# GENERAL REQUIREMENTS

BID DOCUMENTS

CRACK REPAIR &
SEALING RUNWAY 18/36
AT OCALA INT. AIRPORT

**Section 01010**

**Summary of Work**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS: Contract Drawings, General Provisions, Supplementary Conditions, General *Requirements*, and other Special Provisions and Specifications apply to work of this section.

1.2 CONTRACT DOCUMENTS: Indicate the work of the Contract and related requirements and conditions that have an impact on the project. Related requirements and conditions that are indicated on the Contract Documents include, but are not necessarily limited to the following:

A. Existing site conditions and restrictions on use of the site.

B. Mandatory staging/sequencing.

C. Requirements for partial utilization of various elements prior to substantial completion of the work.

D. Work to be performed concurrently by the Owner.

1.3 SUMMARY BY REFERENCES**:** Work of the Contract can be summarized by references to the Contract, General Provisions, Supplementary Conditions, Specifications, Drawings, and Addenda and Modifications to the contract documents issued subsequent to the initial printing of this Project Manual, including but not necessarily limited to printed material referenced by any of these. It is recognized that work of the Contract is also unavoidably affected or influenced by governing regulations, natural phenomenon including weather conditions, and other forces outside the contract documents.

1.4 CONSTRUCTION PHASING: To minimize the impact to aircraft operations and airfield tenants, and to avoid construction during adverse weather seasons, the Contract shall be completed in phases as specified hereinafter as described on the plans. Each phase of the Contract shall be completed within the contract time as specified herein.

1.5 CONSTRUCTION TIME:

A. Time Schedule: The work as described by the contract specifications and as shown on the plans shall be completed and ready for use by the Owner as advertised after the date of Notice-to-Proceed. The time schedule for completion of this project is critical and liquidated damages as prescribed in the Contract will be enforced.

B. Material Delivery: Upon approval of the bid and securing the necessary funding by Owner, FDOT ~~and FAA~~, the Engineer will issue a Notice-of-Award. The Contractor shall use this time for submittals of items of long lead times. No materials shall be ordered without an approved submittal. The Contractor shall furnish documentations confirming order date and material delivery date.

1.6 LIQUIDATED DAMAGES:

A. Owner and Contractor recognize that time is of the essence and that Owner will suffer financial loss if the work is not substantially complete in accordance with the time(s) specified herein. They also recognize the delays, expenses and difficulties involved in proving in a legal or arbitration preceding the actual loss suffered by Owner if the work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay Owner the daily rate stipulated in the Okaloosa County Standard Clauses contained in the Front End Documents section of the Project Manual for each phase shown in the Liquidated Damages Schedule below.

B. Contractor further understands and hereby expressly agrees that in addition to liquidated damages specified hereinafter, to pay the Owner the actual costs to Owner for any inspector or inspectors necessarily employed by Owner on the work and the actual costs to Owner for the Engineer's observation of construction and project representative services including all travel and subsistence expenses after the date specified for Project completion until the work is completed and ready for final payment. Further, the Contractor agrees that the sums to be paid the Owner may be deducted from the sum due the Contractor for work performed as provided in Section 90 of the General Provisions.

1. LIQUIDATED DAMAGES SCHEDULE

Refer to Section **80.08** of General Provisions.

C. The Contractor shall complete all inspection punch list items and final pavement markings determined by the Owner and the Engineer within 30 consecutive calendar days from the date of the Substantial Completion inspection. Failure to do so will result in liquidated damage equal to the daily rate.

1.7 CONCURRENT WORK BY OWNER**:**

A. Overlapping Work: The work to be performed may overlap work by others to be performed concurrently. Each Contractor shall coordinate and schedule his work with the knowledge that each may be working the same area simultaneously. Each Contractor will be expected to cooperate with the Engineer, Owner, and other Contractors in the completion of the work.

B. Disputes: The Engineer, whose decision will be final, will decide any disputes arising between the Contractors.

C. Coordination: Contractors shall coordinate their schedules and work activities very closely, including holding weekly meetings in the presence of the Engineer's onsite representative. Contractors must cooperate with each other, including working around each other's work activities. Potential delays as a result of lack of coordination will not be considered grounds for claim for additional time extensions and/or additional compensations.

1.8 CONTRACTOR USE OF PREMISES:

A. Use of the Site: The Contractor shall confine his operations at the site to the areas permitted under the Contract. Portions of the site beyond areas on which work is indicated are not to be disturbed. Conform to site rules and regulations affecting the work while engaged in project construction.

B. Open Passage: Keep existing drives, entrances, and air operations areas designated to remain open, clear, and available to the Owner, his employees and the public at all times. Do not use these areas for parking or storage of materials.

C. Storage: Do not unreasonably encumber the site with materials or equipment. Confine stockpiling of materials and location of storage sheds to the areas indicated. If additional storage is necessary, obtain Engineer's approval.

D. Vehicle/Equipment Security: Lock automotive type vehicles, such as passenger cars and trucks, and other mechanized or motorized construction equipment, when parked and unattended, so as to prevent unauthorized use. Do not leave such vehicles or equipment unattended with the motor running or the ignition key in place.

1.9 WORK RESTRICTION**:**

A. NAVAID Areas: During the time of construction, the Contractor may be restricted from working in or around certain essential electronic navigational aids necessary to the safe operation of the airport. The Contractor is hereby notified that the Engineer may restrict construction operations in those areas closest to the active runway and taxiways.

B. Radio Communication: Contractor shall maintain two-way radio communication with the Airport air operations personnel, on their frequency, at all times during construction. Contractor shall have a working radio on site at all times during construction and shall assign responsible personnel, including flagmen, to continuously monitor the radio. All radios shall be as specified in Section 01510.

C. Notice to Airmen (NOTAMS): The Contractor shall provide the necessary information on construction conditions so that the Owner can advise the Flight Service Station to issue a NOTAM in accordance with established criteria. All requests for NOTAMS for taxiway closures shall be made at least 48 hours in advance (not including weekends) by the Contractor to the Engineer. All requests for closure of a runway or for moving into a phase that requires the closure of a Navaid shall be made at least 7 days in advance (not including weekends) by the Contractor to the Engineer.

D. Turf Restoration: All non-paved areas that are disturbed by the Contractor's work, staging area, haul roads, etc. shall be reseeded and restored to original condition by the Contractor. Except where otherwise specified, there will be no separate pay item for this work; it will be considered incidental to and included in the price bid for Item C-105, Mobilization.

E. Security: Contractor shall provide security within his construction area and shall keep all unauthorized personnel out.

F. Haul Route on Airfield Pavement: Contractor will not be allowed to use any of the existing runways, taxiways, or aprons as part of the haul road unless authorized in writing by the Engineer.

G. Access Points: All construction traffic shall enter and exit the project area only through the project access point(s) shown on the plans or approved by the Engineer. Contractor will be responsible for security of entrance gates under use by him/her.

H. Construction Stakeout: The Contractor shall perform construction stakeout in accordance with Article 50-06 of the General Provisions and item 02000 construction layout.

I. Haul Route: The Contractor shall be responsible for establishing haul routes suitable for supporting all necessary transportation and construction equipment for the duration of the project. Any existing roads or other areas that are used as part of the haul route shall be restored to their original condition after completion of the project. The Contractor will be responsible for all clean-up operations of debris that may be on the haul route and for watering and/or other dust preventive measures to preclude fugitive dust from affecting buildings, occupants, or airfield operations. No separate payment will be made for seeding or mulching, or pavement restoration; such costs will be incidental to and included in the price bid for Item C-105, Mobilization.

J. Airfield Safety Devices: Contractor shall maintain all airfield safety devices such as staked limit lines for the duration of the project as required. Damaged stakes or flagging shall be replaced immediately.

K. Vehicular Markings and Lighting: All vehicles and equipment used on the airfield shall meet airport requirements for marking and lighting.

L. Contacts During Non-Working Hours: For the duration of the project, the Contractor shall designate a list of authorized individuals in a prioritized order, to be on 24 hour call, and these individuals shall be equipped with a beeper and cellular phone. These individuals shall be able to respond to any situation arising out of the performance of the work on this project, particularly during nighttime hours, and shall respond and be on the project site within one hour after the phone call or beep.

M. Airfield Pavement Cleanup: The Contractor shall promptly clean any and all debris arising from the project work that is left on operational airfield pavement. The Owner may remove any debris attributable to the Contractor found to be a hazard to aircraft. A fee of $250/hour will be assessed to the Contractor for all such cleaning and will be deducted on the next Contractor pay request.

1.10 COORDINATION**:** The work of this Contract includes coordination by the Contractor of the entire work of the project, including preparation of general coordination drawings, diagrams and schedules, and control of site utilization, from beginning of construction activity through project close-out and warranty periods.

1.11 PARTIAL OWNER OCCUPANCY OR USE**:** The Owner reserves the right to use completed and accepted work provided such use does not interfere with completion of other work. Such use will not affect warranty stipulations addressed elsewhere in the contract documents.

PART 2 - PRODUCTS (Not Used.)

PART 3 - EXECUTION

3.1 MEASUREMENT AND PAYMENT**:** Except as otherwise specified, no separate measurement or payment will be made for work set forth in this section; such costs will be considered as incidental to and included in the price for Section C-105, Mobilization, or other items as appropriate.

**END OF SECTION 01010.**

## SECTION 01030-AIRPORT PROJECT PROCEDURES

PART 1 - GENERAL

1.1 INTRODUCTION: This project will include Contractor operations within or near active Air Operations Areas (AOA). The Airport will conduct normal aircraft operations during the course of this project, subject to certain restrictions called out in this section or elsewhere in the specifications. Therefore, to provide for the security and safety of Airport users and the Contractor's forces, as well as to minimize interruptions to aircraft operations, the Contractor shall limit his work within the areas designated and conduct his operations as specified.

1.2 Any fines or assessments levied against the Sponsor as a result of unauthorized intrusions in the AOA or other violations by the Contractor's personnel or those of his subcontractors will be passed on to the Contractor. In addition, the Contractor will be subject to a fine of $1,000.00 per incident, assessed by the Sponsor.

1.3 AIR OPERATION AREA (AOA) SAFETY REQUIREMENTS:

A. Barricades: Existing runways, taxiways and aprons outside the limits of construction shall be separated from construction areas with barricades as shown on the plans and described in Section 01530.

B. Radio Communication: The Contractor shall monitor the Airport 2-way UNICOM radio frequency (121.4 MHZ) at all times during construction, and shall remain clear of the runway approach and obstacle free zones during aircraft operations. Contractor shall have a working radio as specified in Section 01510 on site at all times during construction and shall assign responsible personnel to continuously monitor the radio. The contractor will monitor Ocala CTAF 119.25 in the event of an accidental or emergency landing.

C. Runway and Taxiway Closures: Only the Owner will make Closures of runways and taxiways. The Owner shall contact the appropriate FAA Flight Service Station prior to issuing the Notice-to-Proceed so that a Notice-to-Airmen (NOTAM) for runway or taxiway closure can be issued in accordance with established criteria. Construction operations within the runway or taxiway safety zone shall not begin until the Contractor receives clearance from the Owner and Engineer assuring that the adjoining runway or taxiway has been closed.

1.4 CONSTRUCTION SAFETY REQUIREMENTS:

A. General:

1. Safety Officer: The Contractor is required to employ a Safety Officer who will be the liaison between the Contractor, the Engineer and the Owner in all safety related matters for the duration of the project. The Safety Officer shall be on call 24 hours per day for emergency maintenance of airport hazard lighting, barricades, and other safety features.

2. Protection of Utilities: The Contractor shall be responsible for field marking and protecting all utilities within the construction limits.

3. Storage of Equipment, Vehicles, and Materials: All equipment, vehicles, and materials must be stored in the designated storage or staging area or in areas acceptable to the Engineer.

4. Vehicular Markings: Contractor vehicles and equipment shall be marked with checkered flags and lighted with flashing beacons to comply with requirements of FAA AC 150/5210-5D. All vehicles and equipment shall display 3' x 3' flags, orange and white "checkerboard" pattern, with the squares being 1' x 1' each. All vehicles and construction equipment working during the night shall be equipped with an amber colored rotating beacon light.

5. Construction Methods Limitation:
   a. No open flames or burning will be allowed on Airport property except as specifically authorized by the Engineer in writing.

   b. Stockpiled material shall be constrained in a manner to prevent displacement by jet blast, prop blast, or wind, and shall be kept to a height that will not penetrate FAR Part 77 imaginary air space.

6. Safety and Accident Protection:
   a. The Contractor shall comply with all applicable federal, state, and local laws, ordinances, and regulations governing safety, health, and sanitation; shall provide barricades; and shall take any other needed actions, on his own responsibility, that are reasonably necessary to protect the life and health of employees on the job, the safety of airport users, the safety of moving and parked aircraft, and other property during the performance of the work.
   b. The Safety Officer's duties shall include accident prevention.

7. Navigational Aids: Airport navigational aid critical areas are shown on the drawings or will be indicated by the Engineer. The Contractor shall not enter these areas without the Engineer's approval.

8. FAA Advisory Circular: Except as otherwise specified, FAA AC 150/5370-2G and all its references shall be used in maintaining airport operational safety during construction. A copy of this Advisory Circular is attached.

B. Runway and Taxiway Safety Zones:

Limitations: When necessary, to accomplish construction in areas adjacent to runways and taxiways, the construction equipment, vehicles, and men are authorized to operate without interruption within the project limits, except within the following areas and as specified otherwise:

a. Distance from runway centerline or runway end
   1) - Within **250** feet (Runway 18-36).
   2) – Within **75** feet (Runway 8-26).

C. Obstructions to Navigation:

1. Violation of Safety Zone Surfaces: Penetration of equipment, vehicles, materials, or men into the safety zones and approach surfaces requires the preparation and distribution of Notices to Airmen (NOTAM) in advance to the actual penetration.

2. Scheduling: When part of the work in this project is in violation of FAR Part 77, the clearance distance requirements from runway and taxiway edges shall be incorporated into the construction sequence schedule. At no time shall the construction limits of the area under construction violate the safety zones without prior notification to and approval by the Engineer.

3. Coordination and Communication: Work within and adjacent to active AOAs shall be coordinated with the Engineer prior to commencement of the activity. The construction superintendent and the resident inspector, both of which shall be in constant radio contact with ATC, shall accompany work crews in these areas.

1.5 N/A SAFETY PLANNING: The Contractor shall integrate and maintain requirements of airport operational safety into each planning and work schedule. The Contractor's Safety Officer shall continuously monitor all planning schedules and work underway for compliance to AC 150/5370-2 (Latest Edition); and shall maintain vigilance to detect areas needing attention due to oversight or altered construction activities. Airport operational safety during construction will be on the agenda at the preconstruction conference and each coordination and progress meeting.

1.6 SECURITY REQUIREMENTS: The Contractor has the responsibility for maintaining control of the access gates or any other entrance to the AOA. The Contractor may utilize a gate guard or install an automatic operated gate controller with limited access with numeric keypad. The Contractor may be required to erect temporary fencing to protect the AOA during construction. The Contractor's method of maintaining security shall be set forth in his Security Plan and shall comply with the airport's rules and regulations concerning work in the airport restricted areas. There will be no separate measurement or payment for gate guards or temporary fencing required maintaining the integrity of the AOA.

1.7 TEMPORARY RELOCATED AND DISPLACED THRESHOLDS: N/A

1.8 BARRICADES: N/A

1.9 RUNWAY AND TAXIWAY CLOSURES:

A. When a runway is required to be closed during any phase of the work and aircraft must access another runway during this period, at least one taxiway serving the air carrier apron and one taxiway serving the general aviation apron must remain open for this purpose at all times. The Contractor shall schedule his work to provide continuous access as described above. Barricades and/or closed taxiway markers shall be placed as directed by the Engineer.

B. The Contractor shall coordinate and schedule runway closures and temporary relocation of any runway threshold with Owner through Engineer before closure is required so that Owner can issue appropriate NOTAMS.

C. Runway closures shall be scheduled in advance. Contractor shall identify taxiway closures with barricades and by covering taxiway lights within the closure limits. Remove barricades and covers when no longer needed or as directed by Engineer.

PART 2 - PRODUCTS

2.1 BARRICADES AND CLOSED RUNWAY MARKERS: Barricades and Closed Runway Markers, when required, shall be constructed as specified in Section 01530.

2.2 TEMPORARY RELOCATED (OR DISPLACED) THRESHOLD:

N/A

2.3 RUNWAY NUMBER COVERS: N/A

PART 3 - EXECUTION

3.1 LIMITATION OF CLOSURES: Only the Owner will make Airfield pavement closures. The Contractor shall request the closure through the Engineer from the Owner.

3.2 BARRICADE AND CLOSED RUNWAY MARKERS INSTALLATION: Install barricades and closed runway markers at locations shown on the drawings and where, directed by Engineer. Anchor barricades and closed runway markers as specified in Section 01530. Maintain barricades and closed runway markers until removal is directed by Engineer. Barricade batteries shall be checked daily to insure adequate operation of the flashers during the night. Replace batteries as required. Upon removal of barricades and closed runway markers, repair any damage to pavement or surrounding area caused by barricades and closed runway markers.

3.3 TEMPORARY RELOCATED OR DISPLACED THRESHOLD:

A. Painted markings shall be applied after the runway has been closed to aircraft operations. Concurrent with the application of paint will be the placement of the barricades as shown on the plans. Edge lighting shall be adjusted as shown on the plans.

B. The Contractor shall coordinate the temporary relocation of the thresholds with the Owner and Engineer and shall not perform this work until authorized by the Engineer.

3.4 MEASUREMENT AND PAYMENT: No measurement or payment will be made for work in this section; it will be considered as incidental cost to Mobilization and other items of work.

END OF SECTION 01030

## SECTION 01035

## NIGHTTIME CONSTRUCTION OPERATIONS

### PART 1- DESCRIPTION

01035-1.1 OVERVIEW No men or equipment are permitted within the safety area of any pavement open to aircraft traffic. Therefore, work abutting or adjacent to open pavements requires closure of said pavement and strict requirements about closure procedure, work zone safety, pavement clean-up, inspection, and temporary restoration of slopes and drop offs before opening. For operationally critical areas of the airport where daytime closure is highly impactful, night work shall be required with pavements open to traffic during the day. This item establishes the requirements for the nighttime construction operations of this project.

01035-1.2 ADJACENT AREAS TO OPENED DURING THE DAY N/A

01035-1.3 ACTIVE AREAS TO BE OPENED TO TRAFFIC EACH DAY Plans sheet G1.3 include areas that show rehabilitation of the apron in front of the terminal building. These areas are referred to as "*Night work*". Improvements to these pavements must be completed at night **and opened to traffic during the day**. Work generally consists of milling existing pavement, overlay, stripping and underground electrical work.

01035-1.4 TIME CRITICAL AREAS Plan sheets G1.3 show the rehabilitation of the apron area in front of the terminal building. This area is referred to as "*Night Work"* on the Phasing Plans. The **condensed schedule may require the contractor to do additional crew at night work**. If so, the provisions included in this section shall apply.

01035-1.5 REFERENCE DOCUMENTS

-Operational Safety on Airports During Construction-Ac 150/5370-2G.
-Airport Safety Self Inspection-Ac 150/5200-18C.
-Painting, Marking and Lighting of Vehicles Used on Airports-Ac 150/5210-5C.
-Standards for Airport Markings - Ac 150/5340 – 1M
-Federal Aviation Regulations, Part 139

### PART 2- EQUIPMENT

01035-2.1 STAND-BY EQUIPMENT. The Contractor shall have stand-by equipment at the construction site for all types of work to be performed during nighttime construction. The type and amount of stand-by equipment will be that which is necessary for completion of the work period should any piece of equipment break down, e.g. Sealing truck, sweepers, distributor truck, sawing machine, backhoes, etc. Provision shall be made for a standby asphalt production plant or sufficient storage bins to provide enough material to reopen the closed facility should the primary plant break down. Standby equipment may be used for construction to improve productivity, but the Contractor will be required to properly repair or replace broken equipment before being allowed to proceed with the next work period. Stand-by equipment shall be listed on the equipment log required by the specifications.

Provisions shall be identified for standby asphalt production plants or for sufficient hot storage bins to provide enough material to continue paving or to reopen the construction area to aircraft operations should the primary plant or plants break down. Additionally, for the remaining equipment, standby equipment should be available in the following amounts:

| Regular Equipment Used | Standby Equipment Available |
|---|---|
| 1 – 6 units | 1 unit |
| 7 or more units | 2 units |

Contractor shall provide a list of standby equipment with his bid proposal. A separate list shall be provided for off-peak (nighttime) and the continuous paving period.

Should it become necessary, for the Owner to assist the contractor with cleanup operations due to time constraints, the cost of such cleanup will be charged against the contractor and be deducted from the Contractor's next request for monthly payment.

01035-2.2 OBSTRUCTION LIGHTING AND BARRICADES. The Contractor will be required to have on hand an ample supply of obstruction lighting and barricades to block off any intersecting taxiways, to delineate haul routes to the work site, and to control other such features of the project as directed by the Engineer.

01035-2.3 CONSTRUCTION LIGHTING. The Contractor shall provide a minimum of 10-foot candles of illumination in the work area. Highly maneuverable light plants with 1,000-watt metal halide flood lights mounted as high as aircraft, airspace and practicality will allow, shall be positioned in sufficient amounts to provide the most natural color illumination and contrast with a minimum of shadows. In addition, all paving machines, rollers, distributor trucks, haul trucks, grooving machines, and other equipment shall be equipped with flashing yellow beacons and with artificial illumination to safely light-up the area immediately surrounding their work areas. The Engineer will strictly enforce lighting requirements as sufficient light is a major factor in constructing satisfactory work during nighttime operations and in maintaining safety.

**PART- 3 WORK PROCEDURES**

01035-3.1 SUBMITTALS. Prior to commencing work on the project, the Contractor shall submit the following to the Engineer for approval:

a. A detailed progress schedule showing the proposed schedule of work in areas to be constructed each period.
b. A complete list of equipment and personnel to be used, including stand-by equipment.
c. Evidence that the production plants meet the requirements of the specifications.
d. Evidence that the amount of materials the Contractor proposes to place each work period can be supplied to the job in the time and quantity required.
e. Experience record of the Project's Superintendent that the Contractor proposes to place in charge of the job. The experience record should list experience in similar type of work including any nighttime or off-peak construction.

01035-3.2 INSPECTION AND TESTING. The Contractor is advised that acceptance testing of the work will take place each night, and that work will not proceed unless all tests have been recorded and approved. Daily inspection reports will be made by the inspection team and testing lab.

01035-3.3 CONSTRUCTION PREPARATION MEETINGS. Prior to each nighttime operation, the contractor shall meet with the engineer and airport operation to discuss operational readiness for the proposed work area. The discussions shall include, but not be limited to:

a. Review of Airport issued Notice to Airmen (NOTAM).
b. Closure limits, barricade placement
c. Work to be performed. Materials being hauled to the jobsite
d. Functionality of low profile barricades, light plants, lighted runway closure "X"
e. Availability of equipment, including standby equipment and sweepers
f. Subcontractor scheduled work, Quality control to be performed
g. Haul routes, gate guards, escorts
h. Method of restoration of slopes, drop offs, trench covers.
i. Effects on Navigational Aids

01035-3.4 WEATHER. The Engineer and Owner will establish procedures for determining weather conditions under which work will not begin as scheduled. The weather forecast data as supplied by FAA and Weather Bureau will be utilized for this purpose.

01035-3.5 COMMUNICATION. The Contractor is advised that communication with the Control Tower will required at all times. Any vehicle crossing active airfield pavements shall be in direct contact with the tower. Contractor shall supply their employees with FAA approved radios and monitor ground control frequency at 121.4.

01035-3.6 SECURITY DURING CONSTRUCTION. In addition to the security requirements of the Airport, the Contractor shall provide all of his personnel and suppliers a drawing showing haul routes, restricted areas and any other details pertinent to the nighttime operation. The drawing shall contain a note which states: "ANYONE FOUND IN RESTRICTED AREAS WILL BE PROMPTLY AND PERMANENTLY REMOVED FROM THE JOB." Mark haul routes in the field with flagged stakes as detailed in the plans.

01035-3.7 ASSEMBLING OF EQUIPMENT FOR NIGHTTIME CONSTRUCTION. After checking with the Weather Bureau and the Owner, the Engineer will determine whether the work period can proceed as scheduled. The Contractor shall be sure that all equipment, including stand-by equipment, is in operating condition and ready to go. The Contractor shall assemble all personnel and equipment as close as possible to the work area. Equipment and personnel should be organized so that when notice is given, the Contractor's personnel can proceed immediately to the work area. All plants should be operating and ready to proceed with production.

01035-3.8 TIME. FAA Control Tower's time will be used as standard time for beginning and ending work each night and will also be used in assessment of nightly liquidated damages. The Contractor will be given a 9-hour time window between the hours of 2100 (9 PM) to 0600 (6:00 A.M). This window shall be referred to as a "**WORK PERIOD"**.

## PART 4- CONSTRUCTION TECHNIQUES

01035-4.1 TEST SECTIONS. Prior to beginning of the surface treatment nighttime work, the Contractor is required to construct a test section in accordance with Item P-608-R. In addition to the requirements of P-608-R, the test section shall demonstrate the adequacy of the Contractor's night work equipment and operations.

01035-4.2 TREATMENT OPERATIONS. It is essential that the full width of the runway application be placed each work period.

For newly placed pavement treatment to be opened to traffic, pavement treatment may continue up to the time which will allow the newly placed treatment to cure sufficiently to avoid damage, and the construction team and inspectors to complete their assigned tasks. These tasks include acceptance friction testing, cleaning up the construction area, and moving all materials back to the construction staging and storage area.

~~01035-4.3 TEMPORARY PAVEMENT MARKINGS. For the opening of the runway and connector taxiways at the end of the Continuous Paving Period, interim pavement markings shall be applied at 50% application rate per Spec. P-620, so they do not have to be removed prior to placing the permanent pavement markings. Glass beads are required for interim markings.~~

01035-4.5 WORK AREA CLEAN-UP. Construction debris must be totally removed from the work area prior to it becoming available for aircraft operations. Vacuums or sweepers shall be in operation during most of the work period to minimize final work area cleanup time. The Contractor shall restore the entire pavement surface, lighting block outs and any damaged markings before the pavement is reopened to air traffic. All construction materials that must be left on-site shall be located at the Contractor’s staging and storage area unless otherwise authorized by the Owner. All edge lighting, guide signs and navigational aids shall be functioning in areas opened to aircraft traffic. Areas closed to aircraft operations during the day shall be barricaded and blacked out (edge lights, guide signs).

15 minutes prior to the specified opening time (see section 01035-3.8), the Contractor's Superintendent shall accompany the Engineer and Airport Operations for inspection of the work area for compliance with the provisions of this specification. This includes inspecting haul routes on airfield pavements for Foreign Object Debris (FOD). Contractor must have the necessary manpower and equipment nearby to perform any additional cleanup that may be identified during the inspection.

## PART 5- FAILURE TO OPEN ON TIME

01035-5.1 DELAYS. Due to safety and the significance of tenant operations and flight schedules and costs associated with delays or use of the Terminal Apron by FBO, it is of utmost importance that the pavements scheduled to be opened during the day are opened at the precise time. In addition to Section 80-08 of the General Provisions for failure to complete the project phases within the specified contract phase

duration, there shall be monetary damages associated with failure to complete night work and open traffic areas for daily daytime operations.

| | | | FOR FAILURE TO OPEN ON TIME | | |
|---|---|---|---|---|---|
| **Pavement** | **Phase** | **Description** | **Cost per minute** | **Cost per minute (16-60)** | **Cost per hour (after first hour)** |
| Apron | 2 | 9 hours closure of the Apron | See Ocala Bid Docs | | |

**PART 6 - METHOD OF MEASUREMENT**

01035-7.1 No measurement of this item.

**PART 7- BASIS OF PAYMENT**

01035-8.1 No additional payment will be made for night work.

END OF ITEM 01035

## SECTION 01040- PROJECT COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS: All contract documents and drawings apply to work of this section.

1.2 DESCRIPTION OF WORK: Administrative and supervisory requirements necessary for coordination of work on the project include but are not necessarily limited to the following:

1. Coordination and meetings.
2. Surveys and records or reports.
3. Limitations on use of site.
4. Special reports.
5. General installation provisions.
6. Cleaning and protection.
7. Conservation and salvage.

PART 2 - PRODUCTS (Not applicable)

PART 3 - EXECUTIONS

3.1 COORDINATION AND MEETINGS:

A. General: The Contractor shall prepare a written memorandum on required coordination activities and include such items as required notices, reports and attendance at meetings. Distribute this memorandum to each entity performing work at the Project site. Prepare similar memorandum for separate Contractors where interfacing of their work is required.

B. Preconstruction Conference: A Preconstruction Conference will be scheduled after award of Contract and prior to issuance of a Notice to Proceed. Key Project personnel representing the Prime Contractor and all major Subcontractors will be required to attend this Conference. All other parties involved with this Project, such as the Owner, Engineer, and FAA, will also be represented. All affected parties at the Preconstruction Conference will review the entire Construction Schedule carefully. The Contractor shall prepare a detailed Construction Schedule for review prior to and at the Preconstruction Conference.

C. Coordination Meetings: The Contractor shall hold General Project Coordination Meetings at regularly scheduled times convenient for all parties involved. These meetings may be as often as weekly if required. These meetings are in addition to specified meetings held for other purposes, such as regular Project meetings and special Pre-installation Meetings. Request representation at each meeting by every party currently involved in coordination or planning for the work of the entire Project. Conduct meetings in a manner, which will resolve coordination problems. Record results of the meeting and distribute copies to everyone in attendance and to others affected by decision or actions resulting from each meeting.

D. Progress Meetings: Conduct progress meetings by teleconference weekly and at the project site monthly. Notify the Owner and Engineer of scheduled meeting dates. Coordinate dates of meetings with preparation of the payment request.

E. Attendees: In addition to representatives of the Owner and Engineer, each subcontractor, supplier or other entity concerned with current progress or involved in planning, coordination or performance of future activities shall be represented at these meetings by persons familiar with the project and authorized to conclude matters relating to progress.

F. Agenda: Review and correct or approve minutes of the previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to the current status of the project, and to airport operational safety during construction.

1. Contractor's Construction Schedule: Review progress since the last meeting. Determine where each activity is in relation to the Contractor's Construction Schedule, whether on time or ahead or behind schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be expedited; secure commitments from parties involved doing so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
2. Other: Review the present and future needs of each entity present, including such items as:
    a) Interface requirements.
    b) Time.
    c) Sequences.
    d) Deliveries.
    e) Off-site fabrication problems.
    f) Access.
    g) Site utilization.
    h) Temporary facilities and services.
    i) Hours of work.
    j) Hazards and risks.
    k) Housekeeping.
    l) Quality and work standards.
    m) Change orders.
    n) Documentation of information for payment requests.

G. Reporting: No later than 3 days after each progress meeting date, distribute copies of minutes of the meeting to each party present and to other parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.

H. Schedule Updating: Revise the construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule concurrently with the report of each meeting.

3.2 SURVEYS AND RECORDS/REPORTS: N/A

3.3 LIMITATIONS ON USE OF THE SITE:

A. General: Limitations on site usage as well as specific requirements that impact site utilization are indicated on the drawings and by other contract documents. Schedule deliveries so as to minimize space and time requirements for storage of materials and equipment on site.

B. Waste Disposal: Waste materials shall be disposed of off airport property except as specified otherwise in Contract Documents.

3.4 MEASUREMENT AND PAYMENT: No measurement or payment will be made for work in this section; it will be considered as incidental cost to Mobilization and other items of work.

END OF SECTION 01040

## Section 01070

## Abbreviations and Symbols

PART 1 - GENERAL

DESCRIPTION:

1. Abbreviations that may be used in the Contract Documents including the drawings are listed in this section and have the identifications and meanings shown herein except where otherwise indicated.
2. Symbols are identified on the drawings.
3. Related requirements in other parts of the Contract Documents.
   a. Drawing symbols: Contract drawings
   b. Drawing abbreviations: Contract drawings.

ABBREVIATIONS:

| | |
|---|---|
| AASHTO | American Association of State Highway and Transportation Officials |
| ACI | American Concrete Institute |
| AF | Air Force |
| AGCA | Associated General Contractors of America |
| AI | Asphalt Institute |
| AIA | American Institute of Architects |
| AISC | American Institute of Steel Construction |
| AISI | American Iron and Steel Institute |
| ANG | Air National Guard |
| ANSI | American National Standard Institute |
| API | American Petroleum Institute |
| AREA | American Railway Engineering Association |
| ASTM | American Society for Testing and Materials |
| AWPA | American Wood Preservers Association |
| AWG | American Wire Gage |
| AWS | American Welding Society |
| AWWA | American Water Works Association |
| COE | Corps of Engineers |
| CRSI | Concrete Reinforcing Steel Institute |
| FAA | Federal Aviation Administration |
| FHWA | Federal Highway Administration |
| FS | Federal Specifications |
| MUTCD | Manual on Uniform Traffic Control Devices For Streets and Highways |
| NEMA | National Electrical Manufacturers Association |
| NEC | National Electrical Code |
| NWS | National Weather Service |
| OSHA | Occupational Safety and Health Act |
| PCA | Portland Cement Association |
| UL | Underwriter's Laboratories, Inc. |
| DHPT | Department of Highways and Public Transportation |
| DOT | Department of Transportation |
| HD | Highway Department |

Drawing Abbreviations:

4. The following list is not necessarily all-inclusive; additional abbreviations may be used and defined on the drawings.
5. Some abbreviations used on the drawings may not have the same meaning as that identified in the following list; the non-conforming meanings are identified on the drawings when not self-evident.
6. Some variation in use of periods and capitalization may be found on the drawings.

| ABBRV | MEANING |
|---|---|
| AB | Anchor Bolt |
| ABT | About |
| ABV | Above |
| AC | Advisory Circular (FAA) |
| AC | Alternating current |
| AC | Asphaltic concrete |
| ACFT | Aircraft |
| ADDN | Addition |
| AF | Air Force |
| AGG | Aggregate |
| AIP | Airport Improvement |
| ATC | Air traffic control |
| ATCT | Air traffic control tower |
| AVE | Avenue |
| AVG | Average |
| CULV | Culvert |
| AWOS | Automatic weather observing systems |
| D | Depth |
| DAT | Datum |
| DBL | Double |
| BF | Both faces |
| BLDG | Building |
| BL | Base line |
| BM | Bench mark |
| DEF.ANG. | Deflection angle |
| DEG | Degree |
| BRK | Brick |
| BS | Both sides |
| BTW | Between |
| DIP | Ductile iron pipe |
| DIR | Direction |
| C | Centigrade |
| C TO C | Center to center |
| CA | Cable |
| CB | Catch basin |
| DWG | Drawing |
| CD | Check dam |
| EA | Each |
| EF | Each face |
| EJ | Expansion joint |
| CFS | Cubic feet per second |
| ENGR | Engineer |
| CHK | Check |
| CIP | Cast iron pipe |
| CL | Clear |
| CLR | Clearance |
| CO | Cleanout |
| CONST | Construction |
| CORR | Corrugate |
| EQ | Equal |
| EQUIV | Equivalent |
| EW | Each way |
| EXIST | Existing |
| ILS | Instrument landing system |
| F TO F | Face to face |
| FAR | Federal Aviation Regulation |
| FDN | Foundation |
| FG | Finish grade |
| FIG | Figure |
| FLD | Field |

| ABBRV | MEANING |
|---|---|
| ALIGN | Alignment |
| ALP | Airport layout plan |
| ALS | Approach lighting system |
| ALT | Alternate |
| ANT | Antenna |
| AOA | Air operational area |
| AP | Airport |
| APPROX | Approximate |
| ARCH | Architecture |
| ARP | Airport reference point |
| ASPH | Asphalt Program |
| CPP | Corrugated polyethylene pipe |
| CPS | Cycles per second |
| CTB | Cement treated base course |
| AWG | American wire gage |
| CY | Cubic yard |
| B TO B | Back to back |
| BCN | Beacon |
| BDY | Boundary |
| BET | Between |
| BIT | Bituminous |
| DBST | Double bituminous surface treatment |
| DC | Direct current |
| BOT | Bottom |
| BRL | Building restriction line |
| DEMO | Demolish |
| DI | Drop inlet |
| DIA | Diameter |
| BW | Both ways |
| DIM. | Dimension |
| DIST | Distant |
| DIV | Division |
| DO | Ditto |
| DSGN | Design |
| DTD | Dated |
| CBM | Construction benchmark |
| CEM | Cement |
| CFM | Cubic feet per minute |
| EG | For example |
| EL | Elevation |
| CHAM | Chamfer |
| CHG | Change |
| CI | Cast iron |
| CJ | Construction joint |
| C/L | Center line |
| CMP | Corrugated metal pipe |
| CONC | Concrete |
| CONT | Continue |
| EOP | Edge of pavement |
| EQUIP | Equipment |
| EST | Estimate |
| EXC | Excavate |
| EXT | Exterior |
| F | Fahrenheit |
| FAB | Fabricate |
| FBO | Fixed base operator |
| FF | Finish floor |
| FH | Fire hydrant |
| FIN | Finish |
| FOD | Foreign object damage |

| ABBRV | MEANING |
|---|---|
| FPM | Feet per minute |
| FS | Federal Specification |
| FTG | Footing |
| FWD | Forward |
| GAL | Gallon |
| GEN | General |
| GOVT | Government |
| GPS | Gallons per second |
| GV | Gate valve |
| HP | High point |
| HGT | Height |
| HIRL | High intensity runway lights |
| HOR | Horizontal |
| ID | Inside diameter |
| IFR | Instrument flight rule |
| INCL | Include |
| INV | Invert |
| IP | Iron pipe |
| JFR | Jet fuel resistant |
| JT | Joint |
| KWY | Keyway |
| LAT | Latitude |
| LC | Length of curve |
| LG | Length or long |
| LIRL | Low intensity runway lights |
| LOA | Length over-all |
| LONG | Longitudinal |
| LS | Lump sum |
| LVC | Length of vertical curve |
| MALS | Medium intensity approach lighting system |
| MAX | Maximum |
| MHW | Mean high water |
| PVI | Point of vertical intersection |
| MITL | Medium intensity taxiway lights |
| MLS | Microwave landing system |
| MON | Monument |
| MTL | Metal |
| NAVAID | Navigational aid |
| NO | Number |
| NOTAM | Notice to airmen |
| OA | Over-all |
| OD | Outside diameter |
| OPS | Operations |
| PAPI | Precision approach path indicator |
| PAV'T | Pavement |
| PCC | Portland cement concrete |
| PI | Point of intersection |
| PJF | Premolded joint filler |
| PL | Plate |
| PROJ | Project |
| PSI | Pounds per square inch |
| PT | Point of tangency |
| PVC | Point of vertical curve |
| PVMT | Pavement |
| QC | Quality control |
| R | Radius |
| RW | Runway |
| RCP | Reinforced concrete pipe |
| REF | Reference |
| REINF | Reinforce |

| ABBRV | MEANING |
|---|---|
| FPS | Feet per second |
| FT | Foot or feet |
| FW | Fresh water |
| GA | Gage or Gauge |
| GALV | Galvanize |
| GFE | Government-furnished equipment |
| GPM | Gallons per minute |
| GRD | Ground or grade |
| GVGI | Generic visual glide slope indicator |
| HGR | Hangar |
| HH | Hand hole |
| HMAC | Hot mix asphaltic concrete |
| HWY | Highway |
| IDENT | Identification |
| IN. | Inch |
| INT | Intersect |
| IP | Inlet protection |
| JB | Junction Box |
| JMF | Job mix formula |
| K | Kip (1,000 lb) |
| L | Left |
| LB | Pound |
| LF | Linear feet |
| LIN | Linear |
| LITL | Low intensity taxiway lights |
| LOC | Localizer |
| LP | Low point |
| LT | Light |
| MAINT | Maintenance |
| MATL | Material |
| MH | Manhole |
| MIN | Minimum |
| MIRL | Medium intensity runway lights |
| MISC | Miscellaneous |
| MLW | Mean low water |
| MSL | Mean sea level |
| NATL | National |
| NIC | Not in contract |
| NOM | Nominal |
| NTS | Not to scale |
| OC | On center |
| OFZ | Obstacle free zone |
| ORIG | Original |
| PAR | Precision approach radar |
| PC | Point of curve |
| PFC | Porous friction course |
| PIV | Post indicator valve |
| POL | Petroleum fuel, oil, and/or lubricants |
| PREP | Prepare |
| PROP | Proposed |
| PT | Point |
| PVC | Polyvinyl chloride |
| PVT | Point of vertical tangency |
| QA | Quality assurance |
| R | Right |
| RAIL | Runway alignment indicator lights |
| RC | Reinforced concrete |
| RD | Road |
| REIL | Runway end identifier lights |
| RELOC | Relocated |

| ABBRV | MEANING |
|---|---|
| REP | Repair |
| RET | Return |
| ROC | Run of crusher |
| RPM | Revolutions per minute |
| RR | Railroad |
| SABC | Stabilized aggregate base course |
| SAN | Sanitary |
| SBST | Single bituminous surface treatment |
| SEC | Second |
| SECT | Section |
| SF | Silt fence |
| SHT | Sheet |
| SIM | Similar |
| SP | Space(s) |
| SQ | Square |
| STA | Station |
| STL | Steel |
| SUPP | Supplement |
| SYM | Symbol |
| SY | Square yards |
| T | Thick |
| T&B | Top and bottom |
| TECH | Technical |
| TEMP | Temperature |
| THRU | Through |
| TOC | Top of curb |
| TOL | Tolerance |
| TRANS | Transformer |
| TW | Taxiway |
| UD | Underdrain |
| UGT | Underground telephone line |
| VASI | Visual approach slope indicator |
| VC | Vertical curve |
| VERT | Vertical |
| VS | Versus |
| W/ | With |
| W/O | Without |
| WWF | Welded wire fabric |
| X | By (used between dimensions) |
| YD | Yard |

| ABBRV | MEANING |
|---|---|
| REQD | Required |
| REV | Revise |
| ROW | Right of way |
| RPZ | Runway protection zone |
| S | Slope |
| SALV | Salvage |
| SB | Straw bale |
| SCHED | Schedule |
| SEC Cor | Section corner |
| SEP | Separate |
| SF | Square feet |
| SHLD | Shoulder |
| SK | Sketch |
| SPEC | Specification |
| SS | Stainless steel |
| STD | Standard |
| STR | Structural |
| SWG | Swing |
| SYM | Symmetrical |
| SYS | System |
| T | Ton |
| TBM | Temporary bench mark |
| TEL | Telephone |
| THK | Thick |
| TL | Taxilane |
| TOG | Top of grate |
| TOP | Top of pavement |
| TSD | Temporary slope drain |
| TYP | Typical |
| UG | Underground |
| USGS | United States Geodetic Survey |
| VB | Valve box |
| VCP | Vitrified clay pipe |
| VFR | Visual flight rules |
| W | Water |
| WGT | Weight |
| WL | Water line |
| WP | Working point |
| XSECT | Cross section |

SYMBOLS:

7. As outlined on drawings.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

**END OF SECTION 01070**

## Section 01090

## Regulations and Definitions

PART 1 - GENERAL

1.1 RELATED DOCUMENTS: Drawings, General Provisions, Supplementary Conditions, Specifications, and other contract documents apply to work of this section. See Section 10 of General Provisions for additional definitions.

1.2 DESCRIPTION OF REQUIREMENTS:

A. General: This section specifies procedural and administrative requirements for compliance with governing regulations, codes and standards imposed upon the work. These requirements include obtaining permits, licenses, inspections, releases and similar documentation, as well as payments, statements and similar requirements associated with regulations, codes and standards.

B. The term "Regulations" is defined to include laws, statutes, ordinances and lawful orders issued by governing authorities, as well as those rules, conventions and agreements within the construction industry which effectively control the performance of the work regardless of whether they are lawfully imposed by governing authority or not.

C. Governing Regulations: Refer to General Provisions, Supplementary Conditions, and General Requirements for requirements related to compliance with governing regulations.

1.3 DEFINITIONS:

A. General Explanation: Certain terms used in contract documents are defined in this article. Definitions and explanations contained in this section are not necessarily complete, but are general for the work to the extent that they are not stated more explicitly in another element of the contract documents.

B. General Requirements: Provisions and requirements of Division 1 sections apply to the entire work of the contract and, where so indicated, to other elements which are included in the project.

C. Indicated: The term "indicated" is a cross-reference to graphic representations, notes or schedules on the drawings, to other paragraphs or schedules in the specifications, and to similar means of recording requirements in contract documents. Where terms such as "shown", "noted", "scheduled", and "specified" are in lieu of "indicated", it is for the purpose of helping the reader locate the cross-reference, and no limitation of locations is intended except as specifically noted.

D. Directed, Requested, etc.: Terms such as "directed", "requested", "authorized", "selected", "approved", "required", "accepted", and "permitted" mean "directed by the Engineer", "requested by the Engineer", and similar phrases. However, no such implied meaning will be interpreted to extend the Engineer's responsibility into the Contractor's area of construction supervision.

E. Approved: Where used in conjunction with the Engineer's response to submittals, requests, applications, inquiries, reports and claims by the Contractor, the term "approved" will be held to limitations of the Engineer's responsibilities and duties as specified in General Provisions and Supplementary Conditions. In no case will the Engineer's approval be interpreted as a release of the Contractor from responsibilities to fulfill requirements of contract documents or acceptance of the work, unless otherwise provided by requirements of the contract documents.

F. Project Site: The term "project site" means the space available to the Contractor for performance of the work, either exclusively or in conjunction with others performing other construction as part of the project. The extent of the project site is shown on the drawings.

G. Furnish: The term "furnish" is used to mean "supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, and similar operations."

H. Install: The term "install" is used to describe operations at project site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations."

I. Provide: The term “provides" means "to furnish and install, complete and ready for the intended use."

J. Installer: The "installer" is the "the entity" (person or firm) engaged by the Contractor, its subcontractor or sub-subcontractor for performance of a particular element of construction at the project site, including installation, erection, application and similar required operations. It is a requirement that installers are experienced in the operations they are engaged to perform.

1.4 SUBMITTALS: For the Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, and similar documents, correspondence and records established in conjunction with compliance with standards and regulations bearing upon performance of the work.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

**END OF SECTION 1090**

## SECTION 01150-MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 DESCRIPTION:

A. Method of Measurement and Payment: This section supplements Section 90 of the General Provisions and establishes the method of measurement and payment for work performed under this contract.

B. Unit Price: Except where lump sum is indicated, payment for work performed shall be made on a unit price basis in accordance with the accepted bid and the method of payment provided in the General Provisions.

C. Related Requirements in Other Parts of the Specifications:
1. Bid (Proposal)
2. Agreement.
3. Conditions of the Contract.

D. Related Requirements Specified in Other Sections:
1. Summary of Work - Section 01010.
2. Submittals - Section 01300.
3. Contract Closeout - Section 01700.

E. Work With No Identified Payment Items: No additional payment will be made for items of work for which a separate payment item is not specified or contained in the Bid Schedule; such work shall be deemed incidental to the project and payment for said work shall be considered as included in the various unit bid prices.

1.2 APPLICATIONS FOR PAYMENT:

A. Submittal Schedule: Submit Applications for Payment to the Engineer in accordance with the schedule established by Conditions of the Contract and Agreement between Owner and Contractor.

B. Format and Data Required:
1. Submit Applications for Partial Payment on the form required by Owner with itemized data typed on 8 1/2 x 11 inch white paper continuation sheets.
2. Provide itemized data on continuation sheet: Format, schedules, line items and values: Those of the Schedule of Values accepted by the Engineer.

C. Preparation of Application for Each Progress Payment:
1. Application Form:
   a. Fill in required information, including that for Change Orders executed prior to the date of submittal of application.
   b. Fill in summary of dollar values to agree with the respective totals indicated on the continuation sheets.
   c. Execute certification with the signature of a responsible officer of the contract firm.

2. Continuation Sheets:
    a. Fill in total list of all scheduled component items of work, with item number and the scheduled dollar value for each item.
    b. Fill in the dollar value in each column for each scheduled line item when work has been performed or products stored. Round off values to the nearest dollar, or as provided in the bid.
3. List each Change Order executed prior to the date of submission, at the end of the continuation sheets.
    a. List by Change Order and description, as for an original component item of work.
        1) Submit Applications for Payment to Owner at the times stipulated in the Agreement.
    b. Number: Four copies of each Application.
4. DBE Participation Report- With each pay application, submit report detailing work performed by DBE subcontractors. Use attached sheet.

D. Substantiating Data:
1. When the Owner or Engineer require substantiating data, Contractor shall submit suitable information with cover letter identifying:
    a. Project.
    b. Application number and date.
    c. Detailed list of enclosures.
    d. For stored products: Item number and identification as shown on application.
    e. Description of specific material.
2. Submit one copy of data and cover letter for each copy of application.

E. Preparation of Application for Final Payment:
1. Fill in application form as specified for progress payments.
2. Use continuation sheet for presenting the final statement of accounting as specified in Section 01700 - Contract Closeout.

1.3 CHANGE ORDER PROCEDURES:

A. Format and Data Required:
1. Change Orders shall be prepared and submitted and will be processed in accordance with requirements of General Provisions and Funding Agency Requirements.
2. Engineer will transmit Certificate for Change to Owner and Agency for approval.
3. When Owner and Agency approval is received, Change Order will be included under next partial Application for Payment.

1.4 MEASURES AND WEIGHTS:

A. Contractor Assistance: To aid the Owner in determining all quantities, the Contractor shall, whenever so requested, provide scales, equipment and assistance for weighing or for measuring any of the materials at no cost to the Owner.

B. Weights and Measures: Quantities for payment will be the actual weight or actual measure, and no special or trade or so-termed customary allowances will be made, nor will any material, which is lost or misplaced, be included for payment.

C. Use of Plan Meter: N/A

D. Precedence of Dimensions: Figured dimensions on drawings shall take precedence over measurement by scale, and detailed working drawings are to take precedence over general drawings and shall be considered as explanatory of them and not as indicating extra work.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01150

## DBE PARTICIPATION REPORT
## Terminal Apron Rehabilitation

REPORT NO.: _____ DATE: _____

CONTRACT NO.: _____ OWNER: **City of Ocala**

CONTRACTOR: _____

CONTRACT AMOUNT: _____ % DBE IN BID: _____ TOTAL DBE AMOUNT IN BID: _____
% WBE IN BID: _____ TOTAL WBE AMOUNT IN BID: _____

CURRENT PERIOD FROM: _____ TO: _____

| DBE/WBE SUBCONTRACTOR | DESCRIPTION OF WORK | DBE | WBE | SUPP-LIER | OWNER/ OPER. | SUB-CONTR. | OTHER | SUBCONTR. OR AGREE. AMNT. | EARNINGS FOR THIS PERIOD | EARNINGS TO DATE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | ☐ | ☐ | | | | | | | |
| | | ☐ | ☐ | | | | | | | |
| | | ☐ | ☐ | | | | | | | |
| | | ☐ | ☐ | | | | | | | |
| | | ☐ | ☐ | | | | | | | |

TOTAL VALUE OF WORK PERFORMED BY PRIME CONTRACTOR TO DATE: _____

I HEREBY CERTIFY THAT THE ABOVE STATEMENT IS TRUE AND CORRECT AND SUPPORTING DOCUMENTATION IS ON FILE AND IS AVAILABLE FOR INSPECTION AT ANY TIME.

TOTAL DBE EARNINGS TO DATE: _____

TOTAL WBE EARNINGS TO DATE: _____

DBE % OF WORK PERFORMED TO DATE: _____

_____
SIGNATURE & TITLE

WBE % OF WORK PERFORMED TO DATE: _____

::

## SECTION 01300 - SUBMITTALS

PART 1 - GENERAL

1.1 SUBMITTALS BY CONTRACTOR:

A. Construction Progress Schedule.

B. Certifications as specified in the various sections.

C. Shop Drawings and Project Data as specified in the various sections.

D. Miscellaneous:
1. Certified Payroll.
2. EEO Reports.
3. DBE Expenditure Report.
4. Safety Plan Compliance Document
5. Security Plan.
6. Warranties and Bonds.
7. QC Plan.
8. Equipment Manuals
9. Sales Tax Report
10. Other(s) as required.

1.2 PROGRESS SCHEDULE:

A. Bar-Chart Schedule: Submit a CPM or linear type bar-chart schedule 7 calendar days prior to the preconstruction conference date established for the work. On the schedule, indicate a time bar for each major category or unit of work to be performed at the site, properly sequenced and coordinated with other elements of work. Show completion of the work sufficiently in advance of the date established for substantial completion of work.

B. Phasing: Arrange schedule with notations to show how sequence of work is affected by requirements for phased completion, limitations of continued utilization, non-interrupt able services, use prior to substantial completion, site restrictions, runway and/or taxiway closures, provisions for future work, seasonal variations, environmental control, and similar provisions of total project. Phase I schedule is required at the preconstruction meeting. Each subsequent phasing schedule is required at least two weeks before the phase is to begin. Refer to other sections of the General Requirements and other contract documents for requirements.

C. Distribution: Following the initial submittal to and response by the Engineer, print and distribute progress schedules to the Engineer in pdf format, Owner, separate contractors, principal subcontractors and suppliers or fabricators, and others with a need-to-know schedule-compliance requirement. Post copies in the project meeting room and temporary field office. When revisions are made, distribute updated issues to the same entities and post updated issues in the same locations. Delete entities from distribution when they have completed their assigned work and are no longer involved in the performance of scheduled work.

D. Update: Contractor shall update the schedule monthly for duration of construction.

1.3 SHOP DRAWINGS AND PRODUCT DATA:

A. Scope: Submit shop drawings, certifications, and product data for all products to be incorporated in the work.

B. Shop Drawings Shall:
1. Be original drawings, prepared by the Contractor, subcontractor, supplier, or distributor, which illustrate some portion of the work, showing fabrication, layout, setting, or erection details.
2. Be prepared by a qualified detailer.
3. Identify details by reference to sheet and detail numbers shown on Contract Drawings.
4. Be sheet size 24 in. x 36 in.
5. Be reproduced for submittals on opaque diazole prints or blueprints.

C. Product Data Shall:
1. Include manufacturer's standard schematic drawings. The Contractor shall:
   a. Modify drawings to delete information, which is not applicable to project.
   b. Supplement standard information to provide additional information applicable to project.
2. Include manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations, and other standard descriptive data. The Contractor shall:
   a. Clearly mark each copy to identify pertinent materials or products.
   b. Show dimensions and clearances required.
   c. Show performance characteristics and capacities.

D. The Contractor Shall:
1. Be responsible for all submittals.
2. Review shop drawings and product data prior to submission
3. Verify:
   a. Field measurements.
   b. Field construction criteria.
   c. Catalog numbers and similar data.
4. Coordinate each submittal with the requirements of the work and of the Contract Documents.
5. Notify the Engineer, in writing at time of submission, of deviations in submittals from requirements of the Contract Documents.
6. Begin no work, which requires submittals until the return of submittals with the Engineer's stamp and initials or signature indicating review.
7. After the Engineer's review, distribute copies.

E. Contractor's Responsibilities:
1. Contractor's responsibility for errors and omissions in submittals is not relieved by the Engineer's review of submittals.
2. Contractor's responsibility for deviations in submittals from requirements of the Contract Documents is not relieved by the Engineer's review of submittal unless the Engineer gives written acceptance of specific deviations.

F. Submission Requirements Include:
   1. The shop drawings shall be submitted in sufficient time to allow discussion and correction prior to beginning the work. Work shall not be performed nor materials ordered prior to the review of the drawings except at the Contractor's risk.
   2. Submit pdf copies of all shop drawings after which **a** copy will be returned for correction or marked reviewed as noted. Any drawings returned for correction must be resubmitted with same number of copies as required above.
   3. All submittals must be accompanied by a transmittal letter, in duplicate, containing:
      a. Date.
      b. Project title and number.
      c. Contractor's name and address.
      d. The number of each shop drawing and product data submitted.
      e. Notification of deviations from Contract Documents.
      f. Other pertinent data.
   4. Submittals shall include the following, as applicable:
      a. Date and revision dates.
      b. Project title and number.
      c. The names of:
         1) Engineer.
         2) Contractor.
         3) Subcontractor.
         4) Supplier.
         5) Manufacturer.
         6) Separate detailer when pertinent.
      d. Identification of product or material.
      e. Relation to adjacent structure or materials.
      f. Field dimensions clearly identified as such.
      g. Specification item or section number.
      h. Applicable standards, such as ASTM number or Federal Specification.
      i. A blank space, 5 in. x 5 in., for the Engineer's stamp.
      j. Identification of deviations from the Contract Documents.
      k. Contractor's stamp, initialed or signed, certifying Contractor's review of submittal, verification of field measurements, and compliance with Contract Documents.

G. Resubmission Requirements Include:
   1. Revision of initial drawings as required, and resubmittal as specified for initial submittal.
   2. An indication on the drawings of any changes, which have been made, other than those requested by the Engineer.
   3. On product data resubmittals, include new data as required for initial submittal.

H. Distribution to Others: After review and approval, the Contractor shall distribute copies of shop drawings and product data which carry the Engineer's stamp to others as may be required.

I. Shop Drawings and Product Data:
   1. Submit notarized certifications cosigned by manufacturer/supplier and Contractor for:
      a. Fencing components.
      b. Structural concrete materials.
      c. All other products as required by the drawings, specifications, and Engineer.
   2. Submit shop drawings and product data for:
      a. Concrete and mix designs.
      b. All other products as required by the drawings, specifications, and Engineer.

1.4 MISCELLANEOUS:

A. Equipment Manual: Prepare an Installation, Operation, and Maintenance Manual for all installed items as a part of this contract. This manual shall be a vinyl notebook or pdf with ring bound compilation of manufacturers' instructions and maintenance manuals. Prepare this manual, marking out sections, which do not apply, and present four (4) copies to the Owner through the Engineer after the final inspection is complete. Final payment will not be processed until the Owner has received and accepted the Manual.

B. Weekly Payrolls:
1. In accordance with Section 120 of the General Provisions submit certified weekly payrolls for prime contractor and all subcontractors working at project site.
2. Submit payrolls no later than 7 calendar days after pay period. Payrolls will be considered current if received within 10 calendar days after last workday of payroll workweek. A workweek is the seven-day period between midnight Sunday and midnight the following Sunday.
3. The Contractor is responsible for submission of payrolls by his subcontractors.
4. Submit a typed summary sheet with each payroll submission listing by week when contractor and each subcontractor worked at site.
5. A payroll submission is only required for weeks when Contractor or subcontractor is actually working at the site.

C. EEO Reports:
1. Contractor shall submit Monthly Employment Utilization Report and Annual EEO-1 Report to the appropriate Federal Labor Area Office in accordance with Section 120 of the General Provisions. Submit copy of submittal to Owner for his records.
2. Prime Contractor shall insure that all his first-tier subcontractors submit these reports and shall submit a sworn statement to Owner monthly certifying that all subcontractor reports have been submitted as required.

D. DBE Expenditure Reports: With each application for payment, the Contractor shall submit his DBE expenditure report indicating the name, date and amount disbursed to his DBE subcontractors for the period as well as for the project to date expenditure.

E. Security Plan: At preconstruction conference, submit for approval proposed security plan describing specifically how security will be maintained at each access point and work area by Contractor's forces.

F. Safety Plan Compliance Document (SPCD) - The SPCD details how the contractor will comply with the Construction Safety and Phasing Plan (CSPP). The document indicates how the contractor will comply with the CSPP and provides details that cannot be determined before contract award. The SPCD must include a certification statement by the contractor that indicates it understands the operational safety requirements of the CSPP and it asserts it will not deviate from the approved CSPP and SPCD unless written approval is granted by the airport operator. Also, it will not be possible to determine all safety plan details (for example specific hazard equipment and lighting, contractor’s points of contact, construction equipment heights) during the development of the CSPP. The successful contractor must define such details by preparing an SPCD that the airport operator reviews for approval prior to issuance of a notice-to-proceed.

G. Warranties and Bonds: Submit as specified in Section 01740.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01300

**Section 01400**

**Quality Control Services**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS: Drawings, General Provisions, Supplementary Conditions, Specifications, and other Contract Documents apply to work of this section.

1.2 DESCRIPTION OF REQUIREMENTS:

A. General: Required inspection and testing services are intended to assist in the determination of probable compliance of the work with requirements specified or indicated. These required services do not relieve the Contractor of responsibility for compliance with these requirements or for compliance with requirements of the Contract Documents.

B. Specified Inspection and Tests: Inspection, tests and related actions specified in this section and elsewhere in the Contract Documents are not intended to limit the Contractor's own quality control procedures which facilitate overall compliance with requirements of the Contract Documents.

C. Contractor Quality Control: Requirements for the Contractor to provide quality control services as required by the Engineer, the Owner, and the provisions of this section do not limit governing authorities or other authorized entities.

D. Contractor’s Quality Control Personnel and Laboratory: Contractor shall conform to the requirements of General Provisions Section 100 and all technical specifications as listed in this manual.

1.3 RESPONSIBILITIES:

A. Contractor Responsibilities: Contractor is responsible for his own quality control testing and inspection to insure the quality of his means and methods of construction will produce the specified quality of work, and for any tests and inspections required by regulatory agencies. Costs for these services shall be included in the contract sum. The Contractor may employ and pay an independent agency, testing laboratory or other qualified firm to perform quality control services specified, or qualified contractor personnel may perform these services.

B. The Contractor shall submit for Engineer's approval a Quality Control (QC) Plan delineating his methods for each item requiring inspections, tests, and similar services.

C. Quality Assurance: The Owner will engage and pay for the services of an independent agency to perform inspections and tests of materials for Quality Assurance. The Owner’s quality assurance testing shall in no way relieve the Contractor of the responsibility for providing the quality materials, workmanship and testing required to comply with these specifications.

D. Retest Responsibility: Where results of required inspections, tests, or similar services prove unsatisfactory and do not indicate compliance with the requirements of the Contract

Documents, then retests are the responsibility of the Contractor, and shall be deducted from monies due the Contractor on his monthly pay request, regardless of whether the original test was the Contractor's responsibility. Retesting of work revised or replaced by the Contractor is the Contractor's responsibility, where required tests were performed on original work.

E. Responsibility for Associated Services: The Contractor is required to cooperate with the independent agencies performing required inspections, tests, and similar services. Provide such auxiliary services as are reasonably requested. Notify the testing agency sufficiently in advance of operations to permit assignment of personnel. These auxiliary services include but are not necessarily limited to the following:

1. Providing access to the work.
2. Taking samples or providing assistance with taking samples.
3. Delivery of samples to test laboratories.
4. Security and protection of samples and test equipment at the project site.
5. Surveying services required establishing horizontal and vertical location of tests by Engineer's quality assurance testing laboratory.

1.4 SCHEDULE OF SERVICES: Each specification section identifies principal inspections, tests and similar services required by the Contractor Documents.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 REPAIR AND PROTECTION: Upon completion of inspection, testing, sample-taking, and similar services performed on the work, repair damaged work and test sites to eliminate deficiencies. Protect work exposed by or for quality control service activities, and protect repaired work. Repair and protection is the Contractor's responsibility, regardless of the assignment of responsibility for inspection, testing or similar services.

3.2 MEASUREMENT AND PAYMENT: No measurement or payment will be made for work in this section; it will be considered as incidental cost to Mobilization and other items of work.

**END OF SECTION 01400**

**Section 01530**

**Airfield Temporary Markings and Barricades**

PART 1 - GENERAL

1.1 DESCRIPTION:

A. Provide temporary barricades and as required for safety of aircraft and contractor's work forces, and to maintain use of the various portions of the air operations area during construction.

B. Comply with referenced FAA Advisory Circulars and the safety and staging plan.

C. Related work specified elsewhere:
1. Construction safety: General Provisions and General Requirements.
2. Staging and safety plan: Contract Drawings and General Requirements.

PART 2 - PRODUCTS

2.1 BARRICADES:

A. Low Profile Barricades: Plastic, with alternating diagonal 4" wide reflective white and orange stripes and one battery powered flashing or steady burning red light as shown in the drawings with lights spaced at no more than 10 ft. Low profile barricades shall be no more than 18 inches high and water filled or anchored with sand bags. An alternate type II barricade that meets the requirements in FAA A/C 150/5370-2G may be used when approved by the Engineer.

B. Yodock Water Filled Barriers.

2.2 PAVEMENT PAINT MARKINGS: As specified in Item P-620.

PART 3 - EXECUTION

3.1 GENERAL:

A. Install at locations shown on the drawings and where directed by Engineer. Generally, place barricades a maximum of 25 feet on centers or as indicated on the drawings. Anchor barricades and markers with sandbags or other methods approved by Engineer.

B. Maintain barricades until removal is directed by Engineer. The barricade flasher batteries shall be checked daily to insure that flashers are operational. Replace batteries as required.

C. Remove barricades and markers as directed by Engineer. Repair any damage to pavement or surrounding area caused by markers or barricades.

3.2 MEASUREMENT AND PAYMENT: Work in this section will not be measured. All work and materials covered by this section will be paid for in the lump sum price for Mobilization, Section C-105.

**END OF SECTION 01530**

# SECTION 01600

# MATERIALS AND EQUIPMENT

## PART 1 - GENERAL

### 1.1 REQUIREMENTS:

A. Material, Equipment, and Products Incorporated into the Work shall conform to applicable specifications and standards; shall comply with size, make, type and quality specified, or as specifically approved in writing by the Engineer; and shall not be used for any purpose other than that for which it is designed or is specified.

B. Manufactured and Fabricated Products shall be designed, fabricated, and assembled in accordance with the best engineering and shop practices. Like parts of duplicate units shall be manufactured to standard sizes and gages, to be interchangeable. Products shall be suitable for service conditions. Equipment capacities, sizes and dimensions shown or specified shall be adhered to unless Engineer specifically approves variations in writing.

C. Related Requirements in Other Parts of the Project Manual: Conditions of the Contract.

D. Standardization: Unless otherwise approved by the Engineer, items and equipment of a similar type and function shall be furnished by one manufacturer to standardize on replacement parts, service calls, operation and maintenance matters, and to avoid a division of responsibility among several manufacturers.

E. A single supplier shall be used on principal items of equipment and systems where one or more components are not manufactured by the principal supplier; this is required to place performance and service responsibilities for the entire unit or system with only one supplier or manufacturer.

### 1.2 PRODUCTS SUBSTITUTIONS AND OPTIONS:

A. Products List: Contractor shall submit a complete list of products to be incorporated into the work (with the name of the installing contractor) at the Preconstruction Conference required by these specifications.

B. Contractor's Options:
   1. For products specified only by reference standard, select any product meeting that standard.
   2. For products specified by naming several products or manufacturers, select any one of the products or manufacturers named, which complies with the specifications.
   3. Airport lighting equipment covered by FAA specifications require certification under the Airport Lighting Equipment Certification Program described in Advisory Circular 150/5345-53, latest edition. Select equipment from the Certified Airport Lighting Equipment list appended to the Advisory Circular. An updated list is published biannually.

C. Product Substitutions: Contractor shall submit, prior to the Preconstruction Conference, all requests for product substitutions. No requests for substitutions will be accepted from manufacturers or suppliers.

Submit a separate written request for each product, supported with complete data, with drawings and samples as appropriate, including:

1. Comparison of the qualities of the proposed substitution with that specified.
2. Changes required in other elements of the work because of the substitution.
3. Effect on the construction schedule.
4. Cost data comparing the proposed substitution with the product specified.
5. Any required license fees or royalties.
6. Availability of maintenance service, and source of replacement materials.

Engineer shall be the judge of the equality and acceptability of the proposed substitution. If Engineer determines the proposed substitute product is not "equal" to the specified product, the Contractor must provide the specified product, subject to Engineer's shop drawing review and approval.

No further requests for substitutions will be considered after Preconstruction Conference.

D. Contractor's Representation: A request for a substitution constitutes a representation that Contractor:

1. Has investigated the proposed product and determined that it is equal to or superior in all respects to that specified.
2. Will provide the same warranties or bonds for the substitution as for the product specified.
3. Will coordinate the installation of an accepted substitution into the work and make such other changes as may be required to make the work complete in all respects.
4. Waives all claims for additional costs, under his responsibility, which may subsequently.

E. Engineer's Review: Engineer will review requests for substitutions with reasonable promptness and notify Contractor, in writing, of the decision to accept or reject the requested substitution.

1.3 MANUFACTURER'S INSTRUCTIONS:

A. Printed Instructions: When Contract Documents require that installation of work shall comply with manufacturer's printed instructions, Contractor shall obtain and distribute copies of such instructions to parties involved in the installation, including copies to Engineer. Maintain one set of complete instructions at the job site during installation and until completion and acceptance.

B. Strict Compliance: Handle, install, connect, clean, condition, and adjust products in strict accord with such instructions and in conformity with specified requirements. Should job conditions or specified requirements conflict with manufacturer's instruction, consult with Engineer for further instructions. Do not proceed with work without clear instructions.

C. Complete Compliance: Perform work in accord with manufacturer's instructions. Do no omit any preparatory step or installation procedure unless specifically modified or exempted by Contract Documents.

1.4 TRANSPORTATION AND HANDLING:

A. Deliveries: Contractor shall arrange deliveries of products in accord with construction schedules; coordinate to avoid conflict with work and conditions at the site. Deliver products in undamaged condition, in manufacturer's original containers or packaging, with identifying labels intact and legible. Immediately on delivery, inspect shipments to assure compliance with requirements of contract documents and approved submittals, and that products are properly protected and undamaged.

B. Handling: Provide equipment and personnel to handle products by methods to prevent soiling or damage of products or packaging.

1.5 STORAGE AND PROTECTION:

A. Storage: Store products in accord with manufacturer's instructions, with seals and labels intact and legible. Store products subject to damage by the elements in weather tight enclosures. Maintain temperature and humidity within the ranges required by manufacturer's instructions.

B. Exterior Storage: Store fabricated products above the ground, on blocking or skids; prevent soiling or staining. Cover products, which are subject to deterioration with impervious sheet coverings; provide adequate ventilation to avoid condensation.

Store loose granular materials in a well-drained area on solid surfaces to prevent mixing with foreign matter.

C. Storage Inspection: Arrange storage in a manner to provide easy access for inspection. Make periodic inspections of stored products to assure that products are maintained under specified conditions, and free from damage or deterioration.

D. Protection After Installations: Provide substantial coverings as necessary to protect installed products from damage from traffic and subsequent construction operations. Remove when no longer needed.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01600

## SECTION 01700-CONTRACT CLOSEOUT

PART 1 - GENERAL

1.1 REQUIREMENTS:

A. Comply with requirements stated in conditions of the contract and in specifications for administrative procedures in closing out the work.

B. Related requirements in other parts of the Project Manual including fiscal provisions, legal submittals and additional administrative requirements: Conditions of the contract.

C. Related requirements specified in other sections:
1. Closeout submittals required of trades: The respective sections of specifications.
2. Warranties and Bonds: Section 01740.

1.2 SUBSTANTIAL COMPLETION: The conditions and procedures for inspection and Contractor's, Engineer's and Owner's responsibilities pertaining to substantial completion are as specified in the General Provisions and in the Supplementary Conditions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 FINAL INSPECTION: Shall be in accordance with conditions and procedures outlined in the Contract Documents. When Engineer finds that the work is acceptable under the Contract Documents, he will request required Contractor's Closeout Submittals.

3.2 REINSPECTION FEES: Should Engineer perform re-inspections due to failure of the work to comply with the claims of status of completion made by the Contractor, the Owner will compensate Engineer for such additional services. The Owner will deduct the amount of such compensation from the final payment due the Contractor.

3.3 CONTRACTOR'S CLOSEOUT SUBMITTALS TO ENGINEER:

A. Evidence of compliance with requirements of governing authorities: Certificates of Inspection.

B. Warranties and Bonds: Conform to requirements of Section 01740.

C. Evidence of payment and release of liens: To requirements of General Provisions and Supplementary Conditions.

D. Certificates of Insurance for products and completed operations.

E. Once the Engineer has determined the work is acceptable under the Contract Documents, he will furnish the Contractor appropriate number of copies of the following forms, copies of which are attached:

1. Contractor Warranty Form
2. Affidavit of Payment
3. Affidavit of Release of Liens
4. Final Waiver of Lien
5. Consent of Surety for Final Payment
6. Final DBE Participation Report

3.4 PAYMENT: No separate payment will be made under this section for work described or specified herein.

END OF SECTION 01700

## AFFIDAVIT OF PAYMENT

To All Whom It May Concern:

WHEREAS, the undersigned has been employed by _____ to furnish labor and materials for the **City of Ocala** work, under a contract for the improvement of property described as **Ocala International Airport Terminal Apron Rehabilitation** in the City of **Ocala** County of **Marion**, State of **Florida** of which **the City of Ocala** is the Owner,

NOW, THEREFORE, this _____ day of _____, 202__,

The undersigned, as the Contractor for the above-named Contract pursuant to the Conditions of the Contract hereby certifies that to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services, who have or may have liens against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

ATTACHMENTS:

1. Consent of Surety to Final Payment. (Whenever Surety is involved, Consent of Surety is required.)
2. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
3. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers.
4. Contractor's Affidavit of Release of Liens.

_____
CONTRACTOR (Name of sole ownership, corporation or partnership)

_____
(Signature of Authorized Representative)

(Affix corporate seal here)

_____
TITLE

## AFFIDAVIT OF RELEASE OF LIEN

To All Whom It May Concern:

WHEREAS, the undersigned has been employed by _____ to furnish labor and materials for **City of Ocala** work, under a contract for the improvement of property described as **Ocala International Airport Terminal Apron Rehabilitation** in the **City of Ocala** County of **Marion**, State of **Florida** of which **the City** is the Owner,

NOW, THEREFORE, this _____ day of _____, 202__,

The undersigned, as the Contractor for the above-named Contract pursuant to the Conditions of the Contract hereby certifies that to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services, who have or may have liens against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

ATTACHMENTS:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers.

_____
SUBCONTRACTOR (Name of sole ownership, corporation or partnership)

_____
(Signature of Authorized Representative)

(Affix corporate seal here)

_____
TITLE

## FINAL WAIVER OF LIEN

To All Whom It May Concern:

WHEREAS, the undersigned has been employed by _____ to furnish labor and materials for **City of Ocala** work, under a contract for the improvement of property described as **Ocala International Airport Terminal Apron Rehabilitation** in the **City of Ocala** County of **Marion**, State of **Florida** of which **the City** is the Owner,

NOW, THEREFORE, this _____ day of _____, 202__.

for and in consideration of the sum of _____ Dollars paid simultaneously herewith, the receipt whereof is hereby acknowledged by the undersigned, the undersigned does hereby waive and release any lien rights to, or claim of lien with respect to and on said above-described premises, and the improvements thereon, and on the monies or other considerations due to become due from the owner, on account of labor, services, material, fixtures, apparatus of machinery heretofore or which may hereafter be furnished by the undersigned to or for the above-described premises by virtue of said contract.

_____

CONTRACTOR (Name of sole ownership, corporation or partnership)

_____

(Signature of Authorized Representative)

(Affix corporate seal here)

_____

TITLE

## CONTRACTOR WARRANTY FORM

Project Name **Terminal Apron Rehabilitation**

Location **Ocala International Airport**

Owner **City of Ocala**

We, **CONTRACTOR**, Contractor for the above referenced project, do hereby warrant that all labor and materials furnished and work performed are in accordance with the Contract Documents and authorized modifications thereto, and will be free from defect due to defective materials or workmanship for a period of one year from Date of Substantial Completion. This warranty commences on

_____
(Date of Substantial Completion Affixed by Engineer)

and expires on :

_____
(One Year From Commencement Date)

This warranty covers that portion of the project described below:

Should any defect develop during the warranty period due to improper materials, workmanship or arrangement, the defect shall, upon written notice by the Owner, be made good by the Undersigned at no expense to the Owner.

Nothing in the above shall be deemed to apply to work which has been abused or neglected by the Owner.

_____
Date

_____
CONTRACTOR (Name of sole ownership, corporation or partnership)

_____
(Signature of Authorized Representative)

(Affix corporate seal here)

_____
TITLE

## CONSENT OF SURETY FOR FINAL PAYMENT

Project Name **Terminal Apron Rehabilitation**

Location **Ocala International Airport**

Owner **City of Ocala**

Type of Contract **Construction**

Amount of Contract $_____

In accordance with the provisions of the above-named contact between the Owner and the Contractor, the following named surety:

**SURETY**

on the Payment Bond of the following named Contractor:

**CONTRACTOR**

hereby approves of final payment to the Contractor, and further agrees that said final payment to the Contractor shall not relieve the Surety Company named herein of any of its obligations to the following named Owner: as set forth in said Surety company's bond:

**OWNER**

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand and seal this _____ day of _____ 202___.

_____
SURETY

_____
(Signature of Authorized Representative)

(Affix corporate seal here)

_____
TITLE

IF SIGNED BY ATTORNEY-IN-FACT, POWER OF ATTORNEY MUST BE ATTACHED.

## Section 01710

## Cleaning and Disposal

PART 1 - GENERAL

1.1 DESCRIPTION: Contractor shall execute cleaning during progress of the work and at completion of the work as required by the General Provisions and other specification documents.

1.2 DISPOSAL REQUIREMENTS:
Conduct cleaning and disposal operations to comply with all local, state and federal codes, ordinances, regulations, and anti-pollution laws; and with airport and construction safety requirements.
All disposals of waste materials shall be off airport property at locations approved by the Engineer.

Contractor shall be responsible for arranging for and obtaining off-site disposal areas, including payment for all costs associated with such disposal.

1.2 SUBMITTALS: Prior to beginning work, submit a Disposal Plan for the satisfactory disposal of all waste materials and debris.

Submit two (2) copies of the disposal site owner's written permission for such disposal with Disposal Plan.

PART 2 - PRODUCTS

2.2 MATERIALS:

A. Use only those cleaning materials which will not create hazards to health or property and which will not damage surfaces.
B. Use only those cleaning materials and methods recommended by manufacturer of the surface material to be cleaned.
C. Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

PART 3 - EXECUTION

3.3 CLEANING: Execute periodic cleaning to keep the work, site and adjacent properties free from accumulations of waste materials, rubbish, windblown debris, and dust resulting from construction operations. Provide on-site containers for the collection of waste materials, debris and rubbish. Remove waste materials, debris and rubbish from the site periodically and dispose of at approved locations.

3.4 BARRIERS AND PROTECTION: Protect existing structures and vegetation from cleaning and disposal operations as required.

3.5 DUST CONTROL: Schedule cleaning and other operations so that dust and other contaminants resulting there from will not fall on wet or newly coated surfaces, will not damage or contaminate aircraft, and will not unduly affect the work of other airport tenants.

3.6 DISPOSAL OF DEBRIS AND WASTE MATERIALS:

A. If permitted by Owner and local, state and federal regulations, Contractor may dispose of combustible materials on-site by burning. Unguarded fires will not be permitted. Burning will be restricted as follows:
    a. Burning of poison oak, poison ivy or other plants of similar nature will be prohibited.
    b. Tires or other combustible waste material shall not be used to augment burning.
    c. Burning operations that may in any way be hazardous to air operations will not be allowed.
B. Non-combustible and waste materials and ashes shall be removed from the site and disposed of in accordance with the Disposal Plan.

3.7 PAYMENT**:** No separate payment will be made under this section for work described or specified herein.

**END OF SECTION 01710**

## Section 01720

## Project Record Document

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS:

A. Contractor shall maintain at the site as specified herein for the Owner one record copy of:
   1. Drawings.
   2. Specifications.
   3. Addenda.
   4. Change orders and other modifications.
   5. Engineer field orders or written instructions.
   6. Approved shop drawings, product data and samples.
   7. Field test records.
   8. Laboratory test records.

B. Related requirements in other parts of the Project Manual: Conditions of the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 MAINTENANCE OF DOCUMENTS AND SAMPLES:

A. Store record documents and samples in Contractor's field office apart from documents used for construction.
B. File documents and samples in accordance with data filing format of the Construction Specifications Institute - MASTERFORMAT.
C. Maintain documents in a clean, dry, legible condition and in good order. Do not use record documents for construction purposes.
D. Make documents and samples available at all times for inspection by Engineer.

3.2 RECORDING:

A. Stamp or label each document "PROJECT RECORDS" in 3/4-inch letters.
B. During daily progress of the work, the job superintendent for the Contractor shall record information concurrently with construction progress.
C. Do not conceal any work until required information is recorded.
D. Drawings: Legibly mark to record actual construction in color codes designated by the Engineer.
E. All field data for record information shall be obtained by a surveyor who is a Registered Land Surveyor (RLS) in the state of Florida.
F. Record Information includes but is not limited to the following:
   1. Depths of various elements of foundation in relation to finish reference datum.
   2. Horizontal and vertical locations of pavements and underground utilities and appurtenances, referenced to permanent surface improvements or finish reference datum.
   3. Field changes of dimension and detail.
   4. Changes made by field order or by change order.
   5. Details not on original contract drawings.
   6. Extent and dimensions of pavement removal.
   7. Any other changes in the plans.
   8. Storm drainage system construction:

a. Exact distance between all catch basins, manholes, points of intersection, and line terminals or headwalls.
b. The invert elevation of the end of all pipes, stub outs, and headwalls.
c. The rim (top of frame) or top of grate and invert elevations of all manholes, catch basins, and other structures.

9. Electrical construction identification:
   a. Exact distance between all manholes and points of intersection.
   b. Exact size and location of duct bank or cable run and what circuits it feeds.
   c. Exact location of any lines abandoned in place.
   d. Exact location, type, and size of runway and taxiway edge lights, centerline lights, and/or touchdown zone lights.
   e. Rim and invert elevation of all manholes and duct banks.
   f. Depth of cover on direct burial lines.
   g. Locations of cable splices.
   h. Location and description of signs.

G. Specifications and addenda: Legibly mark each section to record:
   1. Manufacturer, trade name, catalog number, and supplier of each product and item of equipment actually installed.
   2. Changes made by field order or by change order.

H. All horizontal control dimensions shall be to the nearest tenth of a foot. Elevations shall be to the nearest one-hundredth of a foot.
I. Set one (1) Concrete Benchmark and document location and elevation data.

3.3 SUBMITTAL:

A. Upon completion of the work as described in Section 01010 “Scope of Work”, the Contractor shall submit on hard copy and electronic media (AutoCAD 2020 or later from Autodesk), record drawings of all work completed to the Engineer. Record drawings shall include all elevation data points which shall be submitted in 3-d format and shall include, as a minimum the northing, easting, elevation (all in feet) and descriptor for each data point. The Engineer will provide Contractor with AutoCAD drawings of all original construction drawings. Any design information in the drawings that has been changed shall be marked with a strike thru and as-built information shall be added such that the drawings contain the original design and the as-built configuration.

B. At the close of the job and prior to receipt of final payment, the Contractor shall deliver to the Engineer for the Owner two complete hard copy sets of Record Documents meeting the requirements of 3.3(A) plus the number of sets required by all regulatory agencies. The final Pay Request will not be processed until receipt and acceptance by the owner and all regulatory agencies of the record drawings for the project. **All hard copy submittals shall be signed and sealed by a Professional Land Surveyor licensed in the State of Florida.**

C. Accompany submittal with transmittal letter containing:
   1. Date.
   2. Project title and number.
   3. Contractor's name and address.
   4. Title and number of each record document.
   5. Signature of Contractor or his authorized representative.

3.4 PAYMENT: Payment shall be made at the contract lump sum price for “Project Record Documents.”

Payment will be made under:

**Item 01720 Project Record Documents -- per lump sum**

**END OF SECTION 01720**

## SECTION 01740-WARRANTIES AND BONDS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS:

A. Contractor shall:
1. Compile specified warranties and bonds.
2. Compile specified service and maintenance contracts.
3. Co-execute submittals to verify compliance with Contract Documents.
4. Review submittals to verify compliance with Contract Documents.
5. Submit to Engineer for review and transmittal to Owner.

B. Related requirements in other parts of the Project Manual:
1. Bid Bonds: Instructions to bidders.
2. Performance Bond and Payment Bond: Conditions of the contract.
3. General warranty of construction: Conditions of the contract.

C. Related requirements specified in other sections:
1. Warranties and Bonds required for specific products: Each respective section of specifications.
2. Provisions and duration of Warranties and Bonds: The respective section of specifications, which specifies the product.
3. Contract closeout: Section 01700
4. Equipment Manuals: Section 01300

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SUBMITTAL REQUIREMENTS:

A. Assemble warranties, bonds, and service and maintenance contracts, executed by each of the respective manufacturers, suppliers, and subcontractors.

B. Number of original signed copies required: Two (2) each.

C. Table of Contents: Neatly typed, in orderly sequence. Provide complete information for each item.
1. Product or work item.
2. Firm, with name of principal, address, and telephone number.
3. Scope.
4. Date of beginning of warranty, bond, or service and maintenance contract.
5. Duration of warranty, bond, or service and maintenance contract.
6. Provide information for Owner's personnel:
   a. Proper procedure in case of failure.
   b. Instances, which might affect the validity of warranty or bond.

7. Contractor, name of responsible principal, address, and telephone number.

3.2 TIME OF SUBMITTALS:

A. Submit within ten (10) days after date of substantial completion, and prior to final request for payment.

B. For items of work where acceptance is delayed materially beyond the date of substantial completion, provide updated submittal within ten (10) days after acceptance, listing the date of acceptance as the start of the warranty period.

3.3 SUBMITTALS REQUIRED: Submit warranties, bonds, and service and maintenance contracts as specified in the respective sections of specifications.

3.4 PAYMENT: No separate payment will be made under this section for work described or specified herein.

END OF SECTION 01740