

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: Jack Dokken, Office of Aeronautics

DATE: August 12, 2020

SUBJECT: Financial Assistance Agreements

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Airport sponsors are requesting funding from the State Aeronautics Fund for the AIP projects below.

**Aberdeen 3-46-0001-042-2020**

Acquire ARFF mobile foam test cart.

Federal Share	\$35,000.00
State Share	\$
Local Share	\$
Total	\$35,000.00

**Clark County 3-46-0009-013-2020**

Runway and connector taxiway reconstruction.

Federal Share	\$ 2,020,000.00
State Share	\$ 0
Local Share	\$ 0
Total	\$ 2,020,000.00

**Gettysburg 3-46-0017-012-2020**

Acquire and install AWOS-III.

Federal Share	\$ 318,139.00
State Share	\$ 0
Local Share	\$ 0
Total	\$ 318,139.00

**Mobridge 3-46-0038-016-2020**

Replace beacon, beacon tower and foundation. Design apron rehabilitation and taxiway reconstruction.

Federal Share	\$ 205,000.00
State Share	\$
Local Share	\$
Total	\$ 205,000.00

**Sioux Falls 3-46-0050-055-2020**

Reconstruct runway 3/21 approach ends and shoulders; MIRS; runway 21 MALSR bar.

Federal Share	\$ 10,040,465.00
State Share	\$ 557,803.00
Local Share	\$ 557,804.00
Total	\$ 11,156,072.00

State share is \$557,803.00.

**Spearfish 3-46-0065-028-2020**

Design & construct wildlife fence, gates and operators.

Federal Share	\$ 1,700,000.00
State Share	\$
Local Share	\$
Total	\$ 1,700,000.00

**PART IV – PROGRAM NARRATIVE**  
(Suggested Format)

**PROJECT:** AIP #3-46-00001-041-2020

**AIRPORT:** Aberdeen Regional Airport

**1. Objective:**

Purchase Mobile Test Cart for ARFF Vehicles

**2. Benefits Anticipated:**

Environmentally friendly testing for ARFF Vehicle foam can occur.

**3. Approach:** (See approved Scope of Work in Final Application)

Purchase Mobile Test Cart for ARFF Vehicles

**4. Geographic Location:**

Aberdeen Regional Airport, Brown County, South Dakota

**5. If Applicable, Provide Additional Information:**

**6. Sponsor's Representative:** (include address & telephone number)

Lynn Lander, City Manager      605-626-7025  
123 Lincoln St.  
Aberdeen, SD 57401-4215

**PART IV – PROGRAM NARRATIVE**  
(Suggested Format)

**PROJECT:** AIP #3-46-0009-013-2020

**AIRPORT:** Clark County Airport

**1. Objective:**

This project shall consist of the Rehabilitation/Reconstruction of Runway 13/31 (60' x 3,700') and Connector Taxiway (25' x 95').

**2. Benefits Anticipated:**

The 2018 PCI values for Runway 13/31 at the Clark County Airport were 51, 64, and 71, indicating a need for rehabilitation/reconstruction. The FAA minimum PCI value for runways is 60. The gradual degradation of the pavement can be clearly seen and suggests that a portion of the runway is near the end of its design life. The surface is deteriorating at all levels of severity of longitudinal and transverse cracking. Depression is prevalent along the runway, indicating that the base and subgrade have failed.

**3. Approach:** (See approved Scope of Work in Final Application)

Advertise the Project and Open Bids  
Award the Construction Contract  
Construct Runway Rehabilitation/Reconstruction  
Prepare As-Constructed Drawings  
Assemble Closeout Documentation

**4. Geographic Location:**

Clark County Airport, Clark County, South Dakota

**5. If Applicable, Provide Additional Information:**

**6. Sponsor's Representative:** (include address & telephone number)

Chris Sass, Chairperson                      605-532-5921  
PO Box 294  
Clark, SD 57225-0294

# DESCRIPTION OF WORK:

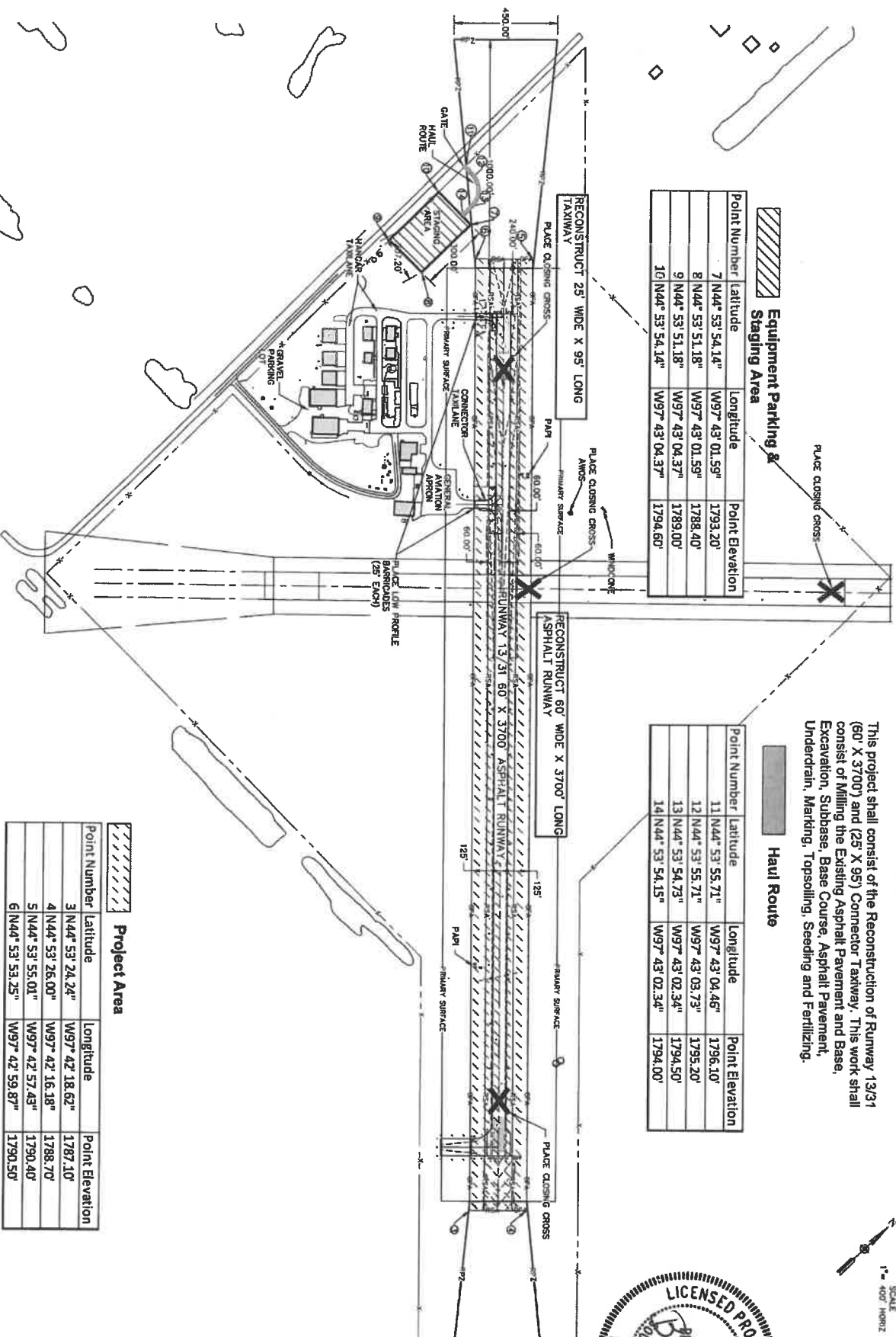
This project shall consist of the Reconstruction of Runway 13/31 (60' X 3700') and (25' X 95') Connector Taxiway. This work shall consist of Milling the Existing Asphalt Pavement and Base, Excavation, Subbase, Base Course, Asphalt Pavement, Underdrain, Marking, Topsoiling, Seeding and Fertilizing.

## Equipment Parking & Staging Area

Point Number	Latitude	Longitude	Point Elevation
7	N44° 53' 54.14"	W97° 43' 01.59"	1793.20'
8	N44° 53' 51.18"	W97° 43' 01.59"	1788.40'
9	N44° 53' 51.18"	W97° 43' 04.37"	1789.00'
10	N44° 53' 54.14"	W97° 43' 04.37"	1794.60'

## Haul Route

Point Number	Latitude	Longitude	Point Elevation
11	N44° 53' 55.71"	W97° 43' 04.46"	1796.10'
12	N44° 53' 55.71"	W97° 43' 03.73"	1795.20'
13	N44° 53' 54.73"	W97° 43' 02.34"	1794.50'
14	N44° 53' 54.15"	W97° 43' 02.34"	1794.00'



## Project Area

Point Number	Latitude	Longitude	Point Elevation
3	N44° 53' 24.24"	W97° 42' 18.62"	1787.10'
4	N44° 53' 26.00"	W97° 42' 16.18"	1788.70'
5	N44° 53' 55.01"	W97° 42' 57.43"	1790.40'
6	N44° 53' 53.25"	W97° 42' 59.87"	1790.50'

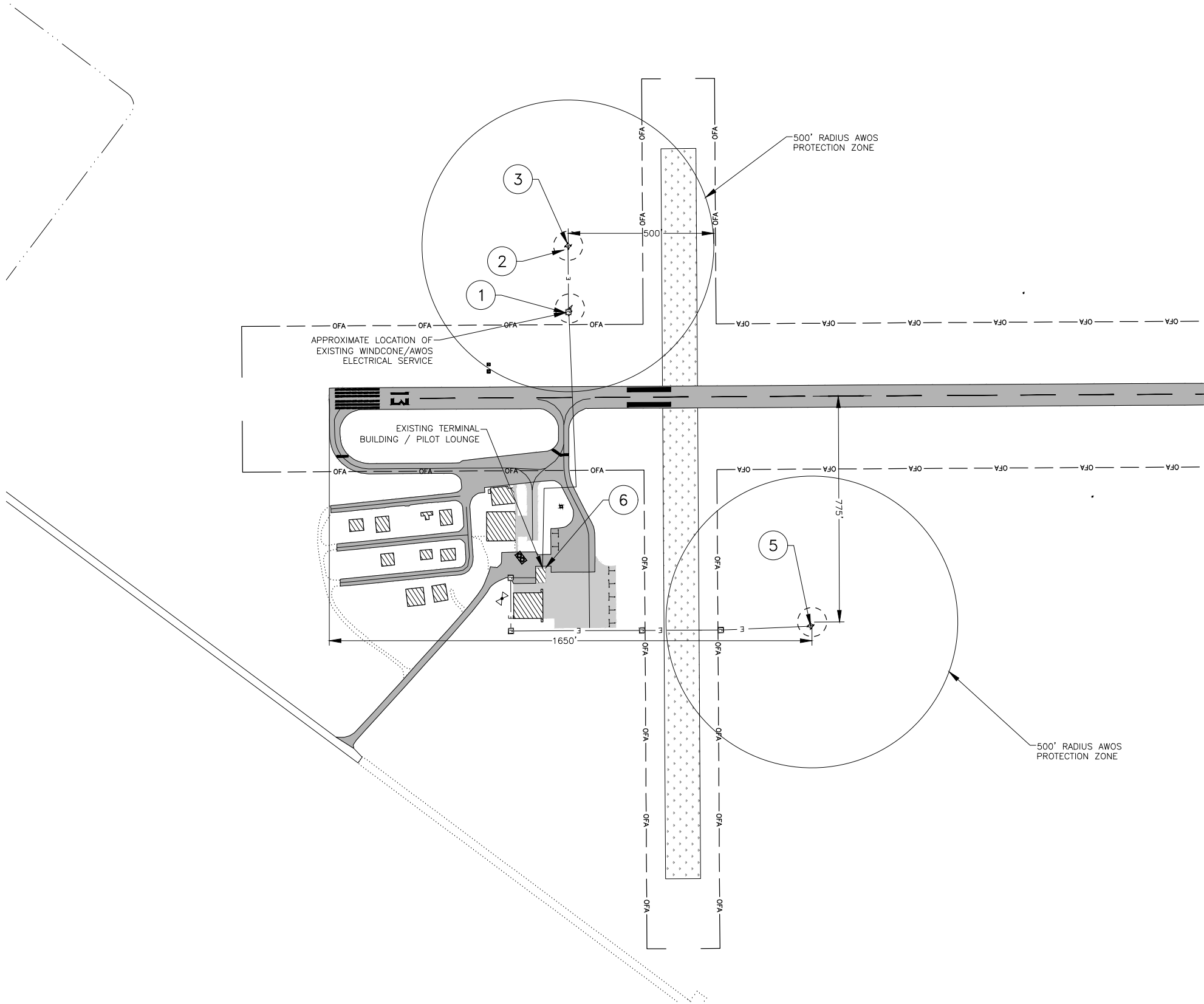


**Helms & Associates**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 Email: terry@helsandassociates.com

231 Brown County Highway 15  
 P.O. Box 111  
 Aberdeen, S.D. 57401  
 Phone: 605.225.1312 Fax: 605.225.1189

Drawn By: CLB  
 Check By: MAS  
 Prep. No: A-586  
 Date: 12/1/11

**CONSTRUCTION SAFETY PHASING PLAN LAYOUT**  
 RUNWAY 13/31 RECONSTRUCTION  
 CLARK COUNTY AIRPORT  
 CLARK COUNTY, SOUTH DAKOTA



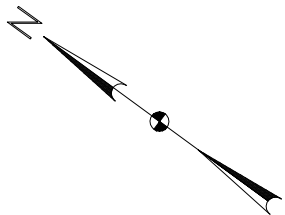
GENERAL NOTES:  
1. FIELD VERIFY THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING WORK. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.  
2. PROPOSED JUNCTION BOXES WILL BE LOCATED IN THE FIELD BY THE CONTRACTORS SURVEYOR AND THE LOCATIONS SHALL BE APPROVED BY THE RPR PRIOR TO INSTALLATION.

PROJECT WORK DESCRIPTION

- 1 REMOVE AND SALVAGE EXISTING AWOS
- 2 SCHEDULE 1 - ACQUIRE AND INSTALL NEW AWOS AV
- 3 SCHEDULE 2 - ACQUIRE AND INSTALL NEW AWOS III
- 4 RE-USE EXISTING ELECTRICAL SERVICE FROM TERMINAL FOR AWOS AV / AWOS III. INSTALL NEW JUNCTION BOX AND 230 LF #6 AWG CU TYPE WITH #6 AWG GROUND IN NEW 2-INCH CONDUIT TO AWOS LOCATION
- 5 SCHEDULE 2 ADDITIVE ALTERNATE AWOS III LOCATION. - INSTALL 4 NEW JUNCTION BOXES AND 1285 LF 2-#2 AWG CU TYPE WITH #6 AWG GROUND IN NEW 2-INCH CONDUIT TO ALTERNATE AWOS III LOCATION.
- 6 INSTALL NEW AWOS OPERATOR TERMINAL / DATA PROCESSING SYSTEM IN THE TERMINAL / PILOT'S LOUNGE WITHIN THE SAME LOCATION AS THE EXISTING SYSTEM.

APT. UTILITY LEGEND

EXISTING (E)	ITEM
	AIRPORT BEACON
	WIND CONE & SEGMENTED CIRCLE
	TOWER
	PAPI/VASI
	REIL/MALS
	TURF RUNWAY MARKER (CONE/PRISM)
	RUNWAY LIGHT (STAKE/BASE MOUNTED)
	THRESHOLD LIGHT (STAKE/BASE MOUNTED)
	TAXIWAY LIGHT (STAKE/BASE MOUNTED)
	TAXIWAY REFLECTOR
	BASE CAN WITH SOLID COVER
	ELECTRICAL MARKER (CABLE/SPLICE/DUCT)
	ELECTRICAL DUCT
	ELECTRICAL MANHOLE
	ELECTRICAL JUNCTION BOX/PEDISTAL
	POWER POLE/STREET LIGHT
	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
	TELEPHONE POLE
	SANITARY MANHOLE
	SANITARY MANHOLE (FORCEMAIN/CLEANOUT)
	STORM/STORM INLET MANHOLE
	STORM CATCH BASIN (ROUND)
	STORM INLET (TYPE 1/TYPE 2)
	CURB INLET (TYPE 2/DOUBLE)
	CULVERT WITH END SECTION
	WATER MANHOLE
	WATER CURB STOP
	WATER FIRE HYDRANT
	IRRIGATION SPRINKLER HEAD
	VALVE (WATER, NATURAL GAS)
	NATURAL GAS MANHOLE
	LIQUID PROPANE STORAGE TANK
	FUEL PUMP
	ELECTRICAL CABLE
	OVERHEAD ELECTRICAL CABLE
	TELEPHONE CABLE
	OVERHEAD TELEPHONE LINE
	TELEVISION CABLE
	FIBER OPTIC CABLE
	FAA CABLE
	COMMUNICATION SIGNAL CABLE
	CONTROL CABLE
	SANITARY SEWER LINE
	STORM SEWER LINE
	WATER OR STEAM LINE
	NATURAL GAS LINE
	NATURAL GAS PIPELINE
	LIQUID PROPANE LINE
	FUEL LINE
	CRUDE PETROLEUM PIPELINE



These documents were originally issued and sealed by Jeremy Larson, PE SD-14515, on 4/16/2020 and the original documents are stored at KLJ Sioux Falls, SD. This media should not be considered a certified document.



GETTYSBURG MUNICIPAL AIRPORT  
CITY OF GETTYSBURG (OWNER)  
GETTYSBURG, SOUTH DAKOTA

PROJECT WORK DESCRIPTION

DRAFTED	MDG
REVIEWED	JWL
PROJECT NUMBER	2005_00350
LAST REVISED DATE	3/16/2020

SHEET  
1

**PART IV – PROGRAM NARRATIVE**  
(Suggested Format)

**PROJECT:**

**AIRPORT:**

**1. Objective:**

**2. Benefits Anticipated:**

**3. Approach:** (See approved Scope of Work in Final Application)

**4. Geographic Location:**

**5. If Applicable, Provide Additional Information:**

**6. Sponsor's Representative:** (include address & telephone number)

**PART IV**  
**PROGRAM NARRATIVE**  
*(Suggested Format)*

**PROJECT :**

**AIRPORT :**

**1. Objective:**

**2. Benefits Anticipated:**

**3. Approach:** (See approved Scope of Work in Final Application)

**4. Geographic Location:**

**5. If Applicable, Provide Additional Information:**

**6. Sponsor's Representative:** (include address & telephone number)





PROJECT WORK DESCRIPTION

BASE BID

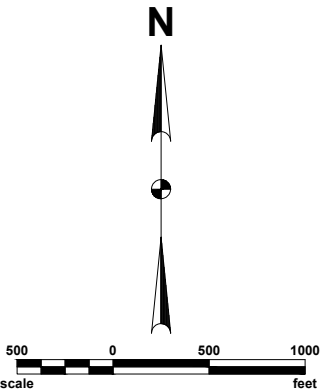
- 1 RECONSTRUCT PORTION OF RUNWAY 3-21
- 2 CONSTRUCT 25' BITUMINOUS RUNWAY SHOULDERS
- 3 INSTALL CENTERLINE IN-PAVEMENT LIGHTS
- 4 INSTALL TOUCHDOWN ZONE IN-PAVEMENT LIGHTS
- 5 INSTALL HIGH INTENSITY RUNWAY LIGHTING (HIRL) SYSTEM
- 6 RECONSTRUCT MALSR THRESHOLD BAR
- 7 INSTALL RUNWAY 3-21 EDGE LIGHTING CONDUIT/CONDUCTOR BACK TO VAULT AND REPLACE REGULATORS
- 8 REPLACE MALSR CONDUIT/CONDUCTOR BACK TO EXISTING MALSR DISTRIBUTION PANEL

ALTERNATE 1

- 9 REPLACE AND RELOCATE LIGHTED GUIDANCE SIGNS

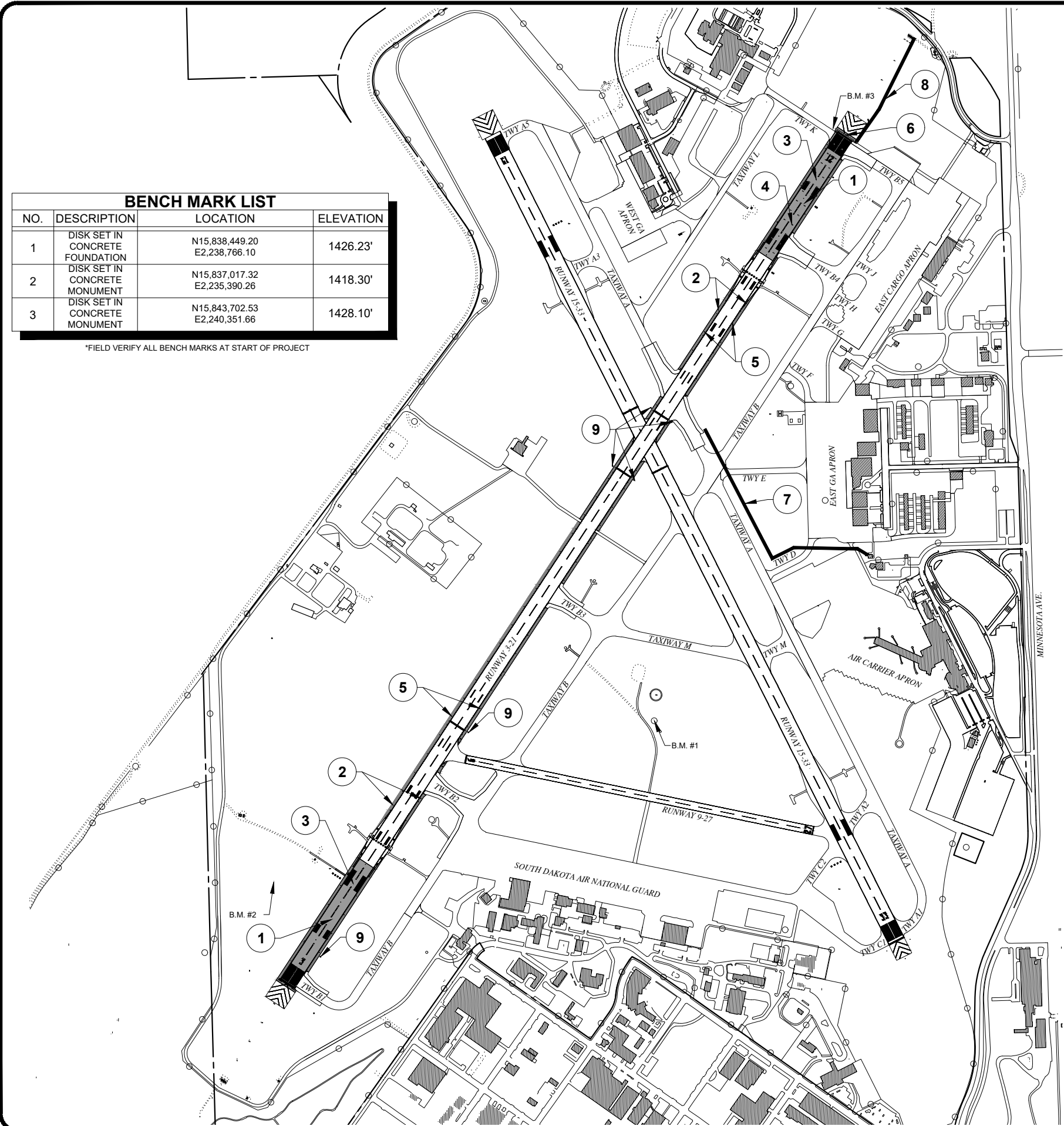
BASIS OF ESTIMATE

REMOVAL OF CONCRETE PAVEMENT - FULL DEPTH (P-101) -	AVERAGE DEPTH CONCRETE PAVEMENT: ± 15" RUNWAY 3-21 ± 6" NAVAID ACCESS ROAD ± 6" TAPE SWEEPS
REMOVAL OF ASPHALT PAVEMENT - FULL DEPTH (P-101) -	AVERAGE DEPTH ASPHALT PAVEMENT: ± 6" RUNWAY END BLAST PADS ± 5" NAVAID ACCESS ROAD/TAXIWAY SHOULDERS ± 5" RUNWAY 3-21 SHOULDERS AT CONNECTING TAXIWAYS
REMOVAL OF ASPHALT OVER CONCRETE PAVEMENT - FULL DEPTH (P-101) -	AVERAGE DEPTH ASPHALT OVER CONCRETE PAVEMENT: ± 4" ASPHALT ON ± 8" CONCRETE TAXIWAY K
TOPSOIL REMOVAL (P-152) -	STRIP ±6" OVER ALL EXCAVATION OR EMBANKMENT AREAS (INCLUDED IN UNCLASSIFIED EXCAVATION QUANTITY FOR PAYMENT)
SEPARATION GEOTEXTILE (P-154) -	ACTUAL S.Y., NO OVERLAP INCLUDED
SUBBASE COURSE (P-154) -	COMPACTED VOLUME IN PLACE
CRUSHED AGGREGATE BASE COURSE (P-209) -	COMPACTED VOLUME IN PLACE
ASPHALT MIX PAVEMENT (P-401) -	150 LBS/CF
CEMENT CONCRETE PAVEMENT (P-501) -	S.Y. IN PLACE
EMULSIFIED ASPHALT TACK (P-603) -	0.10 GAL/S.Y.
TOPSOIL REPLACEMENT (T-905) -	MEASURED IN STOCKPILES BY AVERAGE END AREAS METHOD (PAID FOR AS TOPSOILING)



BENCH MARK LIST			
NO.	DESCRIPTION	LOCATION	ELEVATION
1	DISK SET IN CONCRETE FOUNDATION	N15,838,449.20 E2,238,766.10	1426.23'
2	DISK SET IN CONCRETE MONUMENT	N15,837,017.32 E2,235,390.26	1418.30'
3	DISK SET IN CONCRETE MONUMENT	N15,843,702.53 E2,240,351.66	1428.10'

\*FIELD VERIFY ALL BENCH MARKS AT START OF PROJECT



**PART IV – PROGRAM NARRATIVE**  
(Suggested Format)

**PROJECT:** 3-46-0050-055-2020

**AIRPORT:** Sioux Falls Regional Airport

**1. Objective:**

The project will consist of:

Reconstruct Runway 3-21 Approach Ends, Construct Runway 3-21 Shoulders, Install New High Intensity Runway Lighting System, Reconstruct Runway 21 MALSR Threshold Bar & Assoc Work Items – Design, Construction, CA/CO & Testing

FAA Design and Inspection Reimbursable Agreements - Runway 21 MALSR Threshold Bar

**2. Benefits Anticipated:**

The reconstruction of the remaining 2560 ft of Runway 3-21 meets all justification criteria established in AIP Handbook (FAA Order 5100.38D) as it A) advances Airport Safety and Preserves Airport Infrastructure by reconstructing runway concrete and edge lights that have exceeded their useful life, B) maintains Airport Capacity by completing the reconstruction of the primary runway in the busiest airport in South Dakota serving over a million travelers per year and C) meets FAA Standards by adding paved shoulders for the full length of the runway.

**3. Approach:** (See approved Scope of Work in Final Application)

The Reconstruct Runway 3-21 Approach Ends, Construct Runway 3-21 Shoulders, Install New High Intensity Runway Lighting System, Reconstruct Runway 21 MALSR Threshold Bar work will all be included in a single bid package and completed through a traditional construction contract to be let in July 2020 and constructed in the summer of 2021. KLJ Engineering of Sioux Falls, SD will serve as the Sponsor's engineering consultant to lead these efforts.

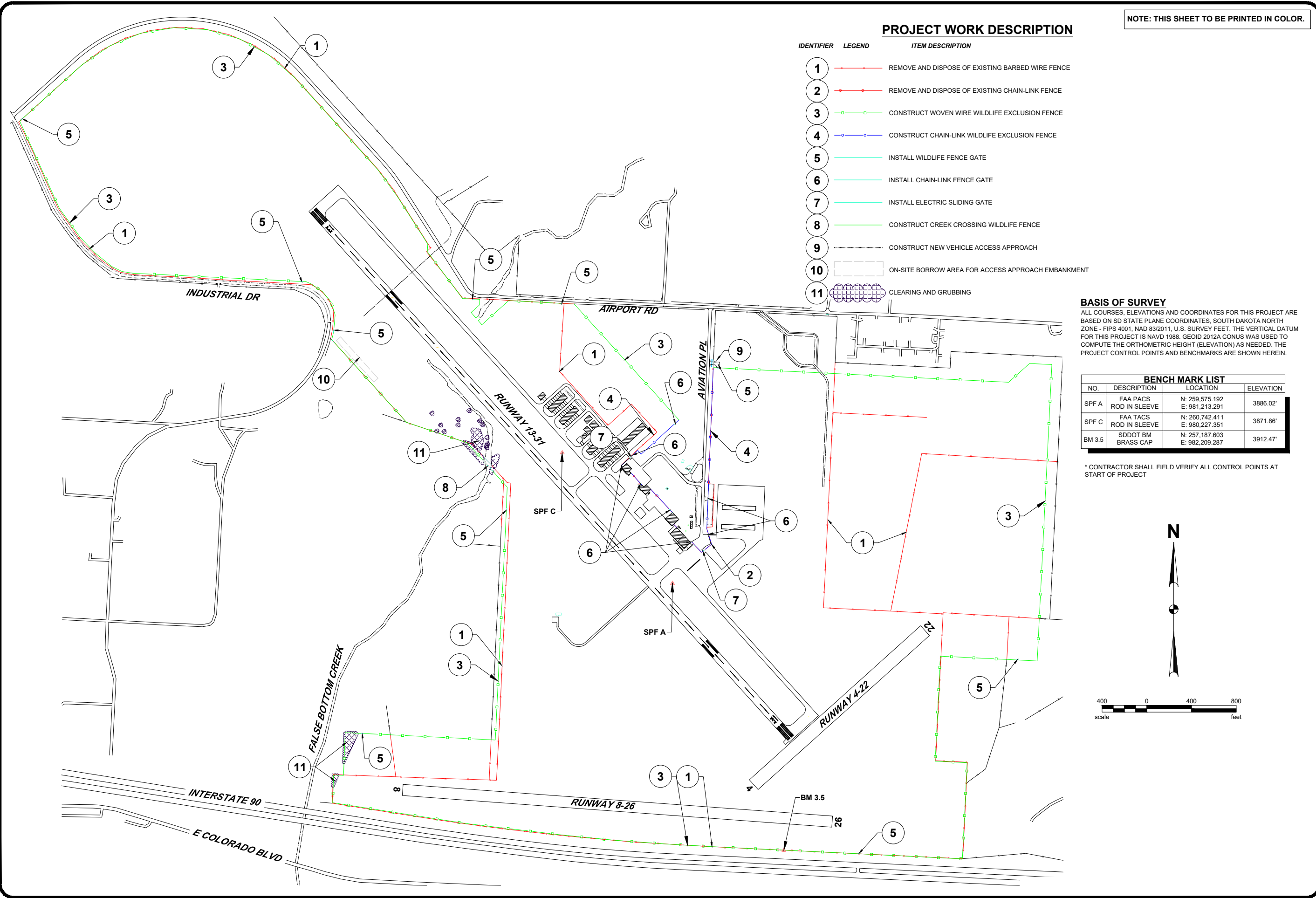
**4. Geographic Location:**

Sioux Falls Regional Airport is located within the city limits of Sioux Falls, South Dakota.

**5. If Applicable, Provide Additional Information:**

**6. Sponsor's Representative:** (include address & telephone number)

Dan Letellier, Executive Director, 2801 Jaycee Lane, Sioux Falls, South Dakota, 57104 605-336-0762



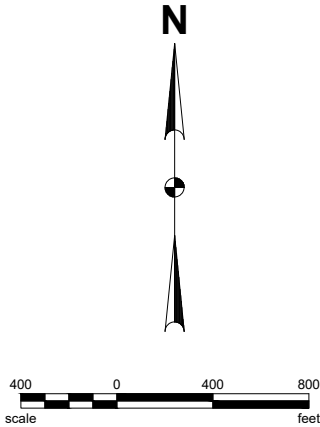
PROJECT WORK DESCRIPTION

IDENTIFIER	LEGEND	ITEM DESCRIPTION
1		REMOVE AND DISPOSE OF EXISTING BARBED WIRE FENCE
2		REMOVE AND DISPOSE OF EXISTING CHAIN-LINK FENCE
3		CONSTRUCT WOVEN WIRE WILDLIFE EXCLUSION FENCE
4		CONSTRUCT CHAIN-LINK WILDLIFE EXCLUSION FENCE
5		INSTALL WILDLIFE FENCE GATE
6		INSTALL CHAIN-LINK FENCE GATE
7		INSTALL ELECTRIC SLIDING GATE
8		CONSTRUCT CREEK CROSSING WILDLIFE FENCE
9		CONSTRUCT NEW VEHICLE ACCESS APPROACH
10		ON-SITE BORROW AREA FOR ACCESS APPROACH EMBANKMENT
11		CLEARING AND GRUBBING

**BASIS OF SURVEY**  
ALL COURSES, ELEVATIONS AND COORDINATES FOR THIS PROJECT ARE BASED ON SD STATE PLANE COORDINATES, SOUTH DAKOTA NORTH ZONE - FIPS 4001, NAD 83/2011, U.S. SURVEY FEET. THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 1988. GEOID 2012A CONUS WAS USED TO COMPUTE THE ORTHOMETRIC HEIGHT (ELEVATION) AS NEEDED. THE PROJECT CONTROL POINTS AND BENCHMARKS ARE SHOWN HEREIN.

BENCH MARK LIST			
NO.	DESCRIPTION	LOCATION	ELEVATION
SPF A	FAA PACS ROD IN SLEEVE	N: 259,575.192 E: 981,213.291	3886.02'
SPF C	FAA TACS ROD IN SLEEVE	N: 260,742.411 E: 980,227.351	3871.86'
BM 3.5	SDDOT BM BRASS CAP	N: 257,187.603 E: 982,209.287	3912.47'

\* CONTRACTOR SHALL FIELD VERIFY ALL CONTROL POINTS AT START OF PROJECT



WILDLIFE EXCLUSION FENCE  
BLACK HILLS AIRPORT-CLYDE ICE FIELD  
SPEARFISH, SOUTH DAKOTA

PROJECT WORK DESCRIPTION

DRAFTED  
SKD  
REVIEWED  
RAS  
PROJECT NUMBER  
2005-00309  
LAST REVISED DATE  
07/06/2020  
SHEET  
4

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**PART IV – PROGRAM NARRATIVE**  
(Suggested Format)

**PROJECT:** Construct Perimeter Wildlife Fence

**AIRPORT:** Black Hills Airport / Clyde Ice Field

**1. Objective:**

The Black Hills Airport / Clyde Ice Field is located in the northern Black Hills of South Dakota in a region known for wildlife. A Wildlife Hazard Assessment and subsequent Wildlife Hazard Management Plan completed in 2019 recommended the construction of a perimeter wildlife fence per FAA criteria. A jet aircraft struck a deer on takeoff in August 2019 resulting in significant damage to the aircraft.

**2. Benefits Anticipated:**

Improved airfield ground traffic safety.

**3. Approach:** (See approved Scope of Work in Final Application)

This is a single phase project utilizing the standard design, bid and build process.

**4. Geographic Location:**

City of Spearfish; County of Lawrence; and State of South Dakota

**5. If Applicable, Provide Additional Information:**

This is not a Letter of Intent project.

**6. Sponsor's Representative:** (include address & telephone number)

Mr. Michael Harmon - City Administrator - City of Spearfish  
625 N. 5th Street  
Spearfish, SD 57783 Telephone: 605.642.1333