

DETAILED SPECIFICATIONS

P-620-1.1 This shall consist of the painting of numbers, markings, and stripes on the surface of the runways, taxiways, and aprons, in accordance with these specifications and at the locations shown on the plans, or as directed by the Engineer.

P-620-2.1 MATERIALS ACCEPTANCE

Materials Acceptance: The contractor shall furnish manufacturer's certified test reports for the material 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.

P-620-2.2 PAINT

Paint shall be Waterborne in accordance with the requirements of paragraph 620-2.2 of AC 150-5370-10E.

Paint shall be furnished in White – 37925, Yellow – 33538 or 33655, Red – 31136, and Black – 37038 in accordance with Federal Standard No. 595.

Waterborne black paint should be used to outline a border at least 6 inches (150mm) wide around markings on all light colored pavements.

- a. **WATERBORNE** Paint shall meet the requirements of Federal Specification TT-P-1952E, Type II.

P-620-2.3 REFLECTIVE MEDIA

Glass beads shall meet the requirements of Federal Spec. TT-B-1325D, Type I, Gradation A. or Type III. Glass beads shall be treated with adhesion promoting and/or flotation coatings as specified by the manufacturer of the paint. They shall be utilized on the final coat application only.

CONSTRUCTION METHODS

P-620-3.1 WEATHER LIMITATIONS

The painting shall be performed only when the surface is dry and when the surface temperature is at least 45 degrees F (7 degrees C) and rising and the pavement surface temperature is at least 5 degrees F (2.7 degrees C) above the dew point. Painting operations shall be discontinued when the surface temperature exceeds the maximum surface temperatures based on paint manufacturer's recommendations, and when conditions become excessively windy, dusty, or foggy. The suitability of the weather will be determined by the Engineer.

P-620-3.3 EQUIPMENT

Equipment shall include the equipment necessary to properly clean the existing surface, a paint truck with paint and bead dispensing systems and such auxiliary hand-painting equipment as may be necessary to satisfactorily complete the job.

The paint truck shall be an approved self-contained, self-propelled airless spray-type machine suitable for the application of airfield paint. The paint truck shall be capable of applying airfield paint in widths of between four (4) inches and three (3) feet on one pass at a speed of at least 5mph. This paint truck shall be sufficiently mobile and maneuverable to allow application of straight lines or curves in a true arc. It shall produce an even and uniform film thickness at the required coverage rate and shall apply markings of uniform cross sections and clear-cut edges without running or spattering and without over spray. This equipment shall have a computer to monitor and document amounts of material used during and after the marking project. This documentation may be used to verify quantities as specified in this specification.

All equipment must be able to clear from the area in 5 minutes or less in the event of an aircraft emergency. All mobile equipment must have proper identification, appropriate beacons and/or flags, and radio communication capability or an escort with radio communication capability.

P-620-3.3 PREPARATION OF SURFACE

Immediately before application of the paint, the surface shall be dry and free from dirt, grease, oil, laitance, or other foreign material that would reduce the bond between the paint and the pavement. The area to be painted shall be cleaned by sweeping and blowing or by other methods as required to remove all dirt, laitance, and loose materials. New concrete pavement areas must be cleaned of curing compound prior to painting. Shot-blasting or high-pressure water shall be used to remove curing materials. Existing markings or stripes which are to be removed, shall be obliterated by hi-pressure water (minimum 20,000 psi), shot-blasting, or grinding. The Engineer must pre-approve the equipment and method used for grinding. Any method allowed must remove 95% of the marking or stripe on 100% of the area and not cause damage to the pavement.

P-620-3.4 LAYOUT OF MARKINGS

The proposed markings shall be laid out in advance of the paint application. Control points shall be spaced at such intervals as will insure accurate location of all markings. Beginning points of reference shall be provided by the Engineer.

The Contractor shall provide an experienced technician to supervise the location, alignment, layout dimensions and application of the paint. Certification will be required to show that the Contractor's technician has performed runway and taxiway layout at three (3) airports similar to the ones involved in this project. This certification should be submitted with the proposal.

The Contractor must have a working knowledge and a complete copy of AC No: 150/5340-1K (Standards for Airport Markings). A copy of this AC must be on the job site at all times.

P-620-3.5 APPLICATION

Paint shall be applied at the locations and to the dimensions and spacing shown on the plans. Paint shall not be applied until the layout and condition of the surface has been approved by the Engineer.

The edges of the markings shall not vary from a straight line more than ½ inch (12mm) in 50 feet (15m) and marking dimensions and spacing shall be within the following tolerances:

Dimensions and Spacing	Tolerance
36 inches (910 mm) or less	+/- ½ inch (12 mm)
Greater than 36 inches to 6 feet (910 mm to 1.85 m)	+/- 1 inch (25 mm)
Greater than 6 feet to 60 feet (18.5 m to 18.3 m)	+/- 2 inches (51 mm)
Greater than 6 feet to 60 feet (18.5 m to 18.3 m)	+/- 3 inches (76 mm)

The paint shall be mixed in accordance with the manufacturer's instructions and applied to the pavement with a marking machine at the rate(s) shown in Table 1. The addition of thinner will not be permitted. A period of at least three (3) days shall elapse between placement of a bituminous surface course or seal coat and application of the paint.

TABLE 1. APPLICATION RATES FOR PAINT AND GLASS BEADS

Paint Type	Paint Square feet per gallon ft ² /gal	Glass Beads, Type I Gradation A Lbs./gal	Glass Beads, Type III Lbs./gal
Waterborne	115 maximum	7 minimum	10 minimum

Glass beads shall be evenly distributed upon the marked areas immediately after the application of the paint. A dispenser shall be furnished which is properly designed for attachment to or a part of the marking machine and suitable for dispensing of glass beads at the rate specified. A dispenser shall be furnished which is air operated, computer monitored and properly designed for attachment to the marking machine. Glass beads shall not be utilized with black paint. Glass beads shall adhere to the cured paint or all operations shall cease until corrections are made.

All emptied containers shall be returned to the paint storage area for checking by the Engineer. The containers shall not be removed from the airport or destroyed until authorized by the Engineer.

CONTRACTORS EXPERIENCE

P-620-4.0 The contractor shall submit, with the bid documents, a list of at least three (3) airport marking projects of similar layout and magnitude as this, which has been successfully completed within the last 2 years. The list shall include the name and phone number of the airport and/or project engineer or supervisor for our reference. Bids will be considered non-responsive without this item.

METHOD OF MEASUREMENT

P-620-4.1 The quantity of runway and taxiway markings to be paid for shall be the number of square feet of painting performed in accordance with the specifications and accepted by the Engineer.

BASIS OF PAYMENT

P-620-5.1 Payment shall be made at the respective contract price per square foot for runway and taxiway painting and 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.

NOTES FOR SET UP CALCULATION:

Set Up for Rubber/Paint Removal/Airfield Painting includes all of the square feet combined; not to include reflective media or paint enhancements.

Setup for Airfield Crack Sealing includes total linear feet only.

Setup for Airfield Surface Treatment includes total square yards only.

AWARD:

It is the intent of Jefferson County to award this contract to one vendor.

**DETAILED SPECIFICATIONS
AND BID FORM**

COMPANY NAME: _____

Item	Unit	Unit Cost
Airfield Rubber Removal		
Airfield Rubber Removal	sf	
Airfield Friction Testing	ea	
Airfield Surface Preparation (Clean Existing Markings)		
Airfield Surface Preparation (0-5,000 sf)	sf	
Airfield Surface Preparation (5,001-20,000 sf)	sf	
Airfield Surface Preparation (>20,001)	sf	
Airfield Paint Removal		
Airfield Paint Removal- Grinding (0-5,000 sf)	sf	
Airfield Paint Removal- Grinding (5,001-20,000 sf)	sf	
Airfield Paint Removal- Grinding (>20,001)	sf	
Airfield Paint Removal- Waterblasting (0-5,000 sf)	sf	
Airfield Paint Removal- Waterblasting (5,001-20,000 sf)	sf	
Airfield Paint Removal- Waterblasting (>20,001)	sf	
Airfield Paint Removal- Combination Method (0-5,000 sf)	sf	
Airfield Paint Removal- Combination Method (5,001-20,000 sf)	sf	
Airfield Paint Removal- Combination Method (>20,001)	sf	
Airfield Painting: P-620		
Airfield Painting- White (0-5,000 sf)	sf	
Airfield Painting- White (5,001-20,000 sf)	sf	
Airfield Painting- White (> 20,001 sf)	sf	
Airfield Painting- Yellow (0-5,000 sf)	sf	
Airfield Painting- Yellow (5,001-20,000 sf)	sf	
Airfield Painting- Yellow (> 20,001 sf)	sf	
Airfield Painting- Black (0-5,000 sf)	sf	
Airfield Painting- Black (5,001-20,000 sf)	sf	
Airfield Painting- Black (> 20,001 sf)	sf	
Airfield Painting- Red (0-5,000 sf)	sf	
Airfield Painting- Red (5,001-20,000 sf)	sf	
Airfield Painting- Red (> 20,001 sf)	sf	
Airfield Painting- Green (0-5,000 sf)	sf	
Airfield Painting- Green (5,001-20,000 sf)	sf	

**DETAILED SPECIFICATIONS
AND BID FORM**

COMPANY NAME: _____

Item	Unit	Unit Cost
Airfield Painting- Green (> 20,001 sf)	sf	
Airfield Painting- Temporary, Primer Coat, First Coat	sf	
Airfield Reflective Media		
Airfield Reflective Media- Type I	sf	
Airfield Reflective Media- Type III	sf	
Airfield Surface Painted Signs		
Airfield Surface Painted Signs- Waterborne	sf	
Airfield Surface Painted Signs- Preformed Thermoplastic	sf	
Airfield Crack Sealing Blow and Go: (1/4"-3/4")		
Airfield Crack Sealing- (0-5,000 lf)	lf	
Airfield Crack Sealing- (5,001-20,000 lf)	lf	
Airfield Crack Sealing- (> 20,001)	lf	
Enhancement: Routing	lf	
Setup Cost		
Rubber/Paint Removal/Airfield Painting: Setup Cost (Cost shall include all mobilization Costs, cost of salaries, overhead, fringe benefits, operating margin, expenses and travel expenses)	sf	
Rubber/Paint Removal/Airfield Painting: Night Time Work, Required due To Airport Schedule Only	sf	
Crack Sealing: Setup Cost (Cost shall include all mobilization Costs, cost of salaries, overhead, fringe benefits, operating margin, expenses and travel expenses)	lf	
Crack Sealing: Night Time Work, Required due To Airport Schedule Only	lf	

Notes for Setup Calculation

Setup for Rubber/Paint Removal/Airfield Painting includes all of the square feet combined; not to include reflective media, or paint enhancements.

Setup for Airfield Crack Sealing includes total linear feet only

BID CHECKLIST

The documents required to complete this bid are indicated below.

- (X) Performance Bond in the amount of \$20000.00
- (X) Insurance Certificates See Exhibit A, Pages F-G
- (X) Iran Notice See pages 44h – 44i

- ___ We have reviewed and have submitted the items required under the Mandatory Submission Requirements.
- ___ The Bid Page(s), Signature/Non-Collusive Page, and Iran Notice are completed and included.
- ___ Deviations are noted and explained.
- ___ Insurance Certificates are enclosed if required.

WAIVER OF IMMUNITY/NON-COLLUSIVE BIDDING CERTIFICATE PURSUANT TO SECTION 103-D OF THE NEW YORK STATE GENERAL MUNICIPAL LAW

- A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organizations, under penalty of perjury, that to the best of knowledge and belief:
 - 1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
 - 2. Unless otherwise required by law, the prices which have been quoted in this bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder, directly or indirectly, prior to opening, to any bidder or to any competitor.
 - 3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A bid shall not be considered for award nor shall any award be made where 1,2, and 3 above have not been complied with; provided, however, that in any case the bidder cannot make to foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons thereof. Where 1, 2, and 3 above have not been complied with, the bid shall not be considered for any award nor shall any award be made unless the head of the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customer of proposed or pending publications of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph "A" above.

- B. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, local law, and where such bid contains the certification referred to in paragraph "A" of this section, shall be deemed to have been authorized by the Board of Directors of the bidder, and such authorization shall be deemed to include the submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

SIGNATURE PAGE ON REVERSE MUST BE SIGNED TO COMPLETE THE BID.

SIGNATURE PAGE

The undersigned proposes to furnish products or services to specifications included in this bid document, at the price(s) set forth, as required to meet the County's needs. Any deviation to the specifications must be noted on the bid form and fully explained or the deviations will not be considered part of the bid.

Deviations: Yes _____ No _____

By signing below I am certifying that I fully understand the complete requirements of the bid and agree to the non-collusive certification on the reverse of this page and additional documents as specified on the bid checklist. Bidder hereby acknowledges receipt of all addenda pertaining to this bid which are made part of the original bid specifications.

_____ COMPANY NAME

_____ ADDRESS (Principal Office)

_____ CITY, STATE, ZIP CODE

_____ AREA CODE/TELEPHONE NUMBER

_____ FAX NUMBER

_____ AUTHORIZED SIGNATURE

_____ PRINTED NAME

_____ TITLE

_____ DATE

_____ ADDRESS (Local Office)

_____ CITY, STATE, ZIP
CODE

_____ AREA CODE/TELEPHONE NUMBER

_____ FAX NUMBER

_____ E-MAIL ADDRESS

Check One: Corporation Partnership Individual

Incorporated under the laws of the State of _____

Federal Identification #: _____

State if authorized to do business in the State of New York: Yes No _____

Names/Addresses of Partners:

Iranian Energy Sector Divestment

Contractor hereby represents that said Contractor is in compliance with New York State General Municipal Law Section 103-g entitled “Iranian Energy Sector Divestment”, in that said Contractor has not:

- a. Provided goods and services of \$20 Million or more in the energy sector of Iran including but not limited to the provision of oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran; or
- b. Acted as a financial institution and extended \$20 Million or more in credit to another person for forty-five days or more, if that person’s intent was to use the credit to provide goods or services in the energy sector in Iran.

Any Contractor who has undertaken any of the above and is identified on a list created pursuant to Section 165-a (3)(b) of the New York State Finance Law as a person engaging in investment activities in Iran, shall not be deemed a responsible Bidder pursuant to Section 103 of the New York State General Municipal Law.

Except as otherwise specifically provided herein, every Contractor submitting a bid in response to this Request for Bids must certify and affirm the following under penalties of perjury:

- a. “By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief, that each Bidder is not on the list created pursuant to NYS Finance Law Section 165-a (3) (b).”

Jefferson County will accept this statement electronically in accordance with the provisions of Section 103 of the General Municipal Law.

Except as otherwise specifically provided herein, any Bid that is submitted without having complied with subdivision (a) above, shall not be considered for award. In any case where the Bidder cannot make the certification as set forth in subdivision (a) above, the Bidder shall so state and shall furnish with the bid a signed statement setting forth in detail the reasons therefore. The County reserves its rights, in accordance with General Municipal Law Section 103-g to award the Bid to any Bidder who cannot make certification, on a case-by-case basis under the following circumstances.

1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
2. The County of Jefferson has made a determination that the goods or services are necessary for the County to perform its functions and that, absent such an exemption, the County of Jefferson would be unable to obtain the goods or services for which the Bid is offered. Such a determination shall be made by the County in writing and shall be a public document.

Attachment
Certification Pursuant to Section 103-g
of the New York State
General Municipal Law

- A. By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each Bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the Bidder cannot make the foregoing certification set forth in Paragraph A above, the Bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to whom the bid is made, or his designee, may award a bid, on a case by case basis under the following circumstances:
1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
 2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods and services for which the contract is offered. Such a determination shall be made in writing and shall be a public document.

Signature

Title

Date

Company Name