

ADDENDUM NO 2.

Bidding and Contract Documents

For

RIAC CONTRACT NO. 25855

DEMOLITION OF 644 AIRPORT ROAD
HANGAR 1

T.F. GREEN AIRPORT
2000 POST ROAD
WARWICK, RHODE ISLAND

RHODE ISLAND AIRPORT CORPORATION

April 8, 2013

PREPARED BY:
AECOM Technical Services, Inc.
10 Orms Street, Suite 405
Providence, RI 02904

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 2

Prospective Bidders and all concerned are hereby notified of the following changes in the Contract Documents for the Demolition of 644 Airport Road (Hangar 1) at T.F. Green Airport. These changes shall be incorporated in and shall become an integral part of the contract documents. The number (No. 2) and date (4/8/2013) of this addendum must be entered into the space provided on Page P-4 of the Proposal Form. These changes will be incorporated into the Conformed Contract Documents to be issued to the successful bidder.

CONTRACTOR'S QUESTIONS

During the bidding phase of this project, items needing clarification have been submitted in writing. The following question, along with a response, is provided as clarification.

Q1. Sheet C-05, what is the thickness of the bituminous pavement to be removed.

A1. The basic existing pavement section is 4" P-401 on 8" P-209.

PROJECT MANUAL

ADDENDUM ITEM NO. 1:

In the Project Manual, Division 2 – Technical Specifications, Section 2370, Stormwater Pollution Prevention, Delete 4.00 Measurement and Payment and replace with the following:

“4.00 Measurement and Payment

Stormwater Pollution Preventions work shall be measured on a lump sum basis, and shall include erosion control measures specified in the contract drawings & specifications and in the Storm Water Pollution Prevention Plan (contained in Division 3), not specifically paid for under Erosion Control Wattles (P-156-1) and Catch Basin Filter Bag (P-156-2). Payment shall include the Construction Entrance installation and the maintenance of erosion control measures specified.

Payment will be made under:

Item 02370 Stormwater Pollution Prevention –Lump Sum”

ADDENDUM ITEM NO. 2:

In the Project Manual, DIVISION 2 – Technical Specifications, Section 02400 Infiltration Trench, deleted specification and replaced with the following attached specification:

“Item M-003 Infiltration Trenches”

ADDENDUM ITEM NO. 3:

In the Project Manual, DIVISION 2 – Technical Specifications, Section P-153 Controlled Low-Strength Material delete Method of Measurement and Basis of Payment and replace with following:

“Method of Measurement

No measurement shall be made for this item.

Basis of Payment

No payment shall be made for Controlled Low-Strength Material. Payment shall be considered inclusive under the various pay items.”

ADDENDUM ITEM NO. 4:

In the Project Manual, DIVISION 2 – Technical Specifications, Section M-001 Supplementary General Conditions, 001-2.19 Temporary Haul Road, delete last 2 sentences and replace with following:

“The haul road shall have a 25-foot width with 2” depth of P-401-1 Bituminous Surface Course on 8-inch depth of P-209-1 Crushed Aggregate Base Course.”

ADDENDUM ITEM NO. 5:

In the Project Manual, DIVISION 2 – Technical Specifications, Section P-154 Subbase Course delete specification.

ADDENDUM ITEM NO. 6:

In the Project Manual, DIVISION 2 – Technical Specifications, Section P-156 Temporary Pollution Control, Basis of Payment 156-5.1 delete the last sentence and replace with the following:

“Temporary control features specified in the contract plans and Stormwater Pollution Prevention Plan, and not covered by a specific contract pay item, shall be paid under Item 02370 Stormwater Pollution Prevention –Lump Sum.”

ADDENDUM ITEM NO. 7:

In the Project Manual, DIVISION 2 – Technical Specifications, Section P-605 Joint Sealing Filler, delete specification.

ADDENDUM ITEM NO. 8:

In the Project Manual, DIVISION 2 – Technical Specifications, Section P-644 Aircraft Tie Down, delete specification.

ADDENDUM ITEM NO. 9:

In the Project Manual, DIVISION 2 – Technical Specifications, Section 02115 Removal and Disposal of Underground Septic Tanks delete Sub-section 4.01 and replace with the following:

“4.01 Removal and Disposal of Underground Septic Tanks

- A. Removal and Disposal of Underground Septic Tanks (Cesspools) and backfilling with suitable material shall be inclusive under the lump sum pay item 02220 Demolition.”

ADDENDUM ITEM NO. 10:

In the Project Manual, DIVISION 2 – Technical Specifications, Section 02220 – Building Demolition, Sub-Section 4.02 Special Waste, delete the sub-section and replace with the following:

“4.02 Special Waste

- A. Special waste removal and disposal shall be included in the lump sum payment for Pay Item 02400 Demolition, as part of the miscellaneous hazardous material removal.
- B. The Special Waste work shall be paid for in accordance with contract documents (Pay Item 02400 Demolition), which shall include all labor, equipment, materials, and incidental costs including but not limited to removing, hauling, and disposing of all indicated types of wastes that includes but is not limited to batteries, paints and solvents, PCB containing light ballast, mercury containing fluorescent bulbs or thermostats, and other miscellaneous materials that require special handling and disposal.
- C. The Contractor shall supply all required supervision, material, equipment, and labor.”

ADDENDUM ITEM NO. 11:

In the Project Manual, DIVISION 2 – Technical Specifications, Section M-001 Supplementary General, delete sub-sections: 001-2.20 Field Office; 001-2.21 Radios; 001-3.1 FIELD OFFICE; 001-4.2 FIELD OFFICE; and 001-4.3 RADIOS. Remove the following pay items:

“Item M-001-1 Field Office -- per month.
Item M-001-2 Radios -- \$7,000 Allowance.”

ADDENDUM ITEM NO. 12:

In the Project Manual, DIVISION 2 – Technical Specifications, Section F-162 Chain-Link Fences, Sub-Section 162-5.3, delete pay item F-162-6 8-FT Chain link Fence Gate and add the following pay item:

“Item F-162-6 8-FT Chain link Fence Gate with barb wire – Each”

ADDENDUM ITEM NO. 13:

In the Project Manual, DIVISION 2 – Technical Specifications, Section M-001 Supplementary General Conditions, delete paragraph 5 of Sub-section 001-2.3 Construction Schedule and replace with the following:

“This Contract will occur in one (1) construction seasons. The work will be performed in Calendar Year 2013 and shall be completed in **one-hundred thirty (130) calendar days** from the date of the Notice to Proceed.”

ADDENDUM ITEM NO. 14:

In the Project Manual, DIVISION 2 – Technical Specifications, Section L-108 Underground Power Cable for Airports, Sub-section 108-2.12 Fiber Optic Cabling delete and replace with the following:

“108-2.12 Fiber Optic Cabling: The Contractor shall coordinate with RIAC personnel to determine the disposition of Fiber Optic Cable Lines within the project limits.”

ADDENDUM ITEM NO. 15:

The following pay items shall be removed from the respective specification:

| Pay Item | Specification No. & Title |
|---|--|
| D-751-4 Heavy Duty Electrical Manhole - per each | D-751 Drain Inlets & Electrical Manhole |
| D-751-5 Remove Electrical Manhole – per each | D-751 Drain Inlets & Electrical Manhole |
| F-162-1 Temp. 8-ft Chain Link Fence with Barbed Wire –per Linear Foot | F-162 Chain-Link Fences |
| P-102-1 Bituminous Concrete Milling (0”-4”) – per SY | P-102 Milling, Sawcutting and Pavement Removal |
| P-102-4 Saw and Seal Joint -- LF | P-102 Milling, Sawcutting and Pavement Removal |
| P-152-2 Remove Blast Wall – per LF | P-152 Excavation And Embankment |

ADDENDUM ITEM NO. 16:

The following corrections are made to the respective specification:

| | Section | Subsection | Instructions | Replace with |
|---|---------|----------------------|--------------|---|
| 1 | 02100 | 1.01 B-4 | Delete Item | “4. Chain-Link Fence F-162” |
| 2 | 02115 | 1.01 B-3, B-4, & B-5 | Delete Items | “3. Demolition Section 02220 4. Stormwater Pollution Prevention Section 02370” |
| 3 | 02220 | 1.01 B-4 | Delete Item | “4. Excavation and Embankment Section P-152” |
| 4 | 02370 | 1.01 B-2 | Delete Item | “2. Excavation and Embankment Section P-152” |

CONTRACT DRAWINGS

ADDENDUM ITEM NO. 17:

On Sheet G-02, under Architectural Notes, delete notes 1 and 2, and replace with the following:

- “1. Asbestos, Lead Paint and Miscellaneous Hazardous Material removals shall be performed in accordance with the Contract Manual Division 13, Special Construction.
2. Refer to drawings, specifications and notes for extent of removal of below grade foundation structures, pile caps, basement structures, Cesspools, sanitary sewer lines & structures, utilities, and basement slabs where they exist and capping of abandoned utilities, payment for these items of work shall be included under the pay item for Demolition.”

ADDENDUM ITEM NO. 18:

On Sheet G-02, under General Notes add the following notes:

- “43. Items of work specified in the contract drawings and not paid for separately shall be incidental to the contract items and inclusive in the various items of work.
44. The term Engineer when used in the contract drawings shall refer to the Resident Engineer appointed by RIAC.
45. The Contractor shall provide shop drawings for fence tie-in points to existing fence(s) and/or structures.”

ADDENDUM ITEM NO. 19:

On Sheet G-03, under Erosion Control Notes, add the following note:

- “12. Construction Entrance shall be 8-inch thick pad with 2-inch stone size, open graded rock.”

ADDENDUM ITEM NO. 20:

On Sheet C-02, under Phasing Notes, add the following note:

- “13. No payment shall be made for the removal of the Temporary Construction Fence and the Temporary AOA Fence. Payment shall be considered inclusive under the respective pay items for Temporary Construction Fence and Temporary AOA Fence.”

ADDENDUM ITEM NO. 21:

On Sheet C-06, under Note, remove “Foundation Walls to be removed.” And replace with the following note:

“Foundation Walls to be completely removed, except for foundation walls adjacent to existing building to remain.
Foundation walls adjacent to existing building to remain, shall be sawcut 1-foot below proposed grade.”

ADDENDUM ITEM NO. 22:

On Sheet C-15, delete proposed “GATE”.

ADDENDUM ITEM NO. 23:

Provide modifications to the entrance roadway as shown on the attached drawing, “Final Site Plan (Entrance Modifications)”. Attached Bid Form has been adjusted to include the respective additional items. All the details necessary to complete the work are included in the current contract documents, except for the sidewalk and curbing. The sidewalk shall be 4” Thick Portland Cement Concrete on 8” thick Gravel Borrow Subbase, in accordance with Section 905, Sidewalks and Driveways, of the RIDOT Standard Specifications for Road and Bridge Construction. The concrete curb detail shall be as shown in the contract drawings on 6” thick Gravel Borrow Subbase in accordance with Section 906, Curbing and Roadways, of the RIDOT Standard Specifications for Road and Bridge Construction.

PROPOSAL FORMS

ADDENDUM ITEM NO. 24:

In the Project Manual, DIVISION 0 – Technical Specifications, Section 00320 Bid Form, deleted specification and replaced with attached 00320 Bid Form. Note that use of a current RI approved Bid Bond Form from the Surety Company or using the standard AIA Bid Form will be acceptable.

Note that Addendum No. 2 consists of eight (8) pages of text and the following attachments:

1. Project Specifications, Table of Contents
2. Project Specifications, Section 000320 Bid Form
3. Project Specifications, Section M-003 Infiltration Trench
4. Final Site Plan (Entrance Modifications).

APPROVED BY: _____

RIAC Signature

Date: _____

4/8/2013

END OF ADDENDUM No. 2

RHODE ISLAND AIRPORT CORPORATION
ENGINEERING DEPARTMENT

RIAC CONTRACT NO. 24855

HANGAR 1 DEMOLITION
644 Airport Road

T.F. GREEN AIRPORT
WARWICK, RHODE ISLAND

PROJECT SPECIFICATIONS

DATE: **March 2013 (rev 4-8-2013)**

TABLE OF CONTENTS

DIVISION 0 – BIDDING AND CONTRACT DOCUMENTS

| <u>Section No.</u> | <u>Title</u> | |
|--------------------|--|--------------|
| 00010 | Advertisement for Bid | page 00010-1 |
| 00107 | Seals Page | page 00107-1 |
| 00100 | Information to Bidders | page 00100-1 |
| 00300 | Certification of Bidding Requirements | page 00300-1 |
| 00310 | Bid Summary Form | page 00310-1 |
| 00320 | Bid Form..... | page 00320-1 |
| 00500 | Contract Agreement | page 00500-1 |
| 00600 | Performance Bond | page 00600-1 |
| 00610 | Labor and Material Payment Bond | page 00610-1 |
| 00620 | General Guarantee | page 00620-1 |
| 00700 | Statutory Provisions | page 00700-1 |
| 00725 | Federal Wage Rates | page 00725-1 |
| 00750 | Disadvantaged Business Enterprise (DBE) Plan | page 00750-1 |
| 00800 | Summary of Work and Special Conditions | page 00800-1 |
| 00950 | Federal Contract Conditions | page 00950-1 |
| 00960 | Executive Orders | page 00960-1 |

DIVISION 1 – GENERAL PROVISIONS

| <u>Section No.</u> | <u>Title</u> | |
|--------------------|---|--------------|
| Section 10 | Definition of Terms | page 10-1 |
| Section 20 | Proposal Requirements and Conditions | page 20-1 |
| Section 30 | Award and Execution of Contract | page 30-1 |
| Section 40 | Scope of Work | page 40-1 |
| Section 50 | Control of Work | page 50-1 |
| Section 60 | Control of Materials | page 60-1 |
| Section 70 | Legal Regulations and Responsibility of Public | page 70-1 |
| Section 80 | Prosecution and Progress | page 80-1 |
| Section 90 | Measurement and Payment | page 90-1 |
| Section 100 | Contractor Quality Control Program | page 100-1 |
| Section 110 | Method of Estimating Percentage of Material within Specifications Limits (PWL) | page 110-1 |
| Section 120 | Nuclear Gages | page 120-1 |
| 01000 | General Specifications..... | page 01000-1 |
| 01010 | Summary of Work..... | page 01010-1 |
| 01015 | Abbreviations, Definitions and Terminology | page 01015-1 |
| 01027 | Application for Payment..... | page 01027-1 |
| 01040 | Project Coordination | page 01040-1 |
| 01050 | Field Engineering..... | page 01050-1 |
| 01060 | Regulatory Requirements | page 01060-1 |
| 01200 | Progress Meetings | page 01200-1 |
| 01310 | Progress Schedule | page 01310-1 |
| 01340 | Shop Drawings, Product Data and Samples | page 01340-1 |
| 01410 | Testing Laboratory Services | page 01410-1 |
| 01440 | Contractor’s Quality Control..... | page 01440-1 |
| 01510 | Temporary Utilities | page 01510-1 |
| 01550 | Access Roads and Parking Areas..... | page 01550-1 |
| 01560 | Temporary Construction Controls | page 01560-1 |
| 01563 | Handling of Incidental Fuel Spillage During Construction..... | page 01563-1 |
| 01600 | Materials and Equipment..... | page 01600-1 |
| 01631 | Substitutions and Product Options..... | page 01631-1 |
| 01700 | Project Closeout..... | page 01700-1 |
| 01710 | Final Cleaning..... | page 01710-1 |
| 01740 | Warranties and Bonds | page 01740-1 |

DIVISION 2 – SITE/CIVIL SPECIFICATIONS

| <u>Section No.</u> | <u>Title</u> | |
|--------------------|---|---------------------------|
| 02100 | Mobilization, Site Preparation, and Demobilization..... | page 02100-1 |
| 02115 | Removal and Disposal of Underground Septic Tanks | page 02115-1 |
| 02220 | Building Demolition..... | page 02220-1 |
| 02370 | Stormwater Pollution Prevention Plan | page 02370-1 |
| 02400 | Infiltration Trench | page 02400-1 |
| | | |
| D-701 | Pipe For Storm Drains And Culverts | Page D-701-1 |
| D-751 | Drain Inlets & Electrical Manhole | Page D-751-1 |
| F-162 | Chain-Link Fences | Page F-162-1 |
| L-100 | Lighting And Electrical Work | Page L-100-1 |
| L-108 | Underground Power Cable For Airports | Page L-108-1 |
| L-110 | Airport Underground Electrical Duct Banks And Conduits | Page L-110-1 |
| L-119 | Airport Obstruction Lights | Page L-119-1 |
| M-001 | Supplementary General Conditions..... | Page M-001-1 |
| | Operational Safety on Airports During Construction | AC No: 150/5370-2F |
| M-301 | RIDOT Aggregate and Gravel Base Course..... | Page M-301-1 |
| P-102 | Milling, Sawcutting And Pavement Removal | Page P-102-1 |
| P-151 | Clearing And Grubbing | Page P-151-1 |
| P-152 | Excavation And Embankment | Page P-152-1 |
| P-153 | Controlled Low-Strength Material (CLSM) | Page P-153-1 |
| P-154 | Subbase Course | Page P-154-1 |
| P-156 | Temporary Air And Water Pollution, Soil Erosion, And Siltation Control | Page P-156-1 |
| P-209 | Crushed Aggregate Base Course | Page P-209-1 |
| P-401 | Plant Mix Bituminous Pavements | Page P-401-1 |
| P-602 | Bituminous Prime Coat | Page P-602-1 |
| P-603 | Bituminous Tack Coat | Page P-603-1 |
| P-605 | Joint Sealing Filler | Page P-605-1 |
| P-610 | Structural Portland Cement Concrete | Page P-620-1 |
| P-620 | Runway And Taxiway Painting | Page P-620-1 |
| P-644 | Aircraft Tie Down | Page P-644-1 |
| T-901 | Seeding | Page T-901-1 |
| T-905 | Topsoiling | Page T-905-1 |
| T-908 | Mulching | Page T-908-1 |

DIVISION 3 – TECHNICAL SPECIFICATIONS

Section No. Title

SWPPP Stormwater Pollution Prevention Plan & RIDEM Authorization Letter

CSPP Construction Safety & Phasing Plan

DIVISION 7 – ARCHITECTURAL SPECIFICATIONS

| <u>Section No.</u> | <u>Title</u> | |
|--------------------|-------------------------------|---------------|
| 072100 | Thermal Insulation..... | Page 072100-1 |
| 072729 | Air-Barrier Coatings..... | Page 072729-1 |
| 074213 | Formed Metal Wall Panels..... | Page 074213-1 |

DIVISION 13 – SPECIAL CONSTRUCTION

| <u>Section No.</u> | <u>Title</u> |
|--------------------|---|
| 13282 | Lead-Based Paint Abatementpage 13282-1 |
| 13820 | Asbestos Abatement.....page 13820-1 |
| 13820A | Asbestos Inspection Report Attachment.....page 13820A-1 |

SECTION 00 0320

BID FORM

CONTRACT DOCUMENTS

To: Rhode Island Airport Corporation
T. F. Green State Airport
2000 Post Road
Warwick, Rhode Island, 02886
ATTN: Laurie Sirois
Grants and Contracts Administrator

Date: _____

Time: _____

For: **Hangar 1 Demolition**
T. F. Green State Airport
RIAC Construction Contract No. 24855

The undersigned, having visited the site of the work and having familiarized themselves with local conditions affecting the cost of the work and with all requirements of the proposed Contract Documents, and duly issued Addenda to said documents, as acknowledged herein, propose to furnish and perform all labor, materials, necessary tools, expendable equipment, and all utility and transportation services necessary to perform and complete in a workmanlike manner all work required by said documents and Addenda.

ADDENDA: Bidder acknowledges receipt of and has examined the Addenda:

Addendum Number _____ dated _____

Addendum Number _____ dated _____

Acknowledged by _____ date _____

BID PROPOSAL: This Proposal shall be filled in by the BIDDER with prices written in both words and numerals and the extensions made by him/her. In case of discrepancy between the words and numerals, the amounts shown in words shall govern.

BIDDER agrees to perform all necessary labor, furnish all materials and do all work described in the Specifications, including allowances, and shown on the Drawings, for the following lump sum prices and/or unit process:

| Rhode Island Airport Corporation Hangar 1 Demolition T. F. Green State Airport Warwick, Rhode Island RIAC Construction Contract No. 24855 SCHEDULE OF PRICES BASE BID | | | | | | | |
|--|--------------|--------------------|---|----------------|-------|------------|-------|
| Item No. | Pay Item No. | Estimated Quantity | Item of Work With Unit Prices Written in Words | Figures | | | |
| | | | | Unit Bid Price | | Bid Amount | |
| | | | | Dollars | Cents | Dollars | Cents |
| 1 | P-102-2 | 1770 CY | Pavement Removal at _____ Dollars & Cents per Cubic Yard | | | | |
| 2 | P-102-3 | 1220 LF | Saw Cut Pavement at _____ Dollars & Cents per Linear Feet | | | | |
| 3 | P-151-1 | 1 LS | Clearing and Grubbing at _____ Dollars & Cents per Lump Sum | | | | |
| 4 | P-152-1 | 1650 CY | Unclassified Excavation at _____ Dollars & Cents per Cubic Yard | | | | |
| 5 | P-156-1 | 530 LF | Erosion Control Wattles at _____ Dollars & Cents per Linear Feet | | | | |
| 6 | P-156-2 | 15 EA | Catch Basin Filter Bag at _____ Dollars & Cents per Each | | | | |
| 7 | P-209-1 | 1590 CY | Crushed Aggregate Base Course at _____ Dollars & Cents per Cubic Yard | | | | |
| 8 | P-401-1 | 820 TON | Bituminous Surface Course at _____ Dollars & Cents per Ton | | | | |
| 9 | P-401-2 | 7820 TON | Bituminous Base Course at _____ Dollars & Cents per Ton | | | | |
| 10 | P-602-1 | 2500 GAL | Bituminous Prime Coat at _____ Dollars & Cents per Gallon | | | | |
| 11 | P-603-1 | 14 GAL | Bituminous Tack Coat at _____ Dollars & Cents per Gallon | | | | |
| 12 | P-620-1 | 1460 SF | Permanent Pavement Markings at _____ Dollars & Cents per Square Foot | | | | |

| <p style="text-align: center;">Rhode Island Airport Corporation Hangar 1 Demolition T. F. Green State Airport Warwick, Rhode Island RIAC Construction Contract No. 24855 SCHEDULE OF PRICES BASE BID</p> | | | | | | | |
|---|--------------|--------------------|--|----------------|-------|------------|-------|
| Item No. | Pay Item No. | Estimated Quantity | Item of Work With Unit Prices Written in Words | Figures | | | |
| | | | | Unit Bid Price | | Bid Amount | |
| | | | | Dollars | Cents | Dollars | Cents |
| 13 | P-620-2 | 450 SF | Removal of Existing Pavement Markings at _____ Dollars & Cents per Square Foot | | | | |
| 14 | D-701-1 | 80 LF | Ductile Iron Pipe, 8" Diameter at _____ Dollars & Cents per Linear Foot | | | | |
| 15 | D-701-2 | 210 LF | Remove Existing Storm Pipe at _____ Dollars & Cents per Linear Foot | | | | |
| 16 | D-751-1 | 1 EA | Heavy Duty Drain Inlet Structure at _____ Dollars & Cents per Each | | | | |
| 17 | D-751-2 | 11 EA | Remove Existing Drainage Structure at _____ Dollars & Cents per Each | | | | |
| 18 | D-751-3 | 3 EA | Alter Existing Drainage Structure at _____ Dollars & Cents per Each | | | | |
| 19 | F-162-2 | 1340 LF | Temporary 8-Ft Barrier & Chain Link Fence at _____ Dollars & Cents per Linear Foot | | | | |
| 20 | F-162-3 | 710 LF | Fence 8' Chain Link w/ Barbed Wire at _____ Dollars & Cents per Linear Foot | | | | |
| 21 | F-162-4 | 380 LF | Remove Existing Fence, Gate, and Foundation at _____ Dollars & Cents per LF | | | | |
| 22 | F-162-5 | 2 EA | Temporary 8-Ft Chain Link Fence Gate at _____ Dollars & Cents per Each | | | | |
| 23 | T-901-1 | 4690 SY | Seeding at _____ Dollars & Cents per Square Yard | | | | |
| 24 | T-905-1 | 4690 SY | Borrow Topsoiling (Min. 4" Depth) at _____ Dollars & Cents per Square Yard | | | | |

| <p style="text-align: center;">Rhode Island Airport Corporation Hangar 1 Demolition T. F. Green State Airport Warwick, Rhode Island RIAC Construction Contract No. 24855 SCHEDULE OF PRICES BASE BID</p> | | | | | | | |
|---|--------------|--------------------|---|----------------|-------|------------|-------|
| Item No. | Pay Item No. | Estimated Quantity | Item of Work With Unit Prices Written in Words | Figures | | | |
| | | | | Unit Bid Price | | Bid Amount | |
| | | | | Dollars | Cents | Dollars | Cents |
| 25 | L-119-2 | 1 LS | Obstruction Light – Single Unit at _____ Dollars & Cents per Lump Sum | | | | |
| 26 | M-001-3 | 1 AL | Safety Cones and Signs at <u>ten thousand</u> Dollars & Cents per Allowance | \$10,000 | 00 | \$10,000 | 00 |
| 27 | M-001-4 | 1 AL | Temporary VSR/Haul Road at <u>twenty thousand</u> Dollars & Cents per Allowance | \$20,000 | 00 | \$20,000 | 00 |
| 28 | M-003-1 | 810 CY | Drainage Infiltration System at _____ Dollars & Cents per Cubic Yard | | | | |
| 29 | 02220 | 1 LS | Demolition at _____ Dollars & Cents per Lump Sum | | | | |
| 30 | 02370 | 1 LS | Stormwater Pollution Prevention at _____ Dollars & Cents per Lump Sum | | | | |
| 31 | 074213 | 1 LS | Formed Metal Wall Panels at _____ Dollars & Cents per Lump Sum | | | | |
| 32 | 13820 | 1 LS | Asbestos Abatement at _____ Dollars & Cents per Lump Sum | | | | |
| 33 | 13282 | 1 LS | Lead-Based Paint Abatement at _____ Dollars & Cents per Lump Sum | | | | |
| 34 | 905 | 2 CY | 4" Thick Portland Cement Concrete Sidewalk on 8" Thick Gravel Borrow Subbase. at _____ Dollars & Cents per Cubic Yard | | | | |
| 35 | 906 | 42 LF | Concrete Curbing on 6" Thick Gravel Borrow Subbase at _____ Dollars & Cents per Linear Feet | | | | |

| Rhode Island Airport Corporation Hangar 1 Demolition T. F. Green State Airport Warwick, Rhode Island RIAC Construction Contract No. 24855 SCHEDULE OF PRICES BASE BID | | | | | | | |
|---|--------------|--------------------|--|---------------------------|-------|------------|-------|
| Item No. | Pay Item No. | Estimated Quantity | Item of Work With Unit Prices Written in Words | Figures | | | |
| | | | | Unit Bid Price | | Bid Amount | |
| | | | | Dollars | Cents | Dollars | Cents |
| PLEASE MAKE SURE A BID IS ENTERED FOR EACH ITEM | | | | _____ (Amount in Figures) | | | |
| ESTIMATED TOTAL CONTRACT PRICE FOR BASE BID IS: | | | | _____ (Amount in Words) | | | |

ID PROPOSAL: Bidder agrees to perform all of the work described in the Contract Documents, including allowances, for the sum of:

_____ \$ _____
 (words [shall govern]) (figures)

LIQUIDATED DAMAGES: Upon execution of the contract, the Contractor shall proceed with the preparation and submittal of shop drawings and his tentative construction schedule and with subsequent ordering and fabricating of materials. The Owner will issue a written "Notice-to-Proceed" which will specify an effective date for the Contractor to begin work at the site. The contract work shall be completed within **one hundred thirty (130) calendar days** from the date of issuance of the Notice to Proceed.

Should work continue beyond time specified above, and no time extension has been granted via the Change Order process, then liquidate damages will be assessed to the Contractor for each and every calendar day the work remains uncompleted.

Liquidated damages for this project shall be **One Thousand-Five Hundred Dollars (\$1,500.00)** per calendar day for Contractor's failure to complete any key milestone by its intermediate completion date or the Substantial Completion date. Refer to Section 00 0800, Summary of Work and Special Conditions.

The undersigned affirms that in making such bid, neither he or she nor any company that they may represent, nor anyone in behalf of him or her or their company, directly or indirectly, has entered into any combination, collusion, undertaking or agreement with any other bidder or bidders to maintain the prices of said work, or any compact to prevent any other bidder or bidders from bidding on said Contract or work and further affirms that such bid is made without regard or reference to any other bidder or proposer and without any agreement or understanding or combination either directly or

indirectly with any other person or persons with reference to such bidding in any way or manner whatsoever.

The undersigned further agrees that if awarded the Contract he or she will commence the work within **ten (10)** calendar days after the date of the Notice to Proceed and that he or she will complete the work in accordance with the Summary Schedule and Key Milestones and Substantial Completion date set forth in the Bidding and Contract Documents or such amended date as may be granted. If the undersigned fails to complete the work as provided in the aforementioned schedule, then and in that event, he or she further expressly agrees that, for each day that any phase of work under this Contract remains uncompleted thereafter the Owner may deduct from the Contract price herein specified the stipulated sum of liquidated damages as provided in the Special Provisions and retain that sum for failure of the undersigned to complete this Contract on or before the expiration of the period shown in the completion schedule.

In submitting this bid, it is understood that the right is reserved by the Owner to waive any informality or irregularity in any bid or bid guaranty, to reject any and all bids, to re-bid, to award or refrain from awarding a contract for the work and to negotiate with the apparent qualified low responsive bidder to such extent as may be beneficial to the Owner.

The undersigned attaches hereto a cashier's check, certified check or Bid Bond in the sum of _____ Dollars (\$ _____), payable to the Rhode Island Airport Corporation, as required in the Information to Bidders, and the undersigned agrees that in case he or she fails within five (5) calendar days after Notice of Intent to Award the Contract to him to enter into a Contract Agreement in writing and furnish the required Payment and Performance Bonds, with surety or sureties to be approved by Owner, and insurance policies or endorsements, the Owner may, as its option, determine that the undersigned has abandoned his rights and interest in such bid and that the cashier's check, certified check, or Bid Bond accompanying his or her bid has been forfeited. Otherwise, the cashier's check, certified check, or Bid Bond shall be returned to the undersigned upon the execution of the Contract and acceptance of the bonds and insurance, or upon rejection of his or her bid.

A bid shall be considered unresponsive and shall be rejected if it fails to include fully executed statements or if the Bidder fails to furnish required data. When a determination has been made to award the Contract to a specific Contractor, such Contractor shall, prior to award, furnish such other pertinent information regarding his or her own employment policies and practices as well as those of his or her proposed Subcontractors as the Owner may require.

The bidder shall furnish similar statements executed by each of his or her first-tier and second-tier Subcontractors whose contracts equal Ten Thousand Dollars (\$10,000.00) or more and shall obtain similar compliance by such Subcontractors before awarding such Subcontractors. No subcontract shall be awarded to any non-complying Subcontractor.

The undersigned affirms that he or she has completed all of the blank spaces in the "Bid Form", with an amount in words and numbers and agrees that where a discrepancy occurs between the prices quoted in words and/or in numbers the words shall take precedence and govern when determining final costs or award of Contract.

The undersigned affirms that wages not less than the minimum rates or wages, as predetermined for this project by the State of Rhode Island were used in the preparation of this "Bid Form".

SIGNATURE OF BIDDER

Signed: _____
By: _____
Title: _____
Date: _____

This proposal includes Addendum Numbers(s) _____
(Fill in numbers(s) if Addendum(s) are issued).

Address of permanent place of business to which Notice-to-Proceed should be sent:

*Important: Execute acknowledgment of officer or agent who signs this document (use proper form below):

ACKNOWLEDGMENT OF PRINCIPAL, IF A CORPORATION:

State of: (_____)

County of: (_____)§

On this _____ day of _____, 20____, before me personally came and appeared _____ to me Known, who, being by me duly sworn, did depose and say to me that he resides at _____, that he/she is the _____ of _____ the corporation described in and which executed the foregoing instrument is an impression of such seal; that it was so affixed by the order of the directors of said corporation, and that he signed his name thereto by like order.

(Seal) _____
Notary Public

ACKNOWLEDGMENT OF PRINCIPAL, IF A PARTNERSHIP:

State of (_____)

County of (_____)§

On this _____ day of _____ 20____, before me personally came and appeared _____ to me known and known to me to described in and who executed the foregoing instrument and he acknowledged to me that he executed the same as and for the act and deed of said firm.

(Seal) _____
Notary Public

ACKNOWLEDGMENT OF PRINCIPAL, IF AN INDIVIDUAL:

State of (_____)

County of (_____)§

On this _____ day of _____ 20_____, before me
personally came and appeared _____ to me known and known to me
to be the person described in and who executed the forgoing instrument and acknowledged that
he executed the same.

(Seal)

Notary Public

ANTI-COLLUSION CERTIFICATE FOR CONTRACT AND FORCE ACCOUNT

(SWORN AFFIDAVIT) Title 23, United States Code, Section 112(c), requires, as a condition precedent to approval by the Rhode Island Airport Corporation (RIAC) of the contract for this work, that there be filed a sworn statement executed by, on behalf of, the person, firm, association, or corporation to whom such contract is to be awarded, certifying that such person, firm, association, or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract. This sworn statement shall be in the form of an affidavit executed and sworn to be the successful bidder before a person who is authorized by the Laws of this State to administer oaths.

The person, firm, association, or corporation submitting the bid (under 23 U.S.C. 112(c)) has the option to sign either:

- a. the sworn affidavit executed and sworn to by the bidder before a person who is authorized by the laws of the State to administer oaths; or
- b. the unsworn declaration executed under penalty of perjury under the laws of the United States (as allowed by 28 U.S.C. 1746).

A bidder will not be considered for award of contract under this invitation for bids unless such bidder completes either the unsworn declaration (as stated on the following page) or the sworn affidavit as prescribed below:

PLEASE NOTE: CONTRACTOR TO COMPLETE ONLY ONE (1) CERTIFICATION STATEMENT. DO NOT SIGN BOTH STATEMENTS.

**ANTI-COLLUSION CERTIFICATE FOR CONTRACT AND FORCE ACCOUNT
(SWORN AFFIDAVIT)**

To the: RHODE ISLAND AIRPORT CORPORATION

State of _____

County of _____ §

I, _____ (name of party signing affidavit)

_____ (title), being duly sworn, do

depose and say: on behalf of _____ that said Contractor has not, either directly or indirectly, entered into any agreement, participated in collusion, or otherwise taken any action in restraint of free competitive bidding in connection with Rhode Island Airport Corporation Construction Contract Number **24855**, Airport Improvement Program Project Number **3-44-0003-XX-2013**,

County of _____

Town/City _____

Contractor

Signature

Sworn to before me this _____ day of _____ 20____

My commission expires _____

Signature and Seal of Notary Public

**ANTI-COLLUSION CERTIFICATE FOR CONTRACT AND FORCE ACCOUNT
(UNSWORN AFFIDAVIT)**

Title 23, United States Code, Section 112(c), requires, as a condition precedent to approval by the Rhode Island Airport Corporation (RIAC) of the contract for this work, that there be filed a unsworn declaration executed by, on behalf of, the person, firm, association, or corporation submitting the bid, certifying that such person, firm, association, or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with submitted bid. This unsworn statement shall be in the form of a declaration executed under penalty of perjury under the laws of the United States.

The person, firm, association, or corporation submitting the bid (under 23 U.S.C. 112(c)) has the option to sign either:

- a. the sworn affidavit executed and sworn to by the bidder before a person who is authorized by the laws of the State to administer oaths; or
- b. the unsworn declaration executed under penalty of perjury under the laws of the United States (as allowed by 28 U.S.C. 1746).

A bidder will not be considered for award of contract under this invitation for bids unless such bidder completes either the sworn affidavit (as stated on the previous page) or the unsworn declaration as prescribed below:

**ANTI-COLLUSION CERTIFICATE FOR CONTRACT AND FORCE ACCOUNT
(UNSWORN AFFIDAVIT)**

To the: RHODE ISLAND AIRPORT CORPORATION

State of _____

County of _____ §

I, _____ (name of party signing affidavit)

_____ (title), under penalty of perjury

under the laws of the United States, do depose and say: on behalf of _____
that said Contractor has not, either directly or indirectly, entered into any agreement, participated in
collusion, or otherwise taken any action in restraint of free competitive bidding in connection with
Rhode Island Airport Corporation Construction Contract Number **24855**, Airport Improvement Program
Project Number **3-44-0003-XX-2013**.

County of _____

Town/City _____

Contractor

Signature

Sworn to before me this _____ day of _____ 20_____

My commission expires _____

Signature and Seal of Notary Public

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

| | | |
|---|--|--|
| 1. Type of Federal Action: a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance | 2. Status of Federal Action a. bid/offer/application b. initial award c. post-award | 3. Report Type a. initial filing b. material change For Material Change Only: Year _____ Quarter _____ Date of last report _____ |
| 4. Name and Address of Reporting Entity: | 5. If Reporting Entity in No. 4 is Subawardee, Enter Name and address of Prime: | |
| 6. Federal Department Agency: | 7. Federal Program Name/Description: | |
| 8. Federal Action Number, if known: | 9. Award Amount, if known: \$ | |
| 10a. Name and Address of Lobbying Entity, (if individual, last name, first name, MI) | 10b. Individuals performing Services (including address if different from No. 10a.), (if individual, last name, first name, MI) | |
| 11. Amount of Payment (check all that apply): \$ _____ actual planned | 13. Type of Payment (check all that apply) a. retainer b. one-time fee c. commission d. contingent fee e. deferred f. other specify _____ | |
| 12. Form of Payment (check all that apply): a. cash b. In-kind; specify; nature _____ value _____ | | |
| 14. Brief Description of services performed or performed and date(s) of Service, including officer(s), employer(s), or member(s) contacted for payment indicated in Item 11. | | |
| 15. Continuation Sheet(s) SF-LLL-A attached: Yes No | | |
| 16. Information requested through this form is authorized by Title 31 U.S.C. Section 1362. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each failure | Signature: _____ Print Name: _____ Title: _____ Telephone No. _____ Date: _____ | |
| <i>Federal Use Only</i> | Authorized for Local Reproduction Standard Form - LLL | |

**DISCLOSURE OF LOBBYING ACTIVITIES
CONTINUATION SHEET**

Reporting Entity: _____ Page _____ of _____

Authorized for Local Reproduction Standard Form - LLL

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,
AND OTHER RESPONSIBILITY MATTERS
PRIMARY COVERED TRANSACTION**

In accordance with the Code of Federal Regulations, part 49, CFR Section 29.510, the prospective primary participant _____ (Name of Authorized Agent), _____ (Title), being duly sworn (or under penalty of perjury under the laws of the United States), certifies to the best of his / her knowledge and belief, that its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offence in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state, or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification?
- d. Have not within a three-year period preceding this application / proposal had one or more public transactions (federal, state, or local) terminated for cause of default.

Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall list exceptions below.

Exceptions will not necessarily result in denial or award, but will be considered in determining contractor responsibility. For any exception note, indicate below to whom it applies, the initiating agency, and the dates of the action. Providing false information may result in criminal prosecution or administrative sanction. If an exception is noted, the contractor must contact the Corporation to discuss the exception prior to award of the contract.

Signature of Authorized Agent

Date

REQUIREMENT FOR CERTIFICATION FOR NONSEGREGATED FACILITIES:

A certification of Nonsegregated Facilities must be submitted at the time of the bid opening of a contract or subcontract exceeding Ten Thousand Dollars (\$10,000), which is not exempt from the provisions of the Equal Opportunity Clause.

Certification – The information above is true and complete to the best of my knowledge and belief.

Name and Title of Signer *(please type)*

Signature

Date

Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001

DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION PLAN

The undersigned hereby further assures that the information included herein is true and correct, and that the DBE firm(s) listed herein have agreed to perform a commercially useful function in the work items noted for each firm. The undersigned further understands that no changes to this statement may be made without prior approval from the Civil Right Staff of the Federal Aviation Administration.

1. Name of Project _____
2. Number of Project _____
3. Total Dollar Amount of Bid _____
4. Disadvantaged Business Enterprise Participation \$ Goal _____
 - a. Name of Bidder _____
Address _____
Phone(s) _____
 - b. If the Bidder is a Disadvantaged Business Enterprises (Contractors, suppliers, vendors), the services they will provide and the approximate amount of money they will receive. (Include joint venture partner, if applicable.)

Total of listed amounts \$ _____

(Use back of sheet for additional space, if needed)

Contractor: _____

By: _____

Address: _____

Phone Number: _____ Zip Code: _____

**LETTER OF INTENT TO PERFORM
AS A QUALIFIED DISADVANTAGED BUSINESS**

To: _____ Project: _____
(Name of Contractor)

Reference #: _____

The undersigned intends to perform work in connection with the above project as (check one):

_____ an individual _____ a corporation
_____ a partnership _____ a joint venture

The undersigned certifies the company is a Disadvantaged Business Enterprise as defined by the Rhode Island Department of Administration

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail work to be performed).

Subcontractor: _____ Contract Amount _____
(Name)

Supplier: _____ Contract Amount _____
(Name)

The Bid Price agreed upon is: \$ _____ Dated _____

The undersigned agrees that the contract conditions above are true and accurate and will be performed by the above, who will enter into a formal agreement for the above work with you, conditioned upon your execution of a contract with

Name of company, signature and title of authorized official of the company and the date must be properly executed on this document or the bid will be deemed nonresponsive.

_____ (Date) _____ (Name of Disadvantaged Company)

*As determined by _____ (Signature of Authorized Official)

(Title of Authorized Officer)

DBE WAIVER FORM

(Required for All Bids Requesting Waiver of the 9.45 % DBE Requirement)

I, _____, _____, of _____
(Name) (Title) (Company)

certify that on _____, I contacted the following DBE Contractors to obtain a bid for work
(date)

items to be performed on Contract Number _____.

DBE Contractor Name and Address

Work Items Sought

To the best of my knowledge and belief, said DBE Contractor was unavailable (exclusive of unavailability due to lack of agreement on price) for work on this project, or unable to prepare a bid for the following reason(s):

Signature

Date

This portion to be completed by DBE Contractor:

_____ was offered an opportunity to bid or make an offer on the
above

(Name of DBE)

identified work on _____ by _____.
(Date) (Source)

The above statement is a true and accurate account of why I did not submit an offer/bid on this project.

(Signature of DBE)

(Title)

CONTRACTOR QUALIFICATION FORM

Instructions:

Elaboration of the following required information is necessary to ascertain your firm's capabilities to effectively execute the Project. Pursuant to the Information to Bidders of Section 1, your completion of this Contractor Qualification Form is **MANDATORY** and will be utilized by RIAC as a basis for determining the qualified lowest bid, and subsequent award.

PLEASE ATTACH TO THIS FORM A COPY OF YOUR CERTIFICATE OF INSURANCE INDICATING CURRENT LIMITS.

Firm: _____ President: _____
Address: _____ Phone: _____
_____ Fax: _____
Federal ID#: _____ Contact: _____ Former Company Name: _____
Years performing work specialty: _____ Work Now Under Contract: \$ _____
Bank Reference: _____ Work in Place Last Year: \$ _____
Address: _____ Average Annual Sales Last 3 Years.: \$ _____
_____ Value Of Capital Equipment Owned: \$ _____
Bonding Company: _____ Bonding Agent: _____
Total Bonding Capacity: \$ _____ Address: _____
Work Currently Bonded: \$ _____
Work Now Under Contract: \$ _____
Bonding Companies Best Rating: _____ Bonding Agent's Phone: _____
Is Firm In Compliance with all EEO Requirements?: Y N Has Firm Ever Failed To Complete A Contract?: Y N
Has Firm Ever Been Involved In Bankruptcy Or Re-organization?: Y N Are There Any Claims Against The Firms?: Y N
Are There Any Pending Judgments Against The Firm?: Y N

(ANSWER IS YES TO ANY OF THE ABOVE PLEASE DESCRIBE ON A SEPARATE SHEET)

Insurance: ("CLAIMS-MADE" GENERAL LIABILITY IS UNACCEPTABLE)

Submit Sample Certificate Of Insurance Showing Coverage And Limits For General Liability, Automobile Liability, Excess Umbrella Liability, And Worker's Compensation.

Experience Modification Rating: _____ Agency's Name: _____
Contact's Name: _____ Contact's Phone: _____

Safety:

Attach Log And Summary Of OSHA violations and any fines or settlements for the past 36 months

Attach Log And Summary Of Occupational Injuries And Illnesses As Required By the U.S. Dept. Of Labor For The Past 36 Months (OSHA Form No. 200)

OSHA Recordable Incident Rate (Current Year): _____ OSHA Lost Days Away Incident Rate (Current Year) _____

List Four (4) Or More Most Applicable Projects Completed Within The Last Five (5) Years:

| Project & Location | Engineer | Contract With | Contract Amount | Date Completed | Reference Contact & Phone Number |
|--------------------|----------|---------------|-----------------|----------------|----------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

PLEASE ATTACH ADDITIONAL SHEET IF NECESSARY

Please list **key personnel** available for project and describe responsibilities of each:

Total Firm Staff Employed for this project: _____ Total Staff Employed Firm-wide: _____

Please list **key equipment** available for project and whether Firm owns or leases equipment:

List Three (3) Or More Most Applicable Projects Presently Under Construction:

| Project & Location | Engineer | Contract With | Contract Amount | Date Completed | Reference Contact & Phone Number |
|--------------------|----------|---------------|-----------------|----------------|----------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

PLEASE ATTACH ADDITIONAL SHEET IF NECESSARY

THE APPARENT LOW BIDDER SHALL PROVIDE A COPY OF THEIR COMPANY'S FINANCIAL STATEMENT, CERTIFIED BY PUBLIC ACCOUNTANT, WITHIN 5 DAYS OF REQUEST BY RIAC.

This Form **MUST** Be Signed By An Officer Of The Firm Or An Individual So Authorized By An Officer Of The Firm.

Signature: _____

Name: _____

Title: _____

PROJECT SUBCONTRACTORS

The Bidder advises herein that the following Subcontractors are proposed for the item of work listed. Subcontractors are subject to review and approval per the requirements of the Contract Documents and the technical requirements specified. List only firms that will supply labor at the site. Failure to provide this information may result in the bid being considered non-responsive.

| SUBCONTRACTOR | DBE (Y/N) | TRADE | CONTRACT WORK ITEM TO BE PERFORMED | VALUE (\$) |
|---------------|--------------|-------|---------------------------------------|---------------|
| 1. _____ | | | | |
| 2. _____ | | | | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| 5. _____ | | | | |
| 6. _____ | | | | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| 9. _____ | | | | |
| 10. _____ | | | | |
| 11. _____ | | | | |
| 12. _____ | | | | |
| 13. _____ | | | | |
| 14. _____ | | | | |
| 15. _____ | | | | |

RESPECTFULLY SUBMITTED:

(Company)

By: _____
Title: _____
Date: _____

CERTIFICATION OF COMPLIANCE WITH FEDERALLY REQUIRED CONTRACT
REQUIREMENTS

The bidder/offeror certifies, by submission of this proposal or acceptance of this, that he/she has read the federally mandated contract requirements as listed in Section 00 0950, *Federal Contract Conditions* and Section 00 0960, *Executive Orders* and that compliance with said references will be incorporated into the terms of the Contract documents.

I hereby certify that I have read and will comply with all of the above requirements.

Signature of Authorized Contractor and/or Consultant Representative

Date

BUY AMERICAN – CERTIFICATE (JAN 1991)

By submitting a bid/proposal under this solicitation, except for those items listed by the offeror below or on a separate and clearly identified attachment to this bid/proposal, the offeror certifies that steel, and each manufactured product, is produced in the United States (as defined in the clause Buy American – Steel and Manufactured Products or Buy American – Steel and Manufactured Products for Construction Contracts), and that the components of unknown origin are considered to have been produced or manufactured outside the United States.

Offerors may obtain from the Rhode Island Airport Corporation lists of articles, materials, and supplies excepted from this provision.

PRODUCT

COUNTRY OF ORIGIN

Signature of Authorized Contractor and/or Consultant Representative

Date

EQUAL EMPLOYMENT OPPORTUNITY REPORT STATEMENT
As Required by 41 CFR 60-1.7(b)

The Bidder (proposer) shall complete the following statement by checking the appropriate boxes. Failure to complete these blanks may be grounds for rejection of bids.

1. The Bidder (proposer) has _____ has not _____ developed and has on file at each establishment Affirmative Action Programs pursuant to 41 CFR 60-1.4 and 41 CFR.
2. The Bidder (proposer) has _____ has not _____ participated in any previous contract or subcontract subject to the Equal Opportunity Clause prescribed by Executive Order 11246, as amended.
3. The Bidder (proposer) has _____ has not _____ filed with the Joint Reporting Committee the annual compliance report on Standard Form 100 (EEO-1 Report).
4. The Bidder (proposer) does _____ does not _____ employ fifty (50) or more employees.

(Name of Bidder)

BY:

(Signature)

TITLE:

DATE:

BID BOND

CONTRACTOR (Principal): _____ **TYPE**
(Legal name and business address) _____ Individual
_____ Partnership
_____ Joint
Venture _____ Corporation

OWNER: Rhode Island Airport Corporation **SURETY:** (Name, legal status & principal place of
business) _____
2000 Post Road _____
Warwick, RI 02886 _____

PROJECT: Hangar 1 Demolition
T. F. Green State Airport
Warwick, Rhode Island
RIAC Construction Contract No. 24855
AIP No. 3-44-0003-xx-2013

BID DATE: April 11, 2013

BOND AMOUNT: _____
(Penal sum of bond)

The Contractor and the Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the specified time in the Bid Documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with the surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and the prompt payment of labor and materials furnished in the prosecution thereof; or (2) pays the Owner the amount difference, not to exceed the amount of the Bond, between the amount specified in said Bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said Bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding one hundred eighty (180) days in aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond one hundred eighty (180) days.

If this Bond is issued in connection with the subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the Owner shall be deemed to be the Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provisions in this Bond conflicting with said statutory or legal requirements shall be

deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed to be incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not a common law bond.

WITNESS WHEREOF, the Principal and Surety have hereunto caused this Bond to be duly executed and acknowledged by their appropriate officials as set forth below this _____ day of _____, 20____.

PRINCIPAL *(If Individual, Joint Venture or Partnership)*

(Firm Name)

ATTEST:

(SEAL)

By: _____

Title (Individual or Partner)

PRINCIPAL *(If Corporation)*

(Corporate Name)

By: _____
(President)

Attest: _____
(Secretary)

(Impress Corporate Seal)

COUNTERSIGNED BY
RESIDENT RHODE ISLAND
AGENT OF SURETY:

SURETY:

*(Copy of Agent's current license
as issued by State of Rhode Island
Insurance Commissioner)*

(Impress Corporate Seal)

By: _____
*Attorney-In-Fact
(Power of Attorney Must Be Attached)*

END OF BID FORM

END OF SECTION

**ITEM M-003
INFILTRATION TRENCHES**

DESCRIPTION

003-1.1. This item shall consist of the construction of infiltration trenches in accordance with these specifications, at the specified locations and conforming to the lines, grades, depth and dimensions shown on the plans or required by the Engineer based on preconstruction in-situ testing.

MATERIALS

003-2.1. FILTER FABRIC shall be non-woven filter fabric Class "C" geotextile or better.

003-2.2. SAND shall be washed and meet AASHTO-M-43, Size No. 9 or No. 10.

003-2.3. STONE shall be washed and meet AASHTO-M-43, No. 3.

003-2.4. PIPE shall be 6-inch diameter perforated PVC Schedule 40 pipe (M 278 OR F758, Type PS 28)

TESTING REQUIREMENTS

003-3.1 GENERAL. Prior to initiation of construction activities for infiltration trenches contractor shall perform groundwater and infiltration testing in accordance with the soil testing requirements of Appendix H.1 of the Rhode Island Stormwater Design and Installations Standards Manual (RISDISM, 2010). Testing is to be conducted by a DEM-licensed Class IV soil evaluator or Rhode Island registered professional engineer.

Results of these in-situ tests shall be submitted to Engineer for confirmation of trench depth and dimensions. Trench design shall be in accordance with requirements of RISDISM Section 5.3 and RISDISM Appendix H.

003-3.2 GROUNDWATER TESTING. Contractor shall perform groundwater testing to determine seasonal high groundwater depth per RISDISM Appendix H.1.2. One test pit is required for every 5000 SF of infiltration feature.

003-3.3 INFILTRATION TESTING. Contractor shall perform infiltration testing to determine saturated hydraulic conductivity per RISDISM Appendix H.1.3. One test pit and one infiltration test are required for every 5000 SF of infiltration feature.

CONSTRUCTION METHODS

003-4.1 GENERAL. Upon completion of rough grading of the site area, heavy equipment and traffic shall be restricted from traveling over the proposed location of the infiltration trench to minimize compaction of the soil.

003-4.2 EXCAVATION. Excavate the infiltration trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing of the filter fabric during subsequent installation procedures. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment.

003-4.3 PLACING FILTER FABRIC. Material shall interface between the trench side walls and between the stone reservoir and gravel filter layers.

The width of the geotextile must include sufficient material to conform to trench perimeter irregularities and for a 6-inch minimum top overlap. The filter fabric shall be tucked under the sand layer on the bottom of the infiltration trench for a distance of 6 to 12 inches. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the trench open during windy periods. When overlaps are required between rolls, the uphill roll should lap a minimum of 2 feet over the downhill roll in order to provide a shingled effect.

003-4.4 PLACING SAND. Place 6-inch sand filter layer on the bottom of the infiltration trench in a uniform layer.

003-4.5 PLACING STONE. The stone aggregate should be placed in a maximum loose lift thickness of 12 inches.

Following the stone aggregate placement, the filter fabric shall be folded over the stone aggregate to form a 6-inch minimum longitudinal lap. The desired fill soil or stone aggregate shall be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.

Care shall be exercised to prevent natural or fill soils from intermixing with the stone aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.

003-4.6 OBSERVATION WELLS. Observation wells are to consist of 6-inch diameter perforated PVC pipe with a cap set 6 inches above ground level. Wells shall be located with fifty foot spacing along the longitudinal center of the infiltration trench. The pipe shall have a plastic collar with ribs to prevent rotation when removing the cap. The screw top lid shall be a clean out with a locking mechanism or special bolt to discourage vandalism. The depth to the invert shall be marked on the lid. The pipe shall be placed vertically within the gravel portion of the infiltration trench and a cap provided at the bottom of the pipe. The bottom of the cap shall rest on the infiltration trench bottom.

003-4.7 CLEANING AND RESTORATION OF SITE. After the work is completed, the Contractor shall dispose of all surplus material, dirt, and rubbish from the site. Surplus dirt may be deposited in embankments, shoulders, or as ordered by the Engineer. The Contractor shall restore all disturbed areas to their original condition.

Topsoiling, seeding, and mulch shall be paid for under their respective bid items. After all work is completed, the Contractor shall remove all tools and equipment, leaving the entire site free, clear, and in good condition.

METHOD OF MEASUREMENT

003-5.2 The quantity of Drainage Infiltration System, completed or installed shall be measured by the cubic yard of trench completed.

BASIS OF PAYMENT

003-6.1 The accepted quantities of Drainage Infiltration System will be paid for at the contract price per Cubic Yard (CY), complete and in place. This price shall be full compensation for furnishing all materials, including filter fabric, observation wells, and stone, and for all preparation, excavation, backfilling, and placing of the materials; furnishing and installation of such specials and other appurtenances as may be required to complete the item as shown on the plans; all preconstruction in-situ testing; and for all labor equipment, tools and incidentals necessary to complete the trenches.

Payment will be made under:

Item M-003-1 Drainage Infiltration System -- per cubic foot (CF)

END OF ITEM M-003

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