, or other public ways without permit.  
C. Time Restrictions:  
   1. Limit conduct of especially noisy exterior work to the hours of 7:00 AM to 6:00 PM.  
D. Utility Outages and Shutdown:  
   1. Limit shutdown of utility services to 4 hours at a time, arranged at least 72 hours in advance with Owner.  
   2. Prevent accidental disruption of utility services to other facilities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION
ETSU Football Stadium – Phase 1
N. Dossett Dr.
Johnson City, TN

Stormwater Pollution Prevention Plan (SWPPP)
and Notice of Intent (NOI)

Submitted to
Tennessee Department of Environment & Conservation
(TDEC)

Submitted for
ETSU Facilities Planning, Management & Construction
Mr. William B. Rasnick
P.O. Box 70653
Johnson City, TN 37614

Date
October 5, 2015
FMA Project No. 391.007

Submitted By:
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Certification

This Stormwater Pollution Prevention Plan (SWPPP) is developed in accordance with the Tennessee General NPDES Permit (TNR100000) for stormwater discharges associated with Construction Activity (TNCGP), and is prepared using sound engineering practices. As instructed by subpart 2.7 of the TNCGP, this plan and its attachments are hereby submitted to the local Environmental Field Office (EFO), along with the complete Notice of Intent (NOI). Typically, construction will not be initiated prior to 30 days from the date of submittal of this document, or prior to receipt of a Notice of Coverage (NOC) from the Tennessee Department of Environment and Conservation (TDEC).

Owner/Developer: ETSU Facilities Planning, Management & Construction
Attn: Mr. William B. Rasnick
P.O. Box 70653
Johnson City, TN 37614
Office: (423) 439-7900

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed: William B. Rasnick Date: 10/6/15
Printed Name: William B. Rasnick

Primary Contractor:

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above, and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations and for failure to comply with the requirements of this permit.

Signed: __________________________ Date: __________
1. General Information

Current versions of this SWPPP, NOI, and the NOC will be kept on-site for the duration of the project. These items will be available for the use of operators and site personnel involved with visiting the site. A notice will be posted near the construction entrance containing a copy of the NOC with the tracking number assigned by the EFO, the name, company name, telephone number, and address of the project site owner or a local contact person for the development, and a brief description of the project. Also, the erosion and sediment control inspector will post on site a certificate stating that the inspector has successfully completed the Fundamentals of Erosion Prevention and Sediment Control course offered by TDEC.

Any new contractor on the project that has any responsibility to install, inspect, or maintain erosion or sediment control measures will sign the contractor’s certification on a copy of the NOI (Attachment 1) and will submit it to the local EFO. Any correspondence with TDEC or any EFO will reference the tracking number assigned by TDEC to the project. The Contractor will submit a Notice of Termination (NOT) after the complete installation and successful establishment of the final stabilization activities have occurred at the site.

It is the intent and goal of the TNCGP and this SWPPP that stormwater discharge from the property described in this document causes no objectionable color contrast to the water body that receives it. The construction activity will be carried out in such a manner as to prevent discharge that would cause a condition in which visible solids, bottom deposits, or turbidity impairs the usefulness of the waters on the property or downstream of the property for fish and aquatic life, livestock watering and wildlife, recreation, irrigation, navigation, or industrial or domestic water supply. Should any discoloration occur prior to effluent leaving the site the contractor is advised to use a polyacrylamide in the influent waters just upstream of the sediment basin/pond/trap.

This plan may be amended for reasons described herein, or for other reasons. When the plans are revised, the contractor will implement the changes to erosion prevention and sediment controls within 48 hours after the need for modification is identified.

2. Site Description

This section provides a description of the existing site conditions and a description of the proposed project.

2.1. Existing Site Conditions

Three different projects are being proposed on the East Tennessee State University (ETSU) campus located in Johnson City, Tennessee. The pre-project site conditions are described for each of the three sites below:

- **SITE 1:** The project area is located southeast of the ETSU main campus. The project site sits on the corner of Treasure Ln and Centennial Dr. Existing use of the lot is a
parking lot, two warehouse buildings, and grass. The average slope of the site is approximately 7%.

- **SITE 2:** The project area is located in the heart of the ETSU main campus. The project sits bounded by N. Dossett Dr. to the north, John Robert Bell Dr. to the east, and Beller Dr. to the west. The Existing use of the lot is a chem storage building with chiller pads and grass. The average slope of this site is approximately 5%.

- **SITE 3:** The project area is located on the southwestern part of the ETSU main campus. The project is located at the corner of S. Greenwood Dr. and JL Seehorn Jr. Rd. Existing use of the lot is a field with fencing and a walking trail. The average slope of the site is approximately 7%.

Runoff from all three sites drains to Brush Creek, which is a 303(d) listed stream for E. Coli, Nitrate/Nitrite, Other Anthropogenic Substrate Alterations, and Sedimentation/Siltation. Brush Creek will not be impacted by this proposed development and will remain in its current condition after the construction of this project.

There are no known sinkholes located within the proposed construction area.

### 2.2. Project Description

This SWPPP pertains to site development as it relates to:

- **Site 1:** Construction activities include site grading, the construction of a gravel pad, and constructing a concrete pad for a recycling center and salt storage facility. Access to the site will be provided from Centennial Dr., located north of the site. The total disturbed area from the activities described above and any temporary off-site storage and borrow areas will be approximately 0.38 acres.

- **SITE 2:** Construction activities include site grading and the construction of a concrete pad for a chem storage building. Access to the site will be provided from John Robert Bell Dr., located east of the site. The total disturbed area from the activities described above and any temporary off-site storage and borrow areas will be approximately 0.02 acres.

- **SITE 3:** Construction activities include site grading for the construction of fencing, walking paths, and a challenge course. Access to the site will be provided from an existing road off of JL Seehorn Jr. Rd. located southeast of the site. The total disturbed area from the activities described above and any temporary off-site storage and borrow areas will be approximately 2.64 acres.

Soil disturbing activities will include clearing and grubbing, installing a stabilized construction entrance, perimeter and other erosion controls. The anticipated schedule for construction activities is from November 2015 to May 2016.

Soils that will be used for fill will be material that is free of rock or gravel larger than 4 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious
matter. These soils will have a plasticity index (Pl) less than or equal to 30, a liquid limit less than 60, and a minimum dry density of 90 pounds per cubic foot (pcf).

Control of stormwater runoff for the developed site will be provided via area drains, curb inlets, grass swales, and pipes.

Reference the construction plans for a general location map, site plan, site details, and for an identification of outfall points of stormwater discharge from the site. There are no non-stormwater discharges on the proposed site. When dewatering open trenches after a rainfall event, the water will be filtered through a filter bag or other device in order to remove suspended sediment before the water is released off-site.

No construction activities related to this project shall take place within a stream without obtaining the proper Aquatic Resource Alteration Permit (ARAP) from TDEC.

3. Spills and Non-Stormwater Contingencies

Fueling of equipment and vehicles on-site will be conducted near the construction entrance/staging area. Spills will be removed immediately. Contaminated soils will be placed on heavy plastic and covered or placed into approved containers to prevent contact with stormwater. Fuel tanks will be located within a designated area. Oils, other vehicle fluids, paints, and solvents will be stored in the construction trailer or other covered structure. Any spills in excess of 2-gallons will be reported to a representative of project Contractor or Owner.

Materials and equipment necessary for spill cleanup will be kept in the material storage area on-site. Equipment and materials may include, but will not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period, the Contractor will immediately notify the permittee who shall then notify the National Response Center (NRC) at 800-424-8802, the Tennessee Emergency Management Agency (TEMA) at 800-262-3300 for emergencies or 800-262-3400 for non-emergencies, and the local Environmental Field Office (EFO).

Within 14 days of knowledge of discharge, permittee must provide to the EFO a written description of the date of release and the circumstances leading to the release.

In the event that a release occurs, the Contractor will prepare a revision of this document to identify measures to prevent the reoccurrence of such releases and how to clean-up the spill if there is another one. A description of the spill, what caused it and the clean-up measures will also be included.

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site unless appropriate provisions are provided.
Each contractor is responsible to provide litter control for trash generated by their crew(s). A dumpster or other appropriate securely lidded container for garbage will be located near the construction trailer and is limited to garbage and paper trash only.

On-site vehicles and mechanical equipment will be monitored for leaks and receive regular preventive maintenance to reduce the potential of leakage. Petroleum products will be stored in tightly sealed containers, which are clearly labeled. Asphalt substances used on-site will be applied according to the manufacturer’s recommendations. Waste materials will be properly disposed of according to the manufacturer’s instructions and in conformance with applicable Local, State, and Federal regulations.

Fertilizers will be applied only in the minimum amounts recommended by the manufacturer or as otherwise specified herein. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater; store fertilizer in a covered shed or other protective enclosure. The contents of used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Paint containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system, but will be properly disposed of according to the manufacturer’s instructions and in conformance with applicable Local, State, and Federal regulations.

Other non-stormwater discharges will be directed toward an area of undisturbed vegetation. These include discharges that are expected from the site during the construction period such as water from water line flushings.

Non-stormwater discharges not specifically listed in this section are prohibited, unless specifically allowed by the Construction General Permit and adequate pollution prevention measures are utilized.

4. **Construction Sequencing**

The erosion and sediment control best management practices identified in this SWPPP and as shown on the construction plans will be installed in accordance with the Tennessee Erosion and Sediment Control Handbook, latest revision and any other applicable regulations.

4.1. **Anticipated Schedule**

Clearing, grading, and construction of the proposed improvements will be accomplished in the following sequence and will include the following erosion control measures as a minimum:
Table 1. Estimated Project Schedule

<table>
<thead>
<tr>
<th>Construction Activity</th>
<th>Estimated Beginning Date</th>
<th>Erosion &amp; Sediment Control Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial BMP’s</td>
<td>November 2015</td>
<td>Silt fence, wattles, temporary inlet protection, &amp; construction entrance</td>
</tr>
<tr>
<td>Strip/Stockpile Topsoil</td>
<td>December 2015</td>
<td>Silt fence, wattles, temporary inlet protection, &amp; construction entrance</td>
</tr>
<tr>
<td>Site Grading</td>
<td>January 2016</td>
<td>Silt fence, wattles, temporary inlet protection, &amp; construction entrance</td>
</tr>
<tr>
<td>Stabilize Paved Areas</td>
<td>February 2016</td>
<td>Silt fence, construction entrance, temporary inlet protection, &amp; paving &amp; seeding</td>
</tr>
<tr>
<td>Stabilize Lawn Areas</td>
<td>March 2016</td>
<td>Silt fence, wattles, temporary inlet protection, &amp; permanent seeding and/or sod</td>
</tr>
<tr>
<td>Complete Construction</td>
<td>May 2016</td>
<td>Remove all temporary EC items</td>
</tr>
</tbody>
</table>

4.2. Erosion and Sediment Control Measures

The appropriate erosion and sediment control structures will be installed per the erosion control plan prior to any land disturbance activities beginning. The erosion and sediment control structures have been designed for a 5-year, 24-hour storm event. Silt fencing shall remain in place and be properly maintained during all grading activities until permanent vegetation of the site is established. Temporary Erosion control measures may be removed at the beginning of the workday but must be replaced at the end of the workday.

Diversion ditches and berms will be constructed as necessary to divert runoff from the active construction area and also off-site runoff from draining into the construction areas. Diversion ditches carrying on-site water shall be directed to sediment pond. The sediment pond will have a controlled outlet structure providing the needed storage volume and required discharge flow (reference civil engineering plans and drainage calculations for details). The sediment pond will have a sediment depth marker indicating when the sediment depth has reached 10% of the design capacity and needs sediment removed.

A construction entrances will be installed for ingress and egress as described above prior to land disturbing activities. Contractor will implement appropriate measures to prevent/minimize the tracking of dirt into the right-of-way. Any sediment deposited in the right-of-way will be removed promptly.

Topsoil will be removed from the work areas, stockpiled, and immediately seeded. Clearing and grubbing will be kept to a minimum necessary to accomplish the grade work within the particular work area. The contractor is encouraged to clear the site in phases to minimize exposed areas. The contractor shall leave the existing vegetation in place until a maximum of 10 days prior to grading activities. For areas of the site that are to receive
permanent vegetation, a minimum of 6-inches of topsoil will be placed prior to applying seed and mulch.

Topsoil stockpiles and disturbed portions of the site where construction activity temporarily ceases will be stabilized with temporary seed and mulch no later than 15 days from the last construction activity in that area. The temporary seed shall be Rye (grain) applied at the rate of 120 lbs. per acre. Prior to seeding, 2,000 lbs. of ground agricultural limestone and 1,000 lbs. of 10-10-10 fertilizer shall be applied to each acre to be stabilized. After seeding, each area will be mulched with straw at rate of 100 lbs/1000 S.F. over the seeded areas. Where practical, the straw mulch is to be tacked into place by a disk with blades set nearly straight. Erosion control matting will be used on steep slopes as necessary to ensure sufficient stabilization. Areas of the site which are to be paved will be temporarily stabilized by applying stone sub-base until bituminous pavement can be applied.

Disturbed portions of the site where construction activities permanently cease will be stabilized with permanent seed no later than 15 days after the last construction activity. The permanent seed shall be drought tolerant, hybrid Kentucky 31 (Jaguar, Lancer, Rebel II, Falcon II, Etc.). Seed at a rate of 6-8 lbs./1000 S.F. use a slow release starter fertilizer with 1 lbs./1000 S.F. nitrogen. If grading is performed during the winter months, seed mixture shall be supplemented with a winter rye or other appropriate mixture to assure stabilization during the winter season. After seeding, each area will be mulched with straw at rate of 100 lbs/1000 S.F. over the seeded areas. Where practical, the straw mulch is to be tacked into place by a disk with blades set nearly straight. Erosion control matting will be used on steep slopes as necessary to ensure sufficient stabilization.

5. Maintenance and Inspections

This section describes the maintenance and inspection practices for the site and the site assessment for quality assurance.

5.1. Maintenance and Inspection Practices

The following maintenance and inspection practices will be used to maintain erosion prevention and sediment controls:

- Disturbed areas that have not been finally stabilized, areas used for storage of materials exposed to precipitation, structural control measures, locations where vehicles enter and exit the site, and all points of outfall will be inspected in anticipation of a storm event, at least twice per week (at least 72 hours apart) and following storm events of 0.5-in. or greater. The inspector is also required to keep a rain gauge at the site and a daily log of the rainfall readings must be maintained.

- Control structures will be maintained in good working order; if a repair is necessary, it will be initiated within 7 days of discovery and/or prior to the next rain event;

- Built up sediment will be removed from silt fence when it has reached one-third the height of the fence;
ETSU Football Stadium – Phase 1 SWPPP

- Silt fences will be inspected for depth of sediment, tears, security of attachment to the fence posts, and to see that the fence posts are firmly in the ground and upright;

- The sediment basin will be inspected for depth of sediment, and build up sediment will be removed when it reaches 10 percent of the design capacity and at the end of the project;

- Diversion dikes will be inspected and any breaches promptly repaired;

- Temporary and permanent seeding will be checked for bare spots, washouts, and healthy growth and reseeding shall occur as necessary;

- Any off-site accumulation not affecting a stream shall be removed and vegetation returned to original condition. If sediment reaches the stream the permittee must contact the local TDEC office prior to any work within the stream;

- A maintenance inspection report will be made after each inspection and include grading dates, cease work dates, stabilization dates, and rainfall amounts;

- Inspect all outfall points related to the site and fix as needed. Revise SWPPP as needed to correct the issue;

- All 303d or high quality streams must be inspected and recorded on inspection sheet (Attachment 5) and made available on-site. If problems occur TDEC will issue a violation and owner will have 7 days to correct issue. If issue is not corrected in 7 days a “cease work” will be issued.

Inspectors will be certified with a level 1 rating given by TDEC after appropriate training courses have been completed.

The site superintendent will select individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance reports. These reports must include name, date, observation, and action taken. Reports must be made available on-site.

5.2. Site Assessment

A site assessment for quality assurance of erosion prevention and sediment controls will be conducted at each outfall involving drainage totaling 10 or more acres or 5 or more acres if draining to an impaired or exceptional quality waters, within a month of construction commencing at each portion of the site that drains the qualifying acreage of such portion of the site. The site assessment will be performed by individuals with following qualifications:

- A licensed professional engineer;

- A Certified Professional in Erosion and Sediment Control (CPESC), or;

- A person that successfully completed the “Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites” course.
As a minimum, site assessment will be performed to verify the installation, functionality and performance of the EPSC measures described in the SWPPP. The site assessment will be performed with the inspector, and will include a review and update (if applicable) of the SWPPP. Modifications of plans and specifications for any building or structure, including the design of sediment basins or other sediment controls involving structural, hydraulic, hydrologic or other engineering calculations will be prepared by a licensed professional engineer or landscape architect and stamped and certified in accordance with the Tennessee Code Annotated, Title 62, Chapter 2 and the rules of the Tennessee Board of Architectural and Engineering Examiners.

The site assessment findings will be documented and the documentation kept with the SWPPP at the site. At a minimum, the documentation will include information included in the inspection form provided in Attachment 5 of this document. The documentation must contain the printed name and signature of the individual performing the site assessment and the following certification:

“I certify under penalty of law that this report and all attachments are, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

The site assessment can take the place of one of the twice weekly inspections.
Attachment 1: Notice of Intent (NOI)
Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

<table>
<thead>
<tr>
<th>Site or Project Name</th>
<th>Existing NPDES Tracking Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETSU Football Stadium - Phase 1</td>
<td>TNR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street Address or Location</th>
<th>Start date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. Dossett Dr., Johnson City TN</td>
<td>November 2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site Activity Description</th>
<th>Estimated end date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction activities for a proposed recycling center, salt storage, chemical building storage, challenge course, &amp; other related appurtenances on the ETSU Campus. These are the first phase of the ETSU Football Stadium project.</td>
<td>May 2016</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>County(ies):</th>
<th>MS4 Jurisdiction:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washington</td>
<td>Johnson City</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Does a topographic map show dotted or solid blue lines ☐ and/or wetlands ☐ on or adjacent to the construction site?</th>
<th>ARAP permit No.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>If wetlands are located on-site and may be impacted, attach wetlands delineation report.</td>
<td></td>
</tr>
<tr>
<td>If an Aquatic Resource Alteration Permit has been obtained for this site, what is the permit number?</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Receiving waters:</th>
<th>Attach the SWPPP with the NOI</th>
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<tbody>
<tr>
<td>Brush Creek</td>
<td>X SWPPP Attached</td>
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<tr>
<th>Site Owner/Developer Entity (Primary Permittee): (person, company, or legal entity that has operational or design control over construction plans and specifications):</th>
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<tbody>
<tr>
<td>ETSU Facilities Planning, Management &amp; Construction</td>
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</table>

<table>
<thead>
<tr>
<th>Site Owner/Developer Signatory (V.P. level/higher - signs certification below): (individual responsible for site)</th>
<th>Signatory's Title or Position (V.P. level/higher - signs certification below):</th>
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</thead>
<tbody>
<tr>
<td>Mr. William B. Rasnick</td>
<td>Associate Vice President</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mailing Address:</th>
<th>City:</th>
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<tbody>
<tr>
<td>Mr. William B. Rasnick</td>
<td>Johnson City</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Phone:</th>
<th>Fax:</th>
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<tbody>
<tr>
<td>(423) 439-7900</td>
<td>( )</td>
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<table>
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<tr>
<th>Optional Contact:</th>
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<table>
<thead>
<tr>
<th>Mailing Address:</th>
<th>Title or Position:</th>
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<tr>
<th>Phone:</th>
<th>Fax:</th>
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<table>
<thead>
<tr>
<th>Owner or Developer Certification (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)</th>
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</thead>
<tbody>
<tr>
<td>I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.</td>
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<table>
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<tr>
<th>Owner or Developer Name:</th>
<th>Signature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. William B. Rasnick</td>
<td>[Signature]</td>
</tr>
</tbody>
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<tr>
<th>Date:</th>
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<tbody>
<tr>
<td>10/10/15</td>
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<table>
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<tr>
<th>Contractor(s) Certification (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated.</td>
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<tr>
<th>Contractor company name (print or type):</th>
<th>Signature:</th>
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<tr>
<th>Date:</th>
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<th>Mailing Address:</th>
<th>City:</th>
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<tr>
<th>Phone:</th>
<th>Fax:</th>
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<table>
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<tr>
<th>Other Contractor company name (print or type):</th>
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<table>
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<tr>
<th>Other Contractor signatory (print/type): (V.P. level or higher)</th>
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<tr>
<th>Signature:</th>
<th>Date:</th>
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<tr>
<th>Phone:</th>
<th>Fax:</th>
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<tr>
<th>OFFICIAL STATE USE ONLY</th>
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<table>
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<tr>
<th>Received Date:</th>
<th>Reviewer:</th>
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<table>
<thead>
<tr>
<th>Field Office:</th>
<th>Permit Number: TNR</th>
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<table>
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<tr>
<th>Exceptional TN Water:</th>
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<table>
<thead>
<tr>
<th>Fee(s):</th>
<th>T &amp; E Aquatic Flora and Fauna:</th>
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<table>
<thead>
<tr>
<th>Impaired Receiving Stream:</th>
<th>Notice of Coverage Date:</th>
</tr>
</thead>
</table>

(Continued on reverse)
Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Purpose of this form. A completed notice of intent (NOI) must be submitted to obtain coverage under the Tennessee General NPDES Permit for Discharges of Stormwater Associated with Construction Activity (permit). Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges applicant’s claim of ability to be in compliance with permit terms and conditions. This permit is required for stormwater discharge(s) from construction activities including clearing, grading, filling and excavating (including borrow pits) of one or more acres of land. This form should be submitted at least 30 days prior to the commencement of land disturbing activities, or no later than 48 hours prior to when a new operator assumes operational control over site specifications or commences work at the site.

Permit fee (see table below) must accompany the NOI and is based on total acreage to be disturbed by an entire project, including any associated construction support activities (e.g. equipment staging yards, material storage areas, excavated material disposal areas, borrow or waste sites).

<table>
<thead>
<tr>
<th>Acres Disturbed</th>
<th>Fee</th>
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<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>or &gt; 150 acres</td>
<td>$10,000</td>
</tr>
<tr>
<td>or &gt; 50 &lt; 150 acres</td>
<td>$6,000</td>
</tr>
<tr>
<td>or &gt; 20 &lt; 50 acres</td>
<td>$3,000</td>
</tr>
<tr>
<td>or &gt; 5 &lt; 20 acres</td>
<td>$1,000</td>
</tr>
<tr>
<td>or &gt; 1 &lt; 5 acres</td>
<td>$250</td>
</tr>
<tr>
<td>Subsequent coverage*</td>
<td>$100</td>
</tr>
</tbody>
</table>

* Subsequent Primary Operators seeking coverage under an actively covered larger common plan of development or sale

Who must submit the NOI form? Per Section 2 of the permit, all site operators must submit an NOI form. “Operator” for the purpose of this permit and in the context of stormwater associated with construction activity means any person associated with a construction project who meets either or both of the following two criteria: (1) The person has operational or design control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person is typically the owner or developer of the project or a portion of the project (e.g. subsequent builder), or the person that is the current land owner of the construction site. This person is considered the primary permittee; or (2) The person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions. This person is typically a contractor or a commercial builder who is hired by the primary permittee, and is considered a secondary permittee.

Owners, developers and all contractors that meet the definition of the operator in subsection 2.2 of the permit shall apply for permit coverage on the same NOI, insofar as possible. After permit coverage has been granted to the primary permittee, any subsequent NOI submittals must include the site’s previously assigned permit tracking number and the project name. The comprehensive site-specific SWPPP shall be prepared in accordance with the requirements of part 3 of the permit and must be submitted with the NOI unless the NOI being submitted is to only add a contractor (secondary permittee) to an existing coverage.

Notice of Coverage. The division will review the NOI for completeness and accuracy and prepare a notice of coverage (NOC). Stormwater discharge from the construction site is authorized as of the effective date of the NOC.

Complete the form. Type or print clearly, using ink and not markers or pencil. Answer each item or enter “NA,” for not applicable, if a particular item does not fit the circumstances or characteristics of your construction site or activity. If you need additional space, attach a separate piece of paper to the NOI form. The NOI will be considered incomplete without a permit fee, a map, and the SWPPP.

Describe and locate the project. Use the legal or official name of the construction site. If a construction site lacks street name or route number, give the most accurate geographic information available to describe the location (reference to adjacent highways, roads and structures; e.g. intersection of state highways 70 and 100). Latitude and longitude (expressed in decimal degrees) of the center of the site can be located on USGS quadrangle maps. The quadrangle maps can be obtained at the USGS World Wide Web site: http://www.usgs.gov/; latitude and longitude information can be found at numerous other web sites. Attach a copy of a portion of a 7.5 minute quad map, showing location of site, with boundaries at least one mile outside the site boundaries. Provide estimated starting date of clearing activities and completion date of the project, and an estimate of the number of acres of the site on which soil will be disturbed, including borrow areas, fill areas, stockpiles and the total acres. For linear projects, give location at each end of the construction area.

MS4 Jurisdiction. If this construction site is located within a Municipal Separate Storm Sewer System (MS4), please list name of MS4. A current list of MS4s in Tennessee may be found at http://www.state.tn.us/environment/water/water-quality_storm-water.shtml

Give name of the receiving waters. Trace the route of stormwater runoff from the construction site and determine the name of the river(s), stream(s), creek(s), wetland(s), lake(s) or any other water course(s) into which the stormwater runoff drains. Note that the receiving water course may or may not be located on the construction site. If the first water body receiving construction site runoff is unnamed (“unnamed tributary”), determine the name of the water body that the unnamed tributary enters.

ARAP permit may be required. If your work will disturb or cause alterations of a stream or wetland, you must obtain an appropriate Aquatic Resource Alteration Permit (ARAP). If you have a question about the ARAP program or permits, contact your local Environmental Field Office (EFO).

Submitting the form and obtaining more information. Note that this form must be signed by the company President, Vice-President, or a ranking elected official in the case of a municipality, for details see subpart 2.5. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed NOI form (keep a copy for your records) to the appropriate EFO for the county(ies) where the construction activity is located, addressed to Attention: Stormwater NOI Processing.

<table>
<thead>
<tr>
<th>EFO</th>
<th>Street Address</th>
<th>Zip Code</th>
<th>EFO</th>
<th>Street Address</th>
<th>Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memphis</td>
<td>8383 Wolf Lake Drive, Bartlett</td>
<td>38133-4119</td>
<td>Cookeville</td>
<td>1221 South Willow Ave.</td>
<td>38506</td>
</tr>
<tr>
<td>Jackson</td>
<td>1629 Hollywood Drive</td>
<td>38305-4316</td>
<td>Chattanooga</td>
<td>1301 Riverfront Parkway, Suite 206</td>
<td>37402</td>
</tr>
<tr>
<td>Nashville</td>
<td>771 R S Gass Boulevard</td>
<td>37243</td>
<td>Knoxville</td>
<td>3711 Middlebrook Pike</td>
<td>37921</td>
</tr>
<tr>
<td>Columbia</td>
<td>1421 Hampshire Pike</td>
<td>38401</td>
<td>Johnson City</td>
<td>2305 Silverdale Road</td>
<td>37601</td>
</tr>
</tbody>
</table>

CN-0940 (Rev. 03-15)  Page 2  RDA 2366
Attachment 2: USGS Quadrangle Map
Attachment 3: NCRS Soil Map
# Hydrologic Soil Group

<table>
<thead>
<tr>
<th>Map unit symbol</th>
<th>Map unit name</th>
<th>Rating</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>BmC</td>
<td>Bellamy loam, 5 to 12 percent slopes</td>
<td>C</td>
<td>0.3</td>
<td>13.9%</td>
</tr>
<tr>
<td>DuD2</td>
<td>Dunmore silty clay loam, 12 to 25 percent slopes, eroded</td>
<td>B</td>
<td>0.8</td>
<td>38.3%</td>
</tr>
<tr>
<td>GnB</td>
<td>Greendale silt loam, 0 to 6 percent slopes, rarely flooded</td>
<td>B</td>
<td>1.0</td>
<td>47.8%</td>
</tr>
</tbody>
</table>

**Totals for Area of Interest**

|                  |                  |        | 2.0           | 100.0%        |

## Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

**Group A.** Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

**Group B.** Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

**Group C.** Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

**Group D.** Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.
Hydrologic Soil Group

<table>
<thead>
<tr>
<th>Map unit symbol</th>
<th>Map unit name</th>
<th>Rating</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>DrD</td>
<td>Dewey-Udorthents-Urban land complex, 5 to 20 percent slopes</td>
<td>B</td>
<td>0.8</td>
<td>95.0%</td>
</tr>
<tr>
<td>Ur</td>
<td>Urban land</td>
<td></td>
<td>0.0</td>
<td>5.0%</td>
</tr>
<tr>
<td><strong>Totals for Area of Interest</strong></td>
<td></td>
<td></td>
<td><strong>0.9</strong></td>
<td><strong>100.0%</strong></td>
</tr>
</tbody>
</table>

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

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Rating Options

*Aggregation Method:* Dominant Condition
Hydrologic Soil Group

### Hydrologic Soil Group— Summary by Map Unit — Washington County, Tennessee (TN179)

<table>
<thead>
<tr>
<th>Map unit symbol</th>
<th>Map unit name</th>
<th>Rating</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>DrD</td>
<td>Dewey-Udorthents-Urban land complex, 5 to 20 percent slopes</td>
<td>B</td>
<td>5.0</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

**Totals for Area of Interest**
5.0 100.0%

### Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

**Group A.** Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

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If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

### Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified
Attachment 4: Inspection Report Form
## Construction Stormwater Inspection Certification (Twice-Weekly Inspections)

<table>
<thead>
<tr>
<th>Site or Project Name: ETSU Football Stadium - Phase 1</th>
<th>NPDES Tracking Number: TNR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary Permittee Name:</td>
<td>Date of Inspection:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Current approximate disturbed acreage:</td>
<td>Has rainfall been checked/document daily?  Yes  No</td>
</tr>
<tr>
<td></td>
<td>Name of Inspector:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Current weather conditions:</td>
<td>Inspector’s TNEPSC Certification Number:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Please check the box if the following items are on-site:**
- [ ] Notice of Coverage (NOC)
- [ ] Stormwater Pollution Prevention Plan (SWPPP)
- [ ] Twice-weekly inspection documentation
- [ ] Site contact information
- [ ] Rain Gage
- [ ] Off-site Reference Rain Gage Location:

**Best Management Practices (BMPs):**

<table>
<thead>
<tr>
<th>Are the Erosion Prevention and Sediment Controls (EPSCs) functioning correctly: If “No,” describe below in Comment Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Are all applicable EPSCs installed and maintained per the SWPPP?  Yes  No</td>
</tr>
<tr>
<td>2. Are EPSCs functioning correctly at all disturbed areas/material storage areas per section 4.1.5?  Yes  No</td>
</tr>
<tr>
<td>3. Are EPSCs functioning correctly at outfall/discharge points such that there is no objectionable color contrast in the receiving stream, and no other water quality impacts per section 5.3.2?  Yes  No</td>
</tr>
<tr>
<td>4. Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track out?  Yes  No</td>
</tr>
<tr>
<td>5. If applicable, have discharges from dewatering activities been managed by appropriate controls per section 4.1.4? If “No,” describe below the measures to be implemented to address deficiencies.  Yes  No</td>
</tr>
<tr>
<td>6. If construction activity at any location on-site has temporarily/permanently ceased, was the area stabilized within 14 days per section 3.5.3.2? If “No,” describe below each location and measures taken to stabilize the area(s).  Yes  No</td>
</tr>
<tr>
<td>7. Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters per section 4.1.5? If “No,” describe below the measures to be implemented to address deficiencies.  Yes  No</td>
</tr>
<tr>
<td>8. If a concrete washout facility is located on site, is it clearly identified on the project and maintained? If “No,” describe below the measures to be implemented to address deficiencies.  N/A  Yes  No</td>
</tr>
<tr>
<td>9. Have all previous deficiencies been addressed? If “No,” describe the remaining deficiencies in the Comments section.  Yes  No</td>
</tr>
</tbody>
</table>

Comment Section. If the answer is “No” for any of the above, please describe the problem and corrective actions to be taken. Otherwise, describe any pertinent observations:

---

**Certification and Signature** (must be signed by the certified inspector and the permittee per Sections 3.5.8.2 (g) and 7.7.2 of the CGP)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

<table>
<thead>
<tr>
<th>Inspector Name and Title:</th>
<th>Signature:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Permittee Name and Title:</td>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>
Purpose of this form/Instructions

An inspection, as described in section 3.5.8.2. of the General Permit for Stormwater Discharges from Construction Activities ("Permit"), shall be performed at least twice every calendar week and documented on this form. Inspections shall be performed at least 72 hours apart. Where sites or portion(s) of construction sites have been temporarily stabilized, or runoff is unlikely due to winter conditions (e.g., site covered with snow or ice), such inspection only has to be conducted once per month until thawing results in runoff or construction activity resumes.

Inspectors performing the required twice weekly inspections must have an active certification by completing the “Fundamentals of Erosion Prevention and Sediment Control Level I” course. (http://www.tnepsc.org/). A copy of the certification or training record for inspector certification should be kept on site.

Qualified personnel, as defined in section 3.5.8.1 of the Permit (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, locations where vehicles enter or exit the site, and each outfall.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the site’s drainage system. Erosion prevention and sediment control measures shall be observed to ensure that they are operating correctly.

Outfall points (where discharges leave the site and/or enter waters of the state) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified.

Based on the results of the inspection, the site description identified in the SWPPP in accordance with section 3.5.1 of the Permit and pollution prevention measures identified in the SWPPP in accordance with section 3.5.2 of the Permit, shall be revised as appropriate, but in no case later than 7 days following the inspection. Such modifications shall provide for timely implementation of any changes to the SWPPP, but in no case later than 14 days following the inspection.

All inspections shall be documented on this Construction Stormwater Inspection Certification form. Alternative inspection forms may be used as long as the form contents and the inspection certification language are, at a minimum, equivalent to the division’s form and the permittee has obtained a written approval from the division to use the alternative form. Inspection documentation will be maintained on site and made available to the division upon request. Inspection reports must be submitted to the division within 10 days of the request.

Trained certified inspectors shall complete inspection documentation to the best of their ability. Falsifying inspection records or other documentation or failure to complete inspection documentation shall result in a violation of this permit and any other applicable acts or rules.
Attachment 5: Notice of Termination (NOT)
Notice of Termination (NOT) for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

This form is required to be submitted when requesting termination of coverage from the CGP. The purpose of this form is to notify the TDEC that either all stormwater discharges associated with construction activity from the portion of the identified facility where you, as an operator, have ceased or have been eliminated; or you are no longer an operator at the construction site. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form. Please submit this form to the local DWR Environmental Field Office (EFO) address (see table below). For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

Type or print clearly, using ink.

<table>
<thead>
<tr>
<th>Site or Project Name:</th>
<th>ETSU Football Stadium - Phase 1</th>
<th>NPDES Tracking Number: TNR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address or Location:</td>
<td>N. Dossett Dr., Johnson TN</td>
<td>County(ies): Washington</td>
</tr>
</tbody>
</table>

Name of Permittee Requesting Termination of Coverage:

<table>
<thead>
<tr>
<th>Permittee Contact Name:</th>
<th>Title or Position:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mailing Address:</td>
<td>City:</td>
</tr>
<tr>
<td>Phone:</td>
<td>State:</td>
</tr>
<tr>
<td>E-mail:</td>
<td>Zip:</td>
</tr>
</tbody>
</table>

Check the reason(s) for termination of permit coverage:

- [ ] Stormwater discharge associated with construction activity is no longer occurring and the permitted area has a uniform 70% permanent vegetative cover OR has equivalent measures such as rip rap or geotextiles, in areas not covered with impervious surfaces.
- [ ] You are no longer the operator at the construction site (i.e., termination of site-wide, primary or secondary permittee coverage).

Certification and Signature: (must be signed by president, vice-president or equivalent ranking elected official)

I certify under penalty of law that either: (a) all stormwater discharges associated with construction activity from the portion of the identified facility where I was an operator have ceased or have been eliminated or (b) I am no longer an operator at the construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge stormwater associated with construction activity under this general permit, and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

For the purposes of this certification, elimination of stormwater discharges associated with construction activity means that all stormwater discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have been eliminated from the portion of the construction site where the operator had control. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been finally stabilized, the temporary erosion and sediment control measures have been removed, and/or subsequent operators have obtained permit coverage for the site or portions of the site where the operator had control.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Permittee name (print or type): Signature: Date:

<table>
<thead>
<tr>
<th>EFO</th>
<th>Street Address</th>
<th>Zip Code</th>
<th>EFO</th>
<th>Street Address</th>
<th>Zip Code</th>
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<td>Memphis</td>
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<td>37921</td>
</tr>
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<td>38401</td>
<td>Johnson City</td>
<td>2305 Silverdale Road</td>
<td>37601</td>
</tr>
</tbody>
</table>
SECTION 01.61.16
VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Requirements for Indoor-Emissions-Restricted products.
B. Requirements for VOC-Content-Restricted products.
C. Requirement for installer certification that they did not use any non-compliant products.

1.02 RELATED REQUIREMENTS
A. Section 01.30.00 - Administrative Requirements: Submittal procedures.
B. Section 01.62.25 - Product Options: Requirements related to product substitutions.
C. Section 07.92.00 - Joint Sealants: Emissions-compliant sealants.

1.03 DEFINITIONS
A. Indoor-Emissions-Restricted Products: All products in the following product categories, whether specified or not:
   1. Interior paints and coatings.
   2. Interior adhesives and sealants, including flooring adhesives.
   3. Flooring.
   4. Products making up wall and ceiling assemblies.
   5. Thermal and acoustical insulation.
B. VOC-Content-Restricted Products: All products in the following product categories, whether specified or not:
   1. Interior paints and coatings.
   2. Interior adhesives and sealants, including flooring adhesives.
C. Interior of Building: Anywhere inside the exterior weather barrier.
D. Adhesives: All gunnable, trowelable, liquid-applied, and aerosol adhesives, whether specified or not; including flooring adhesives, resilient base adhesives, and pipe jointing adhesives.
E. Sealants: All gunnable, trowelable, and liquid-applied joint sealants and sealant primers, whether specified or not; including firestopping sealants and duct joint sealers.
F. Inherently Non-Emitting Materials: Products composed wholly of minerals or metals, unless they include organic-based surface coatings, binders, or sealants; and specifically the following:
   1. Concrete.
   2. Clay brick.
   3. Metals that are plated, anodized, or powder-coated.
   4. Glass.
   5. Ceramics.
   6. Solid wood flooring that is unfinished and untreated.

1.04 REFERENCE STANDARDS

D. CARB (SCM) - Suggested Control Measure for Architectural Coatings; California Air Resources Board; 2007.

E. CHPS (HPPD) - High Performance Products Database; Collaborative for High Performance Schools (CHPS); current edition at www.chps.net/.

F. CRI (GLP) - Green Label Plus Testing Program - Certified Products; Carpet and Rug Institute; Current Edition.


I. SCS (CPD) - SCS Certified Products; Scientific Certification Systems; current listings at www.scscertified.com.


1.05 SUBMITTALS

A. See Section 01.30.00 - Administrative Requirements, for submittal procedures.

B. Product Data: For each VOC-restricted product used in the project, submit evidence of compliance.

C. Installer Certifications Regarding Prohibited Content: Require each installer of any type of product (not just the products for which VOC restrictions are specified) to certify that either 1) no adhesives, joint sealants, paints, coatings, or composite wood or agrifiber products have been used in the installation of his products, or 2) that such products used comply with these requirements.

1.06 QUALITY ASSURANCE

A. Indoor Emissions Standard and Test Method: CAL (CDPH SM), using Standard Private Office exposure scenario and the allowable concentrations specified in the method, and range of total VOC's after 14 days.
   1. Wet-Applied Products: State amount applied in mass per surface area.
   2. Paints and Coatings: Test tinted products, not just tinting bases.
   3. Evidence of Compliance: Acceptable types of evidence are the following;
      a. Current UL (GGG) certification.
      b. Current SCS (CPD) Floorscore certification.
      c. Current SCS (CPD) Indoor Advantage Gold certification.
      d. Current listing in CHPS (HPPD) as a low-emitting product.
      e. Current CRI (GLP) certification.
      f. Test report showing compliance and stating exposure scenario used.

B. VOC Content Test Method: 40 CFR 59, Subpart D (EPA Method 24), or ASTM D3960, unless otherwise indicated.
   1. Evidence of Compliance: Acceptable types of evidence are:
      a. Report of laboratory testing performed in accordance with requirements.

C. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.
PART 2 PRODUCTS

2.01 MATERIALS

A. All Products: Comply with the most stringent of federal, State, and local requirements, or these specifications.

B. Indoor-Emissions-Restricted Products: Comply with Indoor Emissions Standard and Test Method, except for:
   1. Inherently Non-Emitting Materials.

C. VOC-Content-Restricted Products: VOC content not greater than required by the following:
   3. Paints and Coatings: Each color; most stringent of the following:
      a. 40 CFR 59, Subpart D.
      b. SCAQMD 1113 Rule.
      c. CARB (SCM).

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Owner reserves the right to reject non-compliant products, whether installed or not, and require their removal and replacement with compliant products at no extra cost to Owner.

B. Additional costs to restore indoor air quality due to installation of non-compliant products will be borne by Contractor.

END OF SECTION
SECTION 10.11.01
VISUAL DISPLAY BOARDS

PART 1 GENERAL

1.01 SECTION INCLUDES
   A. Wall-mounted message centers.

1.02 RELATED REQUIREMENTS
   A. Section 06.10.00 - Rough Carpentry: Blocking and supports.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS
   A. See Section 01.30.00 - Administrative Requirements - Administrative Requirements, for submittal procedures.
   B. Product Data: Provide manufacturer's data on message centers and related accessories.
   C. Shop Drawings: Indicate wall elevations, dimensions, joint locations, special anchor details.
   D. Samples: Submit color charts for selection of color and texture of message center frame.
   E. Manufacturer's printed installation instructions.
   F. Maintenance Data: Include data on regular cleaning, stain removal.

1.05 QUALITY ASSURANCE
   A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.06 WARRANTY
   A. See Section 01.78.00 - Closeout Submittals - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS
   A. Message Centers:
      2. Substitutions: See Section 01.60.00 - Product Requirements.

2.02 VISUAL DISPLAY BOARDS
   A. Message Centers: recycled rubber tackboard.
      1. Tackboard Thickness: 1/4 inch.
      2. Color: As selected from manufacturer's full range.
      3. Backing: Hardboard, 1/4 inch thick, laminated to tack surface.
      4. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.
      5. Height: 20.5 inches.
      7. Frame: Recycled plastic, with concealed fasteners.
      8. Frame Profile: Manufacturer's standard.

2.03 ACCESSORIES
   A. Temporary Protective Cover: Sheet polyethylene, 8 mil thick.
   B. Mounting Brackets: Concealed.

PART 3 EXECUTION

3.01 EXAMINATION
   A. Verify that field measurements are as indicated.
   B. Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.
   C. Verify flat wall surface for frameless adhesive-applied boards.

3.02 INSTALLATION
   A. Install message centers in accordance with manufacturer's instructions.
   B. Secure units level and plumb.

3.03 CLEANING
   A. Clean board surfaces in accordance with manufacturer's instructions.
   B. Cover with protective cover, taped to frame.
   C. Remove temporary protective cover at date of Substantial Completion.

END OF SECTION
SECTION 11.68.13
CHALLENGE COURSE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Challenge course design and layout drawings.
B. Challenge course layout (staking).
C. Concrete footings for challenge course equipment.
D. Challenge course structures.
E. Challenge course equipment.
F. Protective surfacing in challenge course area.
G. Vendor training of challenge course personnel.
H. Commissioning Inspection by third-party, ACCT Professional Vendor Member (PVM).
I. Location of each item of challenge course equipment is indicated on the drawings.

1.02 RELATED REQUIREMENTS

A. Section 03.30.00 - Cast-in-Place Concrete: Footings for challenge course equipment.
B. Section 09.91.13 - Exterior Painting.

1.03 REFERENCE STANDARDS

A. Association of Challenge Course Technology (ACCT) - Design, Performance and Inspection Standards, 8th Ed.
D. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2013.
G. ASTM D3363 - Test Method for Film Hardness by Pencil Test; 2005 (Reapproved 2011)e2.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meetings: Convene a meeting one week before starting earthwork for challenge course to discuss coordination between various installers.
   1. Require attendance by personnel responsible for grading and installers of challenge course equipment, protective surfacing, footings, and adjacent work.
   2. Include representatives of Contractor, challenge course installer, and other involved subcontractors.
   3. Notify Architect at least 2 weeks prior to meeting.
1.05 Submittals

A. See Section 01.30.00 - Administrative Requirements, for submittal procedures.

B. Product Data: For all manufactured equipment, provide manufacturer's product data showing materials of construction, compliance with specified standards, installation procedures, safety limitations, and the number of users permitted.
   1. Treated Wood Products: Provide information on wood treatment chemical content, toxicity level, and life-cycle durability.
   2. Wood Finishes: Provide information on wood finish chemical content and toxicity level.

C. Product Data: For fabricated items, provide the following:
   1. Treated Wood Products: Provide information on wood treatment chemical content, toxicity level, and life-cycle durability.
   2. Wood Finishes: Provide information on wood finish chemical content and toxicity level.

D. Shop Drawings: Detailed scale drawings showing challenge course layout, Use Zone perimeters, and clear-area safe zones for zip-line element.
   1. Show locations and dimensions of footings and anchorage points.
   2. Clearly identify mounting elevations in relation to a fixed survey point on site and to subgrade elevation and depth of protective surfacing.
   3. Show locations of underground utilities, storm drainage system and irrigation system.
   4. Show locations of related construction such as walkways and roadways, fences, site furnishings, and plantings.

E. Samples: For each item for which color must be selected provide color chart showing full range of colors and finishes.

F. Maintenance Data: Provide manufacturer's recommended maintenance instructions and list of replaceable parts for each equipment item, with address and phone number of source of supply.

G. Manufacturer's Field Report, detailing any deviations from approved submittals due to field conditions or changes in manufacturer's standard equipment or components.

H. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 Quality Assurance

A. Maintain one copy of the latest edition of ASTM F1487 and ACCT 8th Ed. at project site.

B. Manufacturer Qualifications: Company regularly engaged in manufacturing materials and products specified in this section, with not less than 10-years of documented, continuous experience.
   1. Manufacturer's Representative: Provide name, company name and address, and ACCT certificate.

C. Installer Qualifications: Company certified by manufacturer for training and experience installing challenge course structures and equipment - minimum 10 years of continuous ACCT accreditation as Professional Vendor Member.

1.07 Delivery, Storage, and Handling

A. Deliver, handle, and store equipment to project site in accordance with manufacturer's recommendations.

B. Store materials in a dry, covered area, elevated above grade.

1.08 Warranty

A. See Section 01.78.00 - Closeout Submittals, for additional warranty requirements.
PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Challenge Course Structures and Equipment (Basis of Design):
   1. Challenge Towers, Todd, NC; (828) 265-0602.
   2. Substitutions: See Section 01.60.00 - Product Requirements.

2.02 CHALLENGE COURSE STRUCTURES

A. General: Comply with ACCT Design, Performance and Inspection Standards, 8th Ed..
   1. Provide components having factory-drilled holes. Do not use components with extra holes that will not be filled by hardware or covered by other components.
   2. Challenge course levels to be interconnected.
   3. Challenge course to include a minimum of 23 elements, and accommodate up to 35 participants simultaneously.
   4. Equipment shall be compatible with Bornack Smart Safety Belay (SSB).
   5. Course shall be capable of accommodating giant swing events.

B. Climbing Tower: Tower shall be integrated with challenge course, allowing access (via stair system) to the various levels of the course.
   1. Minimum of 1,200 SF of climbing surface.
   3. Stair system for accessing instructional deck at top, and to various levels of the challenge course.
   4. Accommodate beginner through expert level climbers.
   5. Capabilities to conduct rappelling instruction and related activities.
   6. Roofed instructional deck at top-most level.
   7. Accommodate dual zip wire lines.

C. Low Elements, for Team Building/Problem Solving Initiatives:
   1. 12' Team Wall
   2. Spider's Web
   3. Islands
   4. Whale Watch
   5. Mohawk Walk and Wild Woosey
   6. TP Shuffle
   7. Zig-Zag
   8. Giant's Finger
   9. All-Aboard
   10. Trollies
   11. Acid River
   12. Port Hole

D. Equipment: Provide equipment for 40 participants and 10 staff members.
   1. 50 Harnesses (sizes to be determined by Campus Rec Staff).
   2. 50 Helmets (sizes to be determined by Campus Rec Staff).
   3. Bornack Smart Safety Belay for up to 50 people.
   4. Two Rescue Bags, each equipped as follows:
      a. Rescue Rope Bag.
      b. 120 ft KMIII Static Rope.
      c. 1 Petzl Fixed Pulley.
      d. 1 Omega Pacific SBG Belay Device.
      e. 4 Auto-Locking Steel Carabiners.
      f. 1 Steel Captive-Eye Carabiner.
g.  1 CMI 60" Daisy Chain.
    h.  Prussik Cord.
    i.  1 Pair Trauma Shears.

5.  All required OSHA-compliant staff equipment.

E.  Training:  Provide a minimum of 20 hours site and system training for 10 participants with option for ACCT Certification Testing.  All training shall meet or exceed ACCT 8th Ed Training Standards.

2.03 MATERIALS

A.  Steel Pipe and Tube:  Conforming to ASTM A135/A135M, ASTM A500/A500M, or ASTM A513/A513M; hot-dipped galvanized and free of excess weld and spatter.
    1.  Tensile Strength:  45,000 psi, minimum.
    2.  Yield Point:  33,000 psi, minimum.
    3.  Galvanizing:  Hot-dip metal components in zinc after fabrication, in accordance with ASTM A123/A123M; remove tailings and sharp protrusions and burnish edges.

B.  Extruded Aluminum:  ASTM B221 or ASTM B221M, Alloy 6061, 6062, or 6063.
    1.  Tensile Strength:  39,000 psi, minimum.
    2.  Yield Point:  36,500 psi, minimum.

C.  Chain:  Corrosion resistant zinc plated steel; minimum size 4/0; polyvinyl chloride coating.

D.  Rope Cable:  Strands of steel cable, _____ ends capped to prevent fraying.

E.  Hardware:  Of design without hazardous protrusions, corners, or finishes, and requiring tools for removal after installation; countersunk fasteners are preferred.
    1.  Use hot-dipped galvanized steel for metal-to-metal connections; select type to minimize galvanic corrosion of materials connected by hardware.
    2.  Use hot-dipped galvanized steel for wood-to-wood and wood-to-metal connections.
    3.  Use stainless steel with plastic components.
    5.  Hooks, Including S-Hooks:  Closed loop; maximum gap 0.04 inches, less than the thickness of a dime.
    6.  Rails, Loops, and Hand Bars:  Same metal as item is mounted on or aluminum; with powder coating.
    7.  Anchors:  In accordance with manufacturer's recommendations.

F.  Boards and Timbers:  Free of holes, cracks, and loose knots; do not use wood or wood coatings that contain pesticides; do not utilize used lumber.
    1.  Preservative Treatment:  Pressure type in accordance with AWPA U1 Use Category 4A Commodity B; do not use creosote, pentachlorophenol, or tributyl tin oxide, or any other treatment prohibited by law; treat cuts after fabrication using brush-on preservative.

G.  Plywood:  Exterior grade, bonded with waterproof glue; suitable for painting.
    2.  Edges:  Minimum radius 1/8 inch; sanded smooth; fill voids at edges with epoxy before sanding.
    3.  Face Layer:  Smooth, fine, tightly grained; free of knots, patches, surface irregularities.
    4.  Exposed Surface:  Material with high paint adhesion and retention properties.

H.  Opaque Plastic:  Molded homogeneous plastic or wood-polymer composite lumber; do not use plastic as major load bearing members; use as deck boards, panels, and railings is acceptable.
    1.  Homogeneous Plastic:  Ultraviolet and color stabilized polyethylene without applied surface coating; color through entire thickness.
    2.  Wood-Polymer Composite Lumber:  Complying with ASTM D6662; factory finished.
    4.  Maximum Deflection:  1/360 of span, when tested in accordance with ASTM D648, with a uniform live load of 40 pounds/ft.
5. Deck Board Span: 12 inches on center, maximum, spanning minimum of 3 joists.

I. Powder Coating for Steel: Electrostatically applied and oven cured polyester powder over electrostatic zinc coating.

J. Polyvinyl Chloride (PVC) Coating: Ultraviolet stabilized and mold-resistant; slip-resistant finish. Prime parts to be coated with clear acrylic thermosetting solution, and preheat prior to dipping in liquid PVC.
   1. Thickness: 0.08 inch, minimum, plus/minus 0.02 inch.
   2. Hardness: 85 durometer, when tested in accordance with ASTM D3363.

PART 3 EXECUTION

3.01 LAYING OUT THE WORK

A. Stake the location of challenge course elements, including safety zone perimeters, perimeter of protective surfacing, access and egress points, hard surfaces, walls, fences, and structures, and planting locations.

B. Stake the layout of the entire challenge course before starting any work and before subbase under resilient surfacing is laid.
   1. Verify that Safety Zone perimeters do not overlap hard surfaces, whether currently installed or not.
   2. Verify that Safety Zones are free of obstructions that would extend into the resilient portion of the protective surfacing.
   3. If conflicts or obstructions exist, notify Architect.
   4. Do not proceed until revised drawings have been provided, showing corrected layout, and obstructions have been removed.

3.02 EXAMINATION

A. Verify that challenge course area has been graded to subgrade elevations required and that excess soil, rocks, and debris have been removed.

B. Verify that challenge course equipment footings have been installed in proper locations and at proper elevations.

C. Verify location of underground utilities and facilities in the challenge course area. Damage to underground utilities and facilities will be repaired at Contractor's expense.

3.03 INSTALLATION

A. Coordinate work with preparation for and installation of protective surfacing. The resilient portion of the protective surfacing is to be installed after challenge course equipment installation.

B. Install concrete footings with top surface a minimum of 1/2 inch below required subgrade elevation.

C. Install in accordance with ACCT 8th Ed, manufacturer's instructions, and requirements of authorities having jurisdiction.

D. Anchor equipment securely below the bottom elevation of the resilient surfacing layer.

E. Install without sharp points, edges, or protrusions; entanglement hazards; or pinch, crush, or shear points.

F. Do not modify challenge course elements on site without written approval of manufacturer.

G. Install required signage if not factory-installed.

3.04 FIELD QUALITY CONTROL

A. Obtain the services of required ACCT-certified Commissioning Inspector to review the finished installation for compliance with specified requirements and with design criteria to the extent known to the Contractor; submit report of field review.
B. Repair or replace rejected work until compliance is achieved.

3.05 CLEANING
A. Restore adjacent existing areas that have been damaged from the construction.
B. Clean challenge course equipment of construction materials, dirt, stains, filings, and blemishes due to shipment or installation. Clean in accordance with manufacturer's instructions, using cleaning agents as recommended by manufacturer.
C. Clean challenge course area of excess construction materials, debris, and waste.
D. Remove excess and waste material and dispose of off-site in accordance with requirements of authorities having jurisdiction.

3.06 PROTECTION
A. Protect installed products until Date of Substantial Completion.
B. Replace damaged products before Date of Substantial Completion.

END OF SECTION
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<th>Design Airflow (cfm)</th>
<th>BAS / Thermostat / Airflow Data</th>
<th>BAS DAT sensor Value F</th>
<th>HW Valve Response Value F</th>
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<td>MAX</td>
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<td>Reading</td>
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<td>cfm</td>
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</tbody>
</table>

List all terminal boxes associated with this system or unit and verify thermostat calibration and sequence of reheat coil hot water control valve and terminal box response to thermostat command.
PART 1 - GENERAL

1.01 DESCRIPTION
A. Providing commissioning and documentation for communications infrastructure as set forth hereinafter that meets the requirements of Hubbell Mission Critical warranty system. The installer shall be Hubbell certified.

1.02 REFERENCE STANDARDS
A. See SECTION 270100 REFERENCE

PART 2 - PRODUCTS

2.01 MATERIALS
A. Products shall be as set forth elsewhere in these specifications.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Warranties: Provide warranty of system as set forth hereinafter. ETSU OIT Department requires all installations to have a 25-year warranty. ETSU OIT Department has established the Hubbell’s “Mission Critical” warranty and system performance guarantee program in determining equal or equivalent warranties. Contractor shall complete the warranty information required by the Hubbell “Mission Critical” warranty and system performance guarantee program in its entirety. Information regarding the Hubbell warranty program can be found at http://www.hubbell-premise.commissioncritical.asp. All components of this warranty program shall be filled out and returned to ETSU as part of close-out documents on the project.

B. Test Results: Provide test results as set forth hereinafter. Test results shall follow the manufacturer's warranty submittals and shall include a copy of all results (including Cat 3, Cat 6, fiber optics, and grounding/bonding). Test results shall be submitted for approval to Hubbell and ETSU OIT before final certification. All test results submitted to Hubbell and ETSU OIT must be submitted in their original format from tester. Upon approval of test results by ETSU OIT Department, contractor shall submit test results along with project close-out documents on the project.

C. As-Built Drawings: Close-out documents shall include a copy of as-built drawings on the communications installation. Communications as-built drawings shall include rack layouts, backbone wiring routings, and work area outlet (WAO) locations with all label information provided to ETSU OIT.

END OF SECTION
SECTION 32.31.13
CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Fence framework, fabric, and accessories.
B. Excavation for post bases; center drop for gates.
C. Manual gates and related hardware.

1.02 RELATED REQUIREMENTS
A. Section 03.30.00 - Cast-in-Place Concrete: Concrete anchorage for posts.
B. Section 08.71.00 - Door Hardware: Gate locking device.
C. Section 33.79.00 - Site Grounding.

1.03 REFERENCE STANDARDS
F. ASTM F668 - Standard Specification for Polyvinyl Chloride (PVC) and Other Organic Polymer-Coated Steel Chain-Link Fence Fabric; 2011.
H. ASTM F1665 - Standard Specification for Poly(Vinyl Chloride)(PVC) and Other Conforming Organic Polymer-Coated Steel Barbed Wire Used with Chain-Link Fence; 2008 (Reapproved 2013).
I. CLFMI CLF 2445 - Product Manual; Chain Link Fence Manufacturers Institute; 1997.

1.04 SUBMITTALS
A. See Section 01.30.00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data on fabric, posts, accessories, fittings and hardware.
C. Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, and schedule of components.
D. Samples: Submit two samples of fence fabric, slat infill, ____ inch by ____ inch in size illustrating construction and colored finish.
1.05 QUALITY ASSURANCE

PART 2 PRODUCTS

2.01 MATERIALS AND COMPONENTS

A. Materials and Components: Conform to CLFMI Product Manual.
B. Fabric Size: CLFMI Heavy Industrial service.
C. Intermediate Posts: Type I round.
D. Terminal, Corner, Rail, Brace, and Gate Posts: Type I round.
E. Gates: 

2.02 ACCESSORIES

A. Caps: Cast steel galvanized; sized to post diameter, set screw retainer.
B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.
C. Hardware for Single Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches high, 3 for taller gates; fork latch with gravity drop and padlock hasp; keeper to hold gate in fully open position.
D. Hardware for Double Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches high, 3 for taller gates; drop bolt on inactive leaf engaging socket stop set in concrete, active leaf latched to inactive leaf preventing raising of drop bolt, padlock hasp; keepers to hold gate in fully open position.

2.03 FINISHES

A. Components and Fabric: Vinyl coated over coating of 1.8 oz/sq ft galvanizing.
B. Accessories: Same finish as framing.
C. Color(s): To be selected by Architect from manufacturer's standard range.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install framework, fabric, accessories and gates in accordance with ASTM F567.
B. Place fabric on outside of posts and rails.
C. Set intermediate posts plumb, in concrete footings with top of footing 6 inches below finish grade. Slope top of concrete for water runoff.
D. Line Post Footing Depth Below Finish Grade: ASTM F567.
E. Corner, Gate and Terminal Post Footing Depth Below Finish Grade: ASTM F567.
F. Brace each gate and corner post to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail one bay from end and gate posts.
G. Provide top rail through line post tops and splice with 6 inch long rail sleeves.
H. Install center brace rail on corner gate leaves.
I. Do not stretch fabric until concrete foundation has cured 14 days.
J. Stretch fabric between terminal posts or at intervals of 100 feet maximum, whichever is less.
K. Position bottom of fabric 2 inches above finished grade.
L. Fasten fabric to top rail, line posts, braces, and bottom tension wire with tie wire at maximum 15 inches on centers.
M. Attach fabric to end, corner, and gate posts with tension bars and tension bar clips.
N. Install bottom tension wire stretched taut between terminal posts.
O. Install support arms sloped inward and attach barbed wire; tension and secure.
P. Do not attach the hinged side of gate to building wall; provide gate posts.
Q. Install gate with fabric to match fence. Install hardware.
R. Provide concrete center drop to footing depth and drop rod retainers at center of double gate openings.
S. Ground fence in accordance with Section 33.79.00.

3.02 TOLERANCES
A. Maximum Variation From Plumb: 1/4 inch.
B. Maximum Offset From True Position: 1 inch.

END OF SECTION