

Non-Code Ordinance

By: Public Works
Introduced: October 14, 2013
Public Hearing: October 28, 2013
Adopted: October 28, 2013

Vote: Buswell, Harris, O'Barr, Sullivan-Leonard, Wall and Wilson in favor

**City of Wasilla
Ordinance Serial No. 13-31**

An ordinance of the Wasilla City Council amending the Fiscal Year 2014 Budget by appropriating \$83,560 from the General Fund, Fund Balance, to the Airport Fund for Wasilla Airport Security Equipment and Perimeter Fencing Engineering Services.

Section 1. Classification. This is a non-code ordinance.

Section 2. Purpose. To amend the FY2014 budget by appropriating \$83,560 from the General Fund, Fund Balance to the Airport Fund for airport security equipment and perimeter fencing engineering services.

Section 3. Appropriation of Funds. The funds are appropriated to the following:

Security Equip. & Perimeter Fencing	330-4379-437-45-30	83,560
Transfer/Airport Fund	001-4990-499-99-33	83,560

Section 4. Source of Funds

Transfer/General Fund	330-0000-391-10-01	83,560
General Fund, Fund Balance	001-0000-253-20-00	83,560

Section 5. Effective date. This ordinance shall take effect upon adoption by the Wasilla City Council.

ADOPTED by the Wasilla City Council on October 28, 2013.



VERNE E. RUPRIGHT, Mayor

ATTEST:



KRISTIE SMITHERS, MMC, City Clerk

[SEAL]





CITY COUNCIL LEGISLATION STAFF REPORT

Ordinance Serial No. 13-31: Amending the Fiscal Year 2014 Budget by appropriating \$83,560 from the General Fund, Fund Balance to the Airport Fund for Wasilla Airport Security Equipment and Perimeter Fencing Engineering Services.

Originator: Public Works Director

Date: October 1, 2013

Agenda of: October 14, 2013

Route to:	Department Head	Signature	Date
X	Public Works Director		10/1/13
X	Finance Director		10/1/13
X	Deputy Administrator		10/1/13
X	City Clerk		10/3/13

Reviewed by Mayor Verne E. Rupright:



Fiscal Impact: yes \$83,560

Funds Available: yes

Account name/number: Security Equip. & Perimeter Fencing/330-4379-437.45-30

Attachments: Engineering Proposal (7 pages)

FAA CIP Data Sheet & Cost Estimate (2 pages)

Summary Statement: The Federal Aviation Administration has made \$450,000 available this fiscal year for security improvements at the airport. The proposed security improvements consist of installing new gate controllers, fiber optic cables and new computer system to operate the 4 main gates at the airport. The work needs to be designed and bid before the grant application can be accepted by the FAA.

Total project cost is estimated at \$480,000 with \$30,000 needed for local match. The local match will be split between the City and the State of Alaska Department of Transportation. Once the grant is obtained, the FAA grant will reimburse \$68,560 of the appropriation stated in the ordinance.

Recommended Action: Adopt Ordinance Serial No. 13-31.

September 12, 2013

File: 83-103

Mr. Archie Giddings
City of Wasilla, Public Works Director
290 E. Herning Avenue
Wasilla, AK 99654

Re: Fee Proposal for Engineering Services
Task 4 - Wasilla Airport Security Equipment and Perimeter Fencing

Dear Mr. Giddings:

Hattenburg Dilley and Linnell (HDL) is pleased to present this fee proposal for engineering services for the Wasilla Airport Security Equipment and Perimeter Fencing project. This project includes design engineering and bid phase services for the replacement of vehicle gate controls and related equipment at the Wasilla Airport.

BACKGROUND

On June 18th HDL, Marsh Creek, and Tony Leoni inspected the four vehicle gates at Wasilla Airport. The following major operational problems were identified:

- There is no functional method to change or manage keypad access codes.
- The card reader access is not working.
- The short range radio frequency remote controls ("garage door openers") are not working.
- Remote access communications and control of the four individual gate control systems has not been available for several years and is currently still not working.
- The network communications to gate controllers not reliable.

The gate systems have been serviced multiple times in the last few years and the problems associated with the gate control systems cannot be adequately repaired or resolved. The lack of system programming access for managing access codes and establishing automatic gate open or close operations has not been re-established due to both computer software control and phone line communications problems.

All four of the gate access and control systems are considered to be unreliable at this time, and should a major failure occur in a gate controller electronic assembly, the existing basic system functionality would not be recoverable. See attached sketch.

CIVIL
ENGINEERING

GEOTECHNICAL
ENGINEERING

TRANSPORTATION
ENGINEERING

ENVIRONMENTAL
SERVICES

PLANNING

SURVEYING

CONSTRUCTION
ADMINISTRATION

MATERIAL
TESTING

SCOPE OF SERVICES

We propose to provide professional engineering services required for the replacement of controls and associated above ground electrical components and software to vehicle Gates A, B, C, and D, as well as installation of fiber optic cable between the gates and the gate control computer located in the Snow Removal Equipment Building (SREB). Due to limited FAA funding, Gate B will be an additive alternate in the bid documents. Electrical engineering will be provided by John Faschan, P.E. with EDC, Inc., and control system design by Steve Floyd with Marsh Creek, LLC.

Design

Plans, Specifications and Estimate. HDL will prepare an assembly of engineered drawings and specifications to approximately the 95% completion level. Specifications and contract documents will be based on the City of Wasilla's standard modifications to the Municipality of Anchorage Standard Specifications (MASS). Construction plans and specifications will be delivered in hardcopy format for review by City staff.

We anticipate approximately 12 plan sheets for the project, as follows:

- E1 – Electrical Site Plan, Legend & Abbreviations
- E2 – Electrical Demolition Plan
- E3 – Fiber Optic Cable Overall Routing Plan
- E4– Fiber Optic Cable Routing Detailed Plans
- E5– SREB Electrical Plan
- E6– Security Gate Access Control System Block Diagram
- E7– Fiber Optic Cabling Diagram
- E8– Security Gate Block Diagram
- E9– Security Gate Details
- E10 – Gate Operator Wiring Schematic
- E11- Fiber Optic Details
- E12– Electrical Details

Bid-Ready Documents. We will submit the 95% plans and specifications for review, address comments, and finalize the documents. Upon receiving City review comments, we will prepare bid-ready 11"x17" plans, stamped and signed by a professional engineer registered in the State of Alaska, a bid-ready Project Manual including bidding information, general contract requirements, and technical specifications, and an engineer's construction cost estimate. The construction cost estimate will reflect quantities and pay items determined during the final system design, and current bidding climate. We will provide two (2) hardcopy sets of deliverables and a CD in PDF format.

Environmental Review. An environmental review and categorical exclusion has been provided previously. We will file an FAA Form 7460-1, Notice of Proposed Construction or Alteration on Airport for the City. A 404 wetlands permit is not anticipated.

Bid Phase Services

After completion of bid-ready documents, HDL will assist with the bidding phase. On behalf of the City, we will prepare the invitation to bid, respond to bidder's questions, attend a pre-bid conference, issue written addendums, tabulate bids and check proposals for completeness, review bonding and insurance submittals, and provide a written recommendation for award to the City based on the lowest responsive bid.

ASSUMPTIONS

1. Construction administration (CA) services are not included. The scope, level of effort, and fee will be determined when the design is complete and can be added as a contract amendment later.
2. The improvements will be designed as a single package with additive alternates.
3. Geotechnical engineering and surveying are not anticipated.
4. Addressing environmental contamination is not included.

SCHEDULE

Upon notice to proceed (anticipated in early October), we will commence engineering work as soon as possible. We estimate that our design effort will take approximately 6 weeks. Allowing for a 28-day bidding period, we anticipate that a construction contract can be awarded in mid to late December 2013, with construction occurring in 2014.

COST PROPOSAL

We propose to provide the aforementioned services on a time and expenses basis at our published hourly labor rates and 10% mark-up of subcontracts and reimbursable expenses for a fee not to exceed **\$83,560.00**, as detailed on the fee estimate worksheet dated September 12, 2013.

RE: Wasilla Airport Security Equipment and Perimeter Fencing
September 12, 2013
Page 4 of 4

We appreciate the opportunity to provide this proposal and look forward to assisting you with this important project. If you have any questions, you can contact me at 746-5230.

Sincerely,
Hattenburg Dilley & Linnell, LLC

 FOR

David Lundin, P.E.
Principal Civil Engineer / Project Manager

Attachments: Fee Worksheet September 12, 2013 (1 page),
EDC Proposal dated August 6, 2013 (2 pages)
Marsh Creek Proposal dated August 27, 2013 (2 pages)
Sketch (1 page)

FEE PROPOSAL WORKSHEET
Engineering Services
Wasilla Airport Security Equipment and Perimeter Fencing

<u>ACTIVITY</u>	<u>QTY</u>	<u>RATE</u>	<u>LABOR</u>	<u>EXPENSES</u>	<u>SUBS</u>	<u>SUBTOTAL</u>	<u>TOTAL</u>
Design.....							\$68,870
<u>100% Plans, Specifications and Estimate</u>						\$68,870	
Project Manager/Principal Civil E	8 hrs	@ \$170	\$1,360				
Civil Engineer	55 hrs	@ \$130	\$7,150				
Engineering Assistant	40 hrs	@ \$80	\$3,200				
Drafter	16 hrs	@ \$100	\$1,600				
Marsh Creek System Design	96 hrs	@ \$165			\$15,840		
EDC Electrical Design	1 sum	@ \$37,500			\$37,500		
Clerical	8 hrs	@ \$70	\$560				
Reproduction	1 sum	@ \$300		\$300			
QA Review	8 hrs	@ \$170	\$1,360				
Bid Phase Services.....							\$8,930
<u>Pre-Bid Meeting</u>						\$1,180	
Project Manager/Principal Civil E	2 hrs	@ \$170	\$340				
Civil Engineer	4 hrs	@ \$130	\$520				
Engineering Assistant	4 hrs	@ \$80	\$320				
<u>Assistance During Bidding</u>						\$7,020	
Project Manager/Principal Civil E	2 hrs	@ \$170	\$340				
Civil Engineer	8 hrs	@ \$130	\$1,040				
Marsh Creek Support	24 hrs	@ \$165			\$3,960		
Engineering Assistant	8 hrs	@ \$80	\$640				
Drafter	8 hrs	@ \$95	\$760				
Clerical	4 hrs	@ \$70	\$280				
<u>Bid Review, Tabulation, and Recommendation for Award</u>						\$730	
Project Manager/Principal Civil E	1 hrs	@ \$170	\$170				
Civil Engineer	2 hrs	@ \$130	\$260				
Engineering Assistant	2 hrs	@ \$80	\$160				
Clerical	2 hrs	@ \$70	\$140				
Subtotal			\$20,200	\$300	\$57,300		\$77,800
Markup*				\$30	\$5,730		\$5,760
Total (Not-to-exceed) Fee			\$20,200	\$330	\$63,030		\$83,560

*10% for subcontracts, 10% for reimbursable expenses



ENGINEERING DESIGN & CONSULTING
An Alaskan Owned Professional Corporation

EDC, INC.

213 W. Fireweed Lane
Anchorage, AK 99503

August 6, 2013

Scott Hattenburg, P.E.
Hattenburg, Dilley, & Linnell
3335 Arctic Boulevard, Suite 100
Anchorage, AK 99503

Subject: Wasilla Airport Security Equipment & Perimeter Fencing Project – Electrical
Design Proposal

Dear Scott:

This proposal is for providing electrical engineering services in support of Wasilla Airport's planned security improvements. This proposal is based on the following:

SCOPE OF WORK:

EDC, Inc. will provide the design for the replacement of the four security access gate controllers at the Wasilla Airport. The design will include fiber optic cabling and distribution equipment to interconnect the four security gates with new head-end equipment to be located in the office of the existing Snow Removal Equipment Building (SREB). The design will incorporate standby power via the existing standby generator if feasible.

The existing gate operators will be re-used, but existing gate control devices such as card readers, motion detectors, edge sensors and photo-eyes will be evaluated and replaced as necessary. The existing moose guards will also be evaluated and removed if deemed appropriate.

It is anticipated that the design will require the following drawings:

- E1 – Electrical Site Plan, Legend & Abbreviations
- E2 – Electrical Demolition Plan
- E3 – Fiber Optic Cable Overall Routing Plan
- E4– Fiber Optic Cable Routing Detailed Plans
- E5– SREB Electrical Plan
- E6– Security Gate Access Control System Block Diagram
- E7– Fiber Optic Cabling Diagram
- E8– Security Gate Block Diagram
- E9– Security Gate Details
- E10 – Gate Operator Wiring Schematic
- E11- Fiber Optic Details
- E12– Electrical Details

Scott Hattenburg, P.E.

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August 6, 2013

In addition to the drawings, the design will include electrical specifications and an engineer's construction cost estimate.

The scope of work shall also include bidding assistance such as attending a pre-bid conference and walk through. It will also include responding to bidder's questions and providing addenda as necessary.

DELIVERABLES – A full and/or half-size, reproducible copy of each of the design drawings will be provided. An electronic copy of the drawings in AutoCAD format will also be available upon request. Hard and electronic copies of the specifications and cost estimates will also be provided.

ASSUMPTIONS – It is assumed that HDL will provide EDC, Inc. with all the necessary background drawings in AutoCAD format for our use. This proposal also assumes that Marsh Creek shall provide the specifications and construction cost estimate for the gate access control system, system components, head-end equipment, software, equipment racks, etc. Marsh Creek shall also assist in developing the access control system block diagram, gate block diagram and gate details.

EXCLUSIONS – This proposal does not include any construction management services such as submittal reviews or inspections.

FEE - The fee to perform the above scope of work will be billed on a Time and Material basis with a Not-to-Exceed amount of: **\$37,500.00**

Please feel free to contact me if you have any questions concerning this proposal.

Sincerely,

A handwritten signature in black ink, appearing to read "John Faschan", with a long horizontal flourish extending to the right.

John Faschan, P.E.
EDC, INC.

CIP DATA SHEET

Alaska

Airport Name: Wasilla Municipal Airport Fiscal Year: 2014
 Project Title: Replace Security Equipment / Perimeter Fencing Revision No: _____
 AIP Project No: 3-02-0417-XXX-2014 APEB Score: _____

CIP Work Code			Item Description	Federal Share
Purpose	Component	Type		
ST	EQ	SE	Replace Security Equipment / Perimeter Fencing	\$450,000.00
Total Federal Share:				\$450,000.00

Environmental Status:
 EA/FONSI re-evaluation approved February 18, 2009.

Land Title & Exhibit "A" Status:
 Fee simple land is owned by the City of Wasilla, conveyed from the Alaska DOT&PF after the airport's construction in 1992. Exhibit A Property Plan approved by FAA letter dated September 4, 2003.

Airport Layout Plan Status:
 Approved 4/28/2009.

Status of Legislative Authority:
 Not Applicable

Open Projects: (Provide Federal Grant Number and Scheduled Close-Out Date)
 AIP 03-02-0417-016-2010: September 2013 AIP 03-02-0417-019-2010: September 2013
 AIP 03-02-0417-018-2011: September 2013

Project Description:
 Replace vehicle gate controls and related equipment; install underground fiber optic cable between the gates and the Snow Removal Equipment Building (SREB);, and install a new gate control computer and gate control system software.

Project Justification:
 Gate control hardware and software is at the end of service life. Gate control systems are currently not functioning and their replacement is a top priority to improve security and safety.

Anticipated Impacts to existing FAA Facilities:
 None

Justification for delay of Grant Application submission beyond 5/1:
 N/A

Certification

To the best of my knowledge and belief, all information shown in this CIP Data Sheet is true and correct and has been duly authorized by the sponsor.

Archie Giddings
 Representative Name (Print or Type)

[Signature]
 Signature of Authorized Representative
Public Works Director
 Title of Authorized Representative

8/8/13
 Date

Archie Giddings
 Contact Name (Print or Type)

907 373 9018
 Contact Phone (Print or Type)
Public Works Director
 Contact Title (Print or Type)

Replace Security Equipment / Perimeter Fencing

ITEM	ESTIMATED QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1 Job	Airport Safety Requirements	\$5,000	\$5,000
2	1 Job	Building Permits	0	0
3	1 Job	SWPPP (Type 2)	2,500	2,500
4	1 Job	Construction Survey Measurement	0	0
5	1 Job	Traffic Maintenance	5,000	5,000
6	5,000 L.F.	2" HDPE Conduit in Soil	16.00	80,000
7	200 L.F.	2" HDPE Conduit under Pavement	56.00	11,200
8	120 L.F.	3/4" GRC in/on Buildings	22.00	2,640
9	200 L.F.	4" GRC Sleeve	66.00	13,200
10	5,200 L.F.	12-Pair Fiber Optic Cable	4.50	23,400
11	6 Each	Fiber Optic Distribution Panel	5,000	30,000
12	4 Each	Gate Control Upgrades	35,000	140,000
13	1 Job	Misc Utility Relocations	12,700	12,700
14	1 Job	LAN Head End Equipment	10,000	10,000
15	1 Job	Gate Mgmt Hardware / Software	20,000	20,000

Initial Construction Cost Estimate \$355,640

Land Acquisition 0

Design 83,560
Construction Management 40,800
Subtotal 480,040

Local Share @ 6.25% 30,000
Federal Share @ 93.75% 450,000
\$480,000