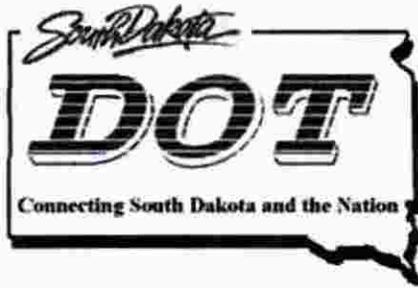


OK



Department of Transportation

Division of Secretariat
Office of Air, Rail & Transit
700 East Broadway Avenue
Pierre, South Dakota 57501-2586
OFFICE: 605/773-3574
FAX: 605/773-2804

SD Aeronautics Commission

Meeting Agenda

June 28, 2016 1:00 PM

Pierre, SD

To participate via phone, please dial 1-866-410-8397 enter CODE 1289182255 to join meeting.

Becker-Hansen Building Room 200, 700 East Broadway Avenue, Pierre, SD 57501

Skip Vanderhule, Chairman

- Call to Order
- Approve Minutes from May 24 , 2016 meeting 1

Joel Jundt, Division of Secretariat

- Secretary's Report.....2

Bruce Lindholm, Office of Aeronautics

- Aeronautics Commission Report for 2015.....3

Jennifer Boehm, Office of Aeronautics

- State grant amendments4

Jon Becker, Office of Aeronautics

- Belle Fourche funding request.....5
- Financial Assistance Agreements.....6

Karla Engle, Office of Legal Counsel

- Discussion of laws relating to boards, authorities and commissions..7

ADJOURN

Next Aeronautics Commission Meeting will be July 26, 2016.

Meeting agendas are now posted online at Boards and Commissions site
<http://boardsandcommissions.sd.gov/>

Notice is further given to individuals with disabilities that this *commission meeting* is being held in a physically accessible place. Any individuals with disabilities who will require a reasonable accommodation in order to participate in the *commission meeting* should submit a request to the department's ADA Coordinator at 605-773-3540 or 1-800-877-1113 (Telecommunication Relay Services for the Deaf). Please request the accommodations no later than **2 business days prior to the meeting** in order to ensure accommodations are available.

**SD Aeronautics Commission
Meeting Minutes
Pierre, SD
May 24, 2016 1:00 PM**

MEMBERS (VIA PHONE): Skip VanDerhule, Chairman
Dave Luers
Dan Noteboom
Arnie Hauge
Eric Odenbach

STAFF: Bruce Lindholm, Colton Stahl, Jon Becker, Tom Koch, Tessa Wenner, Bonnie Olson, and Karla Engle

OTHERS: Bob Mercer and Steve Hamilton (via phone)

AGENDA ITEMS:

- Call to Order
- Approve Minutes from April 6, 2016 meeting
- Aeronautical Hazards
- Aeronautical Trust fund
- SDSU ACE Camp funding
- SD Airports Conference funding request

Chairman VanDerhule called the regular meeting of the South Dakota Aeronautics Commission (the "Commission") to order at 1:05 PM. A roll call was taken and a quorum was determined.

A motion was made by Luers, second by Odenbach, to approve the April 6, 2016, Aeronautics Commission meeting minutes. A roll call was taken and all voted aye. Motion carried.

Tom Koch, Office of Aeronautics

Aeronautical Hazards:

Permit #'s 2016-3865-3873 Sioux Falls, SD
FAA Aeronautical Study 2016-AGL-3865 OE to 2016-AGL- 3873-OE

The City of Sioux Falls will be rebuilding an existing transmission line close to State Highway 15 (Minnesota Ave) utilizing 9 new laminated wood structures, the closest being approximately 1400.0 feet east of the Sioux Falls airport.

The FAA has determined:

- This proposal does not exceed FAA obstruction standards and would not be a hazard to air navigation.
- Aeronautical studies, 3866, 3867, and 3873 must be marked/lighted as per FAA requirements.

The South Dakota Department of Transportation ("DOT") is recommending Commission approval.

A motion was made by Hauge, second by Noteboom, to approve the Permit #'s 2016-3865 to 3873 Sioux Falls, SD. A roll call was taken and all voted aye. Motion carried.

Jon Becker, Office of Aeronautics

Aeronautical Trust fund:

At the Commission's request, Jon Becker presented a summary of trust fund projections using various state match percentages and grant program values. No action was taken.

SDSU ACE Camp funding:

Jon Becker presented a request from South Dakota State University ("SDSU") for funding for the Aerospace Career and Education Camp (ACE Camp). SDSU will hold its 2016 ACE Camp from July 21st through July 24th, 2016, on the SDSU campus. The SDSU Aviation Program is asking for \$5,000 this year to assist with oversight, transportation activities, and food.

A motion was made by Odenbach, second by Luers, to approve a \$5,000 grant to SDSU to assist with expenses associated with the ACE Camp and to authorize the Secretary of DOT, or his designee, to enter into an agreement with SDSU for the grant. A roll call was taken and all voted aye. Motion carried.

Bruce Lindholm, Program Manager, Office of Air, Rail, and Transit

SD Airports Conference funding request:

DOT is requesting use of the Aeronautics Fund to cover excess costs incurred at the 2016 SD Airports Conference. Due to a miscalculation, the registration fee of \$45 per person was not sufficient to cover the total expenditures. Total cost of the conference was

\$7,342.43. DOT staff collected \$5,397 in registration fees which leads to a shortfall of \$1,945.43.

DOT is requesting approval for an expenditure from the Aeronautics Fund in the amount of \$1,945.43 to pay the remaining balance associated with the 2016 SD Airports Conference.

A motion was made by Luers, second by Noteboom, to approve the expenditure from the Aeronautics Fund in the amount of \$1,945.43 to pay the remaining balance associated with the 2016 Airports Conference. A roll call was taken and all voted aye. Motion carried.

Adjourn:

Motion to adjourn by Noteboom, second by Luers. All voted aye. Motion carried.
Meeting adjourned at 2:50 PM.

Next meeting to be held June 28, 2016.

DRAFT

AERONAUTICS COMMISSION REPORT FOR 2015

50-2-4. Report to Governor. On or before the thirty-first day of December, in each year, the commission shall make, to the Governor, a full report of its proceedings for the year ending the thirtieth day of June preceding and may submit with the report any recommendations pertaining to the commission's affairs as seem to the commission to be desirable.

1. Commission members and terms (all expire on October 30)

Skip VanDerhule, Chairman, Yankton, term expires 2017
Eric Odenbach, Vice-Chairman, Eureka, term expires 2018
Dave Luers, Pierre, term expires 2016
Christopher Funk, Volga, term expires 2018
Travis Lantis, Spearfish, term expires 2016
Dan Noteboom, Corsics, term expires 2018
Arnie Hauge, Sioux Falls, term expires 2016

2. Staffing of aeronautics office (no vacancies at this time)

Engineering manager and secretary (1/3 each to aeronautics), two engineers, a project technician and a program assistant.

3. Number of airports

There are currently 70 public use airports in the State (6 commercial services with the remainder being general aviation). Three airports have closed in recent years (North Sioux City, Dupree, and McIntosh).

4. Number of registered aircraft over last five years and the registration fees collected in the same time period

- a. Please see Attachment #1. The "registration fee" is due yearly based on the size and age of an aircraft. This law is outdated with the average registration being less than \$35, and a relatively large percentage of aircraft registered for \$12.50 per year.
- b. The "Tax Payment" is an original registration tax based on the purchase price of the aircraft. This is 4% on all aircraft except agriculture related which is 3%. The great variation from year to year is caused by the high value of some aircraft. The original registration of just one \$20,000,000 dollar jet would provide \$800,000 in tax.
- c. The number of registered aircraft has increased for the last five years. There was a significant increase (9.4%) between 2013 & 2014.

5. Aviation fuels used in the last five years and the tax received in the same time period

	AV Gas	Jet Fuel	Total	Fuel Collections	Tax on Aircraft	Total
FY2010	1,266,792.00	12,625,034.00	13,891,826.00	\$550,997	\$536,712	\$1,087,709
FY2011	1,314,542.00	15,682,589.00	16,997,131.00	\$751,441	\$1,610,106	\$2,361,547
FY2012	1,144,570.00	16,620,410.00	17,764,980.00	\$767,631	\$774,998	\$1,542,629
FY2013	1,171,553.00	16,607,131.00	17,778,684.00	\$737,928	\$1,630,462	\$2,368,391
FY2014	1,016,967.00	14,924,629.00	15,941,596.00	\$715,358	\$1,019,578	\$1,734,936
FY2015	1,082,901.00	16,447,910.00	17,530,811.00	\$729,541	\$1,259,876	\$1,989,417

a. Federal funds received in the last six years.

FY2010-\$38,406,473

FY2011-\$38,518,358

FY2012-\$26,704,910

FY2013-\$31,812,519

FY2014-\$19,831,306

FY2015-\$20,432,294

b. Federal funding issues. The required match to federal funds changed in 2012 from 5% to 10%. The commission changed the State portion from 3% to 5% in 2013 which leaves 5% for local match.

6. List of Airport Improvement Program (AIP) projects in FY16 is in draft form and will likely change. See attachment #2.
7. Airport inspections. Each non-commercial airport is inspected by DOT each year, with further compliance inspections conducted as needed. The commercial service airports are inspected by the FAA.
8. Aeronautics Trust Fund
Please see attachment #3 for a report on the aeronautics fund condition. In 2010, \$3.5 million was swept from the fund through legislative action for other uses. In 2014, the legislature put \$500,000 back into the fund. The fund's largest expense is the match required on federal money used for the Airport Improvement Program (AIP). Examples of AIP projects include runway construction, runway maintenance, taxiways, airport aprons, revenue producing hangers and fuel systems, runway lighting, airport fencing, and other infrastructure improvements. The other two highlights in the report show a trend in "receipts less disbursements" and in the "ending cash balance".
9. Legislation
 - a. Title 50 on aviation was updated in the 2014 legislature with a major re-write and clean-up.
 - b. Other legislative issues for the future. "Fees" were not addressed in the Title 50 re-write in 2014. The two main sources of revenue to the aeronautics trust fund in South Dakota are tax on aviation fuel and original registration (sales) tax on aircraft. We want these two taxes to both produce adequate revenue yet stay competitive with other states. For example, we want aircraft fueled in South Dakota, and we want aircraft to be registered in the State. We cannot price ourselves out of the market. Yearly aircraft registration and dealer fees are severely outdated in law. For example, a large percentage of aircraft in the State are registered for \$12.50. It costs more to provide the decal. Because of the relatively small number of aircraft, we could double the fees and collect another

\$50,000 in revenue. It is not a large generator of revenue, so on the other hand why cause grief by raising the fees excessively.

10. Status of airport directory and aeronautical chart

- a. Periodically (mostly bi-annually) the Commission has authorized the development and publication of two pilot resources; the Airport Directory and the South Dakota Aeronautical Chart. These were distributed in CY 2015 at a total cost of about \$18,000.
- b. DOT sponsors a yearly "Airport's Conference" usually in the spring to bring together airport managers, airport sponsors which is usually a municipality, engineering consultants which represent the sponsors in construction projects, and the regulators. The conference is used to educate and discuss issues.

11. Issues

a. UAV's

Unmanned aerial vehicles (drones) is a rapidly growing industry. The FAA is slow to develop regulation and the industry is impatient. Some of the issues with UAV's: privacy concerns when used by law enforcement and by private entities; the safe and responsible use of UAV's to keep the skies safe for aviation; and the use of UAV's for criminal activity. Some states are adopting their own laws for these concerns plus provisions for civil action when UAV's are used improperly. FAA recently (December 2015) came out with rules regarding registration of UAV's.

b. Super AWOS

Using the aeronautics trust fund, the State has purchased and placed 29 remote weather reporting stations in South Dakota. These reporting stations use equipment called Super AWOS. The FAA will not certify this equipment which causes problems with using the information by some pilots in some situations. There is a battle between the FAA and the company producing the Super AWOS.

c. Re-organization of the FAA offices

The FAA has recently completed a reorganization of their field offices. In the past, South and North Dakota were combined to form one area district office (ADO) with the office located in Bismarck. Now, Minnesota has been added to this area and the main office was moved to Minneapolis. Some were worried South Dakota would lose its identity and funding for the airport improvement program. There is still an office in Bismarck with more FAA employees than before. We have not experienced a change in dealing with the FAA nor the funding.

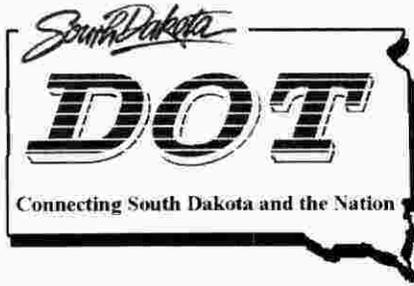
d. Permitting of towers and other tall structures

One function of the Commission is to permit hazards to air navigation such as towers. The legislature was lobbied and SDCL 50-9-1 was amended in 2014 to include the following language.

Any person or organization, who intends to construct or alter a structure that exceeds two hundred feet above ground level and that is outside the zones described in this section and who has obtained a Federal Aviation Administration determination of no hazard, may provide that determination to the commission prior to the start of construction in lieu of the application and permit required by this chapter.

Although FAA action preempts the State, the FAA has no enforcement authority over tower construction. With the State's enforcement authority, we worked with the FAA for the safe construction of towers. We have not received one notification per this law to date.

12. Recommendations. FAA recently requested closer cooperation between SDDOT, airport sponsors and the FAA. We have outlined a process for that increased coordination – it will involve more staff travel time to regional meetings to discuss airport projects. We believe this increased coordination is a benefit to the Aeronautics Program at SDDOT in the form of reduced rework and more efficient delivery of projects.



Department of Transportation

Division of Secretariat
Office of Air, Rail & Transit
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Pierre, South Dakota 57501-2586
OFFICE: (605)773-3574
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TO: South Dakota Aeronautics Commission
FROM: Jennifer Boehm
Office of Air, Rail, and Transit
DATE: June 28, 2016
SUBJECT: State grant amendments

Sioux Falls Regional Airport AIP# 3-46-0050-41-2010 –Construct Westside General Aviation Apron; Design for Runway Intersection Reconstruction (Phase I, Engineering Report); Environmental Assessment for Runway 3/21 Runway Safety Area (RSA) Improvements; Update Airport Master Plan (Land Inventory); Rehabilitate Runway Signs, Improve ARFF Building Communications.

The federal grant amount was increased to reflect final as-built measured quantities for construction. The state share must increase accordingly.

	Federal (95%)	State (3%)
Final project	\$2,984,409.89	\$94,244.52
Original grant	\$2,931,999.00	\$92,589.44
Change	\$52,410.89	\$1,655.08

The Department recommends approval of a state grant amendment in the amount of \$1,655.08.

Sioux Falls Regional Airport AIP# 3-46-0050-47-2013 – Construct Phase 2 of Runway 3 Safety Area Correction (Mitigation of Golf Course).

The federal grant amount was increased by \$615,546.00 to cover expected final costs due to as-built measured quantities for construction. The state share must increase accordingly.

	Federal (90%)	State (5%)
Final project	\$4,719,186.00	\$262,177.00
Original grant	\$4,103,640.00	\$227,980.00
Change	\$615,546.00	\$34,197.00

The Department recommends approval of a state grant amendment in the amount of \$34,197.00.

Lawrence County/Black Hills Airport AIP# 3-46-0065-17-2010 – Construct Parallel Taxiway (Phase 2-earth work and obstruction removal).

The federal grant amount was increased to reflect final as-built measured quantities for construction. The state share must increase accordingly.

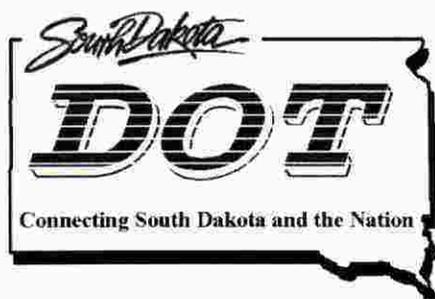
	Federal (95%)	State (3%)
Final project	\$1,843,482.52	\$58,215.24
Original grant	\$1,832,782.00	\$57,877.33
Change	\$10,700.52	\$337.91

The Department recommends approval of a state grant amendment in the amount of \$337.91.

SUMMARY OF PROJECT COSTS		1.Proj. No. 3-46-0050-041-2010
3.Sponsors Name and Address SIOUX FALLS REGIONAL AIRPORT AUTHORITY		2.Grant No.
5.Official Name and Location of Airport SIOUX FALLS REGIONAL AIRPORT 2801 JAYCEE LANE SIOUX FALLS, SD 57104-0196		4.Period end 06/07/2016
		6.MaxFed.Funds \$3,001,999.00
DESCRIPTION	LATEST REVISED TOTAL ESTIMATED COST	ACTUAL COST INCURRED TO DATE
I. CONSTRUCTION:		
A. GA Apron-D & G Construction w/CCO #1-3	\$2,261,014.90	\$2,249,333.37
Eligible share @ 96.41%	\$2,179,844.47	\$2,168,582.30
Ineligible share @ 3.59%	\$81,170.43	\$80,751.07
B. Crash Net System Equip-Forum Comm.	\$37,060.00	\$37,060.00
C. Runway Signs (materials only)	\$13,671.00	\$13,671.00
D. GA Apron - Qwest Relocate	\$15,383.84	\$15,383.84
E. ARFF Communication Line-All-Phase	\$88,471.91	\$78,484.26
TOTAL ELIGIBLE CONSTRUCTION	\$2,334,431.22	\$2,313,181.40
II. ENGINEERING: Goldsmith & Heck w/KLJ as Sub APRON ENGINEERING & TESTING		
A. GA Apron-Design	\$122,578.21	\$120,700.79
B. GA Apron-Const Admin	\$185,598.60	\$171,383.60
C. GA Apron Testing-Tetra Tech/AET	\$22,770.00	\$18,480.12
D. GA Apron Soils Report-Tetra Tech/AET	\$2,195.00	\$2,195.00
TOTAL APRON ENG:	\$333,141.81	\$312,759.51
Eligible Share @ 96.41%	\$321,182.02	\$301,531.44
Ineligible Share @ 3.59%	\$11,959.79	\$11,228.07
A. Rwy Intsctn Justification Report	\$118,831.06	\$118,831.06
B. Rwy Intsctn Soil Borings-Tetra Tech/AET	\$3,280.00	\$3,280.00
C. Rwy 3/21 RSA EA	\$314,922.00	\$311,804.00
D. Exhibit A Property Map	\$25,840.47	\$25,840.47
E. ARFF Comm Line-Design	\$22,611.00	\$22,611.00
F. ARFF Comm Line-Const Admin	\$15,224.79	\$8,330.49
TOTAL ELIGIBLE ENGINEERING	\$821,891.34	\$792,228.46
III. ADMINISTRATION		
A. Advertising	\$533.03	\$533.03
B. Closeout Costs (including Apron Clsout)	\$20,211.00	\$20,211.00
C. Other-Title Search, Independent Review & RSA rep.	\$15,330.20	\$15,330.20
TOTAL ADMINISTRATION	\$36,074.23	\$36,074.23
TOTAL ELIGIBLE PROJECT COST	\$3,192,396.78	\$3,141,484.09
FEDERAL -95% w/Amend #1	\$3,001,999.00	\$2,984,409.89
STATE- 3% (Max \$92,589.44)	\$92,589.44	\$94,244.52
LOCAL SHARE- 2%	\$97,808.34	\$62,829.68
State Amendment Needed	\$1,655.08	
CERTIFICATION:		
DATE:	PREPARED BY:	
SCOPE: Construct Westside General Aviation Apron; Design for Runway Intersection Reconstruction (Phase I, Engineering Report); Environmental Assessment for Runway 3/21 Runway Safety Area (RSA) Improvements. Update Airport Master Plan (Land Inventory); Rehabilitate Runway Signs. Improve ARFF Building Communications.		

SUMMARY OF PROJECT COSTS		1.Proj. No. 3-46-0050-47-2013
3.Sponsors Name and Address SIOUX FALLS REGIONAL AIRPORT AUTHORITY		2.Grant No.
5.Official Name and Location of Airport SIOUX FALLS REGIONAL AIRPORT 2801 JAYCEE LANE SIOUX FALLS, SD 57104-0196		4. Period Ending 06/21/2016
		6.MaxFed.Funds \$4,103,640.00
DESCRIPTION	LATEST REVISED TOTAL ESTIMATED COST	ACTUAL COST INCURRED TO DATE
I. EQUIPMENT		
II. CONSTRUCTION:		
A. Landscapes Unlimited - Elmwood G.C. Phase	\$1,710,908.79	\$1,710,908.79
Less ineligible cart path construct per CCO #4	(\$100,774.31)	(\$100,774.31)
B. Landscapes Unlimited - Elmwood G.C. Phases	\$3,956,521.95	\$3,399,816.77
Less ineligible irrigation & cart paths, etc.	(\$716,451.95)	(\$656,964.46)
C. Elmwood G.C. Maintenance Bldg-Beck & Hofe	\$514,061.85	\$514,061.45
TOTAL CONSTRUCTION	\$5,364,266.33	\$4,867,048.24
III. ENGINEERING: Goldsmith & Heck w/KLJ as Sub		
Elmwood G.C.-Phase 1 C.A.	\$66,276.00	\$63,898.79
Elmwood G.C.-Phase 2/3 C.A.	\$136,231.00	\$76,245.91
Elmwood G.C. Maintenance Bldg-Design/C.A.	\$47,935.00	\$47,935.00
Testing by AET, Inc.-G.C. Renovation Testing	\$1,734.00	\$1,071.00
Testing by AET, Inc.-Phase 2/3 Quality Control Te	\$1,254.00	\$628.00
Testing by Geotek-Maintenance Bldg Testing	\$1,774.00	\$2,927.50
TOTAL ENGINEERING	\$255,204.00	\$192,706.20
III. ADMINISTRATION	\$281.82	\$281.82
TOTAL PROJECT COST	\$5,619,752.15	\$5,060,036.26
FEDERAL SHARE-90% w/Amend #1	\$4,719,186.00	\$4,554,032.63
STATE SHARE-5% MAX = \$227,980.00	\$227,980.00	\$262,177.00
LOCAL SHARE-5%	\$62,586.15	\$243,826.63
State Amendment Needed	\$34,197.00	
CERTIFICATION:		
DATE:	PREPARED BY:	
SCOPE: Construct Phase 2 of Runway 3 Safety Area Correction (Mitigation of Golf Course).		

SUMMARY OF PROJECT COSTS		1.Proj. No 3-46-0065-17-2010
3.Sponsors Name and Address COUNTY OF LAWRENCE DEADWOOD SD		2.Grant No.
5.Official Name and Location of Airport BLACK HILLS AIRPORT PO BOX F DEADWOOD, SD 57732		4.Period end 07/05/2016
		6 Max Fed. Funds \$1,843,483
DESCRIPTION	LATEST REVISED TOTAL ESTIMATED COST	ACTUAL COST INCURRED TO DATE
I. CONSTRUCTION: Phase I, parallel taxiway		
A. Taxiway/Apron - EKE, INC. dba Johner & Sons w/CCO #	\$2,961,292.74	\$2,961,292.74
To be paid in BH-17	\$730,468.08	\$730,468.08
Rollover to BH-18	\$2,105,263.16	\$2,105,263.16
Rollover to Pymt Maintenance Grant (SDDOT-16)	\$125,561.50	\$125,561.50
B. Tee Hangar - Glen Barber & Assoc, Inc. w/CCO #3	\$651,035.83	\$641,695.42
Eligible-Six Unit Tee Hgr Bldg	\$437,105.81	\$431,017.65
Ineligible-Additional 5 Hgr Units	\$213,930.02	\$210,677.77
D. MDU-move gas line	\$1,447.13	\$1,447.13
E. Hangar Relocation - LESKCA, Inc.-w/ CCO#1	\$105,222.60	\$105,222.60
F. Greens Moving-move hangar contents	\$4,100.00	\$4,100.00
TOTAL CONSTRUCTION	\$3,723,098.30	\$3,713,757.89
To Be Paid in BH-17	\$1,278,343.62	\$1,272,255.46
Ineligible	\$213,930.02	\$210,677.77
Rollover to BH-18 or SDDOT-16	\$2,230,824.66	\$2,230,824.66
II. CONSTRUCTION: Fuel System		
A. EKE, Inc. dba Johner & Sons	\$564,491.35	
Phase 1 to be paid in BH-19	\$143,049.49	
Phase 2 to be paid in BH-21	\$272,222.22	
Phase 3 to be paid in BH-17	\$149,219.64	\$147,689.64
TOTAL CONSTRUCTION to be paid here	\$149,219.64	\$147,689.64
III. ENGINEERING: KLJ-Rapid City		
Fuel System		
A. Design/Bidding w/Amend #2	\$27,506.09	\$27,506.09
Runway End 31		
A. Construction Administration	\$45,452.98	\$45,024.10
B. Inspection w/Amend #2	\$194,875.97	\$168,840.81
C. Testing - Terracon Inc.	\$27,234.00	\$13,757.50
Runway End 13		
A. Bidding & Negotiation	\$5,990.87	\$5,990.87
B. Construction Admin	\$46,300.96	\$42,432.83
C. Inspection	\$234,868.16	\$219,855.53
D. Testing - American Tech. Services	\$31,413.00	\$24,845.00
TOTAL ENGINEERING	\$613,642.03	\$548,252.73
To Be Paid in BH-17	\$583,389.48	\$521,223.87
Ineligible (4.93%)	\$30,252.55	\$27,028.86
IV. ADMINISTRATION	\$774.90	\$774.90
TOTAL PROJECT COST	\$4,486,734.87	\$4,410,475.16
Less Rollovers	\$2,230,824.66	\$2,230,824.66
Less Ineligible Costs	\$244,182.57	\$237,706.63
TOTAL ELIGIBLE COSTS	\$2,011,727.64	\$1,941,943.87
FEDERAL SHARE: 95% w/Amend #1-MAX=\$1,843,482.52	\$1,843,482.52	\$1,843,482.52
STATE SHARE: 3% (Max \$57,877.33)	\$57,877.33	\$58,215.24
LOCAL SHARE: 2%	\$2,585,375.02	\$2,508,777.40
State Amendment Needed	\$337.91	
CERTIFICATION:		
DATE:	PREPARED BY:	
SCOPE Construct Parallel Taxiway (Phase 2 - earth work and obstruction removal)		



Department of Transportation

Division of Secretariat

Office of Air, Rail & Transit

700 East Broadway Avenue

Pierre, South Dakota 57501-2586

OFFICE: (605)773-3574

FAX: (605)773-2804

TO: South Dakota Aeronautics Commission

FROM: Jon Becker
Office of Air, Rail, and Transit

DATE: June 28, 2016

SUBJECT: Belle Fourche funding request

The City of Belle Fourche has submitted a letter summarizing their work on the aviation fuel system, and the recent change of eligibility of their fuel tanks for AIP funding. The city is requesting funding for 50% of the cost of new fuel tanks. The letter is attached.

A Grant Pre-Application for the project was submitted on 11/30/15 to the SDDOT for programming in 2016.

The project then proceeded to design and plans preparation during early 2016. The project began advertising for bids on May 18, 2016 and was scheduled for a June 15, 2016 bid opening. On June 1, 2016 an email received from FAA in Bismarck indicated that fuel systems would no longer be eligible for federal funding, which stopped the project from proceeding with a bid letting. A second email on June 2, 2016 from FAA indicated that all components related to the card reader system (with the exception of the fuel tanks) would be eligible for funding. Both emails are attached to the letter.

These turn of events has put the City of Belle Fourche in an unexpected situation as they had only budgeted for 5% of the estimated \$433,000 project cost. The cost of the two 10,000 gallon tanks to be installed and for removal of the old tanks is estimated at \$133,000. The remainder of the \$300,000 estimated cost would be eligible for 90% federal funding level.

In trying to move forward with the project with increased funding on the City's part, it has been decided to downsize the new tanks to 2- 5,000 gallon tanks. It is estimated the cost for removal of the old tanks and installation of the new tanks would be \$80,000. The City of Belle Fourche would have the ability at this time to fund 50% of the estimated \$80,000 cost of the tanks in addition to the 5% funding for the remaining eligible portion of the project.

At this time, the City of Belle Fourche is respectfully requesting a funding obligation from the State Aeronautics Commission of \$40,000 to assist the City in the funding of the new fuel tanks at the Belle Fourche Airport. We sincerely hope that the events that have led the City to this point in requesting additional state money warrants such request. The need for an updated system is strong at the Belle Fourche Airport and will be very difficult to accomplish without additional funding.

Thank you for your consideration in our request and we look forward to hearing from you on the matter.

Sincerely,

Gloria Landphere, Mayor
City of Belle Fourche

June 13, 2016

SDDOT Aeronautics Commission
700 E. Broadway Ave.
Pierre, SD 57701

RE: Belle Fourche Municipal Airport Fuel System Replacement Project
AIP 3-46-0072-11-2016

Dear Commission:

The City of Belle Fourche has been in the planning stages to replace the existing fuel system of the last several years. The system was originally installed in 1985, so has been in place and operable for the last 31 years. The system consists of 2 – below ground 2,000 gallon tanks with manual fuel dispenser pumps located on the apron. The replacement system was originally planned for 2 – 10,000 gallon below ground tanks with manual fuel dispenser pumps and an automated card reader which would allow the user to pump their own fuel should the airport manager not be available. The reasons for the need of the project are as follows:

- The system has been in-place for 31 years and is becoming unreliable. Parts are becoming extremely difficult to find for the pumps and the maintenance is becoming more and more frequent.
- The South Dakota Department of Environment and Natural Resources informed the City of Belle Fourche in early 2016, that their fuel tanks and system had fallen out of compliance with DENR regulations and that replacement or monitoring of the system was needed. (See attached DENR Letter)
- The current system does not include a 24 hour card reader. This makes it difficult at times for transient air traffic to fuel if the airport manager is not available for service.
- Increased fuel sales are projected to increase by 3600 gallon per year into 2020 at the airport. This projected increase makes it necessary for the increase in tank size for each fuel type to allow a full tanker to be unloaded at the airport.

The project was originally programmed to be completed in 2015. During the initial stages the project, the City was informed by the FAA in Bismarck that since it was a replacement system, that the project would be allowed to have a simple CATEX completed for the environmental requirements. The CATEX was submitted for approval in April of 2015. Upon receipt and review of the CATEX, the FAA informed the Consultant that a full EA was needed due to the change in fuel tank size, which triggered a delay in the project. A condensed Environmental Assessment was completed and submitted to FAA for review in early November, 2015. Upon review of the EA, the Bismarck FAA the Consultant that the rules for environmental requirements had changed in October and that the replacement of the fuel system (regardless of tank size) would be allowed to go through the CATEX process. A new CATEX was completed on 11/11/15 and submitted to the Bismarck FAA for approval. On 11/16/15 the approved CATEX from the FAA was received by the City.

In addition to the environmental requirements, a Business Plan was developed outlining the need for a new fuel system. The plan outlined the need for the upsizing of the tanks from 2,000 gal. each to 10,000 gallons for each fuel type. The Business Plan was submitted to SDDOT and the FAA on 11/11/15 along with the CATEX.



Department of Transportation 2

Division of Secretariat
Office of Air, Rail & Transit
700 East Broadway Avenue
Pierre, South Dakota 57501-2586
OFFICE: 605-773-3574
FAX: 605-773-2804

TO: South Dakota Aeronautics Commission
FROM: Jon Becker
Office of Air, Rail, and Transit
DATE: June 28, 2016
SUBJECT: Financial Assistance Agreements

The Office of Aeronautics is requesting funding from the State Aeronautics Fund for the AIP projects below.

Aberdeen 3-46-0001-036-2016

Design and Construct runway 17/35 decoupling; shift runway and associated infrastructure

Federal Share	\$ 6,075,000.00
State Share	\$ 337,500.00
Local Share	\$ 337,500.00
Total	\$ 6,750,000.00

The Department recommends approval of state assistance in the amount of \$337,500.00.

Highmore 3-46-0019-008-2016

Construct parallel taxiway extension

Federal Share	\$ 748,700.00
State Share	\$ 41,594.48
Local Share	\$ 41,595.17
Total	\$ 831,889.65

The Department recommends approval of state assistance in the amount of \$41,595.00.

Hot Springs 3-46-0020-012-2016

Construct parallel taxiway

Federal Share	\$ 994,173.80
State Share	\$ 55,231.88
Local Share	\$ 55,231.88
Total	\$ 1,104,637.56

The Department recommends approval of state assistance in the amount of \$55,232.00.

Redfield 3-46-0049-009-2016

Land appraisal, legal survey, land acquisition, wildlife hazard site visit, wildlife hazard management plan.

Federal Share	\$ 522,000.00
State Share	\$ 29,000.00
Local Share	\$ 29,000.00
Total	\$ 580,000.00

The Department recommends approval of state assistance in the amount of \$29,000.00.

Helms & ASSOCIATES

CIVIL ENGINEERS & LAND SURVEYORS

221 Brown County Hwy 19
P.O. Box 111
Aberdeen, SD 57402

Phone: (605) 225-1212 Fax: (605) 225-3189
Email: operations@helmsengineering.com

Runway 17/35 Decoupling
Aberdeen Regional Airport
Aberdeen, South Dakota
AIP #3-46-0001-036-2016
Helms #A-6090
Engineer's Estimate
May, 2016

Bid Schedule A - Grading and Paving

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	GP-105	Mobilization	1	L.S.	\$ 239,000.00	\$ 239,000.00
2	GP-50	Construction Staking	1	L.S.	\$ 50,000.00	\$ 50,000.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$ 40,000.00	\$ 40,000.00
4	P-101	Asphalt Pavement Removal (7" Nominal Depth)	18,142	SqYd	\$ 3.50	\$ 63,497.00
5	P-152	Unclassified Excavation	45,598	CuYd	\$ 3.50	\$ 159,593.00
6	P-152	On-Site Borrow Excavation	10,616	CuYd	\$ 4.00	\$ 42,464.00
7	P-154 (MOD)	Subbase Course	47,038.0	Ton	\$ 12.00	\$ 564,456.00
8	P-209 (MOD)	Crushed Aggregate Base Course	9,951.0	Ton	\$ 25.00	\$ 248,775.00
9	P-401	Bituminous Base/Surface Course	10,152.0	Ton	\$ 67.00	\$ 680,184.00
10	P-401	Bituminous Binder (PG 64-34)	711.0	Ton	\$ 800.00	\$ 568,800.00
11	P-602	Bituminous Prime Coat	39.0	Ton	\$ 1,000.00	\$ 39,000.00
12	P-603	Bituminous Tack Coat	26.0	Ton	\$ 600.00	\$ 15,600.00
13	P-620	Runway and Taxiway Painting	1	L.S.	\$ 80,000.00	\$ 80,000.00
14	P-620	Runway and Taxiway Painting (RHP, ETCL, SPHPS)	1	L.S.	\$ 15,000.00	\$ 15,000.00
15	P-621	Saw Cut Runway Grooving	10,924	SqYd	\$ 2.25	\$ 24,579.00
16	D-701	15" RCP	210	Ft	\$ 40.00	\$ 8,400.00
17	D-701	24" RCP Arch	100	Ft	\$ 70.00	\$ 7,000.00
18	D-701	24" RCP Arch Flared End	1	Each	\$ 700.00	\$ 700.00
19	D-701	Connect to Existing Inlet/Junction Box	1	Each	\$ 300.00	\$ 300.00
20	D-701	Connect to Existing RCP	8	Each	\$ 200.00	\$ 1,600.00
21	D-705 (MOD)	6" Perforated Underdrain	6,106	Ft	\$ 10.00	\$ 61,060.00
22	D-705 (MOD)	6" Solid Underdrain	108	Ft	\$ 15.00	\$ 1,620.00
23	D-705 (MOD)	Connect Underdrain to Manhole	2	Each	\$ 200.00	\$ 400.00
24	D-705 (MOD)	Connect Underdrain to RCP	4	Each	\$ 250.00	\$ 1,000.00
25	D-751	48" Underdrain Manhole	18	Each	\$ 3,000.00	\$ 54,000.00
26	D-751	2' x 3' Storm Sewer Inlet w/Type E Frame and Grate and 10' x 10' Concrete Apron	1	Each	\$ 3,500.00	\$ 3,500.00
27	D-751	3' x 4' Storm Sewer Inlet w/Salvaged Frame and Grate	2	Each	\$ 4,000.00	\$ 8,000.00
28	D-751	3' x 4' Storm Sewer Junction Box w/Type A Manhole Frame and Lid	4	Each	\$ 4,000.00	\$ 16,000.00
29	T-901	Seeding and Fertilizing	40.0	Acre	\$ 800.00	\$ 32,000.00
30	T-905	Topsailing	23,340	CuYd	\$ 4.00	\$ 93,360.00
31	TL-100	Field Laboratory, Type I	1	Each	\$ 8,000.00	\$ 8,000.00
32	SP-2	Geogrid	8,000	SqYd	\$ 3.00	\$ 24,000.00
33	SP-3	Geotextile Separator Fabric	29,956	SqYd	\$ 2.00	\$ 59,912.00
34	Plans	Remove and Dispose of Storm Sewer Inlet	4	Each	\$ 500.00	\$ 2,000.00
35	Plans	Remove and Dispose of RCP	80	Ft	\$ 10.00	\$ 800.00
36	Plans	9" Diameter Erosion Control Wattles	320	Ft	\$ 6.00	\$ 1,920.00
37	Plans	Type II Erosion Control Blanket	4,890	SqYd	\$ 2.00	\$ 9,780.00
38	Plans	High Flow Silt Fence	95	Ft	\$ 5.00	\$ 475.00
Estimated Bid Schedule A Total						\$ 3,226,775.00

SCHEDULE AND COSTS

PROPOSED SCHEDULE

The WHSV will take place over a three day period, beginning no later than the week of April 18th, 2016. An additional three weeks will be required to prepare the final report. A draft WHMP will be prepared no later than June 5, 2016 and submitted to the airport for comment. Following any comments from the City of Redfield, Helms & Associates and the FAA, MWS will update the WHMP as necessary, in a timely manner.

April 18 - 20, 2016	Initial Meeting and Conducting WHSV
May 16, 2016	Submission of WHSV Report
June 5, 2016	Submission of Draft WHMP

NTE COST ESTIMATE

The proposed cost totaling \$11,900.00 for MWS to conduct the WHSV at Redfield Municipal and develop the WHMP is outlined in the tables below.

Phase: Wildlife Hazard Assessment	Hours	Cost
Site Visit, Data Collection, Gather Background Info	24	\$2,400.00
Travel (4 Hours RT Pierre – Redfield)	4	400.00
Data Analysis and WHSV Report Preparation	48	4,800.00
Subtotal		\$7,600.00
Total Hours	76	
Hourly Rate	\$100.00	
EXPENSES		
Per Diem - \$150/day @ 2 days		\$300.00
WHSV Subtotal		\$7,900.00

Phase: Wildlife Hazard Management Plan	Hours	Cost
Wildlife Hazard Management Plan	40	\$4,000.00
Subtotal		4,000.00
Total Hours	40	
Hourly Rate	\$100.00	
WHMP Subtotal		\$4,000.00

Total NTE Cost of WHA and Management Plan	Cost
Phase: Wildlife Hazard Assessment	\$7,900.00
Phase: Wildlife Hazard Management Plan	4,000.00
Grand Total	\$11,900.00

COST SUMMARY

REDFIELD MUNICIPAL AIRPORT

LAND ACQUISITION (DAVID NELSON PROPERTY), WILDLIFE HAZARD SITE VISIT (WHSV), WILDLIFE
HAZARD MANAGEMENT PLAN (WHMP)

LAND APPRAISAL (SHAYKETT APPRAISAL COMPANY, INC – NELSON PROPERTY)	\$2,500.00
LAND APPRAISAL REVIEW (SDDOT – NELSON PROPERTY)	\$2,500.00
LEGAL SURVEY (HELMS AND ASSOCIATES – NELSON PROPERTY)	\$3,500.00
LAND ACQUISITION ASSISTANCE (HELMS AND ASSOCIATES – NELSON PROPERTY)	\$2,850.00
LEGAL FEES (GILLETTE LAW OFFICE, PC – NELSON PROPERTY)	\$6,237.75
LAND ACQUISITION (NELSON PROPERTY)	\$521,410.35
COSTS FOR REMOVAL OF LAND FROM CRP	\$14,000.00
CLOSING COSTS, TITLE INSURANCE, RECORDING FEES (NELSON PROPERTY)	\$8,000.00
WHSV AND WHMP	\$11,900.00
<u>ADMINISTRATIVE COSTS</u>	<u>\$7,101.90</u>
TOTAL PROJECT COST	\$580,000.00

Project Narrative

Land Appraisals and Land Acquisition

The purpose of the proposed federal action analyzed in the EA is that the Redfield Municipal Airport currently does not meet FAA recommendations and standards for wind coverage and runway length. The purpose also is that wildlife attractants such as wetlands exist on the airport very near runways, taxiways and other areas of aircraft operations.

The need is to enhance airport safety by taking actions that will:

- a) Meet FAA Standards and protect the people and property on the ground.
- b) Eliminate the possibility of future incompatible land uses in the RPZs and Departure Surfaces to the end of the RPZ limits.
- c) Reduce and/or eliminate wildlife attractants from airport property.

The Redfield Municipal Airport proposes to purchase approximately 90 acres of land for the construction of a new primary runway 17/35. The runway will be 75' wide and 3,500' long, allowing the Redfield Municipal Airport to meet FAA recommendations and standards for wind coverage and runway length. The Redfield Municipal Airport will also construct a 10' wildlife fence and fill wetlands.

Wildlife Hazard Site Visit (WHSV) and Wildlife Hazard Management Plan (WHMP):

During the Environmental Assessment, a Wildlife Hazard Assessment was completed. It identified several wetlands on the airport property and recommended that all wetlands be filled and/or modified. A recent wetland delineation identified up to 54 acres of wetlands on current and future property. The City of Redfield has hired a qualified airport biologist to study the wildlife attractiveness of the wetlands and make recommendations on which wetlands pose the greatest threat to attracting wildlife. The recommendations along with a management plan, will provide the City of Redfield with the potential to reduce the number of acres of wetlands to be modified and therefore in turn reduce the number of acres to be mitigated off-site.

Helms & ASSOCIATES

CIVIL ENGINEERS & LAND SURVEYORS

221 Brown County Hwy 19
P.O. Box 111
Aberdeen, SD 57402

Phone (605) 225-1212 Fax (605) 225-3189
Email: operations@helmsengineering.com

**Apron Improvements
Miller Municipal Airport
Miller, South Dakota
AIP #3-46-0035-009-2016
Helms # A-6361
Engineer's Estimate
June, 2016**

Base Bid

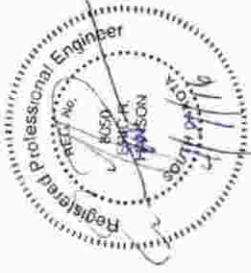
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Cost
1	GP-105	Mobilization	1	L.S.	\$25,700.00	\$25,700.00
2	GP-50	Construction Staking	1	L.S.	\$7,000.00	\$7,000.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$2,500.00	\$2,500.00
4	P-152	Unclassified Excavation	2,485	CuYd	\$7.00	\$17,395.00
5	P-152	Disposal of Excess Material	1,490	CuYd	\$8.00	\$11,920.00
6	P-208 (MOD)	Aggregate Base Course	1,990.0	Tons	\$25.00	\$49,750.00
7	P-403	Bituminous Base/Surface Course	1,030.0	Tons	\$150.00	\$154,500.00
8	P-602	Bituminous Prime Coat	8.0	Tons	\$900.00	\$7,200.00
9	P-603	Bituminous Tack Coat	2.5	Tons	\$700.00	\$1,750.00
10	P-620	Pavement Marking	1	L.S.	\$2,500.00	\$2,500.00
11	T-901	Seeding and Fertilizing	0.5	Acre	\$3,000.00	\$1,500.00
12	T-905	Topsoiling	290	CuYd	\$9.00	\$2,610.00
13	TL-100	Field Laboratory, Type I	1	Each	\$7,500.00	\$7,500.00
14	SP-1	Full Depth Reclamation (6" Nominal Depth)	6,064	SqYd	\$2.00	\$12,128.00
15	SP-1	Remove and Relay Blended Material (6" Nominal Depth)	5,963	SqYd	\$2.50	\$14,907.50
16	SP-3	Geotextile Separator Fabric	5,963	SqYd	\$3.50	\$20,870.50
17	Plans	Remove and Dispose of Concrete Aircraft Tie Down	3	Sets	\$50.00	\$150.00
18	Plans	Remove and Salvage Taxiway Reflector	7	Each	\$20.00	\$140.00
19	Plans	Full Depth Sawcutting	222	Ft	\$6.00	\$1,332.00
20	Plans	Install Salvaged Taxiway Reflector	7	Each	\$30.00	\$210.00
21	Plans	Aircraft Tie Downs	3	Sets	\$900.00	\$2,700.00
22	Plans	High Flow Silt Fence	458	Ft	\$6.00	\$2,748.00
Estimated Construction Total						\$347,011.00
Estimated Design Engineering						\$18,000.00
Estimated Bidding & Negotiations						\$5,000.00
Estimated Construction Administration						\$15,000.00
Estimated Construction Engineering						\$25,000.00
Estimated Asphalt Testing						\$5,000.00
Estimated Administration (±10% of Construction Costs)						\$34,989.00
Total Estimated Project Cost						\$450,000.00

2016 Grant Request Summary

Hot Springs Municipal Airport

Current Request Construct Partial Parallel Taxiway

No.	Item	Description	TOTAL	90% FAA Share	5% State Share	5% Local Share	Comments
FAA GRANT REQUEST							
1	Taxiway Construction		\$1,011,584.40	\$910,425.96	\$50,579.22	\$50,579.22	Bid Tabulation
2	Construction Administration		\$88,053.16	\$79,247.84	\$4,402.66	\$4,402.66	SEH Contract
3	City Administrative Costs	A-133 Audit, Bid Ads, etc	\$5,000.00	\$4,500.00	\$250.00	\$250.00	
COST BREAKDOWN:			\$1,104,637.56	\$994,173.80	\$55,231.88	\$55,231.88	



RUNWAY OBJECT FREE AREA (OFA) DIMENSIONS (1/19)
 LENGTH BEYOND RUNWAY END: 300 FEET

RUNWAY SAFETY AREA (RSA) DIMENSIONS (1/19)
 WIDTH: 150 FEET
 LENGTH BEYOND RUNWAY END: 300 FEET

NOTE: RUNWAY OBJECT FREE AREA AND RUNWAY SAFETY AREA ARE CENTERED ON THE RUNWAY CENTERLINE. TAXIWAY OBJECT FREE AREA IS CENTERED ON THE TAXIWAY CENTERLINE.

CRITICAL AIRCRAFT DATA	
ELEMENT	CRITICAL AIRCRAFT
WING SPAN	DESIGN GROUP 2
APPROACH SPEED	CATEGORY B
TAIL HEIGHT	15'-4"
RUNWAY DESIGN CODE	B-H EXIST.
AIRPORT MANAGER: ED JENSEN 602-745-3555	
CTAF FREQUENCY: 122.8 MHz	

CONSTRUCTION PHASING

PHASE 1
 CONSTRUCT PARALLEL TAXIWAY
 RUNWAY TO REMAIN OPEN

PHASE 2
 CONSTRUCT TAXIWAY A AND TAXIWAY B
 REMOVES RUNWAY CLOSURE
 RUNWAY MAY BE CLOSED UP TO 5 CALENDAR DAYS

PHASE 3
 REMOVE EXISTING TAXIWAY
 REMOVES RUNWAY CLOSURE
 RUNWAY MAY BE CLOSED UP TO 5 CALENDAR DAYS

Hot Springs Municipal Airport
Justification

The parallel taxiway is necessary to improve safety at the airport. There has been increase traffic at the airport with the skydivers and gliding club. There is also a Single Engine Aerial Tanker (SEAT) based at the airport. The Black Hills are susceptible to forest fires, the SEAT plane is an important part of firefighting. A parallel taxiway will also lower approach minimums, which will increase access to the airport in varied weather conditions.

FAA issued a grant 3-46-0020-07-2009 to complete the Environmental Assessment for the parallel taxiway. A FONSI for the EA was issued on 3/27/2015.

Bid Tabulation
Project: Partial Parallel Taxway
Location: Hot Springs, SD
 SEH No. HOTSP 126571



Blumentrak Paving Inc
 PO Box 6
 Orderville, MN 56278
 \$ 1,011,584.40

Hills Materials
 PO Box 2720
 Rapid City, SD 57702
 \$ 1,241,330.00

Quinn Construction
 /404 Universal Drive
 Rapid City, SD 57702
 \$ 1,267,910.25

LINE NO.	ITEM DESCRIPTION	UNIT	QUANTITY	EST. UNIT PRICE	TOTAL EST. COST	Bid Price	Total	Bid Price	Total
1	PROJECT QUALITY CONTROL PROGRAM	LS	1	\$25,000.00	\$25,000.00	\$ 5,000.00	\$ 5,000.00	\$ 34,785.00	\$ 34,785.00
2	MOBILIZATION	LS	1	\$50,000.00	\$50,000.00	\$178,000.00	\$178,000.00	\$106,300.40	\$106,300.40
3	CONSTRUCTION STAKING	LS	1	\$10,000.00	\$10,000.00	\$20,000.00	\$20,000.00	\$14,500.00	\$14,500.00
4	REMOVE ASPHALT	SY	3864	\$3.00	\$11,592.00	\$ 8.00	\$30,912.00	\$ 4.50	\$17,476.00
5	OBSTITUTE PAVEMENT MARKINGS	LF	658	\$5.00	\$3,290.00	\$1.85	\$1,207.30	\$ 3.50	\$2,303.00
6	SAW CUT	LF	308	\$16.00	\$4,928.00	\$ 6.00	\$1,848.00	\$ 4.45	\$1,370.80
7	SALVAGE REFLECTORIZED HOLE SIGN	EACH	2	\$750.00	\$1,500.00	\$200.00	\$400.00	\$100.00	\$200.00
8	SALVAGE RETROREFLECTIVE MARKERS	EACH	11	\$40.00	\$440.00	\$100.00	\$1,100.00	\$ 90.00	\$990.00
9	SALVAGE TAXIWAY LIGHTS	EACH	6	\$300.00	\$1,800.00	\$ 50.00	\$300.00	\$45.00	\$270.00
10	SALVAGE LIGHT CAN	EACH	3	\$300.00	\$900.00	\$100.00	\$300.00	\$ 90.00	\$270.00
11	UNCLASSIFIED EXCAVATION	CY	27838	\$8.00	\$222,704.00	\$ 8.00	\$222,712.00	\$ 6.50	\$180,653.50
12	GRANULAR BASE	CY	29430	\$40.00	\$1,177,200.00	\$44.00	\$1,291,720.00	\$ 64.60	\$2,048,798.00
13	ASPHALT BASE COURSE	TON	1820	\$100.00	\$182,000.00	\$ 92.00	\$167,440.00	\$127.60	\$231,186.00
14	ASPHALT SURFACE COURSE	TON	1820	\$100.00	\$182,000.00	\$ 92.00	\$167,440.00	\$127.60	\$231,186.00
15	PAVEMENT MARKING (YELLOW)	BF	2038	\$3.00	\$6,114.00	\$ 4.80	\$9,782.40	\$ 3.75	\$7,642.50
16	INSTALL GALVALUED REFLECTORIZED HOLD SIGN	EACH	2	\$1,000.00	\$2,000.00	\$1,300.00	\$2,600.00	\$1,200.00	\$2,400.00
17	FURNISH AND INSTALL RETROREFLECTIVE MARKERS	EACH	59	\$150.00	\$8,850.00	\$180.00	\$10,620.00	\$175.00	\$10,325.00
18	INSTALL TAXIWAY LIGHTS	EACH	6	\$300.00	\$1,800.00	\$180.00	\$1,080.00	\$170.00	\$1,020.00
19	FURNISH LIGHT CAN	EACH	3	\$300.00	\$900.00	\$200.00	\$600.00	\$160.00	\$480.00
20	INSTALL LIGHT CAN	EACH	4	\$300.00	\$1,200.00	\$88.00	\$352.00	\$50.00	\$200.00
21	FURNISH AND INSTALL 3" x 2 CELL DUCT BANK	LF	279	\$8.30	\$2,312.70	\$ 3.00	\$837.00	\$18.50	\$5,149.50
22	SILT FENCE	LF	420	\$5.00	\$2,100.00	\$ 7.00	\$2,940.00	\$ 4.50	\$1,905.00
23	INLET PROTECTION	ACRE	2	\$300.00	\$600.00	\$420.00	\$840.00	\$316.00	\$632.00
24	SEED	ACRE	11	\$800.00	\$8,800.00	\$1,440.00	\$15,840.00	\$1,547.24	\$17,019.54
25	MULCH	ACRE	11	\$600.00	\$6,600.00	\$1,000.00	\$11,000.00	\$ 506.30	\$5,569.30
	Total				\$847,204.00		\$1,011,584.40		\$1,241,330.00
									\$ 1,267,910.25

2016 Grant Request Summary Highmore Municipal Airport

Current Request
Construct Partial Parallel Taxiway Extension

No.	Item	Description	TOTAL	90% FAA Share	5% State Share	5% Local Share	Comments
FAA GRANT REQUEST							
1	Taxiway Construction		\$735,289.55	\$661,760.69	\$36,764.48	\$36,764.48	Bid Tabulation
2	Construction Administration		\$81,600.00	\$73,440.00	\$4,080.00	\$4,080.00	SEH Contract
3	City Administrative Costs	A-133-Audit, Bid Ads, etc	\$5,000.00	\$4,500.00	\$250.00	\$250.00	
4	Wetland Mitigation	Mitigate 0.15 AC by buying Wetland Credits	\$10,000.00	\$9,000.00	\$500.00	\$500.00	minimum transaction amount with Tetanka
COST BREAKDOWN:			\$931,889.55	\$748,700.69	\$41,594.48	\$41,594.48	
							\$41,595.17

Bid Tabulation
Project: Partial Parallel Taxiway
Location: Highmore, SD
 SEH No. Highm134122



Morris Inc
 PO Box 1162
 Pierre, SD 57501
 735,289.65 \$

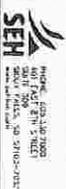
First Dakota Enterprises Inc
 1223 Sale Barn Road
 Fort Pierre, SD 57532
 923,066.09 \$

LINE NO.	ITEM DESCRIPTION	UNIT	QUANTITY	EST. UNIT PRICE	TOTAL EST. COST	1		2	
						Bid Price	Total	Bid Price	Total
1	PROJECT QUALITY CONTROL PROGRAM	LS	1	\$30,000.00	\$30,000.00	\$23,600.00	\$ 23,600.00	\$ 36,942.55	\$ 36,942.55
2	MOBILIZATION	LS	1	\$50,000.00	\$50,000.00	\$45,300.00	\$ 45,300.00	\$ 3,078.55	\$ 3,078.55
3	CONSTRUCTION STAKING	LS	1	\$7,500.00	\$7,500.00	\$10,800.00	\$ 10,800.00	\$ 13,545.60	\$ 13,545.60
4	REMOVE ASPHALT	SY	1386	\$3.00	\$4,158.00	\$ 4.00	\$ 5,544.00	\$ 6.22	\$ 8,620.92
5	SAW CUT	LF	134	\$10.00	\$1,340.00	\$ 2.50	\$ 335.00	\$ 3.22	\$ 431.48
6	SALVAGE RETROREFLECTIVE MARKERS	EACH	12	\$50.00	\$600.00	\$ 100.00	\$ 1,200.00	\$ 297.59	\$ 3,571.08
7	SALVAGE TAXIWAY LIGHTS	EACH	2	\$200.00	\$400.00	\$ 125.00	\$ 250.00	\$ 554.14	\$ 1,108.28
8	UNCLASSIFIED EXCAVATION	CY	11611	\$8.00	\$92,888.00	\$ 4.15	\$ 47,770.65	\$ 3.96	\$ 45,983.96
9	COMMON BORROW	CY	6167	\$23.00	\$141,841.00	\$ 14.00	\$ 86,338.00	\$ 4.79	\$ 29,538.83
10	SUBBASE	CY	2462	\$30.00	\$73,860.00	\$ 48.50	\$ 119,172.00	\$ 60.70	\$ 149,186.40
11	AGGREGATE BASE	CY	1090	\$40.00	\$43,600.00	\$ 63.50	\$ 69,215.00	\$ 68.27	\$ 74,414.30
12	ASPHALT BASE COURSE	TON	900	\$100.00	\$90,000.00	\$ 136.50	\$ 122,850.00	\$ 246.28	\$ 221,652.00
13	ASPHALT SURFACE COURSE	TON	800	\$100.00	\$80,000.00	\$ 136.50	\$ 109,200.00	\$ 246.28	\$ 198,852.00
14	18" RCP	LF	186	\$40.00	\$7,440.00	\$ 55.00	\$ 10,230.00	\$ 49.28	\$ 9,288.24
15	18" FLARED END SECTION	EACH	2	\$700.00	\$1,400.00	\$ 500.00	\$ 1,000.00	\$ 2,191.93	\$ 4,383.86
16	PAVEMENT MARKING (YELLOW)	SF	1950	\$3.00	\$5,850.00	\$ 2.00	\$ 3,900.00	\$ 12.63	\$ 24,628.50
17	PAVEMENT MARKING (BLACK)	SF	350	\$3.00	\$1,050.00	\$ 2.00	\$ 700.00	\$ 17.59	\$ 6,156.50
18	FURNISH AND INSTALL REFLECTORIZED HOLD SIGN	EACH	1	\$1,500.00	\$1,500.00	\$ 3,500.00	\$ 3,500.00	\$ 3,127.80	\$ 3,127.80
19	RELOCATE REFLECTORIZED HOLD SIGN	EACH	3	\$500.00	\$1,500.00	\$ 500.00	\$ 1,500.00	\$ 535.50	\$ 1,610.70
20	FURNISH AND INSTALL RETROREFLECTIVE MARKERS	EACH	35	\$150.00	\$5,250.00	\$ 150.00	\$ 5,250.00	\$ 251.21	\$ 8,792.35
21	FURNISH AND INSTALL 3" - 2 CELL DUCT BANK	LF	66	\$4,300.00	\$2,838.00	\$ 25.00	\$ 1,650.00	\$ 56.15	\$ 4,828.90
22	ELECTRICAL HAND HOLE	EACH	2	\$1,000.00	\$2,000.00	\$ 1,650.00	\$ 3,300.00	\$ 923.57	\$ 1,847.14
23	SILT FENCE	FT	200	\$5.00	\$1,000.00	\$ 4.00	\$ 800.00	\$ 6.77	\$ 1,354.00
24	EROSION MAT	SY	25	\$10.00	\$250.00	\$ 25.00	\$ 625.00	\$ 5.89	\$ 147.25
25	EROSION BALES	EACH	52	\$5.00	\$260.00	\$ 55.00	\$ 2,860.00	\$ 43.10	\$ 2,241.20
26	SEED	ACRE	5	\$750.00	\$3,750.00	\$ 2,150.00	\$ 10,750.00	\$ 2,709.12	\$ 13,545.60
27	MULCH	ACRE	5	\$300.00	\$1,500.00	\$ 2,150.00	\$ 10,750.00	\$ 677.28	\$ 3,396.40
Total						\$674,937.00	\$ 735,289.65	\$ 923,066.09	

(Denotes omitted value)



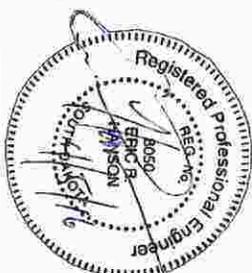
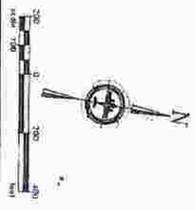
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE



**HIGHMORE MUNICIPAL AIRPORT
PARALLEL TAXIWAY EXTENSION**

SAFETY AND PHASING PLAN

THE NO. 3
22



CRITICAL AIRCRAFT DATA		CLAF FREQUENCY
ELEMENT	CRITICAL AIRCRAFT	122.9 MHz
WING SPAN	DESIGN GROUP 2	
APPROACH SPEED	CATEGORY B	
TAIL HEIGHT	15'-4"	
RUNWAY DESIGN CODE	B-II EXIST.	

RUNWAY OBJECT FREE AREA (OFA) DIMENSIONS (19/21)
 LENGTH: 500 FEET
 WIDTH: 300 FEET
 LENGTH BEYOND RUNWAY END: 300 FEET

RUNWAY SAFETY AREA (RSA) DIMENSIONS (19/21)
 WIDTH: 150 FEET
 LENGTH BEYOND RUNWAY END: 500 FEET

NOTE:
 RUNWAY OBJECT FREE AREA AND RUNWAY SAFETY AREA ARE CENTERED ON THE RUNWAY CENTERLINE. TAXIWAY OBJECT FREE AREA IS CENTERED ON THE TAXIWAY CENTERLINE.

CONSTRUCTION PHASING LEGEND

- PHASE 1
CONSTRUCT PARALLEL TAXIWAY
RUNWAY TO REMAIN OPEN
- PHASE 2
RELOCATE RUNWAY TURN ARROUND & CONSTRUCT TAXIWAY
REQUIRES RUNWAY CLOSURE
RUNWAY MAY BE CLOSED UP TO 5 CALENDAR DAYS

May 31, 2016

Cody Roggatz, Transportation Director
City of Aberdeen
123 S. Lincoln St.
Aberdeen, SD 57401

Re: Runway 17/35 Decoupling
Aberdeen Regional Airport
Aberdeen, South Dakota
AIP #3-46-0001-036-2016
A-6090

Dear Mr. Roggatz,

We would like to take this opportunity to make our "Engineer's Recommendation of Award" for the above referenced project.

The description of work is:

Bid Schedule A – Grading & Paving: This work shall include the decoupling and relocation of Runway 17 and construction of an extension of Runway 35 ($\pm 1,238' \times 100'$), an extension of Taxiway C ($\pm 1,238' \times 50'$), a new Runway 35 Connector Taxiway ($\pm 325' \times 50'$), and a new Runway 17 Connector Taxiway ($\pm 325' \times 50'$). This work includes milling and salvaging existing asphalt surfacing and base material, grading, subbase course, crushed aggregate base course, underdrain piping, HMA paving, pavement marking, topsoiling, seeding and other items of related construction.

Alternate Bid No. A1 – Mill and Overlay Runway 17/35: This work shall include Milling existing Porous Friction Course (PFC) on Runway 17/35. This work includes milling and salvaging existing asphalt surfacing, HMA paving and other items of related construction.

Alternate Bid No. A2 – Preformed Thermoplastic Markings: This work shall include the application of Preformed Thermoplastic Markings for the Runway Holding Position, Surface Painted Holding Position Signs, and Enhance Taxiway Centerline. This work includes pavement marking and other items of related construction.

Alternate Bid No. A3 – ARFF Road: This work shall include a new ARFF Access Road ($\pm 1,350' \times 32'$). This work includes grading, crushed aggregate base course, HMA paving, topsoiling, seeding and other items of related construction.

Bid Schedule B – Electrical: The installation of a new runway lighting system, including: runway, taxiway, and threshold lights, PAPI, REIL, lighted signs, electrical duct and conductors, junction boxes and related items.

We have reviewed the bid proposal documents received and are recommending that Bid Schedule A, Alternate Bid No. A1, and Alternate Bid No. A2 be tentatively awarded to the only bidder B & B Contracting, Inc., Aberdeen, SD, in the amount of \$5,492,946.12, as their bid was complete and reasonable. We have also verified B & B Contracting, Inc. has not been excluded at www.sam.gov.

The DBE goal was 2.5% for this project. The intended participation listed in B & B Contracting, Inc's bid is 0.0%. A DBE "Good Faith Effort" was submitted and reviewed by our office and deemed adequate.

We have reviewed the bid proposal documents received and are recommending that Bid Schedule B be tentatively awarded to the lowest bidder Jacobson Electric, Groton, SD, in the amount of \$542,365.00, as their bid was complete and reasonable. We have also verified Jacobson Electric has not been excluded at www.sam.gov.

The DBE goal was 2.5% for this project. The intended participation listed in Jacobson Electric's bid is 2.8%.

The motion for award should read "Tentative award for AIP Project #3-46-0001-036-2016 Runway 17/35 Decoupling, Bid Schedule A, Alternate Bid No. A1, and Alternate Bid No. A2 is made to B & B Contracting, Inc, Aberdeen, SD, in the amount of \$ \$5,492,946.12 contingent upon receipt of an FAA Grant Offer. Tentative award for AIP Project #3-46-0001-036-2016 Runway 17/35 Decoupling, Bid Schedule B is made to Jacobson Electric, Groton, SD, in the amount of \$5,492,946.12 contingent upon receipt of an FAA Grant Offer."

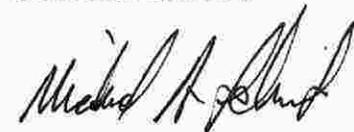
Also, the Council should also authorize the City Manager to sign all necessary paperwork for the Contract Documents.

Also, to help meet what we expect to be short time lines in the grant process, the Council should authorize the City Manager to sign all necessary paperwork for the Contract Documents.

I have enclosed the Grant Application Packet, please have the City Manager sign and date it where tabbed and send it to the SD-DOT Office of Air, Rail, and Transit for processing. However, prior to sending it to the SD-DOT, please scan the packet and email it to our office so we have a copy for our records.

If you have any questions, comments, or need any further information, please feel free to contact our office at your convenience.

Sincerely,
Helms and Associates



Michael A. Schmit, P.E.

W/Enclosures

Cc: Dave Anderson, FAA – Dakota-Minnesota Airport District Office
Jon Becker, SD-DOT – Office of Air, Rail, and Transit.

Helms & ASSOCIATES

CIVIL ENGINEERS & LAND SURVEYORS

221 Brown County Hwy 19
P.O. Box 111
Aberdeen, SD 57402

Phone: (605) 225-1212 Fax: (605) 225-3189
Email: operations@helmsengineering.com

Alternate Bid No. A1 - Mill & Overlay Runway 17/35

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
A1-1	P-101	Cold Milling (2" Nominal Depth)	47,344	SqYd	\$ 2.00	\$ 94,688.00
A1-2	P-401	Bituminous Surface Course	5,504.0	Ton	\$ 67.00	\$ 368,768.00
A1-3	P-401	Bituminous Binder (PG 64-34)	386.0	Ton	\$ 800.00	\$ 308,800.00
A1-4	P-603	Bituminous Tack Coat	21.0	Ton	\$ 600.00	\$ 12,600.00
A1-5	P-621	Saw Cut Runway Grooving	37,787	SqYd	\$ 2.25	\$ 85,020.75
Estimated Alternate Bid No. A1 Total						\$ 869,876.75
Estimated Bid Schedule A and Alternate Bid No. A1 Total						\$ 4,096,651.75

Alternate Bid No. A2 - Preformed Thermoplastic Markings

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
A2-1	P-620	Preformed Thermoplastic Markings (RHP, ETCL, SPHPS)	1	L.S.	\$ 103,000.00	\$ 103,000.00
Estimated Alternate Bid No. A2 Total						\$ 103,000.00
Estimated Bid Schedule A and Alternate Bid No. A1 & A2 Total						\$ 4,184,651.75

Alternate Bid No. A3 - Airport Rescue Fire Fighting (ARFF) Road

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
A3-1	P-152	Unclassified Excavation	3,049	CuYd	\$ 3.50	\$ 10,671.50
A3-2	P-152	On-Site Borrow Excavation	3,839	CuYd	\$ 4.00	\$ 15,356.00
A3-3	P-209 (MOD)	Crushed Aggregate Base Course	3,537.0	Ton	\$ 25.00	\$ 88,425.00
A3-4	P-401	Bituminous Base/Surface Course	1,234.0	Ton	\$ 67.00	\$ 82,678.00
A3-5	P-401	Bituminous Binder (PG 64-34)	86.0	Ton	\$ 800.00	\$ 68,800.00
A3-6	P-602	Bituminous Prime Coat	7.0	Ton	\$ 1,000.00	\$ 7,000.00
A3-7	P-603	Bituminous Tack Coat	2.0	Ton	\$ 600.00	\$ 1,200.00
A3-8	D-701	18" RCP	152	Ft	\$ 45.00	\$ 6,840.00
A3-9	D-701	18" RCP Flared End	4	Each	\$ 500.00	\$ 2,000.00
A3-10	T-901	Seeding and Fertilizing	1.5	Acre	\$ 800.00	\$ 1,200.00
A3-11	T-905	Topsoiling	840	CuYd	\$ 4.00	\$ 3,360.00
A3-12	SP-2	Geotextile Separator Fabric	5,616	SqYd	\$ 2.00	\$ 11,232.00
A3-13	Plans	Reflectorized Runway Holding Position Sign	1	Each	\$ 1,500.00	\$ 1,500.00
A3-14	Plans	Stop Sign, 24" MUTCD R1-1, mounted on breakable post	1	Each	\$ 800.00	\$ 800.00
A3-15	Plans	Type II Erosion Control Blanket	2,490	SqYd	\$ 2.00	\$ 4,980.00
A3-16	Plans	High Flow Silt Fence	30	Ft	\$ 5.00	\$ 150.00
Estimated Alternate Bid No. A3 Total						\$ 306,192.50
Estimated Bid Schedule A and Alternate Bid No. A1, A2 & A3 Total						\$ 4,490,844.25

Helms & ASSOCIATES

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221 Brown County Hwy 19
P.O. Box 111
Aberdeen, SD 57402

Phone: (605) 225-1212 Fax: (605) 225-3189
E-mail: operations@helmsengineering.com

Bid Schedule B - Electrical

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	M-100	Mobilization	1	L.S.	\$ 50,500.00	\$ 50,500.00
2	S-100	Construction Safety Phasing Plan	1	L.S.	\$ 10,000.00	\$ 10,000.00
3	GP-50	Construction Staking	1	L.S.	\$ 10,000.00	\$ 10,000.00
4	L-100-5.1	Demolition, Incidental Electrical	1	L.S.	\$ 15,000.00	\$ 15,000.00
5	L-107-5.1	Lighted LED L-806 Supplemental Wind Cone w/Footing, Complete	1	Each	\$ 5,000.00	\$ 5,000.00
6	L-108-5.1	Underground Cable, 1/C #8 L-824C 5kV Cable in Conduit	33,500	Ft	\$ 1.00	\$ 33,500.00
7	L-108-5.2	Underground Cable, 1/C #4 L-824C 600V Cable in Conduit	10,000	Ft	\$ 1.50	\$ 15,000.00
8	L-108-5.3	Underground Cable, 1/C #6 L-824C 600V Cable in Conduit	5,000	Ft	\$ 1.00	\$ 5,000.00
9	L-108-5.4	#6 Bare CU Counterpoise in Trench or Plowed In (Includes Trenching or Plowing)	26,000	Ft	\$ 2.00	\$ 52,000.00
10	L-110-5.1	Trench and Backfill for Conduit	30,500	Ft	\$ 2.50	\$ 76,250.00
11	L-110-5.2	1-Way 2" PVC Conduit in Trench	30,500	Ft	\$ 2.00	\$ 61,000.00
12	L-110-5.3	1-Way 3" PVC Conduit Bored Under Existing Surface	350	Ft	\$ 25.00	\$ 8,750.00
13	L-115-5.1	Electrical Pullbox 24" (L867 Can), Complete	21	Each	\$ 700.00	\$ 14,700.00
14	L-115-5.2	Electrical Junction Manhole, Complete	14	Each	\$ 1,800.00	\$ 25,200.00
15	L-125-5.1	Medium Intensity Runway Light (MIRL), Base Mount Type, Complete	53	Each	\$ 750.00	\$ 39,750.00
16	L-125-5.2	Medium Intensity Threshold Light (MIRL), Base Mount Type, Complete	16	Each	\$ 800.00	\$ 12,800.00
17	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Base Mount Type, Complete	101	Each	\$ 825.00	\$ 83,325.00
18	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Base Mount Type, Installed on Existing Base	36	Each	\$ 600.00	\$ 21,600.00
19	L-130-5.1	L-858 Lighted Airport Signs, LED Type, 1 Panel	2	Each	\$ 2,800.00	\$ 5,600.00
20	L-130-5.2	L-858 Lighted Airport Signs, LED Type, 2 Panel	7	Each	\$ 3,200.00	\$ 22,400.00
21	L-130-5.2	L-858 Lighted Airport Signs, LED Type, 2 Panel (Installed on Existing Base)	1	Each	\$ 2,500.00	\$ 2,500.00
22	L-130-5.3	L-858 Lighted Airport Signs, LED Type, 3 Panel	2	Each	\$ 4,500.00	\$ 9,000.00
23	L-130-5.3	L-858 Lighted Airport Signs, LED Type, 3 Panel (Installed on Existing Base)	3	Each	\$ 3,000.00	\$ 9,000.00
24	L-130-5.4	L-858 Lighted Airport Distance Remaining Signs, LED Type, 1 Panel, Complete	4	Each	\$ 3,000.00	\$ 12,000.00
25	L-201-5.1	Runway Edge Identifier Lights L-849 (REIL), Flashing LED, Complete with Power Supply	2	Sets	\$ 4,250.00	\$ 8,500.00
26	L-340-5.1	L-880 PAPI System, Complete	2	Each	\$ 32,000.00	\$ 64,000.00
27		5kVA, 480V x 240V, Single Phase Indoor Transformer	2	Each	\$ 2,500.00	\$ 5,000.00
28	L-125-5.1	Medium Intensity Runway Light (MIRL), Coupling Stem and Light for Spare Parts Stock	2	Each	\$ 400.00	\$ 800.00
29	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Coupling Stem and Light for Spare Parts Stock	5	Each	\$ 450.00	\$ 2,250.00
30		Frangible Couplings for Spare Parts Stock	20	Each	\$ 50.00	\$ 1,000.00
Estimated Bid Schedule B Total						\$ 681,425.00

Helms & ASSOCIATES

CIVIL ENGINEERS & LAND SURVEYORS

221 Brown County Hwy 19
P.O. Box 111
Aberdeen, SD 57402

Phone: (605) 225-1212 Fax: (605) 225-3189
Email: operations@helmsengineering.com

Design Engineering	\$	164,816.00
Bidding & Negotiations	\$	10,834.00
Estimated Construction Administration	\$	107,870.00
Estimated Construction Engineering	\$	219,850.00
Estimated Asphalt Testing	\$	50,000.00
Estimated FAA Non-Federal Reimbursable Agreement (NAVAIDs Flight Check)	\$	30,000.00
Estimated As-Built Data Survey and Upload to AGIS	\$	30,000.00
Estimated Administration Costs (10 % of Construction Costs)	\$	514,360.75
Estimated Project Total	\$	6,300,000.00

**RUNWAY 17/35 DECOUPLING
 ABERDEEN REGIONAL AIRPORT
 ABERDEEN, SOUTH DAKOTA
 AIP #3-46-0001-036-2016
 A-6090
 BID TABULATION
 5/26/2016**

Bid Schedule A - Grading and Paving					B & B Contracting, Inc. Aberdeen, SD	
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	GP-105	Mobilization	1	L.S.	\$843,321.26	\$843,321.26
2	GP-50	Construction Staking	1	L.S.	\$18,590.00	\$18,590.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$80,000.00	\$80,000.00
4	P-101	Asphalt Pavement Removal (7" Nominal Depth)	18,142	SqYd	\$2.50	\$45,355.00
5	P-152	Unclassified Excavation	45,598	CuYd	\$5.00	\$227,990.00
6	P-152	On-Site Borrow Excavation	10,616	CuYd	\$5.50	\$58,388.00
7	P-154 (MOD)	Subbase Course	47,038.0	Ton	\$14.00	\$658,532.00
8	P-209 (MOD)	Crushed Aggregate Base Course	9,951.0	Ton	\$30.00	\$298,530.00
9	P-401	Bituminous Base/Surface Course	10,152.0	Ton	\$90.00	\$913,680.00
10	P-401	Bituminous Binder (PG 64-34)	711.0	Ton	\$715.00	\$508,365.00
11	P-602	Bituminous Prime Coat	39.0	Ton	\$1,980.00	\$77,220.00
12	P-603	Bituminous Tack Coat	26.0	Ton	\$2,365.00	\$61,490.00
13	P-620	Runway and Taxiway Painting	1	L.S.	\$98,583.00	\$98,583.00
14	P-620	Runway and Taxiway Painting (RHP, ETCL., SPHPS)	1	L.S.	\$16,500.00	\$16,500.00
15	P-621	Saw Cut Runway Grooving	10,924	SqYd	\$1.70	\$18,570.80
16	D-701	15" RCP	210	Ft	\$40.00	\$8,400.00
17	D-701	24" RCP Arch	100	Ft	\$67.00	\$6,700.00
18	D-701	24" RCP Arch Flared End	1	Each	\$1,600.00	\$1,600.00
19	D-701	Connect to Existing Inlet/Junction Box	1	Each	\$1,500.00	\$1,500.00
20	D-701	Connect to Existing RCP	8	Each	\$400.00	\$3,200.00
21	D-705 (MOD)	6" Perforated Underdrain	6,106	Ft	\$7.00	\$42,742.00
22	D-705 (MOD)	6" Solid Underdrain	108	Ft	\$7.00	\$756.00
23	D-705 (MOD)	Connect Underdrain to Manhole	2	Each	\$500.00	\$1,000.00
24	D-705 (MOD)	Connect Underdrain to RCP	4	Each	\$500.00	\$2,000.00
25	D-751	48" Underdrain Manhole	18	Each	\$3,500.00	\$63,000.00
26	D-751	2' x 3' Storm Sewer Inlet w/Type E Frame and Grate and 10' x 10' Concrete Apron	1	Each	\$2,500.00	\$2,500.00
27	D-751	3' x 4' Storm Sewer Inlet w/Salvaged Frame and Grate	2	Each	\$3,200.00	\$6,400.00
28	D-751	3' x 4' Storm Sewer Junction Box w/Type A Manhole Frame and Lid	4	Each	\$4,250.00	\$17,000.00
29	T-901	Seeding and Fertilizing	40.0	Acre	\$525.00	\$21,000.00
30	T-905	Topsoiling	23,340	CuYd	\$6.00	\$140,040.00
31	TL-100	Field Laboratory, Type I	1	Each	\$7,000.00	\$7,000.00
32	SP-2	Geogrid	8,000	SqYd	\$3.00	\$24,000.00
33	SP-3	Geotextile Separator Fabric	29,956	SqYd	\$2.00	\$59,912.00
34	Plans	Remove and Dispose of Storm Sewer Inlet	4	Each	\$300.00	\$1,200.00
35	Plans	Remove and Dispose of RCP	80	Ft	\$10.00	\$800.00
36	Plans	9" Diameter Erosion Control Wattles	320	Ft	\$4.10	\$1,312.00
37	Plans	Type II Erosion Control Blanket	4,890	SqYd	\$2.00	\$9,780.00
38	Plans	High Flow Silt Fence	95	Ft	\$4.00	\$380.00
Total Bid Schedule A					\$4,347,337.06	

**RUNWAY 17/35 DECOUPLING
 ABERDEEN REGIONAL AIRPORT
 ABERDEEN, SOUTH DAKOTA
 AIP #3-46-0001-036-2016
 A-6090
 BID TABULATION
 5/26/2016**

					B & B Contracting, Inc.	
					Aberdeen, SD	
Alternate Bid No. A1 - Mill & Overlay Runway 17/35						
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
A1-1	P-101	Cold Milling (2" Nominal Depth)	47,344	SqYd	\$2.00	\$94,688.00
A1-2	P-401	Bituminous Surface Course	5,504.0	Ton	\$90.00	\$495,360.00
A1-3	P-401	Bituminous Binder (PG 64-34)	386.0	Ton	\$962.50	\$371,525.00
A1-4	P-603	Bituminous Tack Coat	21.0	Ton	\$2,365.00	\$49,665.00
A1-5	P-621	Saw Cut Runway Grooving	37,787	SqYd	\$1.38	\$52,146.06
Total Alternate Bid No. A1						\$1,063,384.06
Total Bid Schedule A plus Alternate Bid No. A1						\$5,410,721.12

					B & B Contracting, Inc.	
					Aberdeen, SD	
Alternate Bid No. A2 - Preformed Thermoplastic Markings						
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
A2-1	P-620	Preformed Thermoplastic Markings (RHP, ETCL, SPHPS)	1	L.S.	\$98,725.00	\$98,725.00
Total Alternate Bid No. A2						\$98,725.00
Total Bid Schedule A plus Alternate Bid No. A2						\$4,429,562.06
Total Bid Schedule A plus Alternate Bid No. A1 and A2						\$5,492,946.12

					B & B Contracting, Inc.	
					Aberdeen, SD	
Alternate Bid No. A3 - Airport Rescue Fire Fighting (ARFF) Road						
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
A3-1	P-152	Unclassified Excavation	3,049	CuYd	\$5.00	\$15,245.00
A3-2	P-152	On-Site Borrow Excavation	3,839	CuYd	\$5.50	\$21,114.50
A3-3	P-209 (MOD)	Crushed Aggregate Base Course	3,537.0	Ton	\$30.00	\$106,110.00
A3-4	P-401	Bituminous Base/Surface Course	1,234.0	Ton	\$90.00	\$111,060.00
A3-5	P-401	Bituminous Binder (PG 64-34)	86.0	Ton	\$962.00	\$82,732.00
A3-6	P-602	Bituminous Prime Coat	7.0	Ton	\$1,980.00	\$13,860.00
A3-7	P-603	Bituminous Tack Coat	2.0	Ton	\$2,365.00	\$4,730.00
A3-8	D-701	18" RCP	152	Ft	\$56.00	\$8,512.00
A3-9	D-701	18" RCP Flared End	4	Each	\$750.00	\$3,000.00
A3-10	T-901	Seeding and Fertilizing	1.5	Acre	\$525.00	\$787.50
A3-11	T-905	Topsoiling	840	CuYd	\$6.00	\$5,040.00
A3-12	SP-2	Geotextile Separator Fabric	5,616	SqYd	\$2.00	\$11,232.00
A3-13	Plans	Reflectorized Runway Holding Position Sign	1	Each	\$15,357.00	\$15,357.00
A3-14	Plans	Stop Sign, 24" MUTCD R1-1, mounted on breakable post	1	Each	\$544.00	\$544.00
A3-15	Plans	Type II Erosion Control Blanket	2,490	SqYd	\$2.00	\$4,980.00
A3-16	Plans	High Flow Silt Fence	30	Ft	\$4.00	\$120.00
Total Alternate Bid No. A3						\$404,424.00
Total Bid Schedule A plus Alternate Bid No. A3						\$4,751,761.06
Total Bid Schedule A plus Alternate Bid No. A1 and A3						\$5,815,145.12
Total Bid Schedule A plus Alternate Bid No. A1, A2, and A3						\$5,897,370.12

**RUNWAY 17/35 DECOUPLING
 ABERDEEN REGIONAL AIRPORT
 ABERDEEN, SOUTH DAKOTA
 AIP #3-46-0001-036-2016**

A-6090

BID TABULATION

5/26/2016

Bid Schedule B - Electrical

Item #	Spec #	Item Description	Quantity	Unit	Jacobson Electric Groton, SD		Muth Electric, Inc. Mitchell, SD		Efrainson Electric, Inc. Bryant, SD	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	GP-105	Mobilization		1 L.S.	\$60,000.00	\$60,000.00	\$70,662.00	\$70,662.00	\$79,300.00	\$79,300.00
2	S-100	Construction Safety Phasing Plan		1 L.S.	\$3,500.00	\$3,500.00	\$1,810.00	\$1,810.00	\$3,720.00	\$3,720.00
3	GP-50	Construction Staking		1 L.S.	\$8,000.00	\$8,000.00	\$6,000.00	\$6,000.00	\$8,625.00	\$8,625.00
4	L-100-5.1	Demolition, Incidental Electrical		1 L.S.	\$30,000.00	\$30,000.00	\$21,000.00	\$21,000.00	\$42,592.00	\$42,592.00
5	L-107-5.1	Lighted LED L-806 Supplemental Wind Cone w/Footing, Complete		1 Each	\$7,500.00	\$7,500.00	\$6,015.00	\$6,015.00	\$7,790.00	\$7,790.00
6	L-108-5.1	Underground Cable, 1/C #8 L-824C 5kV Cable in Conduit	33,500	Ft	\$0.75	\$25,125.00	\$0.63	\$21,105.00	\$0.82	\$27,470.00
7	L-108-5.2	Underground Cable, 1/C #4 L-824C 600V Cable in Conduit	10,000	Ft	\$1.00	\$10,000.00	\$0.75	\$7,500.00	\$1.20	\$12,000.00
8	L-108-5.3	Underground Cable, 1/C #6 L-824C 600V Cable in Conduit	5,000	Ft	\$0.90	\$4,500.00	\$0.59	\$2,950.00	\$0.76	\$3,800.00
9	L-108-5.4	#6 Bare CU Counterpoise in Trench or Plowed In (Includes Trenching or Plowing)	26,000	Ft	\$1.20	\$31,200.00	\$1.45	\$37,700.00	\$1.67	\$43,420.00
10	L-110-5.1	Trench and Backfill for Conduit	30,500	Ft	\$1.30	\$39,650.00	\$1.32	\$40,260.00	\$1.22	\$37,210.00
11	L-110-5.2	1-Way 2" PVC Conduit in Trench	30,500	Ft	\$1.10	\$33,550.00	\$1.47	\$44,835.00	\$1.25	\$38,125.00
12	L-110-5.3	1-Way 3" PVC Conduit Bored Under Existing Surface	350	Ft	\$20.00	\$7,000.00	\$15.30	\$5,355.00	\$16.70	\$5,845.00
13	L-115-5.1	Electrical Pullbox 24" (E867 Can), Complete	21	Each	\$440.00	\$9,240.00	\$640.00	\$13,440.00	\$535.71	\$11,249.91
14	L-115-5.2	Electrical Junction Manhole, Complete	14	Each	\$600.00	\$8,400.00	\$820.00	\$11,480.00	\$1,469.64	\$20,574.96
15	L-125-5.1	Medium Intensity Runway Light (MIRL), Base Mount Type, Complete	53	Each	\$700.00	\$37,100.00	\$825.00	\$43,725.00	\$919.06	\$48,710.18
16	L-125-5.2	Medium Intensity Threshold Light (MIRL), Base Mount Type, Complete	16	Each	\$650.00	\$10,400.00	\$861.00	\$13,776.00	\$919.38	\$14,710.08
17	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Base Mount Type, Complete	101	Each	\$800.00	\$80,800.00	\$861.00	\$86,961.00	\$933.66	\$94,299.66
18	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Base Mount Type, Installed on Existing Base	36	Each	\$600.00	\$21,600.00	\$400.00	\$14,400.00	\$537.50	\$19,350.00
19	L-130-5.1	L-858 Lighted Airport Signs, LED Type, 1 Panel	2	Each	\$2,000.00	\$4,000.00	\$2,345.00	\$4,690.00	\$3,232.50	\$6,465.00
20	L-130-5.2	L-858 Lighted Airport Signs, LED Type, 2 Panel	7	Each	\$2,250.00	\$15,750.00	\$3,056.00	\$21,392.00	\$4,996.43	\$34,975.01
21	L-130-5.2	L-858 Lighted Airport Signs, LED Type, 2 Panel (Installed on Existing Base)	1	Each	\$1,800.00	\$1,800.00	\$2,021.00	\$2,021.00	\$2,675.00	\$2,675.00
22	L-130-5.3	L-858 Lighted Airport Signs, LED Type, 3 Panel	2	Each	\$3,000.00	\$6,000.00	\$3,673.00	\$7,346.00	\$5,570.00	\$11,140.00
23	L-130-5.3	L-858 Lighted Airport Signs, LED Type, 3 Panel (Installed on Existing Base)	3	Each	\$2,250.00	\$6,750.00	\$2,175.00	\$6,525.00	\$3,031.67	\$9,095.01
24	L-130-5.4	L-858 Lighted Airport Distance Remaining Signs, LED Type, 1 Panel, Complete	4	Each	\$3,000.00	\$12,000.00	\$2,134.00	\$8,536.00	\$3,567.50	\$14,270.00
25	L-201-5.1	Runway Edge Identifier Lights L-849 (REIL), Flashing LED, Complete with Power Supply	2	Sets	\$12,500.00	\$25,000.00	\$8,825.00	\$17,650.00	\$13,157.50	\$26,315.00
26	L-340-5.1	L-880 PAPI System, Complete	2	Each	\$15,000.00	\$30,000.00	\$20,816.00	\$41,632.00	\$34,130.00	\$68,260.00
27		5kVA, 480V x 240V, Single Phase Indoor Transformer	2	Each	\$3,000.00	\$6,000.00	\$2,520.00	\$5,040.00	\$1,897.50	\$3,795.00
28	L-125-5.1	Medium Intensity Runway Light (MIRL), Coupling Stem and Light for Spare Parts Stock	2	Each	\$250.00	\$500.00	\$93.30	\$186.60	\$100.00	\$200.00
29	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Coupling Stem and Light for Spare Parts Stock	5	Each	\$1,000.00	\$5,000.00	\$136.00	\$680.00	\$155.00	\$775.00
30		Frangible Couplings for Spare Parts Stock	20	Each	\$100.00	\$2,000.00	\$10.50	\$210.00	\$9.50	\$190.00
Total Bid Schedule B						\$542,365.00		\$564,882.60		\$696,946.81

I HEREBY CERTIFY THAT THE FOREGOING IS AN ACCURATE REPRESENTATION AND TABULATION OF ALL BIDS RECEIVED AND THAT THE MATHEMATICS HAVE BEEN CHECKED AND IS TO THE BEST OF MY KNOWLEDGE CORRECT.

PROJECT ENGINEER: Michael A. Smith DATE: 5-26-2016

Helms & ASSOCIATES

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Runway 17/35 Decoupling
Aberdeen Regional Airport
Aberdeen, South Dakota
AIP #3-46-0001-036-2016
Helms #A-6090
Revised Engineer's Estimate
May, 2016

Bid Schedule A - Grading and Paving

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	GP-105	Mobilization	1	L.S.	\$ 843,321.26	\$ 843,321.26
2	GP-50	Construction Staking	1	L.S.	\$ 18,590.00	\$ 18,590.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$ 80,000.00	\$ 80,000.00
4	P-101	Asphalt Pavement Removal (7" Nominal Depth)	18,142	SqYd	\$ 2.50	\$ 45,355.00
5	P-152	Unclassified Excavation	45,598	CuYd	\$ 5.00	\$ 227,990.00
6	P-152	On-Site Borrow Excavation	10,616	CuYd	\$ 5.50	\$ 58,388.00
7	P-154 (MOD)	Subbase Course	47,038.0	Ton	\$ 14.00	\$ 658,532.00
8	P-209 (MOD)	Crushed Aggregate Base Course	9,951.0	Ton	\$ 30.00	\$ 298,530.00
9	P-401	Bituminous Base/Surface Course	10,152.0	Ton	\$ 90.00	\$ 913,680.00
10	P-401	Bituminous Binder (PG 64-34)	711.0	Ton	\$ 715.00	\$ 508,365.00
11	P-602	Bituminous Prime Coat	39.0	Ton	\$ 1,980.00	\$ 77,220.00
12	P-603	Bituminous Tack Coat	26.0	Ton	\$ 2,365.00	\$ 61,490.00
13	P-620	Runway and Taxiway Painting	1	L.S.	\$ 98,583.00	\$ 98,583.00
14	P-620	Runway and Taxiway Painting (RHP, ETCL, SPHPS)	1	L.S.	\$ 16,500.00	\$ 16,500.00
15	P-621	Saw Cut Runway Grooving	10,924	SqYd	\$ 1.70	\$ 18,570.80
16	D-701	15" RCP	210	Ft	\$ 40.00	\$ 8,400.00
17	D-701	24" RCP Arch	100	Ft	\$ 67.00	\$ 6,700.00
18	D-701	24" RCP Arch Flared End	1	Each	\$ 1,600.00	\$ 1,600.00
19	D-701	Connect to Existing Inlet/Junction Box	1	Each	\$ 1,500.00	\$ 1,500.00
20	D-701	Connect to Existing RCP	8	Each	\$ 400.00	\$ 3,200.00
21	D-705 (MOD)	6" Perforated Underdrain	6,106	Ft	\$ 7.00	\$ 42,742.00
22	D-705 (MOD)	6" Solid Underdrain	108	Ft	\$ 7.00	\$ 756.00
23	D-705 (MOD)	Connect Underdrain to Manhole	2	Each	\$ 500.00	\$ 1,000.00
24	D-705 (MOD)	Connect Underdrain to RCP	4	Each	\$ 500.00	\$ 2,000.00
25	D-751	48" Underdrain Manhole	18	Each	\$ 3,500.00	\$ 63,000.00
26	D-751	2' x 3' Storm Sewer Inlet w/Type E Frame and Grate and 10' x 10' Concrete Apron	1	Each	\$ 2,500.00	\$ 2,500.00
27	D-751	3' x 4' Storm Sewer Inlet w/Salvaged Frame and Grate	2	Each	\$ 3,200.00	\$ 6,400.00
28	D-751	3' x 4' Storm Sewer Junction Box w/Type A Manhole Frame and Lid	4	Each	\$ 4,250.00	\$ 17,000.00
29	T-901	Seeding and Fertilizing	40.0	Acre	\$ 525.00	\$ 21,000.00
30	T-905	Topsoiling	23,340	CuYd	\$ 6.00	\$ 140,040.00
31	TL-100	Field Laboratory, Type I	1	Each	\$ 7,000.00	\$ 7,000.00
32	SP-2	Geogrid	8,000	SqYd	\$ 3.00	\$ 24,000.00
33	SP-3	Geotextile Separator Fabric	29,956	SqYd	\$ 2.00	\$ 59,912.00
34	Plans	Remove and Dispose of Storm Sewer Inlet	4	Each	\$ 300.00	\$ 1,200.00
35	Plans	Remove and Dispose of RCP	80	Ft	\$ 10.00	\$ 800.00
36	Plans	9" Diameter Erosion Control Wattles	320	Ft	\$ 4.10	\$ 1,312.00
37	Plans	Type II Erosion Control Blanket	4,890	SqYd	\$ 2.00	\$ 9,780.00
38	Plans	High Flow Silt Fence	95	Ft	\$ 4.00	\$ 380.00
Estimated Bid Schedule A Total						\$ 4,347,337.06

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Alternate Bid No. A1 - Mill & Overlay Runway 17/35

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
A1-1	P-101	Cold Milling (2" Nominal Depth)	47,344	SqYd	\$ 2.00	\$ 94,688.00
A1-2	P-401	Bituminous Surface Course	5,504.0	Ton	\$ 90.00	\$ 495,360.00
A1-3	P-401	Bituminous Binder (PG 64-34)	386.0	Ton	\$ 962.50	\$ 371,525.00
A1-4	P-603	Bituminous Tack Coat	21.0	Ton	\$ 2,365.00	\$ 49,665.00
A1-5	P-621	Saw Cut Runway Grooving	37,787	SqYd	\$ 1.38	\$ 52,146.06
Estimated Alternate Bid No. A1 Total						\$ 1,063,384.06
Estimated Bid Schedule A and Alternate Bid No. A1 Total						\$ 5,410,721.12

Alternate Bid No. A2 - Preformed Thermoplastic Markings

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
A2-1	P-620	Preformed Thermoplastic Markings (RHP, ETCL, SPHPS)	1	L.S.	\$ 98,725.00	\$ 98,725.00
Estimated Alternate Bid No. A2 Total						\$ 98,725.00
Estimated Bid Schedule A and Alternate Bid No. A1 & A2 Total						\$ 5,492,946.12

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Bid Schedule B - Electrical

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	M-100	Mobilization	1	L.S.	\$ 60,000.00	\$ 60,000.00
2	S-100	Construction Safety Phasing Plan	1	L.S.	\$ 3,500.00	\$ 3,500.00
3	GP-50	Construction Staking	1	L.S.	\$ 8,000.00	\$ 8,000.00
4	L-100-5.1	Demolition, Incidental Electrical	1	L.S.	\$ 30,000.00	\$ 30,000.00
5	L-107-5.1	Lighted LED L-806 Supplemental Wind Cone w/Footing, Complete	1	Each	\$ 7,500.00	\$ 7,500.00
6	L-108-5.1	Underground Cable, 1/C #8 L-824C 5kV Cable in Conduit	33,500	Ft	\$ 0.75	\$ 25,125.00
7	L-108-5.2	Underground Cable, 1/C #4 L-824C 600V Cable in Conduit	10,000	Ft	\$ 1.00	\$ 10,000.00
8	L-108-5.3	Underground Cable, 1/C #6 L-824C 600V Cable in Conduit	5,000	Ft	\$ 0.90	\$ 4,500.00
9	L-108-5.4	#6 Bare CU Counterpoise in Trench or Plowed In (Includes Trenching or Plowing)	26,000	Ft	\$ 1.20	\$ 31,200.00
10	L-110-5.1	Trench and Backfill for Conduit	30,500	Ft	\$ 1.30	\$ 39,650.00
11	L-110-5.2	1-Way 2" PVC Conduit in Trench	30,500	Ft	\$ 1.10	\$ 33,550.00
12	L-110-5.3	1-Way 3" PVC Conduit Bored Under Existing Surface	350	Ft	\$ 20.00	\$ 7,000.00
13	L-115-5.1	Electrical Pullbox 24" (L867 Can), Complete	21	Each	\$ 440.00	\$ 9,240.00
14	L-115-5.2	Electrical Junction Manhole, Complete	14	Each	\$ 600.00	\$ 8,400.00
15	L-125-5.1	Medium Intensity Runway Light (MIRL), Base Mount Type, Complete	53	Each	\$ 700.00	\$ 37,100.00
16	L-125-5.2	Medium Intensity Threshold Light (MIRL), Base Mount Type, Complete	16	Each	\$ 650.00	\$ 10,400.00
17	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Base Mount Type, Complete	101	Each	\$ 800.00	\$ 80,800.00
18	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Base Mount Type, Installed on Existing Base	36	Each	\$ 600.00	\$ 21,600.00
19	L-130-5.1	L-858 Lighted Airport Signs, LED Type, 1 Panel	2	Each	\$ 2,000.00	\$ 4,000.00
20	L-130-5.2	L-858 Lighted Airport Signs, LED Type, 2 Panel	7	Each	\$ 2,250.00	\$ 15,750.00
21	L-130-5.2	L-858 Lighted Airport Signs, LED Type, 2 Panel (Installed on Existing Base)	1	Each	\$ 1,800.00	\$ 1,800.00
22	L-130-5.3	L-858 Lighted Airport Signs, LED Type, 3 Panel	2	Each	\$ 3,000.00	\$ 6,000.00
23	L-130-5.3	L-858 Lighted Airport Signs, LED Type, 3 Panel (Installed on Existing Base)	3	Each	\$ 2,250.00	\$ 6,750.00
24	L-130-5.4	L-858 Lighted Airport Distance Remaining Signs, LED Type, 1 Panel, Complete	4	Each	\$ 3,000.00	\$ 12,000.00
25	L-201-5.1	Runway Edge Identifier Lights L-849 (REIL), Flashing LED, Complete with Power Supply	2	Sets	\$ 12,500.00	\$ 25,000.00
26	L-340-5.1	L-880 PAPI System, Complete	2	Each	\$ 15,000.00	\$ 30,000.00
27		5kVA, 480V x 240V, Single Phase Indoor Transformer	2	Each	\$ 3,000.00	\$ 6,000.00
28	L-125-5.1	Medium Intensity Runway Light (MIRL), Coupling Stem and Light for Spare Parts Stock	2	Each	\$ 250.00	\$ 500.00
29	L-125-5.3	Medium Intensity LED Taxiway Light (MITL), Coupling Stem and Light for Spare Parts Stock	5	Each	\$ 1,000.00	\$ 5,000.00
30		Frangible Couplings for Spare Parts Stock	20	Each	\$ 100.00	\$ 2,000.00
Estimated Bid Schedule B Total						\$ 542,365.00

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Design Engineering	\$ 164,816.00
Bidding & Negotiations	\$ 10,834.00
Estimated Construction Administration	\$ 107,870.00
Estimated Construction Engineering	\$ 219,850.00
Estimated Asphalt Testing	\$ 50,000.00
Estimated FAA Non-Federal Reimbursable Agreement (NAVAIDs Flight Check)	\$ 30,000.00
Estimated As-Built Data Survey and Upload to AGIS	\$ 30,000.00
Estimated Administration Costs (10 % of Construction Costs)	\$ 101,318.88
Estimated Project Total	\$ 6,750,000.00