## SUBMITTAL TRANSMITTAL

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<tr>
<th>Project Name</th>
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<td>Subcontractor/Supplier</td>
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<td>Drawing Number</td>
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DEVIATIONS: None ; As Listed
SPACE REQUIREMENTS: As Designed ; Different and as Listed

THIS SUBMITTAL CONSISTS OF (SELECT):

- Product Data
- Shop Drawings
- Installation Instructions
- Material Schedule
- Installation Instructions
- Manufacturer’s Approval of Applicator/Installer
- Others (include list)

Quantity:
- Description:
  - Sepia
  - Prints

Samples
Check one of the following:
- Submitted □
- Resubmitted □
By ____________________________
Date ____________________________
Signature ____________________________

SUBMITTAL TRANSMITTAL REVIEW

Consultant’s project #: ________________
Consultant’s tracking #: ________________

☐ NO EXCEPTIONS TAKEN
☐ NOTE COMMENTS
☐ REJECTED
RESUBMIT
CONSULTANT’S COMMENTS:
________________________________________________________
________________________________________________________
By ____________________________
Date ____________________________

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END OF SECTION 01340 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

SECTION 01390 – CONTROL OF WORK

PART 1 - GENERAL

1.01 AUTHORITY OF CPM AND THE CONSULTANT

The Consultant will decide any and all questions that may arise as to the quality and acceptability of materials furnished and the technical interpretation of the Contract Documents. The CPM will decide any and all questions that may arise as to the work performed, the rate of progress of the Work, the fulfillment of the Contract on the part of the CONTRACTOR and the rights of different CONTRACTORS on the Project. The CPM will determine the amount and quality of the several kinds of work performed and materials furnished which are to be paid for under the Contract.

1.02 CONFORMITY WITH DRAWINGS AND SPECIFICATIONS

A. All work and all materials furnished shall be in conformity with the lines, grades, grading sections, cross sections, dimensions, materials requirements, and testing requirements that are specified (including specified tolerances) in the Contract Documents.

B. If the Consultant finds the materials furnished, or the finished product not within conformity with the Contract Documents but that the portion of the Work affected will, in their opinion, result in a finished product having a level of safety, economy, durability, and workmanship acceptable to the COUNTY, he will submit written findings and advise the CPM of the recommendation that the affected work be accepted and remain in place. In this event, the CPM will document its determination and recommend to the COUNTY a basis of acceptance that will provide for an adjustment in the Contract Sum for the affected portion of the Work. The Consultant's determination and the CPM's recommended Contract Sum adjustments will be based on good engineering judgment and such test or retests of the affected work as are, in their opinion, needed. Changes in the Contract Sum shall be covered by contract modifications as applicable.
C. If the Consultant finds, and advises the CPM that the materials furnished, or the finished product are not in reasonably close conformity with the Contract Documents and have resulted in an unacceptable finished product, the affected work or materials shall be removed and replaced or otherwise corrected by and at the expense of the CONTRACTOR in accordance with the CPM’s written instructions.

D. For the purpose of this Section, the term “reasonably close conformity” shall not be construed as waiving the CONTRACTOR’s responsibility to complete the Work in accordance with the Contract Documents. The term shall not be construed as waiving either the CPM’s or the Consultant’s right to insist on strict compliance with the Contract Documents during the CONTRACTOR’s prosecution of the Work, when, in the CPM’s opinion, such compliance is essential to provide an acceptable finished portion of the Work.

E. For the purpose of this Section, the term “reasonably close conformity” is also intended to provide the CPM and the Consultant with the authority to use good architectural and engineering, and construction management judgment in their determinations as to acceptance of Work that is not in strict conformity but will provide a finished product equal to or better than that intended by the requirements of the Contract Documents.

1.03 COORDINATION OF CONTRACT DOCUMENTS

A. The Contract Documents and all referenced standards cited are essential parts of the Contract Requirements. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete Work. In case of discrepancy, figured dimensions, unless obviously incorrect, shall govern over scaled dimensions. Cited standards for materials or testing, and cited FAA Advisory Circulars and other standards shall be considered as standard specifications.

B. Any table, gradation, size, dimension, rate, mix, method, nomenclature, pay item number, basis of payment or method of measurement shown on the written Contract Documents, will take precedence over any variance with the drawings.

C. The CONTRACTOR shall not take advantage of any apparent error or omission in the various Contract Documents. In the event the CONTRACTOR discovers any apparent conflict, error or discrepancy, CONTRACTOR shall immediately submit a RFI to the CPM for a decision, and such decision shall be final.

1.04 CONSULTANT’S DRAWINGS

A. The Drawings furnished by the Consultant consist of general drawings showing such details as are necessary to give a comprehensive idea of the construction contemplated. Roadway plans will show, in general, alignment, profile grades, typical cross sections and general cross sections. Structure plans, in general, will show in detail all dimensions of the Work contemplated.

B. When the structure plans do not show dimensions in detail, they will show general features and such details as necessary to give a comprehensive idea of
the design and construction of the structure.

C. Not all conflicts are known within the Project area. Not all conflicts are shown on the Drawings. The CONTRACTOR is solely responsible for the location and protection of all equipment and facilities, which are to remain in service and in place during and after completion of all Project Work.

1.05 FIELD NOTES

Field notes and records shall be kept as layout work is accomplished. These field notes and records shall be available for review by the CPM and Consultant as the Work progresses and copies shall be furnished to the CPM at the time of completion of the Project. An inspection or checking of the CONTRACTOR's field notes or layout work by the CPM and the acceptance of all or any part thereof, shall not relieve the CONTRACTOR of his responsibility to achieve the lines, grades, and dimensions shown in the Drawings and Specifications.

1.06 PAYMENT

The cost of all stakes and the cost of performing layout work as described above shall be included in the CONTRACTOR's Cost of Work for the various items of Work to which it is incidental.

1.07 AUTOMATICALLY CONTROLLED EQUIPMENT

Whenever equipment is required to be operated automatically under the Contract and a breakdown or malfunction of the automatic controls occurs, the equipment may be operated manually or by other methods for a period 48-hours following the breakdown or malfunction, provided this method of operations will produce results which conform to all other requirements of the Contract. Such manual operation must be approved by the CPM.

1.08 AUTHORITY AND DUTIES OF INSPECTORS

A. Inspectors employed by the CPM and the COUNTY shall be authorized to inspect all work done and all materials furnished. Such inspection may extend to all or any part of the Work and to the preparation, fabrication, or manufacture of the materials to be used. Inspectors are not authorized to revoke, alter or waive any provision of the Contract. Inspectors are not authorized to issue instructions contrary to the Contract Documents or to act as foreman for the CONTRACTOR.

B. Inspectors employed by the COUNTY and the Consultant are authorized to notify the CONTRACTOR of any failure of the Work or materials to conform to the requirements of the Contract Documents and to reject such nonconforming materials in question until such issues can be referred to the CPM for decision.

1.09 INSPECTION OF THE WORK

A. All materials and each part or detail of the Work shall be subject to inspection by the CPM or Consultant. The CPM or Consultant shall be allowed access to all
parts of the Work and shall be furnished with such information and assistance by
the CONTRACTOR as is required to make a complete and detailed inspection.

B. If the CPM requests it, the CONTRACTOR, at any time before acceptance of the
Work, shall remove or uncover such portions of the finished Work as may be
directed. After examination, the CONTRACTOR shall restore said portions of the
Work to the standard required by the Specifications. Should the Work thus
exposed or examined prove acceptable, the uncovering, or removing, and the
replacing of the covering or making good of the parts removed will be paid for as
extra work; but should the Work so exposed or examined prove unacceptable,
the uncovering, or removing, and the replacing of the covering or making good of
the parts removed will be at the CONTRACTOR’s expense.

C. Any Work done or materials used without supervision or inspection by the CPM
may be ordered removed and replaced at the CONTRACTOR’s expense unless
CPM or Consultant failed to inspect after having been given reasonable notice in
writing that the Work was performed and ready for inspection.

D. Should the Contract Work include relocation, adjustment, or any other
modification to existing facilities, not the property of the COUNTY, authorized
representatives of the COUNTY of such facilities shall be given the right to
inspect such Work. Such inspection shall in no sense make any facility COUNTY
a party to the Contract, and shall in no way interfere with the rights of the parties
to this Contract. Inspection and/or approval of the Work or any portion thereof
shall not relieve the CONTRACTOR of responsibility for faulty materials or
workmanship.

1.10 REMOVAL OF UNACCEPTABLE AND UNAUTHORIZED WORK

A. All Work which does not conform to the requirements of the Contract Documents
will be considered unacceptable, unless otherwise determined acceptable by the
CPM as provided in Item 1.02 CONFORMITY WITH DRAWINGS AND
SPECIFICATIONS of this Section.

B. Unacceptable Work, whether the result of poor workmanship, use of defective
materials, damage through carelessness, or any other cause found to exist prior
to the Final Completion of the Work, shall be removed immediately and replaced
in an acceptable manner in accordance with the provisions of the Contract
Documents

C. Work done contrary to the instructions of the CPM, work done beyond the lines
shown on the Drawings or as given, except as herein specified, or any extra work
done without authority, will be considered as unauthorized and will not be paid for
under the provisions of the Contract. Work so done may be ordered removed or
replaced at the CONTRACTOR’s expense.

D. Upon failure on the part of the CONTRACTOR to comply forthwith with any order
of the CPM made under the provision of this Section, the CPM will have authority
to cause unacceptable work to be remedied or removed and replaced and
unauthorized work to be removed and to deduct the costs (incurred by the
COUNTY) from any monies due or to become due the CONTRACTOR.
1.11 MAINTENANCE DURING CONSTRUCTION

The CONTRACTOR shall maintain the Work during construction and until the Work is accepted by the CPM. This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces so that the Work is maintained in satisfactory condition at all times. All Work shall be protected during any delay between phases or sub-phases of construction required to complete the Work.

1.12 FAILURE TO MAINTAIN THE WORK

A. Should the CONTRACTOR at any time fail to maintain the Work as provided in Item 1.12 MAINTENANCE DURING CONSTRUCTION of this Section, the CPM will notify the CONTRACTOR of such noncompliance. Such notification will specify a reasonable time within which the CONTRACTOR shall be required to remedy such unsatisfactory maintenance condition. The time specified will give due consideration to the exigency that exists.

B. Should the CONTRACTOR fail to respond to the Project Manager’s notification, the CPM may suspend any work necessary for the COUNTY to correct such unsatisfactory maintenance condition, depending on the exigency that exists. Any maintenance costs incurred by the COUNTY shall be deducted from monies due to become due the CONTRACTOR.

PART 2 - PRODUCTS - Not Used
PART 3 - EXECUTION - Not Used

END OF SECTION 01390 - CONTROL OF WORK

SECTION 01400 - QUALITY CONTROL SERVICES

PART 1 - GENERAL

1.01 DESCRIPTION

A. General: This Section specifies administrative and procedural requirements for quality assurance/quality control testing services.

1. Quality assurance/quality control testing services include inspections, tests, and related actions including reports, performed by the independent Test Laboratory under contract to the CONTRACTOR. Such services assist the CONTRACTOR in evaluating if the Work performed complies with the specifications or for use in evaluating construction related purposes. The CONTRACTOR may provide copies of test and inspection reports to the CPM upon request. Quality assurance/quality control testing costs are the responsibility of the CONTRACTOR and are a Cost of Work. They do not include Contract enforcement activities performed by the CPM or the Consultant.

2. Quality acceptance testing services include inspections, tests, and related actions including reports, performed by the independent Test Laboratory
under contract to the COUNTY. Such inspection and testing services are intended to assist the CPM and the Consultant in the determination that the Work performed meets with requirements specified or indicated for acceptance purposes. These services do not relieve the CONTRACTOR of responsibility for compliance with Contract Documents requirements.

3. Payment for, and acceptance of, the Work will be made based on the Work installed meeting or exceeding the specifications as determined by the COUNTY’s quality acceptance testing results.

B. Requirements of this Section relate to customized fabrication and installation procedures, not production of standard products.

1. Inspections, test and related actions specified are not intended to limit the CONTRACTOR’s quality control procedures that facilitate compliance with Contract Documents requirements.

2. Requirements for the CONTRACTOR to provide quality control services required by the Contract Documents, CPM, Consultant, and authorities having jurisdiction are not limited by provisions of this Section.

1.02 TESTING BY THE COUNTY

The COUNTY will engage and pay for the services of a Testing Laboratory to perform quality acceptance inspections and tests specified for the work.

Where the COUNTY has engaged a testing laboratory or other entity for testing and inspection of a part of the Work, and the CONTRACTOR is also required to engage an entity for the same related element, the CONTRACTOR shall not employ the entity engaged by the COUNTY, unless otherwise agreed in writing with the CPM.

1.03 TESTING BY THE CONTRACTOR

The CONTRACTOR may engage and will pay for the services of a Testing Laboratory to perform inspections and quality assurance/quality control tests. The COUNTY will ONLY engage and pay for the services of a Testing Laboratory to perform quality acceptance inspections and tests.

Where the Consultant has engaged a testing laboratory or other entity for testing and inspection of a part of the Work, and the CONTRACTOR is also required to engage an entity for the same related element, the CONTRACTOR shall not employ the entity engaged by the Consultant, unless otherwise agreed in writing with the CPM.

1.04 CONTRACTOR RESPONSIBILITIES

A. CONTRACTOR Responsibilities: The CONTRACTOR shall provide inspections, tests and similar quality assurance/quality control services, specified in individual Specification Sections and required by governing authorities.
1. Retesting: When the Work installed by the CONTRACTOR does not meet the requirements of the Specifications, as determined by the COUNTY's quality acceptance testing, the CONTRACTOR is responsible for retesting costs for all required inspections, tests, or similar services.

2. Associated Services: The CONTRACTOR shall cooperate with the laboratories performing required inspections, tests, and similar services, and provide reasonable auxiliary services as requested. The CONTRACTOR shall notify the CPM at least 24 hours in advance of operations requiring testing by the COUNTY to permit assignment of personnel. Auxiliary services required include but are not limited to:
   
   a. Providing access to the Work and furnishing incidental labor and facilities necessary to facilitate inspections and tests.
   
   b. Taking adequate quantities of representative samples of materials that require testing or assisting the laboratories in taking samples.
   
   c. Providing facilities for storage and curing of test samples, and delivery of samples to testing laboratories.
   
   d. Providing the testing laboratory with preliminary design mix proposed for use for materials mixes that require control by the testing agency.
   
   e. Providing security and protection of samples and test equipment at the Project site.

B. Duties of the Testing Laboratory: The independent testing laboratory engaged by the COUNTY, Consultant or CONTRACTOR to perform inspections, sampling and testing of materials and construction specified in individual Specification Sections will cooperate with the CPM, Consultant and CONTRACTOR in performance of its duties, and provide qualified personnel to perform required inspections and tests.

1. The COUNTY's testing laboratory will notify the CPM and Consultant promptly of irregularities or deficiencies observed in the Work during performance of its services.

2. All testing laboratories do not have authority to release, revoke, alter or enlarge requirements of the Contract Documents, or approve or accept any portion of the Work.

3. All testing laboratories shall not perform any duties install the Work of the CONTRACTOR.

C. Coordination: The CONTRACTOR and each laboratory engaged to perform inspections, tests, and similar services shall coordinate the sequence of activities to accommodate required services with a minimum of delay. In addition, the CONTRACTOR and each laboratory shall coordinate activities to avoid the
necessity of removing and replacing construction to accommodate inspections and tests.

The CONTRACTOR is responsible for scheduling times for inspections, tests taking samples, and similar activities, and shall notify the CPM at least 24 hours in advance of testing and sampling activities.

1.05 SUBMITTALS

The independent testing laboratory employed by the COUNTY or Consultant will submit an original and one (1) copy of the certified written report to the CPM. The CPM will provide a copy of the test report to the Consultant and CONTRACTOR of each inspection, test or similar service.

1. The independent testing laboratory shall submit additional copies of each written report directly to the governing authority, when the authority so directs.

2. Report Data: Written reports of each inspection, test or similar service shall include, but not be limited to:
   a. Date of issue.
   b. Project and title number.
   c. Name, address and telephone number of testing agency.
   d. Dates and locations of samples and tests or inspections.
   e. Names of individuals making the inspection or test.
   f. Designation of the Work and test method.
   g. Identification of product and Specification Section.
   h. Complete inspection or test data.
   i. Test results and interpretations of test results.
   j. Ambient conditions at the time of sample-taking and testing.
   k. Comments or professional opinion as to whether inspected or tested Work complies with Contract Documents requirements.
   l. Name and signature of laboratory inspector.
   m. Recommendations on retesting.

1.06 QUALITY ASSURANCE OF TESTING LABORATORY

Qualification of Testing Laboratory: The COUNTY or CONTRACTOR will engage an inspection and testing laboratory which is prequalified as complying with "Recommended Requirements for Independent Laboratory Qualification" by the American Council of Independent Laboratories, and which specializes in the types of inspections and tests to be performed. The testing laboratory will be accredited by a recognized accreditation authority as outlined in ASTM Section 3, and shall be authorized by the authorities having jurisdiction to operate in the state of Florida.
The CONTRACTOR shall take corrective action necessary to comply with the Contract Documents as the CPM may direct. No change will be made in the Contract Price or in the Contract time as a result of authorizing a change in methods or equipment under this Section.

END OF SECTION 01400 - QUALITY CONTROL SERVICES

SECTION01500 - TEMPORARY FACILITIES

PART 1 - GENERAL

1.01 SUMMARY

A. This Section specifies requirements for temporary services and facilities, including utilities, construction and support facilities, security and protection.

B. Temporary utilities required include but are not limited to:

1. Temporary electric power and light.
2. Temporary telephone service.
3. Temporary water service
4. Temporary project identification sign; all others are prohibited.

C. Temporary support facilities required include but are not limited to:

1. Sanitary facilities, including drinking water.
2. Waste disposal services.
3. Dust control.

D. Temporary construction and support facilities:

The CONTRACTOR will provide a field office for use by the CONTRACTOR and subcontractors during the performance of the Work. The support facilities shall include all furniture, equipment, office supplies, cleaning and maintenance. The CPM will designate a location for the CONTRACTORS trailers, if multiple CONTRACTORS are located adjacent to each other.

E. Security and protection facilities required include but are not limited to:

1. Barricades, warning signs, lights,
2. Enclosures and Fencing,
3. Environmental protection,
4. Vehicular access,
5. Parking,
6. Traffic Regulation, and

1.02 SUBMITTALS

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Implementation and Termination Schedule: Submit a schedule indicating implementation and termination of each temporary facility or utility not less than (fifteen) 15 days of the established date for the commencement of the Work.

1.03 QUALITY ASSURANCE

A. Regulations: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction, including but not limited to:

1. Building Code requirements,
2. Health and safety regulations,
3. Utility company regulations,
4. Police, Fire Department and Rescue Squad rules, and
5. Environmental protection regulations.


Refer to "Guidelines for Bid Conditions for Temporary Job Utilities and Services", prepared jointly by AGC and ASC, for industry recommendations.

C. Inspections: Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits, and provide a copy to the CPM as a precondition of submitting a request for payment for the temporary facility.

1.04 PROJECT CONDITIONS

A. Temporary Utilities: Prepare a schedule indicating dates for implementation and termination of each temporary utility. At the earliest feasible time, when acceptable to the COUNTY, change over from use of temporary service to use of the permanent service.

B. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Take necessary fire prevention measures. Do not overload facilities, or permit them to interfere with progress. Do not allow hazardous, dangerous or unsanitary conditions, or public nuisances to develop or persist on the site.

PART 2 - PRODUCTS

2.01 MATERIALS

Water: Provide potable water approved by local health authorities.

2.02 EQUIPMENT
Temporary Toilet Units: Provide self-contained single occupant toilet units of the chemical, aerated recirculation, or combustion type, properly vented and fully enclosed with a glass fiber reinforced polyester shell or similar nonabsorbent material.

PART 3 - EXECUTION

3.01 TEMPORARY UTILITIES

A. Temporary electricity

1. CONTRACTOR will provide all electricity and will provide any transformer required to convert the power to the voltage and amperage necessary to conduct its Work. CONTRACTOR will exercise measures to conserve energy.

2. Provide temporary electric feeder from electrical service at location as directed by CPM. Do not disrupt County's use of service.

3. Complement existing power service capacity and characteristics as required for construction operations.

4. Provide power outlets, with branch wiring and distribution boxes located at each floor, as required for construction operations. Provide flexible power cords as required for portable construction tools and equipment.

5. Provide main service disconnect and over-current protection at convenient location and feeder switch at source distribution equipment.

6. Permanent convenience receptacles may be utilized during construction.

B. Temporary Lighting for construction purposes

1. Provide and maintain lighting for construction operations to achieve minimum lighting level of 2 watt/sq. ft.

2. Provide and maintain 1 watt/sq. ft. lighting to exterior staging and storage areas after dark for security purposes.

3. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps for specified lighting levels.

4. Maintain lighting and provide routine repairs.

5. Permanent building lighting may be utilized during construction.

C. Temporary Water Service
1. CONTRACTOR will pay cost of temporary water and exercise measures to conserve water consumption. CONTRACTOR may utilize County's existing or new water system with written approval by CPM. Extend and supplement with temporary devices as needed to maintain specified conditions required by CPM. CONTRACTOR will provide all backflow prevention devices acceptable to CPM.

2. Extend branch piping with outlets located so water is available by hoses with threaded connections.

3.02 TEMPORARY CONSTRUCTION AND SUPPORT FACILITIES INSTALLATION

A. General: Locate field offices, storage sheds, sanitary facilities and other temporary construction and support facilities as indicated or as directed by CPM.

1. Maintain temporary construction and support facilities until near Substantial Completion. Remove prior to Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use BCAD provided facilities, under conditions acceptable to the CPM.

B. Storage and Fabrication Sheds: Install storage and fabrication sheds, sized, furnished and equipped to accommodate materials and equipment involved, including temporary utility service. Sheds may be open shelters or fully enclosed spaces within the building or elsewhere on the site. Final location is subject to CPM's approval.

C. Do not use existing facilities for field offices or for storage unless otherwise directed by the CPM. Locate office and storage trailers as directed by CPM.

D. Field Office: Weather tight, with lighting, electrical outlets, heating, cooling and ventilating equipment, and equipped with sturdy furniture drawing rack and drawing display table.

E. Locate offices and sheds minimum distance of 30 feet from new structures.

F. Do not use permanent facilities for field offices unless otherwise directed by the CPM.

G. Construction: Portable or mobile buildings, or buildings constructed with floors raised above ground, securely fixed to foundations with steps and landings at entrance doors.


2. Temperature Transmission Resistance of Floors, Walls, and Ceilings: Compatible with occupancy and storage requirements.
3. Exterior Materials: Weather resistant, finished in one color acceptable to CPM.

4. Interior Materials in Offices: Sheet type materials for walls and ceilings, pre-finished or painted; resilient floors and bases.

5. Lighting for Offices: 50 footcandles at desk top height, exterior lighting at entrance doors.

6. Fire Extinguishers: Appropriate type fire extinguisher at each office and each storage area.

7. Interior Materials in Storage Sheds: As required to provide specified conditions for storage of products.

H. Environmental Control:

1. Heating, Cooling, and Ventilating for Offices: Automatic equipment to maintain comfort conditions, 68 degrees F (20 degrees C) heating and 76 degrees F (23 degrees C) cooling.

2. Storage Spaces: Heating and ventilation as needed to maintain products in accordance with Contract Documents; lighting for maintenance and inspection of products.

I. Storage Areas And Sheds: Size to storage requirements for products of individual Sections, allowing for access and orderly provision for maintenance and for inspection of products to requirements of Section 01600.

J. Preparation: Fill and grade sites for temporary structures sloped for drainage away from buildings.

K. Employee Residential Occupancy: Not allowed on County's property.

L. Sanitary Facilities: Sanitary facilities include temporary toilets, wash facilities and drinking water fixtures. Comply with regulations and health codes for the type, number, location, operation and maintenance of fixtures and facilities. Install where facilities will best serve the Project's needs.

1. Provide toilet tissue, paper towels, paper cups and similar disposable materials for each facility. Provide covered waste containers for used material.

M. Toilets: Install self-contained toilet units. Shield toilets to ensure privacy. Use of pit type privies will not be permitted.

N. Project Identification/Construction Company Identification Sign: When authorized in writing by the CPM, prepare project identification sign of a size acceptable to the CPM; install sign where indicated to inform the public and persons seeking entrance to the Project. Securely attach, as required, to demising wall. Install sign at commencement of demolition operations and remove at a time as directed by the CPM.

1. Size: Two and one-half feet by five feet with four inch radius corners.

2. Quality Assurance: Engage an experienced sign painter to apply
3. Location: As directed by the Project Manager.

4. Graphic Description: Information shall include the names of Broward COUNTY Aviation Department, CONTRACTOR, CONSULTANT, Project, and the completion date.
   a. Type Style: Helvetica Medium.
   b. Color: Slate Blue PMS 5405 background with white lettering.

O. Quantity: One sign located at each entrance to construction site and one sign located at field office if applicable.

P. Collection and Disposal of Waste: Collect waste daily. Comply with requirements of the COUNTY and NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than 6 days or 2 days when the temperature is expected to rise above 80 degrees F (27 degrees C). Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.

Q. Dust Control:
   1. Execute Work by methods to minimize raising dust from construction operations.
   2. Provide positive means to prevent air-borne dust from dispensing into atmosphere.

3.03 VEHICULAR ACCESS

A. Construct temporary all-weather access roads from public thoroughfares to serve construction area, of width and load bearing capacity to accommodate unimpeded traffic for construction purposes.

B. Construct temporary bridges and culverts to span low areas and allow unimpeded drainage; permitting for temporary bridges or culverts are the CONTRACTOR’s responsibility and at no additional cost to the COUNTY.

C. Extend and relocate vehicular access as Work progress requires, provide detours as necessary for unimpeded traffic flow.

D. Location as approved by CPM.

E. Provide unimpeded access for emergency vehicles. Maintain 20 ft. wide driveways with turning space between and around combustible materials.

F. Provide and maintain access to fire hydrants and control valves free of obstructions.

G. Provide means of removing mud from vehicle wheels before entering streets.

H. Use designated existing on-site roads for construction traffic.

I. Consult with CPM; establish public thoroughfares to be used for haul routes and site access.

J. Confine construction traffic to designated haul routes.
3.04 PARKING

A. COUNTY may provide parking in a remote parking lot at no cost. Transportation of employees, subcontractors, etc. to and from the remote lot is the responsibility of the CONTRACTOR, and at no additional cost to the COUNTY.

B. Tracked vehicles are not allowed on paved areas.

C. Maintain traffic and parking areas in sound condition free of excavated material, construction equipment, products and mud.

D. Maintain existing and permanent paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.

E. Repair existing facilities damaged by use, to original condition.

F. Mud from Site Vehicles: Provide means of removing mud from vehicle wheels before entering streets.

G. No personal vehicles are allowed to park overnight in COUNTY provided parking spaces.

3.05 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Barricades, Warning Signs, cones, flag persons and Lights: Comply with standards and code requirements for erection of structurally adequate barricades. Paint, as directed by the CPM with appropriate colors, graphics and warning signs to inform personnel and the public of the hazard being protected against. Where appropriate and needed, provide lighting, including flashing red or amber lights, cones and flag persons.

B. Haul Routes:

1. Provide traffic control at critical areas of haul routes to regulate traffic, to minimize interference with public traffic and to protect facilities.
2. Provide flaggers as required to cross AOA locations.
3. Comply with all security requirements for accessing AOA locations.

C. Traffic Signs:

1. Provide signs at approaches to site and on site, at crossroads, detours, parking areas, and elsewhere as needed to direct and control construction traffic and affected public traffic.
2. Relocate as Work progresses, to maintain effective traffic control.

D. Environmental Protection: Provide protection, operate temporary facilities and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways and subsoil might be contaminated or polluted, or that other undesirable effects might result. Avoid use of tools and equipment, which produce harmful noise. Restrict use of noise making tools and equipment to hours that will minimize complaints from persons near the site.

E. Barriers
1. Provide barriers to prevent unauthorized entry to construction areas to allow for County's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

2. Provide barricades and covered walkways required by CPM for public rights-of-way and for public access to existing buildings.

3. Provide protection for plants designated to remain. Replace damaged plants.

4. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

F. Enclosures And Fencing

1. Construction: Commercial grade chain link fence with black plastic privacy slats and 3 strand barbed wire and extension arm sloped to 45 degrees or equal as approved by CPM.

2. Provide fence around construction site as indicated on Construction Documents; equip with vehicular and pedestrian gates with locks.

G. SECURITY

1. Security Program:
   a. Protect Work and existing premises and County's operations from theft, vandalism, and unauthorized entry.
   b. Initiate program in coordination with County's existing security system at project mobilization.
   c. Maintain program throughout construction period until County acceptance precludes need for CONTRACTOR security.

2. Entry Control:
   a. Persons working on AOA must have BCAD identification badge.
   b. Restrict entrance of persons and vehicles into Project site.
   c. Allow entrance only to authorized persons with proper identification.
   d. Coordinate access of County's personnel to site in coordination with County's security forces.
   e. Provide escorts (trained and badged per BCAD requirements) for movement of materials, equipment or personnel in controlled or AOA locations.

3.06 OPERATION, TERMINATION AND REMOVAL

A. Maintenance: Maintain facilities in good operating condition until removal. Protect from damage by the elements.

B. Termination and Removal: Unless the CPM requests that it be maintained longer, remove each temporary facility when the need has ended or no later than Substantial Completion.
END OF SECTION 01500 - TEMPORARY FACILITIES

SECTION 01540 – CONSTRUCTION SAFETY PLAN AND SECURITY REQUIREMENTS

PART 1 - GENERAL

1.01 PURPOSE AND OBJECTIVE

A. The purpose of this plan is to set forth guidelines concerning construction and safety on the FORT LAUDERDALE – HOLLYWOOD INTERNATIONAL AIRPORT. Described herein are methods, procedures, rules and authorities to be adhered to during said construction period.

B. This Contract is intended to provide for the optimum degree of safety to aircraft, both parked and operating; airport personnel, equipment and associated facilities; and to the CONTRACTOR’s operations consistent with minimum interference to the movement of aircraft, vehicles and/or personnel engaged in the day-to-day operation of the Fort Lauderdale-Hollywood International Airport. To this end, the CONTRACTOR shall observe all Federal Aviation Advisory regulations and airport rules and regulations, the OCIP Safety Manual, and all other operational limitations, which may be imposed from time to time. He shall provide marking, lighting, barricades, signs or other measures which are required to properly identify his construction areas, Work sites, equipment, vehicles, storage areas and/or conditions which may be hazardous to airport operations. Details of measures to be used to insure safety during construction are delineated in this Section, General Provisions, and on the Drawings.

C. If the CONTRACTOR fails to maintain the marking, lighting, barricades, signs, etc., as required above, the COUNTY will cause appropriate safety measures to be installed by others and all cost thereof shall be charged to the CONTRACTOR and deducted by the COUNTY from monies due to the CONTRACTOR.

D. Following are the general safety plan objectives that must be achieved in order to maximize safety and to minimize time and economic loss to the aviation community, construction CONTRACTORs and others directly affected by the Project.

1. Keep the airport operational for all users.
2. Minimize delays to airport operations.
4. Minimize delays to construction operations.
5. Minimize airport-operation/construction-activity conflicts

E. The CONTRACTOR shall keep these objectives in mind when formulating his schedule and operational activities.

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The CONTRACTOR’s responsibility for safety and security shall begin on the day when he starts Work or on the date of a Notice to proceed, whichever is earlier, and continues until Final Completion and Acceptance of the Work.

1.02 SAFETY PROCEDURES

A. In as much each Work area will be accessible to and used by the Public, the COUNTY, airlines and other companies doing business at the Airport during the construction period, it is the CONTRACTOR’s responsibility to maintain each Work area in a safe, hazard free condition at all times. This will include barricades, fencing, taping up sharp corners or any other precautions necessary to protect the Public. Should the COUNTY, CONSULTANT or CPM find the area unsafe at any time, he shall notify the CONTRACTOR, and the CONTRACTOR shall take whatever steps necessary to remedy the unsafe condition. Should the CONTRACTOR not be immediately available for corrective action, the CPM may remedy the problem and the CONTRACTOR shall reimburse the COUNTY for the expense of such correction.

B. Fire Control: Flame cutting will be permitted only on steel parts that cannot be removed in any other manner and only when at least one person is standing by exclusively with a fire extinguisher within ten (10) feet of the Work and within full view of the area. The fire extinguisher shall have been tested and ready for use. The CONTRACTOR shall submit a fire protection plan to the CPM for approval prior to conducting the Work requiring said protection plan. A Hot Work Permit may be required as directed by the CPM.

C. Work Near Fire Alarm: Caution shall be exercised as necessary when working near fire alarms so as not to accidentally activate fire alarms, doors or barriers.

D. Protection of Property: Fixed structures, equipment, paving, landscaping and vehicles (automobiles, trucks, etc.) shall be protected with drop cloths, shielding and other appropriate measures to assure maximum protection of all property and vehicles.

1.03 GENERAL SAFETY REQUIREMENTS

A. A construction/safety meeting will be conducted by the CPM after award of the Contract and prior to commencing construction. Additional construction/safety meetings may be scheduled as deemed necessary by the CPM throughout the life of the Contract. Representatives from the CONTRACTOR, CONSULTANT, CPM and any others deemed necessary by COUNTY or CPM, will attend. The CONTRACTOR shall also conduct Safety/Security meetings as deemed necessary by the CPM and three (3) copies of the minutes will be provided to the CPM within five (5) calendar days of the meeting. All CONTRACTOR and subcontractor supervisors are required to attend.

B. The CONTRACTOR shall inform his supervisors and workmen of the airport activity and operations that are inherent to this airport, the safety regulations of the airport
and the prohibition of driving or walking on any area of the AOA without clearance. The CONTRACTOR shall conduct his construction activities to conform to both routine and emergency requirements, in full compliance with the Federal Aviation Administration (FAA) Advisory Circulars dealing with Safety and Security. The CONTRACTOR shall provide initial and continuing instruction to all supervisors, employees, subcontractors and suppliers to enable them to conduct their Work in a manner that will provide the maximum safety with the least hindrance to air and ground traffic, the general public, airport employees and to the workmen employed on the Site.

C. Work may be stopped or suspended by the CPM or COUNTY anytime the CPM or COUNTY considers that the intent of this Safety Plan is being violated or that a hazardous condition has been/was created. This decision to suspend the Work will be final and will only be rescinded by the CPM when satisfied that the CONTRACTOR has taken action to prevent recurrence. Delays/work stoppage as a result of the suspension of the Work will be considered the fault of the CONTRACTOR and shall not stop the Contract time for assessing liquidation damages.

D. All CONTRACTOR vehicles authorized by BCAD, if any, to operate on the airport outside the Construction Area limits as defined herein and cross active runways, safety zones, taxiways, instrument or approach clear zones or any movement area within the AOA shall do so only under direct control of a trained, qualified flagman who is in direct (two-way) radio communication with the ground controller of the Traffic Control Tower. All aircraft have priority over ground vehicles.

E. All Contract vehicles, if any, that are authorized to operate on AOA or the Airport outside of the designated Construction Area limits or haul routes as defined herein, shall display 3-foot by 3-foot flags or larger, orange and white checkerboard pattern, each checkerboard color being 1-foot square. Vehicles operating in the active AOA shall be under the control of the Ground Traffic Control Tower.

F. If any construction activity within 125-feet of an active runway edge or 83.5-feet from an active taxiway edge requires the closure of the affected runway or taxiway, unless otherwise approved by the Broward COUNTY Aviation Department (BCAD) Operations. No runway, taxiway or apron area shall be closed without written approval of BCAD Operations and the CPM. This will enable "Notices of Airmen" or other advisory communications to be issued. A minimum of 48 hours notice of requested closing shall be directed to the CPM who will coordinate the request with BCAD Operations.

1. Debris, waste and loose material capable of causing damage to aircraft landing gears, propellers or being ingested in jet engines shall be removed from the active portion of the AOA, placed in protected areas or otherwise secured to prevent dispersal into active portions of the AOA. The AOA is defined as all areas used or intended to be used for aircraft
operations including active runways, aprons, taxiways, taxi lanes, etc. Debris shall be promptly removed from the AOA. The CONTRACTOR shall exercise care in the transportation of materials within the AOA. Materials tracked or spilled in the AOA shall be removed immediately.

2. When hauling, loading, grading, or when any of the CONTRACTOR's activities are likely to cause the deposit of loose materials in the AOA, powered vacuum sweepers shall patrol the affected areas continuously to remove such deposits. The sweepers shall be supplemented by hand sweepers, loaders, truck, etc. as necessary.

3. Closures:

   a. Prior to the commencement of any demolition or other Work, which will cause an interruption, or modification to existing aircraft operations, the CONTRACTOR shall confer with and obtain, written authorization from the CPM.

   b. If the CONTRACTOR requires access to operational areas not delineated on the Construction Safety Plan Drawing(s), the CONTRACTOR shall participate in negotiations leading to the imposition of restrictions on airport operations in the affected areas, he shall strictly abide by all conditions imposed by BCAD relating to his entry and use of such area and he shall not enter these areas until granted temporary, conditional entry clearance BCAD – Operations.

   c. Trenching, excavation and other work requiring temporary runway or taxiway closure shall be limited by the CONTRACTOR to that amount of work that can be completed within the hours of minimal operation. All ditches, excavations, etc. shall be restored prior to the end of the Work period and affected pavements returned to service. This Work shall be scheduled during hours of minimal operations. Hours of minimal operation shall be the hours between 10:00 p.m. and 6:00 a.m. All other hours shall be hours of normal operation.

   d. The CONTRACTOR may be required to pursue affected portions of the Work on a continuous 24-hour per day basis during construction of the various phases and subphases shown on the Drawings and described in the Contract Documents (such as when runways or taxiways, aprons, service or other access roadways, service gates are closed for operations or when hazards of any kind arise).

   e. The CPM will arrange with BCAD Operations for inspection prior to opening for aircraft use any taxiway that has been used for a crossing point or haul route by the CONTRACTOR.

4. Operations Safety Inspection:

   a. The entire Work Site shall be inspected daily and more frequently if construction activities are of a nature that debris may accumulate on AOA pavements. Special inspections shall be conducted for each
Work Area prior to return to service for aircraft operation. The purpose of these inspections is to ascertain that areas returned to aircraft service are in satisfactory condition and that the overall Work Site and its activities are within the safety criteria set forth in these Contract Documents. Inspections shall be conducted jointly by representatives of the CONTRACTOR, BCAD-Operations, the CPM and the airlines.

b. Any violations of safety criteria found during these inspections shall be rectified immediately. If a violation cannot be corrected on an immediate basis by the CONTRACTOR, he shall immediately notify the CPM. No areas shall be approved for operations with violations occurring unless specifically authorized by BCAD-Operations, the CPM and the designated airline representative.

G. Open flame torch cutting or welding is prohibited unless adequate safety precautions have been taken and approved by the CPM. Use of explosively operated fastening devices within the confines of the Airport is strictly prohibited.

H. The CONTRACTOR shall preserve and/or protect existing and new pavements plus other facilities from damage due to construction operations. Existing pavements and facilities that are damaged shall be replaced or reconstructed to original strength at the CONTRACTOR’s expense. The CONTRACTOR shall take immediate action to reconstruct any damaged area that is to remain in service. Unless indicated on the Drawings, existing pavements shall not be cut for the installation of any utilities. Jack and bore method shall be required.

I. CONSTRUCTION AREA LIMITS:

1. FAA Advisory Circular 150/5370-2F, (or current version) Appendix 1, prohibits construction activity within 125-feet of an active runway (open for aircraft use) edge or within the Obstacle Free Zone 150/5370-2F further restricts construction activity within 83.5-feet of the edge of the taxiway (48.5-feet of the shoulder edge) when the aircraft using the taxiway includes aircraft such as the B-747. The activity limits shall be adequately signed and marked by the CONTRACTOR to preclude violation of this restriction. The area shall be well identified by warning signs and lights at night. The CONTRACTOR shall install lighting, marking, barricades, signs and other measures to delineate closed and hazardous area during construction. The guidance and procedures provided by FAA Advisory Circular AC 150/5340-1E, “Marking of Paved Areas on Airports”, shall be utilized as depicted on the Drawings. Barricades shall be weighted or otherwise secured to sufficiently prevent displacement by aircraft engine and propeller blast and ambient winds. Steady burning red obstruction lights may be required in certain instances to supplement lighted barricades or highlight hazardous or potentially dangerous objects. The location of these lights will be as depicted on the Drawings or requested in the field by the CPM. Obstruction lights and barricades shall not be located within runway, taxiway or taxi lane obstacle clearance areas.
2. The limits of construction, material storage area, plant site, equipment storage area, parking area and other areas defined as required for the CONTRACTOR's exclusive use during construction shall be marked by the CONTRACTOR. The CONTRACTOR may erect and maintain around the perimeter of these areas suitable marking and warning devices visible for day/night use. Temporary fencing, barricades, flagging and/or flashing warning lights will be required at critical access points. Type of marking and warning devices shall be approved by CPM. Open trenches, excavations and stockpiled materials shall be permanently marked with flags and lighted by approved light units during hours of reduced visibility and darkness. No separate pay item is included for this Work and all costs must be included in the Lump Sum Bid.

J. As designated on the Drawings, the CONTRACTOR shall erect and maintain throughout the life of the Contract. The CONTRACTOR shall also install vehicle and pedestrian gates as necessary to provide adequate ingress/egress. The CONTRACTOR shall be solely responsible for access control through any access gate leading to the AOA. This access control will be for all personnel using the gate for access to the AOA. The CONTRACTOR is solely responsible for all security within the Construction Area from the date of the Notice to Proceed until the date of Final Completion. Equipment not in use during construction, nights and/or holidays shall be parked here. The CONTRACTOR shall at all times conduct all operations under the Contract in a manner to avoid or minimize the risk of loss, theft or damage by vandalism, sabotage or the means to any property. The CONTRACTOR shall promptly take all reasonable precautions, which are necessary and adequate to correct all conditions, which threaten a risk of loss, theft or damage to property.

K. During construction, the CONTRACTOR shall maintain these areas in neat condition. CONTRACTOR's vehicles, equipment and materials shall be stored in the areas designated on the Drawings. Upon completion of the Work, the staging and storing areas shall be cleaned-up and returned to their original condition to the satisfaction of the CPM. Remove all construction fencing and barricades from the Project Site. No special payment will be made for clean-up and restoration of the storage area. Personal vehicles shall not be permitted beyond the CONTRACTOR's Construction Area. Drivers of personal vehicles being operated beyond this CONTRACTOR's Construction Area shall be subject to loss of permission to enter the construction site.

L. INTERMITTENT CONSTRUCTION OPERATIONS:

1. Heavy construction will require closing of certain areas by the CPM. However, some Work may be done on an intermittent basis. The CONTRACTOR shall maintain constant communication with the CPM when working and immediately obey all instructions from the CPM. Failure to so obey instructions or maintain constant communication with the CPM will cause to suspend the CONTRACTOR's operations in the areas until satisfactory conditions are assured.

2. When directed to cease Work and move from the area, the CONTRACTOR shall immediately respond and move all material,
equipment and personnel outside areas. Operations shall not be resumed until directed by the CPM. Every reasonable effort will be made by the CPM or the CONSULTANT to cause minimum disturbance to the CONTRACTOR’s operations. However, no guarantee can be made as to the extent to which disturbance can be avoided. CONTRACTOR’s claim for additional Contract Time for any such disruption shall not be accepted.

3. Open trenches or excavations exceeding 3-inches in depth and 3-inches in width shall not be permitted within 250 feet of the centerline of an active runway or within 100 feet of the centerline of active taxiways and taxi lanes unless otherwise shown on the Drawings. If an area is to be opened to aircraft movement, either at night or during the day, the CONTRACTOR shall decrease the drop off to 3-inches by placing five percent (5%) maximum slope to existing grade. There is no separate payment for this temporary construction.

M. LIMITATION OF OPERATIONS:

1. When the Work requires the CONTRACTOR to operate on or adjacent to the public area of the Terminal Building the operation shall be coordinated with BCAD through the CPM at least 48 hours prior to commencement of the Work. At no time shall the CONTRACTOR close a Public Area until authorization to do so has been granted by the CPM.

2. When the Contract Work requires the CONTRACTOR to operate on or adjacent to the apron or taxiway AOA, the operation shall be coordinated with BCAD Operations through the CPM, at least 48-hours prior to commencement of the Work. At no time shall the CONTRACTOR close an AOA until authorization to do so has been granted by the CPM and until temporary marking and associated lighting is provided and in place as specified in FAA Advisory Circular 150/5340-1E, “Marking of Pave Area on Airports” and/or the Drawings and Specifications.

3. The CONTRACTOR shall be responsible for controlling his operations and those of his subcontractors so as to provide for the free and unobstructed movement of all passengers and private vehicles in the Airport.

4. The CONTRACTOR shall be responsible for controlling his operations and those of his subcontractors so as to provide for the free and unobstructed movement of aircraft in the apron and taxiway areas of the AOA.

5. When the Contract Work requires the CONTRACTOR to work with an AOA of the Airport on an intermittent basis (intermittent opening and closing of the AOA, the CONTRACTOR shall maintain constant communication; immediately obey all instructions to resume Work in such AOA. Failure to maintain the specified communications or to obey instructions shall be cause for suspension of the CONTRACTOR’s operations in the AOA until the satisfactory conditions are provided.
N. OBSTRUCTIONS TO NAVIGATION:

1. Penetrations of the imaginary surfaces defined in FAR Part 77 shall not be permitted without advance notification of and approval by BCAD-Operations and the FAA Tower Chief. It may be necessary to file Form 7460-1 with the FAA to obtain approval prior to operation of exceptionally tall equipment. This includes any penetrations whatsoever by the CONTRACTOR, including, but not limited to, vehicles, cranes, other construction equipment, structures, stockpiled materials, excavated earth, etc.

2. When penetrations are unavoidable they shall be brought to the attention of BCAD-Operations, the CPM and the FAA as far in advance as is practical to allow Notices to Airmen (NOTAMS) to be prepared and distributed to appropriate FAA divisions for publication and dissemination.

3. Appropriate sketches shall be prepared by the CONTRACTOR with precise locations shown on the Airport Layout Plan along with elevations depicting the obstruction object’s relationship to the imaginary surfaces.

4. Cranes, draglines, derricks, or other unusually tall equipment operating on the airport shall be in direct radio communication with the control tower. To effect this communication, the CONTRACTOR shall provide two-way radios capable of communication on ground control frequency. Operators of such construction equipment shall be qualified and knowledgeable in the use of radio equipment and capable of following instructions in a timely fashion.

5. The maximum height allowed on the airport is 35 feet above ground level unless, in special instances, this requirement is waived by BCAD-Operations and the FAA. During times when the safety of the flight operations could be impaired, particularly during IFR weather, or when the equipment is idle, all booms, towers and other moveable appendages shall be lowered to the maximum extent.

O. EMERGENCY PROCEDURES:

1. The CONTRACTOR shall familiarize himself with Airport emergency procedures and shall endeavor to conduct his operations so as not to conflict with them. Clear routes for crash/fire/rescue equipment shall be maintained in operable condition at all times.

2. Emergency Procedure: In case of an emergency caused by accident, fire, or personal injury or illness, Airport Police are to be immediately notified by Page Phone found throughout the Terminal buildings or by calling them at 911 or Airport Police Emergency Phone No. 954-359-1244. The caller must accurately report the location and type of emergency. Airport Police will then coordinate with the CPM and the COUNTY and/or outside emergency agencies as necessary.
P. ACCESS TO THE CONSTRUCTION SITE

1. The CONTRACTOR’s access to the site shall be as shown on the Drawings. The access route is also used by airport employees. No other access routes shall be allowed unless approved by the CPM. The vertical clearance in the existing parking garage is 6'-8". No vehicle taller than 6'-8" shall be allowed to operate in the existing parking garage structure. All CONTRACTOR traffic authorized to enter the site shall be experienced in the route or guided by the CONTRACTOR’s personnel. The CONTRACTOR shall be responsible for traffic control to and from the various construction areas on the site.

2. The CONTRACTOR shall familiarize his employees with the route. Materials and equipment delivery trucks shall be accompanied by an employee of the CONTRACTOR familiar with the route. The CONTRACTOR shall be responsible for access control for the duration of his Contract. This access control will be for all personnel.

3. The CONTRACTOR shall monitor and coordinate all CONTRACTOR traffic with the BCAD’s security. The CONTRACTOR shall not permit any unauthorized construction personnel or traffic on the site, including food and beverage vendors or caterers.

4. The CONTRACTOR shall provide and operate an escort vehicle to lead other vehicles when operating within the site.

5. The CONTRACTOR is responsible for immediate clean-up of any debris deposited along the access route as a result of his construction traffic. The entire access route and construction site shall be kept free and clean of all debris at all times and maintained in good repair by the CONTRACTOR or his gents, and shall be immediately repaired to the satisfaction of the COUNTY. Directional signing along the delivery route to the storage area or Work site shall be as directed by the CPM.

Q. LOAD RESTRICTION:

1. The CONTRACTOR shall comply with all legal load restrictions in the hauling of materials on public roads beyond the limits of Work. A special permit will not relieve the CONTRACTOR of liability for damage that may result from the moving of material or equipment.

2. The operation of equipment of such weight or so loaded as to cause damage to structures or to any other type of construction shall not be permitted. Hauling of materials over the base course or surface course under construction shall be limited as directed. No loads shall be permitted on a concrete pavement base, or structure before the curing period. The CONTRACTOR shall be responsible for all damage done by his hauling equipment and shall correct such damage at his own expense.

3. It is especially noted that the existing airport pavements may not be
capable of supporting certain types of construction equipment. Prior to bidding, the CONTRACTOR shall fully satisfy himself as to the ability of the existing airport pavements to satisfactorily sustain the type of equipment he plans to use. Should damage occur as a result of negligent construction operations, the CONTRACTOR shall repair the damaged areas to an acceptable condition at his expense.

R. CONTRACTOR'S SECURITY REQUIREMENTS:

1. General Intent: It is intended that the CONTRACTOR shall comply with all requirements of the airport security plan and with the security plan specified here within. The CONTRACTOR shall designate, to the CPM, in writing, the name of his CONTRACTOR Security Officer (CSO). The CSO shall be the CONTRACTOR's representative on the "Construction Security Committee" and shall be accountable for these security requirements for the CONTRACTOR.

2. CONTRACTOR Safety Personnel orientation: The CONTRACTOR's Safety Officer (CSO) will be responsible for all safety precautions. Prior to the commencement of the Work, the CSO shall provide the CPM an outline of a proposed accident and fire protection plan for all Work contemplated under the Contract and conduct safety meetings as directed by the CPM for each shift and require the attendance of all supervisors at such meetings. Copies of the minutes of the safety meetings shall be kept on file in the CONTRACTOR's Office.

3. Identification – Vehicles: The CONTRACTOR, through the Contract Security Officer, shall establish and maintain a list of CONTRACTOR and Subcontractor vehicles authorized to operate on the site and shall issue a permit to each vehicle to be made available upon demand by the CPM or any Airport Security Officer. Vehicle permits shall be assigned in a manner to assure positive identification of the vehicle at all times. In lieu of issuing individual vehicle permits, the CSO can require each vehicle to display a large company sign on both sides of the vehicle and advise the COUNTY through the CPM of a current list of companies authorized to enter and conduct Work on the Airport.

4. EMPLOYEE PARKING:

a. Area for parking of the CONTRACTOR's employee's vehicles is in the CONTRACTOR's Construction Area as provided by the CPM. Parking shall be accomplished in straight equally spaced rows. CONTRACTOR shall organize traffic flow and parking patterns, supply traffic control signs and markings, subject to the approval of the CPM. The CONTRACTOR shall maintain the parking surface and pick up trash daily. No storage will be allowed on the parking site. The CONTRACTOR shall restore the shape and grade of this parking area upon the job completion, see and mulch portions where existing ground cover is damaged and perform all Work required to restore the area to its original condition.

b. All vehicles that are parked in the CONTRACTOR’s Construction...
Area shall have an identification sticker as directed by the CPM. Stickers shall be supplied by the CONTRACTOR and state the project number and CONTRACTOR's name. Vehicles shall be parked so that identification stickers are visible from the parking lot driving lanes at all times. The CONTRACTOR shall provide transportation for his employees from the parking area to the Work site using company owned vehicles.

c. When the CONTRACTOR's employees parking area is adjacent to another CONTRACTOR's parking area performing other construction for the COUNTY, cooperation between CONTRACTORs is required to avoid any interferences in the performance of each other's respective construction. Any difficulties experienced shall be brought to the attention of the CPM immediately.

5. Materials Delivery to the Site: All CONTRACTOR's material orders for delivery to the Work site will use as a delivery address, the street name and number assigned to the access point onto the airport.

6. Breach of Security Fine: A $500 per occurrence fine shall be leveled against the CONTRACTOR if the CONTRACTOR violates the requirements of the airport security plan or the Security requirement specified herein. Notwithstanding the foregoing, repeated and/or flagrant violations of the security plan shall be grounds for suspension of the Work at no cost to the COUNTY or termination of the Contract.

Hot Work Permit follows.
HOT WORK PERMIT

Hot Work Permit for ___________________________ (Name of Project)

Date ______________ Time ______________

Area ______________ Dept ______________

Location of work ________________________________________________

Work to be done ________________________________________________

Special precautions ______________________________________________

Is fire watch required? ____________________________________________
If yes, Person responsible for fire watch ____________________________

Person responsible for welding ____________________________________

This location will be examined, and the necessary precautions taken.
(By supervisor of Company performing the welding)

Time started ______________ Time Completed ______________

Fire checks must be performed and signed AFTER HOT WORK IS COMPLETED.
30 minute By ____________________________

(Permit Holder)

1-2 hour By ____________________________

(Permit Holder/Designee)

INITIAL CHECK TO BE FILLED OUT PRIOR TO START OF JOB

☐ Equipment to be used in good repair
☐ Area (3 meters) clear of combustibles and flammables
☐ Fire extinguisher(s)
☐ Water hose
☐ Not within 8 meters of explosives
☐ Not within a smoking area
☐ Area to be wetted down
☐ All wall and floor openings covered
☐ Equipment cleaned of all combustibles and flammables
☐ Containers purged of flammable vapors
☐ Combustibles and flammable liquids protected with covers, guards, or metal shields
☐ Area secured/guarded

No work is to be performed without checklist being completed and complied with

Completed by ____________________________

(Permit Holder)

Time ______________ Date ____________________________

Permission is granted for this work after the INITIAL CHECK is completed and signed by the Permit Holder, CPM, and the CMR.

Program Manager ____________________________

Time ______________ Date ____________________________

Managing General CONTRACTOR ____________________________

Time ______________ Date ____________________________

* All costs incurred as a result of the issuance of the Hot Work Permit shall be borne by the permit holder.
* This form must be submitted 24 hours prior to commencement of the work.
Sunshine State One-Call of Florida, Inc.
Internet Ticket Entry (ITE) Application

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<th>Field</th>
<th>Information</th>
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<td>Applicant Name:</td>
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<td>Have you ever called tickets into the call center?</td>
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<td>If yes, what is the approximate average number of tickets that you call in per week?</td>
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<td>Have you ever used the Fax-A-Locate Program?</td>
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<td>If yes, what is the approximate average number of tickets that you fax in per week?</td>
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By signing below, I agree that, as an approved ITE user, I have received and will comply with the current ITE policies and procedures as revised 7/02, and will indemnify Sunshine State One Call for any damages caused by erroneous information or incorrect grids provided on ITE tickets.

<table>
<thead>
<tr>
<th>Signature</th>
<th>Title</th>
<th>Date</th>
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Return completed application to:
Sunshine State One Call of Florida • 1 Plantation Road • DeBary, FL 32713
Voice: (386) 575-2000 FAX: (800) 651-8601

SSCOOF USE ONLY BELOW THIS LINE

Date application was received: Application ID:
Voice Tickets Reviewed: Fax-A-Locate Tickets Reviewed:
Approved: Date:
User login ID: Password:
Initial training scheduled for: Initial training completed:
(by)    (by)    (date)    (date)
Approved for submitting completed tickets: Date System Changed:
(by)    (date)    (date)

Revised 4/05
PART 2 - PRODUCTS - Not Used
PART 3 - EXECUTION - Not Used

END OF SECTION 01540- CONSTRUCTION SAFETY PLAN AND SECURITY REQUIREMENTS

SECTION 01545 UTILITIES

PART 1 - GENERAL

1.01 REQUIREMENTS INCLUDED

A. Existing facilities, utilities, and features depicted on the Drawings are not guaranteed to be accurate with respect to location, condition, and characteristics. Also, there may be additional facilities, utilities, and features existing that could affect the Work, which are not depicted or described in the Contract Documents.

B. Prior to Bidding, the CONTRACTOR shall make a thorough investigation of the Project area to satisfy himself as to the location, condition, and characteristics of any and all facilities, utilities, and features which may affect his Work.

C. The CONTRACTOR hereby agrees to make no claims against the COUNTY, CPM or the CONSULTANT and/or their representatives relating to the existence or lack of, location, condition, and/or characteristics of any existing facilities, utilities, or features that is shown on the construction plans provided.

D. The CONTRACTOR shall not install any restrictive device, including but not limited to mud plugs, in any storm drain line or structure without written approval from the CPM. A CPM Representative must be present during the installation and removal of any restrictive device. Damage caused by flooding as the result of a restrictive device shall be repaired and/or replaced by the CONTRACTOR to satisfactory conditions acceptable to the CPM at no additional cost to the COUNTY.

1.02 PROTECTION OF EXISTING UTILITIES

A. The term "utilities" includes FAA power and control cables, FP&L Power Lines, Telephone cables, lines and fiber optics, Sheriff's Department Lines, airline communication cables, airfield lighting cables, COUNTY underground electrical, revenue control, communications lines, cables, and fiber optics, water lines, drainage lines, irrigation lines, HVAC equipment, sanitary force main, sanitary lines, and fuel and gas lines and any other supportive utility facility. These utilities may be located in the areas of demolition and construction. Disruption of these utilities could seriously disrupt operation of the Airport. Although the Drawings tend to located cables and utilities, actual locations are uncertain. The CONTRACTOR is required to verify all locations, in accordance with Florida Statute 556.101-111, "Underground Facility Damage Prevention and Safety Act". The CONTRACTOR shall call Sunshine State One-Call of Florida, Inc. at 1-800-432-4770 and the CPM prior to any and all digging operations.
B. Any intentional interruption of existing utilities for the purpose of carrying out the Work shall be carried out in a manner to minimize the length of scope of the interruption. Before any such interruption, the CONTRACTOR shall give a minimum of 48 hours written notice to the CPM.

C. The COUNTY reserves the right to authorize the construction, reconstruction, or maintenance of any public or private utility service at any time during the progress of the Work.

D. Except as listed in the Contract Documents, the CONTRACTOR shall not permit any individual, firm, or corporation to excavate or otherwise disturb such utility services or FAA facilities located within the limits of the Work without the written permission of the CPM.

E. Should the COUNTY, public or private utility service, FAA, or NOAA facilities or a utility service of another government agency be authorized to construct, reconstruct, or maintain such utility service during the progress of the Work, the CONTRACTOR shall cooperate with such utility service facility by arranging and performing the Work in this Contract so as to facilitate such work by others. In addition, the CONTRACTOR shall control his operations to prevent the unscheduled interruption of such utility services, FAA facility and other facilities. It is understood and agreed that the CONTRACTOR shall not be entitled to make any claim due to such authorized construction by others or for any delay to the Work resulting from such authorized construction, The CONTRACTOR shall coordinate all Work with all utility services, FAA facility, or other facility.

F. To the extent that such public or private utility services, FAA or NOAA facilities, or utility services of another governmental agency are known to exist within the limits of the Contract Work, the approximate locations have been indicated on the Drawings.

G. It is understood and agreed that the COUNTY does not guarantee the accuracy or the completeness of the location information relating to existing utility services, FAA facilities or structures that may be shown on the Drawings or encountered in the Work. Any inaccuracy or omission in such information will not relieve the CONTRACTOR of his responsibility to protect such existing features indicated to remain, from damage or unscheduled interruption of service.

H. Failure of the CONTRACTOR to properly coordinate in advance, Work and/or repairs on or near existing utilities, shall be cause for the CPM to suspend the CONTRACTOR's operations in the vicinity of such utilities.

I. If damage occurs to any utilities as a result of negligence by the CONTRACTOR or SUBCONTRACTOR, the CONTRACTOR will be assessed a fee of $2,000 liquidated damages per cut per cable, line or strand. The liquidated damages assessed will only represent the expense incurred by the COUNTY in coordinating the repair, and will not prevent the COUNTY or others from recovering from the CONTRACTOR other costs, damages, or expenses of any other nature incurred on account of damages to utilities.
J. Should the CONTRACTOR damage or interrupt the operation of a utility service or FAA facility by accident or otherwise, he shall immediately notify the proper utility service or FAA facility and the CPM and shall take all reasonable measures to prevent further damage or interruption of service. The CONTRACTOR, in such events, shall cooperate with the utility service or FAA facility and the CPM continuously until such damage has been repaired and service restored to the satisfaction of the utility service or FAA facility.

K. The CONTRACTOR shall immediately repair, at his own expense, with identical material by skilled workmen, all utilities, FAA cables and other facilities, which are damaged by his workmen, equipment, or Work. Prior approval of the appropriate utility service and/or FAA facility shall be obtained from the CPM for the materials, workmen, time of day or night, method of repairs, and any temporary or permanent repairs the CONTRACTOR may propose to any FAA cables or utility service damaged by the CONTRACTOR during the course of the Work.

L. The Airport's publicly owned facilities and privately owned facilities located on Airport property, including underground cables, pavements, piping, buildings, turfed areas, vehicles, and other facilities and improvements, that are damaged by the CONTRACTOR, shall, at the election of the CPM, be replaced or repaired by the CONTRACTOR to the satisfaction of the CPM at the CONTRACTOR's expense. If said repairs do not commence within five calendar days of written notice by the CPM, the COUNTY may proceed with the repair work and charge the CONTRACTOR for all costs or withhold payment to CONTRACTOR for said repairs. Approval of the repair vests with the entity with jurisdiction over the facility.
1.03 ECOLOGICAL REQUIREMENTS

A. Take sufficient precautions to prevent pollution of streams, canals, lakes, reservoirs and other water impoundments with fuels, oils, bitumens, calcium chloride or other harmful materials. Also, conduct and schedule operations so as to avoid interference with movement of migratory fish. No residue from dust collectors or washers shall be dumped into any live stream.

B. Construction operations in rivers, streams, lakes, tidal waters, reservoirs, canals and other water impoundments shall be restricted to those areas where it is necessary to perform filling or excavation to accomplish the Work shown in the plans and to those areas which must be entered to construct temporary or permanent structures. As soon as conditions permit, rivers, streams, and impoundments shall be properly cleared of all obstructions placed therein or caused by construction operations.

C. Except as necessary for construction, and approved by the CPM, excavated material shall not be deposited in rivers, streams, canals or impoundments, or in a position close enough thereto to be washed away by high water or runoff.

D. Do not disturb lands or waters outside the limits of construction except as may be found necessary and authorized by the CPM.

1.04 SCHEDULING/COORDINATION

A. Clearing and grubbing shall be scheduled and performed that grading operations can follow immediately thereafter; grading operations shall be so scheduled and performed that permanent erosion control features can follow immediately thereafter if conditions on the project permit.

B. Schedule operations such that the area of unprotected erodible earth exposed at any one time is not larger than the minimum area necessary for efficient construction operations; and the duration of exposed, uncompleted construction to the elements shall be as short as practicable.

1.06 PROTECTION OF STORM DRAINS

A. Storm drain facilities, both open and closed conduit, serving the construction area shall be protected from pollutants and contaminants.

B. If the CPM determines that siltation of drainage facilities has resulted due to the project, the CPM will advise the CONTRACTOR to remove and properly dispose of the deposited materials without an increase to the Contract.
C. Should the CONTRACTOR fail to or elect not to remove the deposits, the COUNTY will provide maintenance cleaning as necessary and charge all costs of such service against the amount of money due or to become due the CONTRACTOR.

1.07 PREVENTION, CONTROL AND ABATEMENT REQUIREMENTS

A. Provide, install, construct and maintain all coverings, mulching, sodding, sandbagging, berms, slope drains, hay and straw bales, sedimentation structures or other devices necessary to meet City, State and Federal regulatory agency codes, rules and laws, and as indicated on the Drawings.

B. The locations and methods of operation in all detention areas, borrow pits, material supply pits and disposal areas furnished by the CONTRACTOR shall meet the approval of the CPM as being such that erosion during and after completion of the Work will not likely result in detrimental siltation of water pollution.

C. The CPM may limit the surface areas of unprotected erodible earth exposed by clearing and grubbing, excavation or filling operations and may direct the CONTRACTOR to provide immediate erosion or pollution control measures to prevent siltation or contamination of any river, stream, lake, tidal waters, reservoir, canal or other impoundment or to prevent damage to the Project or property outside the project right of way.

PART 2 – PRODUCTS - Not Used
PART 3 - EXECUTION - Not Used

END OF SECTION 01560 - PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION

SECTION 01561 – CONSTRUCTION CLEANING

PART 1 - GENERAL

1.01 REQUIREMENTS INCLUDED

A. CONTRACTOR shall enforce daily cleaning during progress of Work and enforce final cleanup prior to Substantial Completion.

B. Hazards Control:
   1. Store volatile wastes in covered metal containers.
   2. Remove containers from premises daily.
   3. Prevent accumulation of wastes that create hazardous conditions.
   4. Provide adequate ventilation during use of volatile or noxious substances.

C. Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws:
1. Do not burn or bury rubbish or waste materials on Project Site.
2. Do not dispose of volatile wastes, such as mineral spirits, oil, or paint thinner in storm or sanitary drains.
3. Transport waste materials and debris across airport property in covered trucks.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Use cleaning materials recommended by manufacturer or surface to be cleaned which will not create hazards to health or property and which will not damage surfaces.

B. See Technical Specifications for specific products.

PART 3 - EXECUTION

3.01 CLEANING DURING CONSTRUCTION

A. Enforce cleaning to keep building, grounds, and public properties free of accumulation of waste materials, rubbish, and windblown debris resulting from construction operations.

B. Have protective covering applied on newly installed Work where reasonable required to ensure freedom from damage or deterioration at time of Substantial Completion. Enforce cleaning and maintenance on other newly installed Work as frequently as necessary through remainder of construction period.

C. Have operable components adjusted and lubricated to ensure operability without damaging effects.

D. Furnish on-site containers for collection of waste materials, debris, and rubbish.

E. Remove waste material, debris, and rubbish from Site daily.

F. Do not drop or throw materials from heights.

G. Continue enforcing cleaning daily until site is ready for occupancy.

3.02 DUST CONTROL

A. Wet down materials and rubbish or use other methods to prevent blowing dust on a regular basis as required by the CPM.

B. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly painted surfaces.

3.03 FINAL CLEANING

A. Provide final cleaning of the Work at time indicated, consisting of cleaning each surface or unit of Work to "clean" condition. Comply with manufacturer's
instructions for cleaning operations. The following are examples, but not by way of limitation, of cleaning levels required:

1. Remove labels which are not required as permanent labels.
2. Clean exposed exterior hard-surfaced finishes, to dirt-free condition, free of dust, stains, films, and similar noticeable distracting substances.
3. Restore effective surface to original reflective condition.
4. Remove debris and surface dust from limited access spaces including roofs, plenums, shafts, trenches, equipment vaults, manholes, and similar spaces.
6. Clean light fixtures and lamps to function with full efficiency.
7. Clean Project Site, including landscape development areas, of litter and foreign substances.
8. Sweep paved areas to broom-clean condition: remove stains, petrochemical spills, and other foreign deposits.
9. Rake grounds that are neither planted nor paved, to smooth, even-textured surface.

B. Remove waste materials from Site daily and dispose of in a lawful manner.

C. Removal of protection:

Remove temporary protection devices and facilities that were installed during course of the Work to protect previous completed Work during remainder of construction period.

END OF SECTION 01561 - CONSTRUCTION CLEANING

SECTION 01600 - MATERIALS AND EQUIPMENT

PART 1 - GENERAL

1.01 PRODUCTS

A. Products: Means new material, machinery, components, equipment, fixtures, and systems forming the Work. It does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components required for reuse.

B. Provide interchangeable components of the same manufacturer, for similar components.
C. Only approved material will be accepted. Nonconforming materials shall be replaced without an increase to the contract.

1.02 TRANSPORTATION AND HANDLING

A. Transport and handle Products in accordance with manufacturer’s instructions.

B. Promptly inspect shipments to assure that Products comply with requirements, quantities are correct, and Products are undamaged.

C. Provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage.

1.03 STORAGE AND PROTECTION

A. Store and protect Products in accordance with manufacturer’s instructions, with seals and labels intact and legible. Store sensitive Products in weather-tight, climate controlled enclosures.

B. For exterior storage of fabricated Products, place on sloped supports, above ground.

C. Provide off-site storage and protection when site does not permit on-site storage or protection.

D. Cover Products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation.

E. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

F. Provide equipment and personnel to store Products by methods to prevent soiling, disfigurement, or damage.

G. Arrange storage of Products to permit access for inspection. Periodically inspect to assure Products are undamaged and are maintained under specified conditions.

1.04 SUBSTITUTION AND PRODUCT OPTIONS

In accordance with the provisions of Section 01630.

PART 2 – PRODUCTS - Not Used.
PART 3 – EXECUTION - Not Used.

END OF SECTION 01600 - MATERIAL AND EQUIPMENT

SECTION 01630 - SUBSTITUTIONS AND PRODUCT OPTIONS
PART 1 - GENERAL

1.01 OPTIONS

A. Products Specified by Reference Standards, or by Description Only: Any product meeting those standards.

B. Products Specified by Naming One or more Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not specifically named.

C. Products Specified by Naming Several Manufacturers: Products of named manufacturers meeting specifications; no options, no substitutions.

D. Products specified by Standard of Comparison: Products of named manufacturer; submit a request for substitution for any manufacturers not specifically named meeting specifications.

1.02 PRODUCTS LIST

A. Within fourteen (14) calendar days after each subcontract agreement is signed, submit three (3) copies of a list of major products not specifically identified in the Contract Documents, which are proposed for use, including name of manufacturer, trade name, and model number of each product.

B. Tabulate products by Specifications section number, title, and Article number.

C. For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

D. CPM or CONSULTANT will reply in writing within 15 days stating whether there is reasonable objection to listed items. Failure to object to a listed item shall not constitute a waiver of requirements of Contract Documents.

1.03 LIMITATIONS ON SUBSTITUTIONS

A. Requests for substitutions of products will be considered within four (4) weeks after date of contract award. Subsequent requests will only be considered upon submittal of substantiated evidence of product unavailability, or that there is some unreasonable difficulty in obtaining it.

B. Substitutions will not be considered when indicated on shop drawings or product data submittals without separate formal request, when requested directly by subcontractor or supplier, or when acceptance will require substantial revision of Contract Documents.

C. Substitute products shall not be ordered or installed without written acceptance by the Consultant.
D. Only one (1) request for substitution for each product will be considered. When substitution is not accepted, provide specified product.

E. Substitution requests will be approved by the CPM and CONSULTANT.

1.04 REQUESTS FOR SUBSTITUTIONS

A. Submit separate request for each substitution. Document each request with complete data substantiating compliance of proposed substitution with requirements of Contract Documents.

B. Identify product by Specifications section and Article numbers. Provide manufacturer's name and address, trade name of product, and model or catalog number. List fabricators and suppliers as appropriate.

C. Attach product data as specified in Section 01340.

D. List similar projects using product, dates of installation, and names of CPM and CONSULTANT.

E. Give itemized comparison of proposed substitution with specified product, listing variations, and reference to Specifications section and Article numbers.

F. Give cost data comparing proposed substitution with specified product, and amount of net change to Contract Sum.

G. List availability of maintenance services and replacement materials.

H. State effects of substitution on construction schedule, and changes required in other work or products.

1.05 CONTRACTOR REPRESENTATION

A. Request for substitution constitutes a representation that the CONTRACTOR has investigated proposed product and has determined that it is equal to or superior in all respects to specified product.

B. CONTRACTOR will provide the same warranty for substitution as for specified product.

C. CONTRACTOR will coordinate installation of accepted substitute, making such changes as may be required for Work to be complete in all respects.

D. CONTRACTOR certifies that cost data presented is complete and includes all related costs under this Contract.

E. CONTRACTOR waives claims for additional costs related to substitution, which may later become apparent.

1.06 SUBMITTAL PROCEDURES

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A. Submit three (3) copies of request for substitution.

B. CPM and CONSULTANT will review CONTRACTOR's requests for substitutions with reasonable promptness.

C. For accepted products, submit shop drawings, product data, and samples under provisions of Section 01340.

PART 2 – PRODUCTS - Not Used.
PART 3 – EXECUTION - Not Used.

GENERAL CONTRACTOR’S SUBSTITUTION REQUEST FORM

To: ___________________ (CPM) Corporation

Project: __________________________________________________________

We hereby submit for your consideration the following product instead of the specified item for the above project:

Section:__________ Paragraph:_______ Specified Item:_________________

Proposed Substitution:______________________________________________

Attach complete technical data, including laboratory tests, if applicable. Include complete information on changes to Drawings and/or Specifications, which proposed substitution will require for its proper installation.

Fill in Blanks Below:

A. Does the substitution affect dimensions shown on Drawings:

B. Will the undersigned pay for changes to the building design, including engineering and detailing costs caused by the requested substitution:

C. What affect does substitution have on other trades:

D. Differences between proposed substitution and specified item:

E. Manufacturer’s guarantees of the proposed and specified items are

   [___] Same   [___] Different (explain on attachment)

F. This substitution will amount in a credit to the CPM of:

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G. Reasons for substitution:

The undersigned states that the function, appearance and quality are equal to or superior than the specified item.

Submitted by: For Use By CPM or Consultant

[ ] Accepted    [ ] Accepted As Noted
Firm

[ ] Not Accepted  [ ] Received Too Late

By: ____________________________

Address

Date: ____________________________

Remarks:

Date: ____________________________

Telephone: ________________________

END OF SECTION 01630 - SUBSTITUTIONS AND PRODUCT OPTIONS

SECTION 01650 - STARTING AND TESTING OF SYSTEMS

PART 1 - GENERAL

1.01 STARTING SYSTEMS

A. Coordinate schedule for start-up of various equipment and systems.

B. Notify COUNTY and Commissioning Agent seven (7) days prior to start-up of each item.

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C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, or other conditions, which may cause damage.

D. Verify that tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.

E. Verify wiring and support components for equipment are complete and tested.

F. Execute start-up under supervision of responsible CONTRACTOR's personnel and CPM in accordance with manufacturers' instructions and commissioning plan.

G. When specified in individual specification sections, require manufacturer to provide an authorized representative to be present at site to inspect, check and approve equipment or system installation prior to start-up, and to supervise placing equipment or system in operation.

H. Submit to the CPM a written report that equipment or system has been properly installed, inspected, and is functioning correctly.

1.02 DEMONSTRATION AND INSTRUCTIONS

A. Demonstrate operation and maintenance of Products to CPM and COUNTY Maintenance 14 calendar days prior to the date of Substantial Completion.

B. Demonstrate Project equipment and provide instruction by a qualified representative who is knowledgeable about the Project.

C. For equipment or systems requiring seasonal operation, perform demonstration for other season within six (6) months.

D. Utilize operation and maintenance manuals as basis for instruction. Review contents of manual with Project Manager in detail to explain all aspects of operation and maintenance.

E. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at agreed-upon times, at equipment location.

1.03 TESTING, ADJUSTING, AND BALANCING

A. CONTRACTOR will appoint, employ, and pay for services of an independent firm to perform testing, adjusting and balancing.

B. The independent firm will perform services specified in Division1 and Technical Specifications.
C. Reports will be submitted by the independent firm to the CPM and CONSULTANT indicating observations and results of tests and indicating compliance or non-compliance with specified requirements and with the requirements and with the requirements of the Contract Documents.

PART 2 PRODUCTS - Not Used.
PART 3 EXECUTION - Not Used.

END OF SECTION 01650 - STARTING AND TESTING OF SYSTEMS

SECTION 01740 WARRANTIES

PART 1 - GENERAL

1.01 SUMMARY

A. This Section specifies general administrative and procedural requirements for warranties required by the Contract Documents, including manufacturer's standards and warranties on products and special warranties.

1. Refer to the General Conditions for terms of the CONTRACTOR's special warranty of workmanship and materials.

2. General closeout requirements are included in Section 01770 - PROJECT CLOSEOUT.

3. Specific requirements for warranties for the Work and products and installation that are specified to be warranted, are included in the individual Sections of the Technical Specifications.

4. Certifications and other commitments and agreements for continuing services to COUNTY are specified elsewhere in the Contract Documents.

B. DISCLAIMERS AND LIMITATIONS:

1. Manufacturer's disclaimers and limitations on product warranties do no relieve the CONTRACTOR of the warranty on the Work that incorporates the products, nor does it relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the CONTRACTOR.

1.02 DESCRIPTION OF REQUIREMENTS/DEFINITIONS

A. CATEGORIES OF SPECIFIC WARRANTIES:

1. It is recognized that warranties on the Work are in several categories, including those of the General Conditions of the Contract and including (but not necessarily limited to) the following specific categories related to

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the individual units of work specified in the Technical Specifications:

a. Special Warranty (Guarantee): A warranty specifically written and signed by the CONTRACTOR for a defined portion of the Work; and, where, required, countersigned by subcontractor, installer, manufacturer or other entity engaged by CONTRACTOR; generally recognized as (and sometimes specified in CONTRACTOR and vendor documents) a "guarantee".

b. Specified Product Warranty: A warranty which is required by Contract Documents, to be provided for a manufactured product which is incorporated into the Work; regardless of whether the manufacturer has published the warranty without consideration for specific incorporation of product into the Work, or has written and executed the warranty as a direct result of Contract Documents requirements.

c. Coincidental Product Warranty: A warranty which is not specifically required by Contract Documents (other than as specified in this Section); but which is available on a product incorporated into the Work, by virtue of the fact that manufacturer of product has published the warranty in connection with purchases and uses of product without regard for specific applications except as otherwise limited by terms of the warranty.

B. DEFINITION: MANUFACTURED PRODUCT

1. A physical item for incorporation into the Work, which has been produced from raw or natural materials by a manufacturing process, and which is purchased from a manufacturer either specifically for the Work or for CONTRACTOR's/Subcontractor's/Fabricator's/Installer's stock from which it is drawn for incorporation into the work.

C. GENERAL LIMITATIONS:

1. It is recognized that specific warranties are intended primarily to protect COUNTY against failure of Work to perform as required, and against deficient, defective and faulty materials and workmanship, regardless of sources. Except as otherwise indicated, specific warranties do not cover failures in Work which result from:

   a. Damage or defect caused by abuse,
   b. Modifications not executed by the CONTRACTOR,
   c. Improper or insufficient maintenance,
   d. Improper operations, or normal wear and tear under normal usage.

2. Although, manufacturer's commitments in product warranties on products
used in the Work are generally written to exclude product failures which result from failure of other work (such as failure of substrate supporting product), such limitations in product warranties do not relieve the CONTRACTOR of the more general warranties on Work which incorporates use of such products. Except as otherwise indicated, this same relationship applies to units of Work performed by other entities (other than manufacturers), such as fabricators, installers, and subcontractors who are required to countersign special project warranties with CONTRACTOR for such units of Work.

1.03 WARRANTY REQUIREMENTS

A. RELATED DAMAGES AND LOSSES:

When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted Work.

B. REINSTATEMENT OF WARRANTY:

When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty.

C. REPLACEMENT COST:

Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of Contract Documents. The CONTRACTOR is responsible for the cost of replacing or rebuilding defective Work regardless of whether the COUNTY has benefited from use of the work through a portion of its anticipated useful service life.

D. COUNTY’S REcourse:

1. Written warranties made to the COUNTY are in addition to implied warranties, and shall not limit the duties, obligations, right and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the COUNTY can enforce such other duties, obligations, rights, or remedies.

   a. Rejection of Warranties: The CPM reserves the right to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.

2. The CPM reserves the right to refuse to accept Work for the project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.
1.04 SUBMITTALS

A. Submit written warranties to the CPM prior to the date certified for Final Payment.

1. When a special warranty is required to be executed by the CONTRACTOR, or the CONTRACTOR and a subcontractor, supplier or manufacturer, prepare a written document that contains appropriate terms and identification, ready for execution by the required parties. Submit a draft to the COUNTY through the CPM for approval prior to final execution.
   a. Refer to individual sections of the technical specification section for specific content requirements for submittal of special warranties.

2. Submit specific warranties for beginning of the warranty periods. Date(s) will be inserted to correspond with certification or acceptance dates, as established by the CONSULTANT and accepted by the CPM.

B. Form of Submittal:

1. Compile two (2) copies of each required warranty properly executed by the CONTRACTOR, or by the subcontractor, supplier, or manufacturer. Organize the warranty documents into an orderly sequence based on the Table of Contents of the Project manual.

2. Bind warranties in heavy-duty, commercial quality, durable 3-ring vinyl covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2" by 11" paper.
   a. Provide heavy paper dividers with celluloid covered tabs for each separate warranty. Mark the tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product, and the name, address and telephone number of the installer.
   b. Identify each binder on the front and the spine with the typed or printed title "WARRANTIES AND BONDS", the Project title or name, and the name of the CONTRACTOR.

3. When operating and maintenance manuals are required for warranted construction, provide additional copies of each required warranty, as necessary, for inclusion in each required manual.

PART 2 - PRODUCTS - Not Used
PART 3 - EXECUTION - Not Used

END OF SECTION 01740 - WARRANTIES

SECTION 01770 – PROJECT CLOSEOUT

PART 1: GENERAL
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1.01 PRELIMINARY PROCEDURES

A. If the date required for Substantial Completion has passed or cannot otherwise be met by the CONTRACTOR, the CONTRACTOR shall submit:

1. A request for time extension if the required date of Substantial Completion stipulated by the Contract Documents (or as modified by a COUNTY approved Change Order allowing a change in Contract Time) has passed. CONTRACTOR must comply with the requirements in the Agreement for requesting time extensions.
2. Provide complete details and attach substantiating evidence concerning reasons for requested Time extension.
3. Format: Submit request for time extension with associated detail sheets, in accordance with the provisions in the Agreement.

B. Before requesting inspection for certification of Substantial Completion, complete the following:

1. All security systems, electrical systems and life safety systems must be completed, tested, approved and demonstrated.
2. Landscape irrigation systems, where applicable, must be completed, tested, approved and demonstrated.
3. Master and grand master keys must be delivered in sealed containers to the Contract Administrator. Keys must be labeled to identify where keys are used for the finished work.
4. In the Application for Payment that coincides with, or first follows, the date Substantial Completion is claimed, show 100 percent completion for the portion of the Work claimed as substantially complete. Include supporting documentation for completion as indicated in these Contract Documents and a statement showing an accounting of changes to the Contract Sum.
5. Advise BCAD Risk Manager and Contract Administrator, through the CPM, of pending insurance change-over requirements.
6. Prepare specific warranties, workmanship bonds, maintenance agreements, final certifications and similar documents for submittal to the CPM.
7. Obtain and submit releases enabling the Contract Administrator unrestricted use of the Work and access to services and utilities; include occupancy permits, operating certificates and similar releases.
8. Submit As-built drawings, maintenance manuals, final project photographs, damage or settlement survey, property survey, and similar final record information to the CPM.
9. Deliver tools, spare parts, extra stock, and similar items as specified in respective specification sections of Divisions 2 through 16.
10. Make final change-over of permanent locks and transmit master and grand master keys to the Contract Administrator.
11. Advise the Contract Administrator's personnel of pending change-over in security provisions.
12. Complete start-up testing of systems, and instruction of the COUNTY's operating and maintenance personnel.
13. Discontinue or change over and remove temporary facilities from the site, along with construction tools, mock-ups, and similar elements.
14. Complete final clean up requirements.

1.02 CONTRACTOR'S REQUEST FOR INSPECTION

A. When the CONTRACTOR considers that the Work, or a portion thereof which the Contract Administrator agrees to accept separately, is substantially complete, the CONTRACTOR shall prepare and submit to the Consultant a Request for Substantial Completion Inspection including a comprehensive list of items to be completed or corrected. In addition to the contract forms, the following forms are required for Project Closeout:

1. Contractor’s Request for Substantial Completion Inspection form – 01770A
2. Notification of Readiness for Substantial Completion Inspection form – 01770B
3. Substantial Completion Inspection form – 01770C
4. Substantial Completion Inspection Punch List form – 01770D
5. Letter Establishing Substantial Completion Date form – 01770E
6. Contractor’s Request for Final Completion Inspection form – 01770F
7. Notification of Readiness for Final Completion Inspection form – 01770G
8. Letter Establishing Final Completion Date form – 01770H
9. FAA Construction Project Closeout Checklist form – 01770I

B. The CONTRACTOR shall proceed promptly to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of the CONTRACTOR to complete all Work in accordance with the Contract Documents.

C. Project Closeout Submittals: Project closeout submittals required by the Contract Documents for the Work, or a portion thereof, shall be submitted by the CONTRACTOR at or prior to the time of his request.

1.03 CPM’S DETERMINATION OF READINESS

A. Upon receipt of the CONTRACTOR's Request for Substantial Completion Inspection, the CPM and Consultant will make a preliminary inspection to determine whether the Work or designated portion thereof is appropriately ready for a Substantial Completion Inspection.

B. The CPM will notify the Contract Administrator and the CONTRACTOR of the results of his inspection by completing and distributing the Consultant's Notification of Readiness for Substantial Completion Inspection.

1. If the CPM and Consultant's inspection discloses any item, whether or not included on the CONTRACTOR's list, which is not in accordance with the requirements of the Contract Documents and which would preclude beneficial occupancy and would render the Work not Substantially Complete, the CONTRACTOR shall correct such item upon receipt of the CPM’s Notification. The CONTRACTOR shall then submit another request for inspection by the CPM and Consultant to determine the completion status of the Work or designated portion thereof.

2. When the CPM and Consultant judges that the Project may be substantially complete in accordance with the terms of the Contract Documents, CPM will notify the Contract
1.04 SUBSTANTIAL COMPLETION INSPECTION

A. The Contract Administrator, upon notification from the CPM that the Work, or a portion thereof, may be substantially complete and all project closeout submittals pertaining to the Work, or portion thereof, have been approved and forwarded to the Contract Administrator, will direct the CPM to schedule and coordinate the Contract Administrator's Substantial Completion Inspection.

B. The Contract Administrator's Substantial Completion Inspection will be conducted by the CPM and Consultant, the Contract Administrator, and the CONTRACTOR.

C. The following representatives shall attend and conduct the Substantial Completion Inspection:

1. CONTRACTOR Personnel:
   a. Project Manager
   b. Superintendent
   c. Plumbing Superintendent
   d. Mechanical Superintendent
   e. Electrical Superintendent
   f. Specialty Sub-contractors.

2. Contract Administrator Personnel:
   a. Project Manager
   b. Field Construction Personnel and/or Supervisors
   c. Contract Administrator's Professional Staff
   d. Contract Administrator's Test and Balance Consultant (as applicable)
   e. Commissioning Agent (as applicable)
   f. Other specialty representatives of the Contract Administrator.

3. Consultant Personnel
   a. Architectural Project Manager
   b. Architectural Special Project Representative/Field Representative
   c. Structural Engineer
   d. Mechanical Engineer
   e. Electrical Engineer
   f. Specialty Sub-Consultants

D. Inspection Teams:

1. At the direction of the CPM, inspection teams will be established at the project site based upon the following disciplines:
   a. Architectural/Civil
   b. Plumbing
   c. Mechanical
   d. Electrical
   e. Electronics
   f. Specialties
2. Each inspection team will be composed of specialty representatives of the Contract Administrator, CPM, Consultant and CONTRACTOR who will perform independently of each other.

3. Each team will appoint a Team Leader.

4. The CPM will provide each Team Leader with:
   a. Copy of the CONTRACTOR's List of Deficiencies
   b. Floor and site plans (with the remainder of the Contract Documents available to the team).

E. At the Completion of the Substantial Completion Inspection, the CPM will issue a Substantial Completion Inspection report and Substantial Completion Punch List. Contract Administrator shall either approve or deny substantial completion of the Work, or portion thereof.

F. If Substantial Completion of the Work, or portion thereof, is denied, the CONTRACTOR shall promptly correct deficiencies noted which caused the denial of substantial completion. Upon correcting these deficiencies, the CONTRACTOR shall notify the CPM that these deficiencies are ready for re-inspection by submitting a new Request for Substantial Completion at which time the CPM, Consultant, Contract Administrator, and CONTRACTOR will re-conduct the Contract Administrator's Substantial Completion Inspection for substantial completion deficiencies only.

H. When Substantial Completion of the Work, or portion thereof, is granted, the CPM will prepare and issue Contract Administrator's Form 1, Certificate of Substantial Completion to indicate the date of substantial completion.

1.05 READINESS FOR FINAL COMPLETION (ACCEPTANCE) INSPECTION

A. Deficiencies noted on or attached to Substantial Completion Inspection Report and Substantial Completion Inspection Punch List, must be completed prior to the Contract Administrator's Final Completion Inspection. Limitations on the Time during which these corrections must be made shall be consistent with the Time specified in the Contract.

B. Upon correction of the punch list, the CONTRACTOR shall notify the CPM and issue a Request for Final Completion Inspection, that the Work, or portion thereof is ready for the Contract Administrator's Final Completion Inspection.

C. Upon receipt of the CONTRACTOR's Request for Final Completion Inspection, the CPM and Consultant will make an inspection to determine whether the Work or designated portion thereof is complete. The CPM will notify the Contract Administrator and the CONTRACTOR of the results of his inspection by completing and distributing the CPM's Notification of Readiness for Final Completion Inspection.

1. If the CPM and Consultant's inspection discloses any item which is not in accordance with the requirements of the Contract Documents and which would render the Work not complete, the CONTRACTOR shall correct such item upon receipt of the Consultant's Notification of Readiness for Final Completion Inspection. The CONTRACTOR shall then submit another request for inspection by the CPM.
and Consultant to determine the completion status of the Work or designated portion thereof.

2. When the CPM judges that the Project is complete in accordance with the terms of the Contract Documents, he will notify the Contract Administrator that the Work, or portion thereof, is ready for the Contract Administrator's Final Completion Inspection.

1.06 CONTRACT ADMINISTRATOR'S FINAL COMPLETION INSPECTION

A. The Contract Administrator, upon notification from the CPM that the Work, or a portion thereof, is complete will direct the CPM to schedule and coordinate the Contract Administrator's Final Completion Inspection.

B. The Contract Administrator's Final Completion Inspection will be conducted by the CPM, the Contract Administrator, and the CONTRACTOR.

1. Members of the inspection teams which inspected the facility for Substantial Completion will reconvene to conduct the Final Completion Inspection.

2. Members of the inspection teams for which there are no outstanding Punch List Items may be excused upon request to and approval by the CPM.

C. If Final Completion of the Work, or portion thereof, is denied, the CONTRACTOR shall promptly correct deficiencies noted which caused the denial of final completion.

D. Upon correcting these deficiencies, the CONTRACTOR shall notify the CPM that these deficiencies are ready for re-inspection (by submitting a new CONTRACTOR's Request for Final Completion Inspection at which time the CPM, Consultant, Contract Administrator, and CONTRACTOR will re-conduct the Contract Administrator's Final Completion Inspection.

1.07 FINAL COMPLETION DATE

A. When Final Completion of the Work, or portion thereof, is granted, the CPM will issue the CPM's Letter Establishing Final Completion Date to indicate the date of final completion.

B. Upon receipt of CPM's Letter Establishing Final Completion Date, the CONTRACTOR may make application for final payment.

C. If correction of Punch List is not fully completed within a period twice as long as that allowed by the Contract Documents, the Contract Administrator, at his option, may close out the Work or designated portion thereof, by deducting his estimate of the cost to correct the outstanding items and complete with Work by a separate CONTRACTOR or the Contract Administrator's own forces.

1.08 OCCUPANCY INSPECTION

A. The Municipal or County Building Departments having jurisdiction will conduct an inspection for the purpose of determining that the Work, or portion thereof, is in compliance with the statutes, rules, and codes affecting the health and safety of the occupants.
B. Upon successful completion of this inspection, the jurisdictional Building Department will issue a Certificate of Occupancy authorizing occupancy of the Work, or portion thereof.

1. The CONTRACTOR shall be responsible for corrections to discrepancies noted by the jurisdictional Building Department during the Occupancy Inspection, except for items identified which is not part of the requirements of the Contract Documents.

2. Corrections to identified discrepancies which are not part of the requirements of the Contract Documents will be made by the Contract Administrator using his own forces or separate CONTRACTOR(s), or by the CONTRACTOR after execution of a change order instructing the CONTRACTOR to complete such Work.

C. Obtaining a Certificate of Occupancy from the Jurisdictional Building Department is a pre-requisite to the CONTRACTOR achieving Substantial Completion.

1.09 FINAL ADJUSTMENTS OF ACCOUNTS

A. Submit a final statement of accounting to the CPM.

B. Statement shall reflect all adjustments to the Contract Sum:

1. The original Contract Sum.
2. Additions and deductions resulting from:
   a. Previous Change Orders.
   b. Deductions for uncorrected work.
   c. Deductions for liquidated damages.
   d. Deductions for re-inspection payments.
   e. Other adjustments.
3. Total Contract Sum, as adjusted.
4. Previous payments.
5. Sum remaining due.
6. The applicable Purchase Order Number issued by the Contract Administrator.

1.10 FINAL APPLICATION FOR PAYMENT

Submit the final Application for Payment in accordance with procedure and requirements stated in the CONTRACTOR’s agreement with the COUNTY.

1.11 REINSPECTION FEES

Should it be necessary for the CPM to perform re-inspections due to the failure of the Work to comply with the claims of status of completion made by the CONTRACTOR:

1. The Contract Administrator will compensate the CPM for such additional services.
2. Contract Administrator will deduct the amount of such compensation from the Contract Sum due to the CONTRACTOR.

1.12 PUNCH LIST COMPLETION
A. The facilities may be occupied by COUNTY during completion of all or a portion of the Punch List.

B. Complete Punch List work during the COUNTY’s normal hours of operation (8:30 AM to 5:00 PM Monday through Friday).

C. Make arrangements concerning access and other than normal work hours with the CPM.

PART 2 PRODUCTS - Not Used
PART 3 EXECUTION - Not Used

(Forms 01770A thru 017701 follow)
Contractor's Request for Substantial Completion Inspection

To:
(Project Consultant)

Request No.: Date:

Project No:
Project Title:
Facility Name:

Full Project
Designated Portion (Attach Description)

I hereby certify that I am an officer of the firm or corporation named herein and have been properly authorized to make the following statements concerning the project named above:

1. The above named project or designated portion thereof will be substantially complete in accordance with the contract requirements and ready (excluding the attached list of deficiencies) for inspection on:

2. The Date of Substantial Completion required by the Contract (as modified by any approved change orders affecting Contract Time) is:

3. I understand that I am to continue with builder's risk insurance coverage required by the Contract until the Date of Substantial Completion is agreed upon by the parties to the Contract. Additionally, I understand that I am to continue with liability coverage and maintenance required by the Contract until the Owner's Final Acceptance of the Work.

4. I have assembled and attached complete sets of Operations and Maintenance Manuals and other required closeout documents along with my Contractor's List of Deficiencies that will not preclude Substantial Completion. I have also attached my Time Extension Request for any delays related to this portion of the Work.

5. Contractor and all of their subcontractors are up to date with all OCIP required documentation and/or Contractors' certificate of insurance is current and approved by Risk Management.

Submitted By:
Company Name & Address:
Phone:

Distribution
Project Consultant
Field Construction Manager
Contractor's Surety
CPM (if applicable)
PMO (if applicable)

Attachments:
Contractor's List of Deficiencies
Applicable Closeout Documents
Time Extension Request (if applicable)

Notice to Contractor
Submit this form at least 10 calendar days prior to the requested inspection date to allow scheduling of the inspection.

Neither the determination by the Project Consultant that the Work is substantially complete, nor the acceptance thereof by the Owner, shall preclude subsequent claims against the Owner pursuant to portions of the Work not meeting the requirements of the Contract or for the Contract's provisions for the Contractor's warranty of the Work.
Notification of Readiness for Substantial Completion Inspection

Instructions for Project Consultant's Use: Provide this completed letter to notify the Owner that the Work, or a designated portion thereof, is ready for the Owner's Substantial Completion Inspection.

To: (CPM or RPR as applicable)
Project No:
Project Title:
Facility Name:
Contractor:

Contractor's Request No.: Date:

D Full Project
D Designated Portion (Attach Description)

I have completed a preliminary site visit as a result of the Contractor's Request for Substantial Completion Inspection and have found that:

☐ The work, or designated portion thereof, will be ready to receive a Substantial Completion Inspection as requested by the Contractor on:

☐ The work, or designated portion thereof, is not ready to receive a Substantial Completion Inspection. A listing of items which preclude Substantial Completion is attached to this letter.

Submitted By:
(Project Consultant)
Company Name & Address:

Signature
Title

Distribution
Aviation Asst Director Airport Development
BCAD PM and CA
CPM (if applicable)
PMO (if applicable)
Project File

Attachments:
Contractor's List of Deficiencies
Substantial Completion Inspection

Project No: [__________]  
Project Title: [__________]  
Facility Name: [__________]  
Inspection Date: [__________]

□ Full Project  
□ Designated Portion (Attach Description)

Representation:
Contractor: [__________]  
Phone: [__________]
Consultant: [__________]  
Using Agency: [__________]  
Airport Development Div.: [__________]
CPM or PMO (if applicable): [__________]

The attached pages 2 through [______] list “punch items” noted as a result of the Substantial Completion Inspection, completed by the persons listed above.

☐ The punch list items are of a nature that will allow beneficial occupancy of the premises and are issued as a final punch list. If any item on the preliminary punch list is inaccurate, notify the Airport Development Division’s Project Manager immediately. These punch list items shall be corrected on or before the mutually agreed date of: [______].

☐ The punch list items are of a nature that preclude beneficial occupancy of the premises by the County and Substantial Completion is denied at this time. Items on the attached page 2 must be completed prior to requesting a re-inspection.

Remarks:

Recommended By:
(CPM, Consultant, PMO and RPR as applicable)

Signature
Title

Approved By:
(BCAD PM)

Signature
Title
Broward County Airport Development Division

Accepted By:
(BCAD CA)

Signature
Title

Distribution
Contractor, Consultant, CPM and PMO, RPR (as applicable), Project file

Broward County Aviation Department
12-19-11 CMA

Document 01770C
Z0995302C1 Site Preparation and NAVAIDS Infrastructure - 315 -
# Substantial Completion Inspection – Punch List

<table>
<thead>
<tr>
<th>No.</th>
<th>Area</th>
<th>Item</th>
<th>Notes</th>
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**Project No:**
**Project Title:**
**Facility Name:**
**Contractor:**

**Inspection Date:**
- [ ] Full Project
- [ ] Designated Portion (Attach Description)

[ ] Preliminary Punch List  [ ] Final (Edited) Punch List
<table>
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<tr>
<th>No.</th>
<th>Area</th>
<th>Item</th>
<th>Notes</th>
<th>Confirmed Corrections Complete</th>
<th>Date</th>
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Broward County Aviation Department
Substantial Completion Inspection – Punch List

Z0995302C1 Site Preparation and NAVAIDS Infrastructure
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<th>No.</th>
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</table>

Broward County Aviation Department
Substantial Completion Inspection – Punch List

Document 01770D
Page 3

Z0995302C1 Site Preparation and NAVAIDS Infrastructure
Letter Establishing Substantial Completion Date

Instructions for Project Consultant’s Use: Provide this completed letter to establish the Date of Substantial Completion of the Work or a designated portion thereof.

To:

(Contract Administrator)

Project No:

Project Title:

Facility Name:

Contractor:

Contractor’s Request No.: Date:

☐ Full Project

☐ Designated Portion (Attach Description)

On ______________________, we completed the Substantial Completion Inspection for the project, or designated portion thereof, listed above.

I hereby certify that the General Contractor achieved Substantial Completion and the project, or designated portion thereof, was ready for beneficial occupancy on the following date:

The date of Substantial Completion is the ☐ last date of Substantial Completion for this project, or a ☐ designated portion thereof, requested by the Contractor pursuant to the request number listed above. Evidence is provided by our signatures below that the Project Consultant and Contractor agree that this project was ready for Beneficial Occupancy by the Owner for its intended purpose on the date of Substantial Completion listed above. You are advised to submit Standard Form 770 to advise Risk Management and Safety of the required change of insurance for this completed portion of the Work.

By: (Project Consultant) Firm Name

By: (Contractor) Firm Name

Distribution

Director of Airport Development
BCAD CA and PM Consultant
Contractor
Contractor Surety
CPM (as applicable)
RPR (as applicable)
PMO (as applicable)

For Airport Development Division Use Only

☐ Date is acceptable; letter is hereby placed in Project Files as an official record.

BCAD Project Manager

Broward County Aviation Department
Letter Establishing Substantial Completion Date
12-19-11

Z0995302C1 Site Preparation and NAVAIDS Infrastructure - 319 -
Contractor's Request for Final Completion Inspection

To:
(Project Consultant)

Project No:

Project Title:

Facility Name:

Request No.: Date:

- Full Project
- Designated Portion (Attach Description)

I hereby certify that I am an officer of the firm or corporation named herein and have been properly authorized to make the following statements concerning the project named above:

1. The above named project or designated portion thereof will be finally complete in accordance with the contract requirements and ready (including all punch list items) for inspection on:

2. The Date of Final Completion required by the Contract (as modified by any approved change orders affecting Contract Time) is:

3. I understand that I am to continue with insurance coverage and maintenance required by the Contract until the Owner's Final Acceptance of the Work. Additionally, I understand that I am to continue with liability coverage and maintenance required by the Contract until the Owner's Final Acceptance of the Work.

4. I have attached a time extension request/change order proposal for any delays related to work required for completion of the punch list.

Submitted By:

Company Name & Address:

Phone:

Signature

Title

Distribution

- Project Consultant
- BCAD PM and CA
- Contractor's Surety
- CPM (as applicable)
- PMO (as applicable)
- RPR (as applicable)

Attachments:

- Time Extension Request/Change Order Proposal (if applicable)

Notice to Contractor

Neither the determination by the Project Consultant that the Work is finally complete, nor the acceptance thereof by the Owner, shall preclude subsequent claims against the Owner pursuant to portions of the Work not meeting the requirements of the Contract or for the Contract's provisions for the Contractor's warranty of the Work.
Notification of Readiness for Final Completion Inspection

Instructions for Project Consultant's Use: Provide this completed letter to notify the Owner that the Work, or a designated portion thereof, is ready for the Owner's Final Completion Inspection.

To:
(CPM or RPR as applicable)
Project No:
Project Title:
Facility Name:
Contractor:

Contractor's Request No.: Date:
[ ] Full Project
[ ] Designated Portion (Attach Description)

I have completed a preliminary site visit as a result of the Contractor's Request for Final Completion Inspection and have found that:

[ ] The work, or designated portion thereof, will be ready to receive a Final Completion Inspection as requested by the Contractor on:

__________________________

[ ] The work, or designated portion thereof, is not ready to receive a Final Completion Inspection. A listing of items which preclude Final Completion is attached to this letter.

Submitted By:
(Project Consultant)
Company Name & Address:
Phone:

Signature

Title

Distribution
Aviation Asst Director, Airport Development
Lead Design Consultant
BCAD PM and CA
CPM (as applicable)
PMO (as applicable)
RPR (as applicable)
Project File

Attachments:
Contractor's List of Deficiencies
Letter Establishing Final Completion Date

Instructions for Project Consultant's Use: Provide this completed letter to establish the Date of Final Completion of the Work or a designated portion thereof.

To: (Contract Administrator)

Project No:

Project Title:

Facility Name:

Contractor:

Contractor's Request No.: Date:

☐ Full Project

☐ Designated Portion (Attach Description)

On ______________, we completed the Final Completion Inspection for the project, or designated portion thereof, listed above.

I hereby certify that the General Contractor achieved Final Completion and the project, or designated portion thereof, was ready for beneficial occupancy on the following date:

______________________________

The date of Final Completion is the last date of Final Completion for this project, or designated portion thereof, originally requested by the Contractor. Evidence is provided by our signatures below that the Project Consultant and Contractor agree that this project was Finally Complete on the date of Final Completion listed above.

By: (Contractor)

By: (Project Consultant)

Distribution

Aviation Asst Director, Airport Development
BCAD PM and CA
Consultant
Contractor
CPM (as applicable)
PMO (as applicable)
RPR (as applicable)
Project file
Contractor Surety

For Airport Development Division Use Only

☐ Date is acceptable; letter is hereby placed in Project Files as an official record.

BCAD Project Manager

Z0995302C1 Site Preparation and NAVAIDS Infrastructure - 322 -
Document 01770I - FAA Construction Project Closeout Checklist

### All Projects

<table>
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<th>Description</th>
<th>Construction</th>
<th>Design</th>
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<tr>
<td>a) Final Pay Request SF-271, except for letter of credit grants (original + one copy)</td>
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<td>b) Final Pay Summary Worksheet</td>
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<td>c) Summary of DBE Utilization</td>
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<td>d) Grant Special Conditions, list and discuss compliance with each.</td>
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<td>e) Amendment letter, if applicable</td>
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<td>f) Final Construction Project Report</td>
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<td>g) Sponsor's Certification for Construction Project Final Acceptance</td>
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### Final Construction Project Report

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<td>d) Construction</td>
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<td>1) Summary of change orders</td>
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<td>3) Final Inspection Report</td>
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<td>5) As-constructed plans</td>
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<td>6) Summary of test results</td>
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<td>7) Date when force account construction approved by FAA</td>
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<td>8) Summary of force account construction</td>
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<td>e) Revised Exhibit &quot;A&quot; Property Map, if applicable</td>
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<td>f) Date of FAA approval of revised ALP</td>
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<td>g) Date of Airport Master Record update</td>
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<td>h) Date of Sign Plan update, if applicable (for Part 139 airports)</td>
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