SECTION - C01410: TESTING LABORATORY SERVICES

PART I - GENERAL

1.1 SECTION INCLUDES
A. Owner supplied third party inspections, coordinated by the General Contractor.
B. Review and become familiar with "Third Party Inspections" as part of the FSU Super Package under the General Contractor's contract..

1.2 RELATED SECTIONS
A. General Conditions: Inspections, testing, and approvals required by public authorities
B. Testing Adjusting and Balancing of Systems
C. Contract Closeout: Record Documents

1.3 CONTRACTOR RESPONSIBILITIES
A. Cooperate with laboratory personnel, and provide access to Work.
B. Provide incidental labor and facilities to provide access to work to be tested, to obtain and handle samples at the site or source of products to be tested, to facilitate tests and inspections, and for storage and curing of test samples.
C. Notify Owner and laboratory 24-hours prior to expected time for operations requiring inspection and testing services.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01410

SECTION - C01510: TEMPORARY UTILITIES

PART I - GENERAL

1.1 SECTION INCLUDES
A. Temporary Electricity and Lighting
B. Temporary Heating
C. Temporary Water
D. Temporary Sanitary Facilities
E. Temporary Fire Protection
F. Payment

1.2 TEMPORARY ELECTRICITY AND LIGHTING
A. Provide wiring, fuses, disconnect switches, safety devices, junction boxes, panel boxes, ground fault protections, and transformer if required, in connection with use of temporary electrical service for lighting and power during construction. All items and installations are to conform to the requirements of the National Electric Code, and "Occupational Safety and Health Act." Observations by the Owner, his agents, or any recognized agency indicating failure to comply with code requirements shall be cause for immediate suspension of job site operations by the Contractor until the system is in full compliance. No extension to the Contract Time shall be allowed for such suspension of job site operations.

1.3 TEMPORARY HEATING
A. Requirement: Provide, pay for and maintain, all temporary heating facilities required during the progress of the Work to protect materials, finished work and equipment against injury from dampness and cold. Temporary heat shall be required when the outside temperature is low enough to damage or affect in any way the performance or quality of any product or material being stored in the building, in any temporary storage area, or any material incorporated into the work. Temporary heat shall also be required when the outside temperature is low enough to significantly slow or hamper the effectiveness of workmen on the job.
B. Use of Permanent Heating System: Permanent heating system may be used for this purpose after completion, provided Contractor obtains written permission from Owner, and agrees to pay all charges for fuel, attendance, maintenance, repair and replacement, if necessary, to the equivalent of new conditions, including replacement of filters and cleaning of grilles and diffusers.

1.4 TEMPORARY WATER
A. Provide temporary storage tanks, piping, valves, fittings, hose and hose connections as required for use of water during construction and testing.

1.5 TEMPORARY SANITARY FACILITIES
A. Furnish, install and maintain ample sanitary facilities for use of workmen of all trades engaged in work under the contract. Temporary toilets shall be constructed at time work is commenced and shall be subject to applicable City Ordinances, Health Department requirements and Rules and Regulations of governing authorities by Code or otherwise.

1.6 TEMPORARY FIRE PROTECTION
A. Observe and enforce compliance by all trades engaged in work under the contract with requirements of City, County, State, Federal and Insurance Underwriter's regulations to minimize fire hazards incidental to the work. Provide operable fire extinguishing devices in well-marked, accessible locations distributed throughout the project in compliance with governing codes and ordinances.

1.7 ARRANGEMENT AND PAYMENT
A. The Contractor shall make all necessary arrangements and shall pay for water, electric power, gas, and sewage service during the construction of the building as may be required for use of his own forces and those of his subcontractors, and as required by them until acceptance of the work by the Owner.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01510

SECTION - C01520: SECURITY

PART I - GENERAL

1.1 WATCHMAN SERVICE
A. Contractor may employ and pay for watchmen, or a watchmen's service, as he deems necessary to protect his own interests, and he shall be responsible for and pay for losses or damages to the Owner's materials or other property as a result of theft, mysterious disappearances or intrusions by strangers.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01520

SECTION - C01530: PROJECT IDENTIFICATION AND SIGNS

PART I - GENERAL

1.1 PROJECT SIGN FRAME
A. Within seven days of date of notice to proceed, furnish and erect one (1) project identification sign, in a location directed by the Owner: Sign shall consist of 4x4 inch posts supporting a 4'-0" high by 8'-0" wide sheet of 3/4 inch thick exterior A/C plywood. Locate post 1'-0" from ends of plywood; 6'-0" centers. Bottom of plywood shall be at 4'-0" above grade.
B. Framework shall receive a fabric sign to be furnished by Owner and installed by General Contractor. Installation of sign will be by wrap and staple method; long staples, closely spaced on back side.

1.2 CONTRACTOR SIGNS AND ADVERTISING
A. Only the General Contractor may have a sign, at Contractor's expense, if so desired. No other free-standing signs or advertising of any kind other than "warning" signs and notices required by law, will be permitted on the site or about the premises.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01530

SECTION C01570 - EROSION AND SEDIMENTATION CONTROL

PART I - GENERAL
1.1 NOTICE OF INTENT
A. Contractor and Owner shall jointly submit an EPA Notice of Intent (NOI) prior to construction.

PART II - PRODUCTS
2.1 PRODUCTS
A. Grass: Materials for seeding and sodding shall conform to Section 02905.
B. Fertilizer: Use commercial grade fertilizers to insure germination and growth. Analysis by weight shall be 16-4-8 or 15-5-10 for Nitrogen, Phosphoric Acid and Potash.
C. Silt Fence: Lundin "Silt Buster", Mirafi "Envirofence" or approved equal.
D. Straw Bales: Standard rectangular hay bales bound by baling wire
E. Sediment Traps: Standard manufacture designed to fit the intended inlet.

PART III - EXECUTION
3.1 GENERAL
A. Contractor shall keep disturbed areas to a minimum required to adequately perform the work. At all times the Contractor shall maintain the site in such a manner that minimizes erosion of the site. The execution of work under this section shall be in conformance with the NPDES rulings and the site Storm Water Pollution Prevention Plan.

3.2 SEEDING
A. Disturbed portions of the site and stockpile areas shall be seeded within 14 days if the phasing of the construction operations are anticipated to leave those portions of the areas unworked for 21 days or more.
B. Seeding operations shall be performed in accordance to the state's Standard Specifications, using the materials specified and the season in which the seeding operations are to occur.
C. Seeded areas shall be maintained until the project is accepted by the Owner. Maintenance shall include but not be limited to watering, fertilizing, reseeding, mowing and erosion repair as may be required. Grass shall be cut when the average height of the grass reaches 6 inches. Clippings may be mulched back into the seeded areas.

3.3 TEMPORARY AND PERMANENT SWALES
A. Description
1. Temporary and permanent drainage swales shall be provided as required to carry drainage away from the work area to an approved outfall point.
2. Unless otherwise shown on the drawings, swales shall be earthen "V" shaped channels graded to a sufficient depth and slope to carry the anticipated runoff, but at least 2 feet deep with a slope of 0.1 percent.
3. Swales not designated to remain in place at the completion of the contract shall be cleaned of any muck, debris and other unsuitable material and filled with approved fill before final grading operations begin.
4. Swales shall have erosion control barriers as required.
5. All permanent swales shall be sodded to a minimum width of 10 feet on either side of the centerline of the swale.
B. Maintenance
1. During the course of construction all temporary swales constructed for this contract shall be maintained so as to allow proper drainage from the construction area. Before Contractor leaves the site at the end of construction, all temporary swales to remain shall be placed in good working condition.
2. Contractor shall work with other contractors at the site in maintaining existing swales and ditches.
3. Where necessary for access to the work areas, adequately sized culverts shall be installed and maintained to provide the access without disturbing the site drainage.
4. Care shall be taken not to rut and damage sodded swales. Damaged swales shall be repaired immediately.
5. Keep sodded swales mowed.

3.4 DRAINAGE DITCHES
A. Drainage ditches shall be hydromulched immediately upon final grading.
B. Erosion of the banks of the drainage ditches shall be repaired immediately and re-stabilized.
C. Sediment barriers shall be placed at intervals along the ditch as shown on the plans and as necessary to help trap sediment on the site. Sediment and other debris trapped by the barriers shall be removed on a daily basis as needed.
D. Ditch side slopes shall not be steeper than 3 feet horizontal to 1 foot vertical.
E. Maintenance of the ditches during construction shall include but not be limited to mowing, re-grading, sediment removal, re-hydromulching, bank repair and debris removal.
F. Sediment removed from the ditches may be respread on the site as directed by the Owner.

3.5 FILL AND CUT SLOPES
A. Fill slopes in all cases shall be no steeper than 3:1 unless specifically stated on the plans or approved by the Owner's soils engineer.
B. When cut slopes exceed 2:1 for depths over 3 feet, proper bracing and shoring per OSHA requirements shall be used and maintained.
C. For permanent slopes, cut or fill, between 2:1 and 10:1, erosion protection shall be provided with hydromulching, sodding, seeding, or other method as approved.

3.6 SEDIMENTATION BASINS
A. Description
1. Sedimentation ponds shall be provided where designated on the plans.
2. All drainage from cleared areas shall be routed through the sedimentation basin.
3. Contractor will be responsible for the operation and maintenance of the pond during construction.
B. Maintenance
1. Contractor shall be responsible for maintaining the pond and the outfall and sediment retarding structure in good working condition throughout the time the pond is to be in operation.
2. When sediment and debris fill the pond to over 1/3 its designed capacity, the pond shall be cleaned out.

3.7 EROSION CONTROL BARRIERS
A. Erosion control barriers shall be provided at intervals along swales and ditches as shown on the drawings and as necessary to meet the requirements of the Storm Water Pollution Prevention Plan.
B. The barriers shall be silt fence or hay bales placed as shown on the drawings and details.
C. Barriers shall be maintained in good working condition and replaced when damaged.

END OF SECTION C01570

SECTION - C01700: CONTRACT CLOSEOUT

PART I - GENERAL

1.1 REQUIREMENTS
A. All the operations and/or documents described in this section shall be completed and/or delivered to the project manager prior to acceptance of the work and final payment.

1.2 CLEANING
A. General: Each Contractor or subcontractor shall remove and dispose of all tools, equipment, surplus material and rubbish pertaining to his work, and cooperate in final cleaning by general contractor.
B. Final Cleaning: Thoroughly clean the entire project upon completion of the work, including but not necessarily limited to: Power sweeping the parking lot, cleaning construction debris from adjacent exterior areas, polishing all metals, cleaning all plumbing fixtures and accessories, cleaning all stainless steel fixtures and equipment, removing all labels and layout marks, cleaning all windows and mirrors, cleaning all floors, and in general, removing all evidence of the construction process, to leave the entire premises in clean, new operating condition.
C. Equipment and Systems: The attention of the Contractor is directed to the fact that scale, metal shaving, oil, pipe dope and every impurity will tend to accumulate at restricted points and impede flow. Every precaution shall therefore be observed in the assembly of the systems to remove and exclude foreign matter and upon completion of erection, a thorough cleaning program shall be observed. The cleaning operation shall be accomplished after all parts of the systems are in place but before any are insulated or furred in. Remove all labels, dirt, paint, grease and stains from all exposed devises, equipment and fixtures installed under this contract. Clean and polish all equipment upon completion of the work to present a first class job suitable for occupancy.

1.3 AFFIDAVITS
A. Provide "Full Waiver Final Lien Release" form, "Affidavit of Completion and Warranty" as required in the contract.

1.4 OPERATING AND MAINTENANCE DATA:
A. Complete mechanical equipment operating manuals and instructions, specification data, diagrams and charts as specified in Division 15. Include the name, address and 24 hour telephone number of service representatives for the plumbing, HVAC, and electrical systems. Include diagrams and wiring diagrams of contractor-furnished equipment. Provide this information to the on site Operator and CFA Facilities.

1.5 SYSTEMS DEMONSTRATIONS
A. Each separate system with its various components shall be operated by this contractor or his subcontractors for a responsible length of time to demonstrate the performance of all equipment and piping in accordance with the true intent and purpose of the plans and specifications. All necessary adjustments shall be made to the satisfaction of the Owner.

1.6 GUARANTEES AND WARRANTIES
A. Certain certificates of warranties and guarantees shall be required. These guarantees and warranties, along with duly executed instruments properly assigning said guarantees and warranties shall be forwarded to the Owner, bound in a single volume, grouped by trade and properly indexed. These items shall be forwarded prior to Request for Final Payment. Contractor is directed to examine all technical sections of the specifications for the required documents. The following list is included for the Contractor's convenience and does not necessarily include all required documents:
1. General contractor's written guarantee stating that the work in its entirety is guaranteed for a period of one year from the date of substantial completion against all defects in materials and workmanship.
2. Roofing installer's written guarantee to the Contractor stating that all work performed under said subcontract is guaranteed for a period of one (1) years against all defects in materials and workmanship. In the event the work is performed by the general contractor's own forces, this guarantee shall be from the general contractor to the Owner.
3. Written termite guarantee stating that soil poisoning treatment is guaranteed for a period of five (5) years, and that said treatment is renewable on a year to year basis by contract with the Owner.
4. Manufacturer's warranties on new air conditioning units and any other manufacturer's equipment warranties, all duly transferred to the Owner.
5. All certificates such as Ansul systems, fire protection, certificates of occupancy, etc.

1.7 OPENING DAY CONTRACTOR PERSONNEL
A. Owner shall notify Contractor in writing of his scheduled "Opening Day" for business. Contractor shall arrange for his job superintendent to be present at the site to assist the Owner from 9:00 a.m. thru 5:00 p.m. on that day. In addition, Contractor shall arrange for his mechanical (HVAC), plumbing and electrical subcontractor's job superintendents to be on call to the project during those same hours.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01700

SECTION - C01720: PROJECT RECORD DOCUMENTS

PART I - GENERAL

1.1 DESCRIPTION
A. Related Drawings, Product Data and Samples

1.2 MAINTENANCE OF DOCUMENTS
A. Maintain one copy of:
1. Contract Drawings - As Builts
2. Specifications
3. Addenda
4. Approved Shop Drawings
5. Supplemental Instructions
6. Change Orders
7. Other Modifications of Contract
8. Field Test Records
9. Correspondence File
B. Store documents in approved locations, apart from documents used for construction.
C. Maintain documents in clean, dry, legible condition.
D. Do not use record documents for construction purposes.
E. Make documents available at all times for inspection by Architect/Engineer and Owner.

1.3 MARKING DEVICES
A. Provide felt marking pen for marking. Make notations in "red."

1.4 RECORDING
A. Label each document "PROJECT RECORD" in 2 inch high printed letters.
B. Keep record documents current.
C. Do not permanently conceal any work until required information has been recorded.
D. Contract Drawings. Legibly mark to record actual construction:
1. Factory and field seams in membrane, dimensionally located.
2. Field changes of dimension and detail.
3. Changes made by Supplemental Instruction or Change Order.
4. Details not on original Contract Drawings.
E. Project Manual and Addenda. Legibly mark-up each section to record:
1. Manufacturer, trade name, catalog number and supplier of each product and item of equipment actually installed.
2. Changes made by Supplemental Instruction of Change Order.
3. Other matters not originally specified
F. Project Submittals: Maintain as record documents. Legibly mark-up approved shop drawings to show changes made after review.

1.5 SUBMITTAL
A. At completion of project, deliver record documents to Owner.
B. Accompany submittal with transmittal letter, in duplicate containing:
1. Date
2. Project title and number.
3. Contractor's name and address.
4. Title and number of each record document.
5. Certification that each document as submitted is complete and accurate.
6. Signature of Contractor, or his authorized representative.
7. G.C. to provide PVC tube and set of record drawings.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01720

DIVISION 02 - EXISTING CONDITIONS

SECTION - C02000: SITE WORK
See Civil drawings for Sitework Specifications.
C02200 DEMOLITION
C02205 UTILITIES - RELOCATE
C02300 CLEARING, EXCAVATION & GRADING
C02500 SITE UTILITIES
C02600 STORM DRAINAGE
C02700 PAVEMENT SURFACES
C02850 MISCELLANEOUS SITE IMPROVEMENT

END OF SECTION C02000

SECTION - C02300: SUBSURFACE INVESTIGATION

PART I - GENERAL

GENERAL
Geotechnical Investigation (Sub-surface Soils Tests) for the project site has been performed and a report of that investigation has been completed. A copy of the investigation report is part of the required download documents given to the General Contractor.

SUBSURFACE INFORMATION
Log of borings indicates materials penetrated at specific locations. Owner and/or Architect assume no responsibility for any conclusions or interpretations made by Contractor related to information included in the Report. Should Contractor require additional information concerning sub-surface conditions, he may without cost to Owner, make additional investigations. Should additional investigations produce information different from that in Soil Report, notify Owner in writing.

1.3 REQUIREMENT
A. Contractor read and otherwise become completely familiar with contents of Soil Report, including but not limited to its recommendations for preparation of subsoil, bases, sub-bases and fill and construction of building foundations, parking and paving. Provide building foundations in compliance with recommendations in Report. Should discrepancy be found between the requirements of Soil Report and the drawings and/or specifications, notify Architect in writing prior to beginning Work.
B. Structural Engineer to state applicable data for final design from the soil report. Reference drawings for details.

PART II PRODUCTS
Not used

PART III EXECUTION
Not used

END OF SECTION C02300

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CHICK-FIL-A
SAR South Cobb Drive FSR
3100 South Cobb DR SE, Smyrna, GA 30080

FSR# 00810

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	2017.0165
PRINTED FOR	BID
DATE	September 08, 2017
DRAWN BY	AD

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SPECIFICATIONS

SHEET NUMBER
A-902

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