



CITY OF ATLANTA

Kasim Reed
Mayor

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DEPARTMENT OF PROCUREMENT
Adam L. Smith, Esq., CPPO, CPPB, CPPM, CPP,
CIPC, CISCC, CIGPM, CPPC
Chief Procurement Officer
asmith@atlantaga.gov

July 22, 2016

Dear Proponents:

Re: FC-8927, Airfield Markings (On-Call) at Hartsfield-Jackson Atlanta International Airport

Attached is one (1) copy of **Addendum No. 1**, which is hereby, made a part of the above-referenced project.

For additional information, please contact Mr. Philippe Jefferson, Contracting Officer at (404) 865-8565, or via e-mail at pejefferson@atlantaga.gov.

Sincerely,

Adam L. Smith

ALS:pej



Addendum No. 1

Re: FC-8927, Airfield Markings (On-Call Contractor) Services at Hartsfield-Jackson Atlanta International Airport

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This Addendum forms a part of the Request for Proposal and modifies the original solicitation package and any prior addenda as noted below.

- **Responses to questions received from interested proponents.**

Proposals are due **Thursday, August 4, 2016**, must be time stamped in no later than 2:00 p.m., and must be delivered to the address below:

Adam L. Smith, Esq., CPPO, CPPB,
 CPPM, CPP, CIPC, CISCC, CIGPM
 Chief Procurement Officer
 Department of Procurement
 55 Trinity Avenue, S.W.
 Suite 1900
 Atlanta, Georgia 30303

**** All other information remains unchanged ****



Addendum No. 1

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Acknowledgment of Addendum No. 1

Proponents must sign below and return this form with Proposals to the Department of Procurement, 55 Trinity Avenue, City Hall South, Suite 1900, Atlanta, Georgia 30303 as acknowledgment of receipt of this Addendum.

This is to acknowledge receipt of Addendum No. 1 for **FC-8927, Airfield Markings (On-Call Contractor) Services at Hartsfield-Jackson Atlanta International Airport** on this the _____ day of _____, 2016.

Legal Company Name of Proponent

Signature of Authorized Representative

Printed Name

Title

Date



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The following questions and /or clarifications were requested by various proponents:

1.	QUESTION	Builders Risk/Installation Floater: It is not usual for Hi-Lite to have to provide this coverage, as our work generally does not include 'renovations, repairs or equipment being installed'. Will the Owner waive the coverage due to the nature of our work?
	RESPONSE	<i>Risk Management will remove the Builder's Risk/Installation Floater requirement. Please see the revised Exhibit D, attached to this addendum.</i>
2.	QUESTION	Evaluation of Financial Information Section 12: We have never seen a requirement like this in connection with Insurance. a. Please clarify it applies in connection with the Insurance. b. Which carrier(s) would have to provide this information and what is the format required?
	RESPONSE	<i>The insurance requirements are separate from the Financial Requirements. As stated in Section 12 of the solicitation the Proponent must provide their financial statements and complete Form 4 Financial Disclosure Form. If awarded the contract the proponent will be required to provide evidence of insurance in the form of an Acord.</i>
3.	QUESTION	Section 4.6 of the services contract states that the prime contractor must subcontract all work and not self-perform any work, unless authorized by the city in writing. If the prime contractor specialized in airfield markings work and can document experience and qualifications, will the city allow the prime to self-perform the work in this contract?
	RESPONSE	<i>This section is not applicable to this On-Call Construction Contract. Please review the revised Section 4.6, attached to this addendum.</i>
4.	QUESTION	Section 6.5.2 of the services contract states that the Kelly Blue Book rates will be used to establish pricing for equipment costs. Some of the equipment utilized in the maintenance of airfield markings cannot be found in the blue book because it is highly specialized, and in some cases, custom built for this application. How will allowable equipment costs be calculated in this case?
	RESPONSE	<i>This section is not applicable to this On-Call Construction Contract. Please review the revised Section 6.5.2, attached to this addendum.</i>
5.	QUESTION	At the pre-bid conference, it was stated that there was a 15% SBO requirement for this contract, but any work accomplished by the protégé company would not count toward this percentage. Is this correct?
	RESPONSE	<i>The statement made at the Pre-bid conference was made in error. As per language on page #5 of Appendix A in the RFP the certified protégé subcontractor will apply towards the goals.</i>



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THE FOLLOWING ARE CHANGES AND/OR MODIFICATIONS TO THE PROPOSAL DOCUMENTS

1. REVISION TO PART 1, INFORMATION & INSTRUCTIONS TO PROPONENTS

Delete: Section 1. **"SERVICES BEING PROCURED:** This Request for Proposals ("RFP") from qualified proponents ("Proponent" or "Proponents") by the City of Atlanta ("City"), on behalf of its Department of Aviation ("DOA"), seeks to procure the following services ("Services"): Airfield Markings (On- Call Contractor) Services at Hartsfield-Jackson Atlanta International Airport ("Airport") on a Task Order basis. The Services associated with this RFP are contemplated to primarily involve repair/replacement services to various airside and landside locations throughout the Airport", in its entirety.

Replace with: Section 1. ***"SERVICES BEING PROCURED: This Request for Proposals ("RFP") from qualified proponents ("Proponent" or "Proponents") by the City of Atlanta ("City"), on behalf of its Department of Aviation ("DOA"), seeks to procure the following services ("Services"): Airfield Markings (On- Call Contractor) Services at Hartsfield-Jackson Atlanta International Airport ("Airport") on a Task Order basis. The Services associated with this RFP are contemplated to primarily involve repair/replacement services to various airside locations throughout the Airport."***

Delete: Section 4.6. "The AMA Escorting subcontractor shall have a minimum of three (3) years experiences providing AMA escorting services to airports, municipalities, or similar entities", in its entirety.

Replace with: Section 4.6. ***"The AMA Escorting subcontractor shall have a minimum of one (1) years experiences providing AMA escorting services to airports, municipalities, or similar entities."***

2. REVISION TO PART 2, CONTENTS OF PROPOSAL/REQUIRED SUBMITTALS

Delete: Section 2.3.6. "The AMA Escorting subcontractor shall have a minimum of three (3) years experiences providing AMA escorting services to airports, municipalities, or similar entities", in its entirety.

Replace with: Section 2.3.6. ***"The AMA Escorting subcontractor shall have a minimum of one (1) years' experience providing AMA escorting services to airports, municipalities, or similar entities."***



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Delete: Section 2.4. **"KEY PERSONNEL/RESUMES:** Identify the individuals the Proponent will use to fill the following positions: Project Manager, Project Superintendent, Safety Manager, Foreman, Equipment Operator, Helper, AMA Escort", in its entirety.

Replace with: Section 2.4. **"KEY PERSONNEL/RESUMES: Identify the individuals the Proponent will use to fill the following positions: Project Manager, Project Superintendent, Safety Manager, Foreman, Equipment Operator, Helper. "**

3. REVISION TO EXHIBIT "A", GENERAL SCOPE OF SERVICES

Delete: Section 1.0. **"PROJECT DESCRIPTION:** This is an On Call Contract to provide Airfield Pavement Markings On-Call Contractor Services in support of DOA Operations and DOA Maintenance efforts to maintain compliance with FAA Part 139 certification. The work will be assigned by Task Order(s) and will take place on the Airfield and various landside locations in both movement and non-movement areas", in its entirety.

Replace with: Section 1.0. **"PROJECT DESCRIPTION: This is an On Call Contract to provide Airfield Pavement Markings On-Call Contractor Services in support of DOA Operations and DOA Maintenance efforts to maintain compliance with FAA Part 139 certification. This work will be assigned by Task Order(s) and will take place on the Airport Property, inside the Airport Operations Area (AOA)."**

4. REVISION TO EXHIBIT "A.1", BASE EMPLOYEE CLASSIFICATIONS/FULLY BURDENED HOURLY BILLING RATES

Delete: Item g. "AMA Escort", in its entirety.

5. REVISION TO EXHIBIT "D", INSURANCE & BONDING REQUIREMENTS

Delete: Exhibit "D", Insurance & Bonding Requirements, in its entirety.

Replace with: Revised Exhibit "D", Insurance & Bonding Requirements, attached to this Addendum No 1.



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6. ADDITION TO PART 5, FORMS OF SERVICE AGREEMENT

Delete: Section 4.6, "Limits on Self-Performed Work", in its entirety.

Delete: Section 6.5, "Costs of Other Materials and Equipment, Temporary Facilities and Related Items", in its entirety.

Add: EXHIBIT "H", SPECIAL PROVISIONS, attached to this Addendum No 1.



**REVISED EXHIBIT “D”
INSURANCE & BONDING REQUIREMENTS
FC-8927 AIRFIELD MARKING (ON-CALL CONTRACTOR)**

A. Preamble

The following requirements apply to all work under the Agreement. Compliance is required by Contractor. **To the extent permitted by applicable law, the City of Atlanta (“City”) reserves the right to adjust or waive any insurance or bonding requirements contained in this Exhibit D and applicable to the Agreement.** For all purposes hereunder, including but not limited to any Additional Insured Endorsements, the City shall include the City of Atlanta, its elected officials, officers, agents, and employees.

1. Evidence of Insurance and Bonding Required Before Work Begins

No work under the Agreement may be commenced until all insurance and bonding requirements contained in this Exhibit D, or required by applicable law, have been complied with and evidence of such compliance satisfactory to City as to form and content has been filed with City.

At the time Contractor submits to City its executed Agreement, Contractor must satisfy all insurance and bonding requirements required by this Exhibit D and applicable by law, and provide the required written documentation to City evidencing such compliance. In the event that Contractor does not comply with such submittal requirements within the time period established by the solicitation documents applicable to the Agreement, City may, in addition to any other rights City may have under the solicitation documents applicable to the Agreement or under applicable law, make a claim against any proposal security provided by Contractor.

If the Contractor is an entity (e.g., corporation, limited liability company, etc.) or a partnership (e.g., general partnership, limited partnership, joint venture, etc.) then Contractor shall tender insurance certificates and bonds in the name of Contractor’s entity or partnership as the primary insured.

2. Project Number & Name

The project number (FC-8927) and name (Airfield Marking (On-Call Contractor)) must be referenced in the description section of the insurance certificate.

3. Minimum Financial Security Requirements

All companies providing insurance required by this Exhibit D must meet certain minimum financial security requirements. These requirements must conform to the ratings

published by A.M. Best & Co. in the current Best's Key Rating Guide - Property-Casualty. Upon request, the Contractor must submit the ratings for each company to the City.

For all agreements, regardless of size, companies providing insurance or bonds under the agreement must meet the following requirements:

- i) Best's Rating not less than A-;
- ii) Best's Financial Size Category not less than Class VII;
- iii) Companies must be authorized to conduct and transact insurance contracts by the Insurance Commissioner, State of Georgia; and
- iv) All performance and payment bonds must be underwritten by a U.S. Treasury Circular 570 listed company.

If the issuing company does not meet these minimum requirements, or for any other reason is or becomes unsatisfactory to City, City will notify Contractor in writing. Contractor must promptly obtain a new policy or bond issued by an insurer acceptable to City and submit to City evidence of its compliance with these conditions.

Contractor's failure to comply with all insurance and bonding requirements set forth in this Exhibit D and applicable to the Agreement will not relieve Contractor from any liability under the Agreement. Contractor's obligations to comply with all insurance and bonding requirements set forth in Exhibit D and applicable to the Agreement will not be construed to conflict with or limit Contractor's indemnification obligations under the Agreement.

4. Insurance and Bonds Required for Duration of Contract

All insurance and bonds required by this Exhibit D must be maintained during the entire term of the Agreement, including any renewal or extension terms, and until all work has been completed to the satisfaction of City.

5. Notices of Cancellation & Renewal

Contractor must, notify the City of Atlanta in writing at the address listed below by mail, hand-delivery or facsimile transmission, within two (2) business days of any notices received from any insurance carriers providing insurance coverage or surety providing bonds under this Agreement and Exhibit D (including any attachments thereto) that Contractor receives concerning the proposed cancellation, or termination of coverage or security:

Enterprise Risk Management
68 Mitchell St., Suite 9100
Atlanta, GA 30303
Facsimile No. (404) 658-7450

Confirmation of any mailed notices must be evidenced by return receipts of registered or certified mail.

Contractor shall provide the City with evidence of required insurance and bonding prior to the commencement of this Agreement, and, thereafter, with a certificate and/or bonds evidencing renewals or changes thereto at least fifteen (15) days prior to the expiration of previously provided certificates and/or bonds.

6. Agent Acting as Authorized Representative

Each and every agent acting as Authorized Representative on behalf of a company affording coverage under this Agreement shall warrant when signing the Acord Certificate of Insurance that specific authorization has been granted by the Companies for the Agent to bind coverage as required and to execute the Acord Certificates of Insurance as evidence of such coverage.

In addition, each and every agent shall warrant when signing the Acord Certificate of Insurance that the Agent is licensed to do business in the State of Georgia and that the Company or Companies are currently in good standing in the State of Georgia.

7. Certificate Holder

The **City of Atlanta** must be named as certificate holder. All notices must be mailed to the attention of **Enterprise Risk Management at 68 Mitchell Street, Suite, 9100, Atlanta, Georgia 30303.**

8. Additional Insured Endorsements – Form CG 20 26 07 04 or Equivalent

City shall be covered as an Additional Insured, as its interest may appear, under any and all insurance required pursuant to this Agreement, and such insurance shall be primary and non-contributory with respect to the Additional Insured. However, this requirement does not apply to Workers' Compensation or Professional Liability Insurance. Additional insured status extending to ongoing and completed operations per CG 20 26 07 04 or their carrier equivalent shall be provided. Additional insured status shall be maintained following project completion equivalent to the statute of repose in the State of Georgia.

NOTE: A copy of the Additional Insured Endorsement or its equivalent must be forwarded to the Risk Management Department as soon as practicable but in no event more than ten (10) days after the effective date of the Agreement.

9. Mandatory Sub-Contractor/Consultant Compliance

Contractor must require and ensure that all of Contractor's subcontractors operating under the Agreement at any level are sufficiently insured and bonded.

10. Self-Insured Retentions, Deductibles or Similar Obligations

Any self-insured retention, deductible or similar obligation will be the sole responsibility of the Contractor.

11. Waiver of Subrogation in favor of the City of Atlanta

The certificates of Commercial General Liability Insurance and Commercial Automobile Liability Insurance tendered by the Contractor must clearly indicate a waiver of subrogation in favor of the City of Atlanta.

B. Workers' Compensation and Employer's Liability Insurance

Contractor must procure and maintain Workers' Compensation and Employer's Liability Insurance in the following limits to cover each employee who is or may be engaged in work under the Agreement:

Workers' Compensation	Statutory
Employer's Liability:	
Bodily Injury by Accident/Disease	\$1,000,000 each accident
Bodily Injury by Accident/Disease	\$1,000,000 each employee
Bodily Injury by Accident/Disease	\$1,000,000 policy limit

C. Commercial General Liability Insurance

Contractor must procure and maintain Commercial General Liability Insurance on Form CG 00 00 01 (or equivalent) in an amount not less than **\$1,000,000 per occurrence subject to a \$2,000,000 aggregate**. The following indicated extensions of coverage must be provided:

- Contractual Liability
- Broad Form Property Damage
- Premises Operations
- Personal Injury
- Advertising Injury
- Fire Legal Liability
- Independent Contractor/Consultants/SubContractor/Consultants
- Products – Completed Operations
- Additional Insured Endorsement (primary & non-contributing in favor of the City of Atlanta)
- Waiver of Subrogation in favor of the City of Atlanta

D. Commercial Automobile Liability Insurance

Contractor must procure and maintain Automobile Liability Insurance in an amount not less than **\$1,000,000** Bodily Injury and Property Damage combined single limit. The following

indicated extensions of coverage must be provided:

- Owned, Non-owned & Hired Vehicles
- Waiver of Subrogation in favor of the City of Atlanta

If Contractor does not own any automobiles in the corporate name, non-owned vehicle coverage will apply and must be endorsed on either Contractor's personal automobile policy or the Commercial General Liability coverage required under this **Exhibit D**.

Additionally, in accordance with Section 22-181(b) of Chapter 22, Code of Ordinances of the City of Atlanta, all vehicles requiring access to the restricted areas of the airport must be covered by an automobile liability policy in the minimum amount of **Ten Million Dollars (\$10,000,000)** combined single limit for personal injury and property damage. The \$10,000,000 limit of liability will also be imposed on any parties transporting workers, materials and/or equipment to the Airport site from parking lots or similar facilities.

E. Excess or Umbrella Liability Insurance

- May be used to achieve minimum general and auto liability limits
- Coverage must follow form with primary policy
- Coverage must be as broad as primary policy

F. Professional Liability /Errors & Omissions Insurance

Contractor/Consultant shall procure and maintain during the life of this contract Professional Liability/Errors & Omissions Insurance in an amount of **\$2,000,000** per occurrence and annual aggregate. The policy will fully address the Contractor/Consultant's professional services associated with the scope of work contained in this document. The policy will include at least a three year Extended Reporting Provision.

G. Performance and Payment Bonds

At, or prior to, Contractor's execution of the Agreement, Contractor must, at its own expense, deliver to the City a Performance and a Payment Bond each in an amount equal to one hundred percent (100%) of one (1) year value of the contract naming the City as co-obligee and issued by a surety company or companies in such form as approved by the City's Attorney as attached hereto at **Exhibit D-1**. The bonds must be renewed annually at one hundred percent (100%) of the then current year's value as specified in the Agreement. The bonds must be kept in full force and effect during the Term and any renewals. In lieu of a Performance Bond, Contractor may submit to the City an Irrevocable Letter of Credit in a form acceptable to City, in its sole discretion.

1. In addition, prior to the commencement of any construction work by or at the instance of Tenant within the Premises, Contractor must provide to City a fixed price contract or contracts for all work to be performed within the Premises, which contract(s) shall be insured by, and Tenant shall provide to the City, a Payment Bond in an amount equal to one hundred percent (100%) of the work specified in such contract(s) and acceptable to the City's Chief Financial Officer and in such form as approved by the City Attorney. The Payment Bond shall name the City as the Obligee, shall meet the other requirements of the Agreement, and shall remain in full force and effect until: (i) all Tenant Improvements are completely and fully paid for, (ii) certificates of occupancy have been issued for the Premises, (iii) final lien waivers have been obtained from all contractors and subcontractors; (iv) the City has approved the final construction of the Tenant Improvements; and (v) the applicable limitations period under Georgia law for the commencement of a suit against the Payment Bond has lapsed.
2. The bonds must be issued as security for the faithful performance of this Agreement, including, maintenance and guarantee provisions, its covenants, stipulations and agreements of the Agreement, the payment of all bills and obligations arising out of the performance of its obligations under the Agreement, which bills and obligations might or would in any manner become a claim against the City, and guaranteeing all services and work set forth in the Agreement against faulty materials or poor workmanship, or both, in accordance with any warranty provisions of the Agreement.
3. The surety company issuing the bonds must give the Aviation General Manager notice in writing by registered mail at least sixty (60) days prior to an anniversary date of the bonds of its intention not to renew or to terminate the bonds.
4. A Corporate Surety that is satisfactory to City, authorized to do business in the State of Georgia, and listed in the latest issue of U.S. Treasury Circular 570 must execute the bonds.
5. An agent of the Surety residing in the State of Georgia must execute the bonds. The date of the Bonds must be the same as the date of execution of the Agreement by City. The Surety must appoint an agent for service in Atlanta, Georgia, upon whom all notices must be shown on each Bond. The person executing the Bonds on behalf of the Surety must file with the Bonds a general power of attorney unlimited as to amount and type of Bonds covered by such power of attorney, and certified to by an official of said Surety. The Bonds must be on forms provided by City. The Agreement will not be executed by City until after the approval of the Bonds by City's Attorney.
6. For additional information regarding Payment and Performance Bonds, please see **Exhibit D-1** attached hereto and incorporated herein by this reference.

EXHIBIT H: SPECIAL PROVISIONS

SECTION SP-4 TRAFFIC CONTROL

01) DESCRIPTION

- a) This work consists of providing maintenance of traffic control devices to insure roadway and Taxiway/Apron safety by providing for safe orderly and predictable movement of traffic through all adjacent public roads and the areas to be constructed. All traffic controls devices shall be as required by the *Manual on Uniform Traffic Control Devices (MUTCD)*, latest edition, FAA Advisory Circular-AC No: 150/5370-2F, *Operational Safety On Airports During Construction*, Special Provision Section 150-Traffic Control of the *State of Georgia Standard Specifications for the Construction of Transportation Systems*, State, and local agencies, or as shown by the construction drawings, whichever is more stringent.
- b) Contractor shall submit to Engineer for his approval a comprehensive plan detailing how traffic will be maintained under this Contract. Construction affecting traffic shall not commence until this plan is approved.

02) MATERIAL

- a) Material shall conform to the requirements of Special Provision Section 150-Traffic Control of State of Georgia Standard Specifications for the Construction of Transportation Systems, and the FAA Advisory Circular listed above.
- b) The Contractor will furnish Low Profile Barricades including any lights to be used in various phases during construction as shown in the Plans. Contractor shall be responsible for any repairs or replacement needed during contract.
- c) Polyethylene Plastic Low-Profile Barricades designed to FAA AC 150/5370-2F specifications and performance standards. Alternate white barricades with orange high reflective grade tape, with orange barricaded with white high reflective grade tape. Fill barricades with water to capacity. Low Profile Barricades are approximately 6"(H) X 6"(W) X 6'(L).
- d) 1-flashing red solar powered hazard light on each barricade. Lights shall meet the following requirements: Size -12"(H) X 8"(W) X 3"(O). Flashing rate of 60+/- times/minute, 4 Watt Solar Panel Power, 1200MA Nickel Hyride Cells Energy, L.E.D. (20,000 Hours Life) illumination, overcharge protection built in, three nights use with 6 hours sun charge, and On/Off switch – automatic on dusk, off dawn.

3) CONSTRUCTION

- a) Construction shall conform to the requirements of Special Provision Section 150-Traffic Control of the State of Georgia Standard Specifications for the Construction of Transportation Systems.
- b) The Contractor shall install Low Profile Barricades to adequately delineate the Runway and/or Taxiway closure area(s). The Contractor shall be required to ensure that the barricade lights are working at all times.
- c) The Contractor shall interlock barricades across each hold bar as applicable and at the ends of the work area across the Taxiway/Runway to prevent aircraft entrance and improper vehicle movement. Specific location for placement of barricades will be approved or directed by an Airside Operations Representative each night prior to start of work.
- d) Contractor shall have brick or sand bags available to secure barricades as needed or as required by the Construction Manager and/or Airside Operations.
- e) Contractor shall provide 24-hour contact information for emergency maintenance of airport hazard lighting and barricades. Contact information must be filed with the DOA prior to placing barricades or lights

- f) Spacing of barricades must be such that a breach is physically prevented barring deliberate act.
- g) Lights must be mounted on barricades and spaced at no more than 10 feet apart. Lights must be operational between sunset to sunrise and during periods of low visibility.

4) METHOD OF MEASUREMENT

- a) The activities to maintain traffic control as specified shall be paid as lump sum. The relocation of items used to perform the maintenance of traffic throughout the various phases of construction shall be included in this item.

5) BASIS OF PAYMENT

- a) Payment will be made at the proposed lump sum price to complete maintenance of traffic. The price shall be full compensation for performing maintenance of traffic as required by the Contract, including furnishing all materials as required, labor, equipment, tools and incidentals to complete the item.

END OF SECTION SP-4

SECTION SP-9 AS-BUILTS

1) DESCRIPTION

- a) General Do not use as-built plans and specifications for construction purposes. Protect from deterioration and loss in a secure, fire-resistive location, provide access to record documents for the Owner's reference during normal working hours.
- b) Record Drawings Maintain a clean, undamaged set of blue or black line white-prints of Contract Drawings and Shop Drawings. Mark the set to show the actual installation varies from the work as originally shown. Mark whichever drawing is most capable of showing conditions fully and accurately. Where shop drawings are used, record a cross-reference at the corresponding location on the Contract Drawings. Give particular attention to concealed elements that would be difficult to measure and record at a later date.
 1. Mark record sets with red erasable pencil. Use colors to distinguish between variations in separate categories of the Work.
 2. Mark new information that is important to the Owner, but was not shown on Contract Drawings or Shop Drawings.
 3. The Contractor shall provide AutoCAD drawing of the markings placed in the field. The drawing shall contain the as-built line-work and shall include the survey points described below.
 4. Unless noted otherwise, survey shots are to be taken on the centerline of markings.
 5. Contractor shall verify widths of all striping, as well as gaps between markings that contain multiple stripes.
 6. As-built Survey Provide one reproducible copy of topographic survey of the project area after construction has been completed bearing the seal of the Professional Land Surveyor in responsible charge. Provide survey results electronically as described in AutoCAD .dwg format (AutoCAD 2009, or earlier). Data should be provided in 3D format (northing, easting, elevation or Y, X, Z) on the ATL Airport Grid and gathered at a minimum as follows:
 - (a) Taxiway Centerline
 - a. PCs, PTs, and shots every 25 feet on curves
 - b. Shots every 200 feet on tangents
 - (b) Taxiway Edge Markings
 - a. Shots every 200 feet on tangents
 - b. Shots every 25 feet on curves
 - c. Shots on each PI of doglegs.
 7. Note related change order numbers where applicable.
 8. Organize record drawing sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates, and other identification on the cover of each set.
 9. Upon completion, submit the complete set of record drawings, complete stamped survey as-built drawing, and electronic CAD survey files to the Owner for the Owner's records.

- c) Record Specifications Maintain one complete copy of the Project Manual (Specifications and Contract), including addenda, and one copy of other written construction documents such as Change Orders and modifications issued in printed form during construction. Mark these documents to show variations in actual Work performed in comparison with the text of the Specifications and modifications. Give particular attention to substitutions, selection of options and similar information on elements that are concealed or cannot otherwise be readily discerned later by direct observation. Note related record drawing information and Product Data.
1. Upon completion of the Work, submit record specifications to the Owner for the Owner's records.
- d) Record Product Data Maintain one copy of each Product Data submittal. Mark these documents to show variations in actual work performed in comparison with information submitted. Include variations in products delivered to the site, and from the manufacturer's installation instructions and recommendations. Give particular attention to concealed products and portions of the Work which cannot otherwise be readily discerned later by direct observation. Note related Change Orders and mark-up of record drawings and Specifications.
1. Upon completion of mark-up, submit complete set of record Product Data to the Owner for the Owner's records.
- e) Miscellaneous Record Submittals Refer to other Specification Sections for requirements of miscellaneous record-keeping and submittals in connection with actual performance of the Work. Immediately prior to the date or dates of Substantial Completion, complete miscellaneous records and place in good order, properly identified and bound or filed, ready for continued use and reference. Submit to Owner for the Owner's records.
- 2) BASIS OF PAYMENT
- a) Payment for As-Builts shall be made after the Engineer of Record verifies that the Contractor's as-built documentation and survey meets the requirements specified herein.

END OF SECTION SP-9

SECTION SP-10 AIRCRAFT MOVEMENT AREA (AMA) ESCORTING

1) DESCRIPTION

- a) This item is intended to compensate the Contractor for all costs incurred in providing aircraft movement area (AMA) escorting and airfield crossing guards as set forth in these specifications. All references to AMA escorts in this specification shall include airfield crossing guards.
- b) When the Contractor is working in the AMA, adjacent to or on active runways and/or taxiways, the Contractor shall arrange for airfield escorting services with an independent Department of Aviation approved contractor ("Escorting Contractor"). The Escorting Contractor must be a separate business entity from the Contractor and must be engaged solely for the purpose of providing escorting services under the Contract and may not provide any other services under the Contract. Contractor may not subcontract with other business entities providing additional services under the Contract unrelated to escort services for the purpose of also providing escort services. For example, if Contractor has engaged the services of ABC Company to provide paving under the Contract, it may not use ABC Company to provide escort services.
- c) Only DOA-certified AMA escorts shall provide airfield escorting of construction vehicles to and from the construction site. The Contractor shall be responsible for employing sufficient personnel to conduct airfield escorting. Failure to have sufficient AMA-certified airfield escorts on-duty may delay or cancel construction activities located on the AMA.
- d) Prequalification. AMA Escorts shall possess one of the following: (1) previously or currently hold an ATL AMA badge for more than 1 year; (2) previously or currently hold an ATL Crossing Guard License; (3) employed or previously employed by the FAA as an Air Traffic Controller at ATL; (4) hold a current FAA Pilots License for more than 1 year; or (5) perform airfield safety inspections in compliance with FAA Advisory Circulars or through State Certification Program for more than 1 year. Regardless of qualifications, a candidate will be disqualified if the candidate has been (1) involved in an airfield "surface incident" or "runway incursion" as defined by the FAA; (2) received a suspension or revocation of their AMA or Airfield Crossing Guard License; or (3) is unable to pass the examination.
- e) Training. The company contracted to provide airfield escorting shall submit potential candidates to the Construction Manager for DOA-Airside Operations Division review and acceptance. Sufficient time should be taken into consideration for qualification review and training. The approved airfield escorting company shall schedule training for potential AMA escorts through the DOA-Airside Operations training course prior to providing airfield escorting duties.

The AMA escort vehicle drivers shall be trained and familiar with requirements of Hartsfield-Jackson Atlanta International Airport within the SIDA and AMA and communicating on both the City radio frequency and the FAA tower frequencies: Each candidate shall successfully pass a written exam accessing their knowledge of the aircraft movement area prior to receiving AMA driving privileges and receive an AMA badge prior to entering the AMA.

- f) Badging Requirements. AMA Escorts shall be badged and trained in accordance with Exhibit "G", Airport Security Requirements for security and ramp driver safety training and receive an ATL SIDA badge with a driving ("D") and escorting ("E"), if applicable, designation. Airfield Crossing Guards shall meet same requirements.

g) Aircraft Movement Area Escort Vehicles. AMA escort vehicles shall have:

1. A high-intensity yellow strobe light mounted on the uppermost part of the vehicle structure in accordance with FAA AC 150/5210-50;
2. Continuous two-way ground control radio communications with the Air Traffic Control Tower; and
3. A City Motorola radio to escort vehicles and equipment to and from the sites. See Section SP-1 for description of City radios.

All airfield escort vehicles shall be in compliance for insurance, marking and access in accordance with this contract. The airfield escort vehicle shall be distinctively marked and not mistaken for other construction support vehicles.

h) Ground Control Radios. The Contractor shall be required to obtain and maintain 2-way radios equipped to operate on the ground control frequency used by the FAA's Air Traffic Control Tower. This frequency shall be monitored at all times by the contractor's vehicle escorts while controlling construction traffic across aircraft movement areas to assure proper coordination and safety. The Contractor shall supply one ground control radio for each escort vehicle. Contractor shall utilize Atlanta Communications to purchase and program radios.

These radios shall become the property of the City upon completion of the project. Contractor shall submit ground control radios to the Engineer. The Contractor is advised that normal delivery time is approximately 4-6 weeks.

Ground control radios shall meet the following requirements:

1. Radio units for communication with the FAA Air Traffic Control Tower shall be ICOM-A 110 or approved equal. Radio should be specifically designed for vehicle mounting and providing a minimum of 30 watts PEP transmit power from a 12 volt power supply. Radios must be capable of operating at full output across the aviation band spectrum. Power connections to the radio must be modified for use with a 12 volt vehicle power outlet.
 2. External antennas must be a vehicle magnetic mount type with the antenna element tuned specifically for efficient operation across the aviation band spectrum. The antenna unit must include sufficient coaxial cable length to allow connection to the radio in a normal installation position inside the vehicle and must include a connector compatible with the antenna connector on the chosen radio unit. Contractor must supply one antenna unit per radio purchased.
- i) Prior to conducting any airfield escorting duties, DOA will establish an approved construction haul route to be utilized by the escorts to escort the contractors' vehicles to the construction site. Escorts may not alter, amend or create construction haul routes. Escorts are not authorized to close any portion of the AMA for any purpose. All requests shall be made through the project's Construction Manager.
- 2) BASIS OF PAYMENT
- a) Partial payments will be determined on a task order basis:

SECTION P-621- PAVEMENT MARKINGS AND MARKING REMOVAL

1) DESCRIPTION

This section shall consist of the preparation and painting of markings and stripes, placing polymer concrete micro overlays, and the removal of existing markings, on the surface of Runway, Taxiways, Aprons and Roadways applied in accordance with these specifications and at the locations shown on the plans, or as directed by the City.

2) MATERIALS

- (a) **Materials Acceptance.** The Contractor shall furnish manufacturer's certified test reports for materials shipped to the project. The certified test reports shall include a statement that the materials meet the specification requirements. The reports can be used for material acceptance or the Engineer may perform verification testing. The reports shall not be interpreted as a basis for payment. The Contractor shall notify the Engineer upon arrival of a shipment of materials to the site. All material shall arrive in sealed containers for inspection by the Engineer. Material shall not be loaded into the equipment until inspected by the Engineer.
- (b) **Paint.** Paint shall be Waterborne meeting the requirements of Federal Specification TT-P-1952E, Type II, furnished in White- 37925, Yellow- 33538 or 33655, Red- 31136, and Black -37038, in accordance with Federal Standard No. 595. The color pink shall be made using one part Red-31136 to two parts White -37925.

03} CONSTRUCTION METHODS

- (a) **Weather Limitations.** The painting shall be performed only when the existing surface is dry and clean, when the atmospheric temperature is at least 45°F and rising, when the pavement surface temperature is at least 5°F above the dew point, and when the weather is not excessively windy, dusty, or foggy. The suitability of the weather will be determined by the City.

Do not perform work when the atmospheric temperature is below 40 degrees F or when the pavement is covered with snow or ice.

Markings shall not be applied when the wind speed exceeds 10 knots unless windscreens are used to shroud the material guns.

- (b) **Equipment.** All equipment for the work shall be approved by the City and shall include the apparatus necessary to properly clean the existing surface, a mechanical marking machine and such auxiliary hand-painting equipment as may be necessary to satisfactorily complete the job.

- 1) The mechanical marker shall be an approved atomizing spray-type marking machine suitable for application of traffic paint. It shall produce an even and uniform film thickness at the required coverage and shall be designed so as to apply markings of uniform cross sections and clear-cut edges without running or spattering and within the limits for straightness set forth herein. When needed, a dispenser shall be furnished which is properly designed for attachment to the mechanical marker and suitable for dispensing the required quantity of reflective media. The equipment shall be capable of applying markings from 6 to 36 inches in a single pass with uniform coverage and capable of applying two colors simultaneously without applying glass beads to the black markings.

- 2) Suitable adjustments shall be provided on the sprayer(s) of a single machine or by

furnishing additional equipment for painting the width required.

- (c) Removal Methods. Pavement markings shall be removed from indicated areas by methods acceptable to the Engineer, such as sandblasting, waterblasting, or beadblasting, that cause negligible damage to existing pavements, surface texture, joint sealants, or other airfield appurtenances as determined by the City. The method for protecting existing joint sealants during marking removal shall be submitted to the Engineer for approval prior to beginning work on this item. The Contractor shall repair at his expense any damage to the pavement, surface texture, sealant, or appurtenances caused by the removal work. Methods to repair damages shall be acceptable to the City.
- 1) Contractor shall be aware that existing paint to be removed may contain lead. Safety precautions shall be taken for environmental concerns. Contractor shall test the area prior to submitting a bid for this condition.
 - 2) Any removal method that causes objectionable dust, contaminated water runoff, or other such hazard or nuisance shall be controlled by means approved by the City that eliminate such causes of objection or its use will not be allowed.
- (d) Preparation of Surfaces. Immediately before application of the paint or PCMO, the existing surface shall be dry and entirely free from dirt, grease, oil, acids, laitance or other foreign matter which would reduce the bond between the coat of paint and the pavement. The surface shall be thoroughly cleaned by waterblasting as required to remove all dirt, laitance and loose materials. After the cleaning operations, vacuuming or other City-approved cleaning methods shall be performed to ensure the surface is clean and free of grit or other debris left from the cleaning process.
- 1) During blasting, dust and debris will be controlled and contained by vacuums or other approved processes.
 - 2) Obliterating pavement markings by masking with paint, bituminous material, surface treatments or other cover material will not be an acceptable removal method.
 - 3) Paint shall not be applied to new Portland cement concrete pavement until the concrete in the areas to be painted is clean of curing material and/or removal of existing markings. Sandblasting or high pressure water shall be used to remove curing material and laitance from the concrete surfaces.
- (e) Layouts and Alignment. Suitable layouts and lines of proposed stripes shall be spotted in advance of the paint application. Control points shall be spaced at such intervals as will insure accurate location of all markings. All stripes shall be accurately surveyed and layout accomplished well in advance of painting and shall be approved by the City prior to applying paint.
- 1) The Contractor shall provide an experienced technician to supervise the location, alignment, layout, dimensions and application of the paint.
- (f) Application. Markings shall be applied at the locations and to the dimensions and spacing indicated on the plans or as specified. Paint shall not be applied until the layouts, indicated alignment and the condition of the existing surface have been approved by the City. Pavement shall be dry to the satisfaction of the City prior to application of paint.
- 1) The paint shall be mixed in accordance with the manufacturer's instructions before application. The paint shall be thoroughly mixed and applied to the surface of the pavement with the marking machine at its original consistency without the addition

of thinner. The paint shall be applied uniformly by suitable equipment at the following rates:

<u>Pavement Type</u>	<u>Paint Application Rate</u>
Portland Cement Concrete	115 Square Feet per Gallon
Freshly Sealcoated Asphalt Concrete	75 Square Feet per Gallon
Other Asphalt Concrete	115 Square Feet per Gallon

- 2) The reflective media shall be distributed to the surface of the pigmented binder immediately after application and imbedded at the rate and depth as required to provide adhesion and reflection. A dispenser shall be furnished that is properly designed for attachment to the marking machine and suitable for dispensing glass beads. Type III glass beads shall be applied at the rate of 10 pounds per gallon of paint for white and yellow markings. Type III glass beads shall not be used for red, pink, or black markings.

Red and pink markings shall utilize Type I, gradation A glass beads. Type I, gradation A glass beads shall be applied at the rate of 5 pounds per gallon of paint for red or pink markings.

- 3) All painting shall be performed to the satisfaction of the City by competent and experienced equipment operators, laborers, and artisans in a neat and workmanlike manner. The edges of the markings shall not deviate from a straight line more than in 50 feet and marking dimensions and spacing shall be within the following tolerances

Dimension and Spacing	Tolerance
36inches	+/- Y:z inch
Greater than 36 inches to 6 feet	+/-1 inch
Greater than 6 feet to 60 feet	+/- 2 inches
Greater than 60 feet	+/- 3 inches

- 4) A period of 7 days shall elapse between placement of a bituminous surface course or seal coat and application of the paint. Upon application to properly prepared surfaces after curing, the paint shall not bleed excessively, blister, peel, curl, or discolor.
- 5) New concrete pavement shall be allowed to cure for 7 days before removing curing compound and installing permanent markings. Temporary markings shall be applied at a 50% application rate. Glass beads shall not be required for temporary markings.
- 6) The Contractor shall furnish certified test reports for the materials shipped to the project. These reports shall not be interpreted as a basis for final acceptance. The City shall be notified upon arrival of a shipment of paint to the job site for inspecting and sampling of the materials. The Contractor shall make an accurate accounting of the paint materials used in the accepted work. All emptied containers shall be returned to the storage area for checking by the Engineer. The containers shall not be removed from the airport or destroyed until authorized by the Engineer.

- (g) Protection. After application of the paint, all markings shall be protected while the paint is drying. The fresh paint shall be protected from injury or damage of any kind. The Contractor shall be directly responsible and shall erect or place suitable warning signs, flags or barricades, and protective screens or coverings as required. All surfaces shall be protected from disfiguration by spatter, splashes, spillage, drippings of paint or other

materials. Contractor's failure to protect fresh paint shall result in repainting at contractor's expense.

- (h) Cleanup. The Contractor shall remove from the site all debris, waste, and by-products generated by the surface preparation and application operations to the satisfaction of the Engineer. Loose or unadhered reflective media shall be removed from the site to the satisfaction of the Engineer. The Contractor shall dispose of these wastes in strict compliance with all applicable state, local, and Federal environmental statutes and regulations.
- (i) Defective Workmanship or Material. When any material not conforming to the requirements of the specifications or plans has been delivered to the project or incorporated in the work, or any work performed is of inferior quality, such material or work shall be considered defective and shall be corrected as directed by the City, at the expense of the Contractor. Any area of paint that chips or peels or wears excessively in respect to the overall work shall be repainted within the warranty period. Any areas that do not have a continuous uniform coverage of beads will need to be remarked at the Contractor's expense.

4) METHOD OF MEASUREMENT

- (a) The payment for pavement striping and marking removal shall be the number of square feet of paint removed.

5) BASIS OF PAYMENT

- (a) Payment shall be made at the Contract unit price per square foot for striping or marking removal. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools and incidentals necessary to complete the item.
- (b) Payment shall be made at the Contract unit price per square foot for pavement striping, and marking, including the surface prep prior to paint application, paint and the reflective media. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools and incidentals necessary to complete the item.

TESTING AND MATERIAL REQUIREMENTS

Test and short title
1952E1
Federal STD 595

Material and short title TI-B-1325C1 TI-P-

Beads (Glass Spheres) Retro-reflective

Paint, Traffic and Airfield Marking, Waterborne Colors used in Government

Procurement

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END OF SECTION P-621