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PLANNING, ZONING AND BUILDING SAFETY

Public Health,
Housing Inspections &
Inspection Services

MEMORANDUM

To: Mayor and City Council Members
Cc: Gregg Mandsager, City Administrator
From: Steven Boka, Director of Community Development
Date: April 15, 2011
Re: Resolution Approving Plans, Specifications, Form of Contract, Cost Estimate and Establishing a Bid Opening Date – Airport Lighting Project

INTRODUCTION: Recently the City of Muscatine was notified by the Federal Aviation Administration (FAA) that funding would be made available to rehabilitate runway lighting Muscatine Municipal Airport. The funding would allow the City to replace the direct burial conductors that have been repeatedly out of service at the airport that are associated with the lighting of runway 6/24 and the parallel taxiway for that runway.

BACKGROUND: The Municipal Airport has experienced repeated lighting outages associated with the runway lights located on runway 6/24 and the parallel taxiway serving that runway. As discussed previously with the City Council, the damage has been caused by the age of the conductors and rodents in the area. To correct this ongoing problem and keep the airport approach safe for the flying public, a program has been developed and approved that will consist of wildlife management and replacing the direct burial cable with protected conduit, updated conductors and lighting. Prior to the soliciting bids for this project, a public hearing was conducted. The next step in the process requires the adoption of a resolution to approve the plans, specifications, form of contract, cost estimate and to establish a bid opening date related to the Rehabilitate Runway Lighting project at the Muscatine Municipal Airport.

As with other funding authorized by the FAA, the project would be paid through a 95% federal and 5% local share

RECOMMENDATION/RATIONALE: Please place the attached resolution on the agenda for City Council consideration during the April 21st, 2011 meeting.

RESOLUTION NO. _____

**A RESOLUTION APPROVING THE PLANS, SPECIFICATIONS, FORM OF
CONTRACT, COST ESTIMATE, AND ESTABLISHING A BID OPENING DATE
FOR MUNICIPAL AIRPORT IMPROVEMENTS IDENTIFIED AS
“REHABILITATE RUNWAY LIGHTING”**

(Potential AIP Project No. 3-19-0063-15)

WHEREAS, the City Council for the City of Muscatine, Iowa, has authorized the preparation of plans and specifications, form of contract and cost estimate for the Muscatine Municipal Airport Project entitles “Rehabilitate Runway Lighting” that will upgrade the lighting of runway 6/24 and the adjacent parallel taxiway, further identified as Potential AIP Project No. 3-19-0063-15; and

WHEREAS, the City Council has conducted a public hearing concerning the improvements; and

WHEREAS, the City Council has reviewed and approved the plans, specifications, form of contract and cost estimate of \$475,993.00 for the “Rehabilitate Runway Lighting” project as follows:

| | |
|--|----------------------|
| Schedule A Runway 6/24 Conduit | \$ 172,364.00 |
| Schedule B Taxiway Conduit | 138,077.00 |
| Schedule C Runway Light Fixtures | 41,400.00 |
| Schedule D Taxiway Regulator | 19,000.00 |
| Schedule E Taxiway Light Fixtures | 64,000.00 |
| Engineering, Administrative, and Construction Inspection | <u>41,152.00</u> |
| Total | <u>\$ 475,993.00</u> |

and;

WHEREAS, Schedules A, B & C and engineering fees are necessary to the Project and the operational safety of primary runway 6/24; and

WHEREAS, Schedules D & E are important to the use of the taxiway if funds are available to complete the entire Project; and

WHEREAS, the City Council wishes to establish a bid opening date for said Project,

NOW, THEREFORE, BE IT RESOLVED by the City Council for the City of Muscatine, Iowa, hereby establishes a bid opening date of May 10, 2011, at 10:00 A.M. (CDT) related to the acquisition of snow removal equipment. Said bid opening shall be conducted by the Director of Finance in the City Hall Council Chambers.

PASSED, APPROVED, AND ADOPTED by the City Council for the City of Muscatine, Iowa, on this, the 21st day of April, 2011.

Richard O'Brien, Mayor

ATTEST:

Gregg Mandsager, City Clerk

MUSCATINE MUNICIPAL AIRPORT REHABILITATE RUNWAY LIGHTING 4/15/2011

ENGINEER'S CONSTRUCTION COST OPINION

The FAA typically encourages sponsors to break-up projects into a base bid and alternates, so that over-budget items can be easily identified and deleted from the project, if necessary. For this project, a base bid and four alternates are proposed as follows:

| | |
|--|------------------|
| Schedule A Runway 6/24 Conduit | \$172,364 |
| Schedule B Taxiway Conduit | \$138,077 |
| Schedule C Runway Light Fixtures | \$41,400 |
| Schedule D Taxiway Regulator | \$19,000 |
| Schedule E Taxiway Light Fixtures | <u>\$64,000</u> |
| TOTAL | \$434,841 |

*The itemized cost opinion is attached to this report (see Attachment A).

TOTAL PROJECT COST OPINION

| | |
|---|------------------|
| Administrative Expense..... | \$2,500 |
| Engineering Basic Fees..... | \$21,414 |
| Other Engineering Fees..... | \$2,498 |
| Project Inspection Fees..... | \$14,740 |
| Construction and project improvement..... | <u>\$434,841</u> |
| Total..... | \$475,993 |

The CIP Data Sheet completed for this project included a cost estimate of **\$313,554**. This total did not include taxiway light fixtures or the taxiway regulator listed above under Schedule D and Schedule E. It did include most of the items under Schedules A, B, and C, which total to **\$351,841**. Schedules A, B, and C plus engineering, administrative, and inspection time totals to **\$392,993**. For this total, the 95% federal share is **\$373,343**.

According to our records, The City of Muscatine currently has **\$375,739** of federal entitlement funding accrued; although, they had previously planned to use approximately \$50,000 of this total towards next year's projects of pavement maintenance, obstruction survey and removal, and T-hangar apron drainage.

**ATTACHMENT A TO ENGINEER'S REPORT
MUSCATINE MUNICIPAL AIRPORT REHABILITATE RUNWAY LIGHTING
ENGINEER'S COST OPINION
4/15/11**

| SCHEDULE A. RUNWAY 6/24 CONDUIT | | | | | |
|--|---------------------------------------|-------------|---------------------------|-------------------|-------------------|
| NO. | ITEM | UNIT | ESTIMATED QUANTITY | UNIT PRICE | TOTAL COST |
| 1 | 2" PVC CONDUIT - INSTALLED IN TRENCH | LF | 13,281 | \$5.50 | \$73,046 |
| 2 | 2" PVC CONDUIT - BORED | LF | 250 | \$20.00 | \$5,000 |
| 3 | U.G. CABLE INSTALLED IN CONDUIT | LF | 25,478 | \$2.00 | \$50,956 |
| 4 | TRENCHING | LF | 13,281 | \$0.40 | \$5,312 |
| 5 | BARE COUNTERPOISE INSTALLED IN TRENCH | LF | 14,250 | \$0.60 | \$8,550 |
| 6 | PRECAST POLYMER CONCRETE HANDHOLE | EA | 2 | \$1,500.00 | \$3,000 |
| 7 | LIGHT BASE | EA | 5 | \$1,000.00 | \$5,000 |
| 8 | 10 KW FERRORESONANT REGULATOR | EA | 1 | \$18,000.00 | \$18,000 |
| 9 | REMOVE EXISTING REGULATOR | EA | 1 | \$1,000.00 | \$1,000 |
| 10 | SEEDING | LS | 1 | \$2,500.00 | \$2,500 |

SUBTOTAL

\$172,364

| SCHEDULE B. TAXIWAY CONDUIT | | | | | |
|------------------------------------|---------------------------------------|-------------|---------------------------|-------------------|-------------------|
| NO. | ITEM | UNIT | ESTIMATED QUANTITY | UNIT PRICE | TOTAL COST |
| 1 | 2" PVC CONDUIT - TRENCHED | LF | 13,899 | \$5.50 | \$76,445 |
| 2 | 2" PVC CONDUIT - BORED | LF | 230 | \$20.00 | \$4,600 |
| 3 | U.G. CABLE INSTALLED IN CONDUIT | LF | 17,789 | \$2.00 | \$35,578 |
| 4 | TRENCHING | LF | 13,899 | \$0.40 | \$5,560 |
| 5 | BARE COUNTERPOISE INSTALLED IN TRENCH | LF | 14,824 | \$0.60 | \$8,894 |
| 6 | PRECAST POLYMER CONCRETE HANDHOLE | EA | 3 | \$1,500.00 | \$4,500 |
| 7 | SEEDING | LS | 1 | \$2,500.00 | \$2,500 |

SUBTOTAL

\$138,077

SCHEDULE C. RUNWAY LIGHT FIXTURES

| NO. | ITEM | UNIT | ESTIMATED QUANTITY | UNIT PRICE | TOTAL COST |
|-----|--|------|--------------------|------------|------------|
| 1 | MEDIUM INTENSITY RUNWAY EDGE LIGHT FIXTURES, 30" HEIGHT, WITH 2 PIN QUARTZ BULBS AND SOCKETS | EA | 69 | \$400.00 | \$27,600 |
| 2 | TRANSFORMERS | EA | 69 | \$100.00 | \$6,900 |
| 3 | REMOVE AND SALVAGE EXISTING LIGHT FIXTURES | EA | 69 | \$50.00 | \$3,450 |
| 4 | REMOVE AND SALVAGE EXISTING TRANSFORMERS | EA | 69 | \$50.00 | \$3,450 |

SUBTOTAL**\$41,400****SCHEDULE D. TAXIWAY REGULATOR**

| NO. | ITEM | UNIT | ESTIMATED QUANTITY | UNIT PRICE | TOTAL COST |
|-----|-------------------------------|------|--------------------|-------------|------------|
| 1 | 10 KW FERRORESONANT REGULATOR | EA | 1 | \$18,000.00 | \$18,000 |
| 2 | REMOVE EXISTING REGULATOR | EA | 1 | \$1,000.00 | \$1,000 |

SUBTOTAL**\$19,000****SCHEDULE E. TAXIWAY LIGHT FIXTURES**

| NO. | ITEM | UNIT | ESTIMATED QUANTITY | UNIT PRICE | TOTAL COST |
|-----|---|------|--------------------|------------|------------|
| 1 | MEDIUM INTENSITY TAXIWAY EDGE LIGHT FIXTURES, 24" HEIGHT, WITH 2 PIN QUARTZ BULBS AND SOCKETS | EA | 128 | \$300.00 | \$38,400 |
| 2 | TRANSFORMERS | EA | 128 | \$100.00 | \$12,800 |
| 3 | REMOVE AND SALVAGE EXISTING LIGHT FIXTURES | EA | 128 | \$50.00 | \$6,400 |
| 4 | REMOVE AND SALVAGE EXISTING TRANSFORMERS | EA | 128 | \$50.00 | \$6,400 |

SUBTOTAL**\$64,000****TOTAL COST****\$434,841**

NOTICE TO BIDDERS

**City of Muscatine, Iowa
Muscatine Municipal Airport
AIP Project No.: 3-19-0063-15**

Sealed bids subject to the conditions and provisions presented herein will be received by the Owner until 10:00 A.M. Central Standard Time on May 10, 2011, and then publicly opened and read at the City Council Chambers, for furnishing all labor, materials and equipment and performing all work necessary to provide lighting conduit, cable, and light installation along the main runway and its parallel and connecting taxiways.

Copies of the bid documents including project drawings and technical specifications are on file and may be inspected at:

City of Muscatine
City Hall
215 Sycamore Street
Muscatine, Iowa 52761

Construction Update Plan Room
& Master Builders of Iowa -
Cedar Rapids Regional Office
521 3rd Avenue SW, Suite A
Cedar Rapids, IA 52404

Construction Update Plan Room
612 Mulberry St
Waterloo, IA 50703

Dubuque Builders Exchange
801 Cedar Cross Road
Dubuque, IA 52003

McGraw-Hill Construction Dodge
474 First Avenue
Coralville, IA 52241

McGraw-Hill Construction Dodge
2507 Ingersoll Avenue
Des Moines, IA 50312

North Iowa Builders
Exchange
25 West State Street
Mason City, IA 50401

Master Builders of Iowa
221 Park Street
Des Moines, IA 50309

Reed Construction Data
Document Processing Center
30 Technology Parkway S, Ste 500
Norcross, GA 30092-2912

United Minority Contractors
2221 N. 24th Street
Omaha, NE 68110

A complete set of bid documents may be obtained from Anderson-Bogert Engineers & Surveyors, Inc., 4001 River Ridge Dr. NE, Cedar Rapids, Iowa, phone: 319-377-4629 for a refundable deposit of \$25.00.

The Owner will not conduct a pre-bid conference for this project.

Contract Work Items: This project will involve the following work items and estimated quantities. Prospective bidders are hereby advised that the quantities indicated herein are approximate and are subject to change per the Section 40 of the General Provisions.

- | | |
|---|-----------------|
| 1. Mobilization | 1 LS |
| 2. 2" PVC Conduit (Trenched) | 27,180 Lin. Ft. |
| 3. 2" PVC Conduit (Bored) | 480 Lin. Ft. |
| 4. Underground Cable Installed in Conduit | 43,267 Lin. Ft. |
| 5. Trenching | 27,180 Lin. Ft. |
| 6. Bare Counterpoise Installed in Trench | 29,074 Lin. Ft. |
| 7. Precast Concrete Polymer Handhole | 5 Each |
| 8. Light Base | 5 Each |
| 9. 10 KW Ferroresonant Regulator | 2 Each |
| 10. Remove Existing Regulator | 2 Each |
| 11. Medium Intensity Runway & Taxiway Edge Light Fixtures & Transformers | 197 Each |
| 12. Remove & Salvage Existing Light Fixtures & Transformers | 197 Each |
| 13. Seeding | 1 LS |

Contract Time

The owner has established a contract performance time of 35 working days from the date of the Notice-to-Proceed. All project work shall be substantially completed within the stated timeframe. This project is subject to liquidated damages as prescribed within the project manual.

Bid Security

Each proposal must be accompanied by a bid guaranty in the amount of five (5) percent of the total amount of the bid. The bid guaranty may be by certified check or bid bond made payable to City of Muscatine, Iowa.

Bonding Requirements

The successful bidder will be required to furnish separate performance and payment bonds each in the amount equal to 100% of the contract price at the time of contract execution.

Award of Contract

All proposals submitted in accordance with the instructions presented herein will be subject to evaluation. Bids may be held by the City of Muscatine for a period not to exceed 45 days from the date of the bid opening for the purpose of conducting the bid evaluation.

The Owner will base the award of contract upon the lowest aggregate sum proposal submitted from those bidders the Owner confirms as being responsive and responsible. The right is reserved, as the City of Muscatine may require, to reject any and all bids and to waive any informality in the bids received.

Prospective Bidders are hereby advised that award of contract is contingent upon the owner receiving Federal funding assistance under the Airport Improvement Program.

Federal Provisions

This project is subject to the following Federal provisions, statutes and regulations:

Equal Employment Opportunity - Executive Order 11246 and 41 CFR Part 60: The Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth within the supplementary provisions. The successful Bidder shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin.

Goals for Minority and Female Participation – Executive Order 11246 and 41 CFR Part 60:

1. The Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth within the supplementary provisions.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Timetables:

Goals for minority participation for each trade: 3.4%

Goals for female participation in each trade: 6.9%

These goals are applicable to all of the contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its Federally involved and non-federally involved construction.

Certification of Nonsegregated Facilities – 41 CFR Part 60: A certification of Nonsegregated Facilities must be submitted prior to the award of a federally-assisted construction contract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity Clause.

Contractors receiving federally assisted construction contract awards exceeding \$10,000, which are not exempt from the provisions of the Equal Opportunity Clause will be required to provide for the forwarding of the notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity Clause. The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

Disadvantaged Business Enterprise – 49 CFR Part 26: The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of this DOT-assisted contracts. In accordance with 49 CFR Part 26.45, the sponsor has established a contract goal of five percent participation for small business concerns owned and controlled by certified socially and economically disadvantaged enterprise (DBE). The bidder shall make and document good faith efforts, as defined in Appendix A of 49 CFR Part 26, to meet this established goal.

Davis-Bacon Act, as amended – 29 CFR Part 5: The Contractor is required to comply with wage and labor provisions and to pay minimum wages in accordance with the current schedule of wage rates established by the United States Department of Labor.

Debarment, Suspension, Ineligibility and Voluntary Exclusion – 49 CFR Part 29: The bidder certifies, by submission of a proposal or acceptance of a contract, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. Individuals or companies listed in the General Services Administration's "Excluded Parties Listing System" will not be considered for award of contract.

Foreign Trade Restriction – 49 CFR Part 30

The Bidder and Bidder's subcontractors, by submission of an offer and/or execution of a contract, is required to certify that it:

- a. Is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. Has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
- c. Has not procured any product nor subcontracted for the supply of any product for use on the project that is produced in a foreign country on said list.

Buy American Certificate – Aviation Safety and Capacity Act of 1990:

This contract is subject to the "Buy American Preferences" of the Aviation Safety and Capacity Act of 1990. Per Title 49 U.S.C. Section 50101, all steel and manufactured products installed under an AIP assisted project must be produce in the United States unless the Federal Aviation Administration has granted a formal waiver.

As a condition of bid responsiveness, Bidders must complete and submit as part of their proposal the enclosed Buy American certification. Bidder must indicate whether it intends to meet Buy America preferences by only installing steel and manufactured products produced with the United State of America; or if it intends to seek a permissible waiver to the Buy America requirements.

Additional Provisions

Modification to the project documents may only be made by written addendum as issued by the Owner or Owner's authorized Representative.

The bidder's proposal must be made on the forms provided within the bound project manual. Bidders must supply all required information prior to the time of bid opening.

Submittal of Proposals

Additional information and instruction for submittal of a proposal are provided within the Instructions-to-Bidders. Envelopes containing bids must be sealed and addressed to:

City of Muscatine
215 Sycamore Street
Muscatine, Iowa 52761-3899

The upper left hand corner of the sealed envelope must identify the following information:

CONTRACT PROPOSAL

Bid of {Name of Contractor}

for construction improvements at Muscatine Municipal Airport

AIP Project No. : 3-19-0063-15

To be opened at: 10:00 A.M. C.S.T. on May 10, 2011