

CITY OF FLANDREAU

CAPITAL IMPROVEMENTS

WORKSHOP

General Government

February 24, 2020

CAPITAL PROJECT FINANCING

Current (on-hand) Sources of Funding:

May, 2020 Reserve Funds	\$300,000
August, 2021 Reserve Funds	\$220,000
Total:	\$520,000

Prospective Sources of Funding:

General Obligation Bond	\$1m
General Obligation Bond	\$1.5m
General Obligation Bond	\$2m

Annual Debt Service Cost for Bond Funding:

\$1m Bond	\$67,000
\$1.5m Bond	\$97,000
\$2m Bond	\$130,000

***Financing based upon 20-year repayment at a net interest cost of 2.48%.**

Provided by Tom Grimmond

DOWNTOWN

FACE LIFT



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**CONCEPTUAL 2ND AVENUE LAYOUTS
FLANDREAU, SOUTH DAKOTA**

Flandreau

Downtown 2nd Avenue

Cost Estimates

SEAL COAT STREET & PAINT PARKING LINES

Item No.	Item Description	Units	Unit Price	Quantity	Total Price
1	Mobilization	LS	\$2,500	1	\$2,500
2	Salvage Traffic Sign	EA	\$25	4	\$100
3	Remove Concrete Curb & Gutter	LF	\$6	0	\$0
4	Remove Manhole Frame & Lid	EA	\$200	0	\$0
5	Remove Asphalt Concrete Pavement	SY	\$5	0	\$0
6	Remove Concete Pavement	SY	\$8	0	\$0
7	Remove Concrete Sidewalk	SY	\$8	0	\$0
8	Incidental Work	LS	\$2,500	1	\$2,500
9	Base Course	TON	\$20	0	\$0
10	Asphalt Concrete Composite	TON	\$125	0	\$0
11	Cold Milling Asphalt Concrete	SY	\$2	0	\$0
12	Asphalt Concrete Crack Sealing	LB	\$2	1500	\$3,000
13	Asphalt for Surface Treatment	TON	\$525	12	\$6,300
14	Cover Aggregate	TON	\$45	530	\$23,850
15	6" PCC Driveway Pavement	SY	\$80	0	\$0
16	8" PCC Fillet Section	SY	\$125	0	\$0
17	Adjust Water Valve Box	EA	\$185	0	\$0
18	Reset Sign	EA	\$100	4	\$400
19	Pavement Marking Paint 4" White	LF	\$1	1500	\$1,500
20	Pavement Marking Paint 4" Yellow	LF	\$1	250	\$250
21	Traffic Control Miscellaneous	LS	\$2,500	1	\$2,500
22	Type B66 Concrete Curb & Gutter	LF	\$25	0	\$0
23	6" Concrete Sidewalk	SF	\$8	0	\$0
24	Type 1 Detectable Warnings	EA	\$60	0	\$0
25	Adjust Drop Inlet	EA	\$425	0	\$0
26	External Manhole Seal	EA	\$625	0	\$0
27	Manhole Frame and Lid	EA	\$1,000	0	\$0
28	Adjust Manhole	EA	\$550	0	\$0
29	Inlet Sediment Control	EA	\$50	0	\$0
30	1 Gallon Perennial Plant, F&I	EA	\$25	100	\$2,500
31	6' to 8' Tree, F&I	EA	\$350	0	\$0
32	3" Shredded Bark Mulch	SY	\$10	0	\$0
33	Moveable Planter Pot - Parks Dept	EA	\$0	16	\$0

Subtotal Per Block	\$45,400
Contingency, Engineering, & Administration 25%	\$11,350
TOTAL FOR ONE BLOCK	\$56,750
TOTAL FOR THREE BLOCKS (CENTER TO PRAIRIE)	\$170,250

- Assumptions:**
- 1 No underground utility replacement costs included.
 - 2 No streetlight/electrical power replacement costs included.

Flandreau

Downtown 2nd Avenue

Cost Estimates

MILL /OVERLAY STREET & PAINT PARKING LINES					
Item No.	Item Description	Units	Unit Price	Quantity	Total Price
1	Mobilization	LS	\$20,000	1	\$20,000
2	Salvage Traffic Sign	EA	\$25	4	\$100
3	Remove Concrete Curb & Gutter	LF	\$6	0	\$0
4	Remove Manhole Frame & Lid	EA	\$200	2	\$400
5	Remove Asphalt Concrete Pavement	SY	\$5	0	\$0
6	Remove Concete Pavement	SY	\$8	0	\$0
7	Remove Concrete Sidewalk	SY	\$8	0	\$0
8	Incidental Work	LS	\$5,000	1	\$5,000
9	Base Course	TON	\$20	0	\$0
10	Asphalt Concrete Composite	TON	\$125	575	\$71,875
11	Cold Milling Asphalt Concrete	SY	\$2	3500	\$7,000
12	Asphalt Concrete Crack Sealing	LB	\$2	1500	\$3,000
13	Asphalt for Surface Treatment	TON	\$525	0	\$0
14	Cover Aggregate	TON	\$45	0	\$0
15	6" PCC Driveway Pavement	SY	\$80	0	\$0
16	8" PCC Fillet Section	SY	\$125	0	\$0
17	Adjust Water Valve Box	EA	\$185	4	\$740
18	Reset Sign	EA	\$100	4	\$400
19	Pavement Marking Paint 4" White	LF	\$1	1500	\$1,500
20	Pavement Marking Paint 4" Yellow	LF	\$1	250	\$250
21	Traffic Control Miscellaneous	LS	\$5,000	1	\$5,000
22	Type B66 Concrete Curb & Gutter	LF	\$25	0	\$0
23	6" Concrete Sidewalk	SF	\$8	0	\$0
24	Type 1 Detectable Warnings	EA	\$60	0	\$0
25	Adjust Drop Inlet	EA	\$425	0	\$0
26	External Manhole Seal	EA	\$625	2	\$1,250
27	Manhole Frame and Lid	EA	\$1,000	2	\$2,000
28	Adjust Manhole	EA	\$550	2	\$1,100
29	Inlet Sediment Control	EA	\$50	2	\$100
30	1 Gallon Perennial Plant, F&I	EA	\$25	100	\$2,500
31	6' to 8' Tree, F&I	EA	\$350	0	\$0
32	3" Shredded Bark Mulch	SY	\$10	0	\$0
33	Moveable Planter Pot - Purchase New	EA	\$500	16	\$8,000

Subtotal Per Block	\$130,215
Contingency 10%	\$13,022
TOTAL FOR ONE BLOCK	\$143,237
TOTAL FOR THREE BLOCKS (CENTER TO PRAIRIE)	\$429,710

- Assumptions:**
- 1 No underground utility replacement costs included.
 - 2 No streetlight/electrical power replacement costs included.

Flandreau

Downtown 2nd Avenue

Cost Estimates

STREET AND SIDEWALK REPLACEMENT					
Item No.	Item Description	Units	Unit Price	Quantity	Total Price
1	Mobilization	LS	\$30,000	1	\$30,000
2	Salvage Traffic Sign	EA	\$25	12	\$300
3	Remove Concrete Curb & Gutter	LF	\$6	1,100	\$6,600
4	Remove Manhole Frame & Lid	EA	\$200	2	\$400
5	Remove Asphalt Concrete Pavement	SY	\$5	3,500	\$17,500
6	Remove Concete Pavement	SY	\$8	60	\$480
7	Remove Concrete Sidewalk	SY	\$8	1,250	\$10,000
8	Incidental Work	LS	\$5,000	1	\$5,000
9	Base Course	TON	\$20	1000	\$20,000
10	Asphalt Concrete Composite	TON	\$125	1,150	\$143,750
11	Cold Milling Asphalt Concrete	SY	\$2	0	\$0
12	Asphalt Concrete Crack Sealing	LB	\$2	0	\$0
13	Asphalt for Surface Treatment	TON	\$525	0	\$0
14	Cover Aggregate	TON	\$45	0	\$0
15	6" PCC Driveway Pavement	SY	\$80	0	\$0
16	8" PCC Fillet Section	SY	\$125	60	\$7,500
17	Adjust Water Valve Box	EA	\$185	4	\$740
18	Reset Sign	EA	\$100	12	\$1,200
19	Pavement Marking Paint 4" White	LF	\$1	1,500	\$1,500
20	Pavement Marking Paint 4" Yellow	LF	\$1	200	\$200
21	Traffic Control Miscellaneous	LS	\$5,000	1	\$5,000
22	Type B66 Concrete Curb & Gutter	LF	\$25	1,250	\$31,250
23	6" Concrete Sidewalk	SF	\$10	1,750	\$17,500
24	Type 1 Detectable Warnings	EA	\$60	10	\$600
25	Adjust Drop Inlet	EA	\$425	2	\$850
26	External Manhole Seal	EA	\$625	2	\$1,250
27	Manhole Frame and Lid	EA	\$1,000	2	\$2,000
28	Adjust Manhole	EA	\$550	2	\$1,100
29	Inlet Sediment Control	EA	\$50	2	\$100
30	1 Gallon Perennial Plant, F&I	EA	\$25	100	\$2,500
31	6' to 8' Tree, F&I	EA	\$350	6	\$2,100
32	3" Shredded Bark Mulch	SY	\$15	20	\$300
33	Moveable Planter Pot - Purchase New	EA	\$500	16	\$8,000

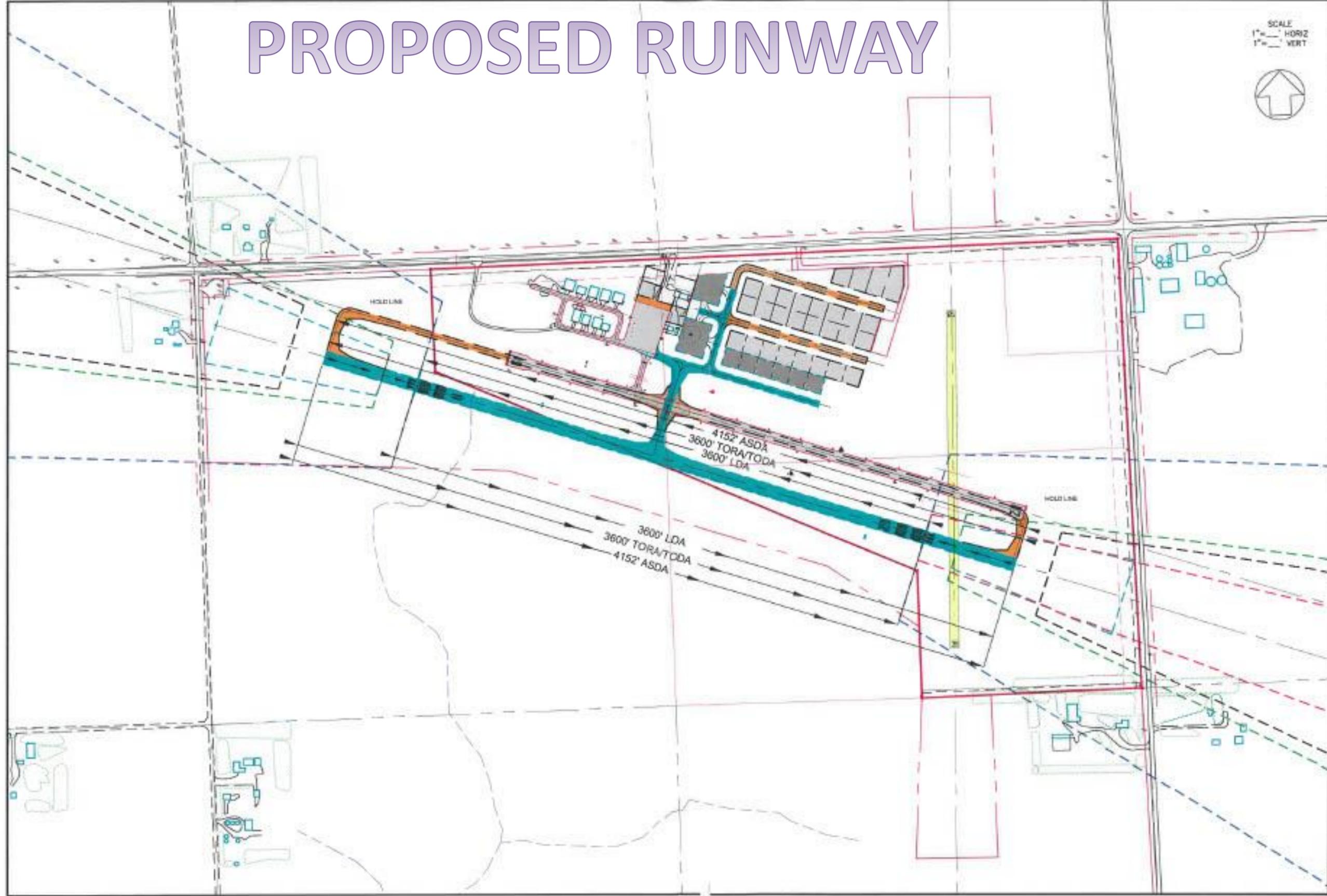
Subtotal Per Block	\$317,720
Contingency, Engineering, & Administration 25%	\$79,430
TOTAL FOR ONE BLOCK	\$397,150
TOTAL FOR THREE BLOCKS (CENTER TO PRAIRIE)	\$1,191,450

- Assumptions:**
- 1 No underground utility replacement costs included.
 - 2 No streetlight/electrical power replacement costs included.

Current Runway Conditions

- Existing surface needs reconstruction
- Current runway length inadequate for larger aircraft
- Environmental assessment study underway for new runway location
- City share of reconstruction \$206,000
- City share of new runway \$ 221,000

PROPOSED RUNWAY



<p>211 Brown County Highway 19 Aberdeen, S.D. 57401 Phone: 605.224.1212 Fax: 605.224.1200 Email: info@helsmassociates.com</p>	
<p>Helm & Associates CIVIL ENGINEERS & LAND SURVEYORS</p>	
<p>Drawn By: CUA CHK'D By: EJA Proj. No.: 27400000 Date: 04/04/10 SP. No.: Date: 11/10/09</p>	<p>1 of 1</p>
<p>PROJECT SKETCH/DESCRIPTION MISCELLANEOUS PLANNING STUDY FLANDREAU MUNICIPAL AIRPORT FLANDREAU, SOUTH DAKOTA</p>	

FLANDREAU MUNICIPAL AIRPORT
CAPITAL IMPROVEMENT PLAN
NOVEMBER, 2019

PROJECT TO BE VALIDATED

YEAR	PROJECT DESCRIPTION	ESTIMATED TOTAL	Federal Share	State Share	Local Share
2020	PAVEMENT MAINTENANCE - ALL SURFACES	\$ 75,000.00	\$ 67,500.00	\$ 3,750.00	\$ 3,750.00
	MISCELLANEOUS PLANNING STUDY	\$ 40,000.00	\$ 36,000.00	\$ 2,000.00	\$ 2,000.00
	TOTAL	\$ 115,000.00	\$ 103,500.00	\$ 5,750.00	\$ 5,750.00

CAPITAL IMPROVEMENT PLAN

2021	LAND ACQUISITION	\$ 500,000.00	\$ 450,000.00	\$ 17,500.00	\$ 32,500.00
	DESIGN OF RUNWAY 10/28 RECONSTRUCTION AND LIGHTING IMPROVEMENTS & PARTIAL PARALLEL TO ENDS OF RUNWAY	\$ 150,000.00	\$ 135,000.00	\$ 5,250.00	\$ 9,750.00
	TOTAL	\$ 650,000.00	\$ 585,000.00	\$ 22,750.00	\$ 42,250.00
2022	CONSTRUCTION OF RUNWAY 10/28 RECONSTRUCTION AND LIGHTING IMPROVEMENTS & PARTIAL PARALLEL TO ENDS OF RUNWAY	\$ 5,500,000.00	\$ 4,950,000.00	\$ 192,500.00	\$ 357,500.00
	TOTAL	\$ 5,500,000.00	\$ 4,950,000.00	\$ 192,500.00	\$ 357,500.00
	NO PROJECT	\$ -	\$ -	\$ -	\$ -
2023	TOTAL	\$ -	\$ -	\$ -	\$ -
2024-2025 NPIAS	DESIGN AND CONSTRUCTION OF HANGAR TAXILANE EXPANSION	\$ 400,000.00	\$ 360,000.00	\$ 14,000.00	\$ 26,000.00
	TOTAL	\$ 400,000.00	\$ 360,000.00	\$ 14,000.00	\$ 26,000.00
2026-2030 NPIAS	DESIGN AND CONSTRUCTION OF ACCESS ROAD AND PARKING LOT	\$ 350,000.00	\$ 315,000.00	\$ 12,250.00	\$ 22,750.00
	PARALLEL TAXIWAY CONSTRUCTION	\$ 2,000,000.00	\$ 1,800,000.00	\$ 70,000.00	\$ 130,000.00
	REVENUE PRODUCING HANGAR	\$ 450,000.00	\$ 405,000.00	\$ -	\$ 45,000.00
	APRON AND HANGAR TAXILANE RECONSTRUCTION	\$ 600,000.00	\$ 540,000.00	\$ 21,000.00	\$ 39,000.00
	TOTAL	\$ 3,400,000.00	\$ 3,060,000.00	\$ 103,250.00	\$ 236,750.00



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@helms-engineering.com

RECONSTRUCT EXISTING RUNWAY
 FLANDREAU MUNICIPAL AIRPORT
 FLANDREAU, SOUTH DAKOTA
 PRELIMINARY ENGINEER'S ESTIMATE (ASPHALT)
 JUNE 2019

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	GP-105	Mobilization	1	L.S.	\$187,700.00	\$187,700.00
2	C-100	Contractor Quality Control Plan	1	L.S.	\$100,000.00	\$100,000.00
3	S-100	Construction Safety Plan	1	L.S.	\$15,000.00	\$15,000.00
4	P-152	Unclassified Excavation	29,440	CuYd	\$3.50	\$103,040.00
5	P-152	Disposal of Excess Material	22,080	CuYd	\$4.00	\$88,320.00
6	P-154 (MOD)	Subbase Course	35,250	CuYd	\$20.00	\$705,000.00
7	P-208	Aggregate Base Course	3,680	CuYd	\$30.00	\$110,400.00
8	P-401	Bituminous Base/Surface Course	3,850	Ton	\$80.00	\$308,000.00
9	P-401	Bituminous Binder (PG 64-34)	270	Ton	\$800.00	\$216,000.00
10	P-602	Bituminous Prime Coat	30	Ton	\$800.00	\$24,000.00
11	P-603	Bituminous Tack Coat	9	Ton	\$750.00	\$6,750.00
12	P-620	Runway & Taxiway Painting	1	L.S.	\$50,000.00	\$50,000.00
13	D-705 (MOD)	4" Perforated Underdrain Piping	6,320	Ft	\$8.00	\$50,560.00
14	D-705 (MOD)	4" Solid Underdrain Piping	200	Ft	\$10.00	\$2,000.00
15	D-705 (MOD)	Underdrain Cleanout	20	Each	\$300.00	\$6,000.00
16	T-901	Seeding and Fertilizing	5	Acre	\$1,500.00	\$7,500.00
17	T-905	Topsoiling	4,200	CuYd	\$6.00	\$25,200.00
18	TL-100	Field Laboratory, Type I	1	Each	\$10,000.00	\$10,000.00
19	SP-2	Geogrid	2,000	SqYd	\$3.00	\$6,000.00
20	SP-3	Geotextile Separator Fabric	22,080	SqYd	\$3.00	\$66,240.00
21	Plans	Lighting Upgrades	1	L.S.	\$425,000.00	\$425,000.00
22	Plans	Underdrain Outlet Structure	1	Each	\$400.00	\$400.00
23	Plans	Reflectorized Holding Position Sign	1	Each	\$1,500.00	\$1,500.00
24	Plans	High Flow Silt Fence	300	Ft	\$6.00	\$1,800.00
25	Plans	Type II Erosion Control Blanket	5,620	SqYd	\$3.00	\$16,860.00
Estimated Total Base Bid						\$2,533,270.00
Estimated Bidding & Negotiations						\$10,000.00
Estimated Construction Administration						\$90,000.00
Estimated Construction Engineering						\$260,000.00
Estimated Asphalt Testing						\$30,000.00
Estimated Administration (±10% of Construction Costs)						\$246,730.00
Estimated Total Project Costs						\$3,170,000.00

GOLF COURSE





2019 FLOOD

GOLF COURSE

- WYSS Study underway March 1st
- Assessment of flood damage and flood mitigation measures
- Will require approval of Corp of Engineers
- Level of capital investment and operational subsidy unknown

CRESCENT ST
BRIDGE

Conversion of Crescent Street Bridge to Pedestrian Bridge

Regains link between Flandreau Indian School and City

Promotes Crescent Street to Indian School as a walking/fitness trail

Cost:

Option to convert existing bridge requires new bridge inspection and analysis at a cost of : \$ 6,000. Some repairs would be required.

Narrow existing roadway to width required for pedestrians pathway.

Demolition of existing bridge: \$150,000

145' x 10' steel recreation bridge: \$250,000





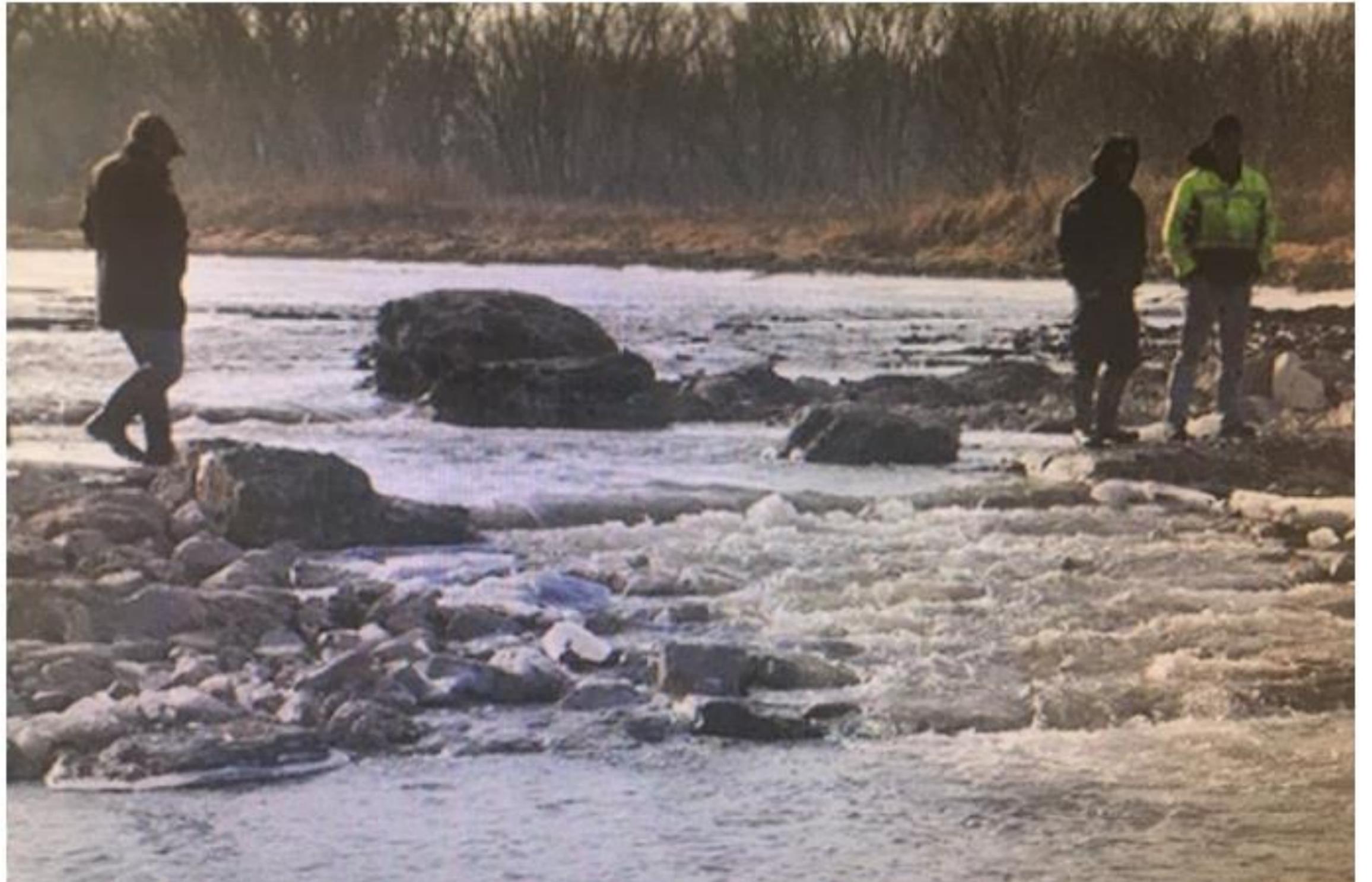


FLANDREAU

DAM



MITIGATION OPTION



FLANDREAU DAM MITIGATION

Remove the existing 10' wall that creates "death pool"

Preserve and enhance for fishing and boating

Need for improved access on both sides of river

COST?

Removal of existing dam-\$300,000

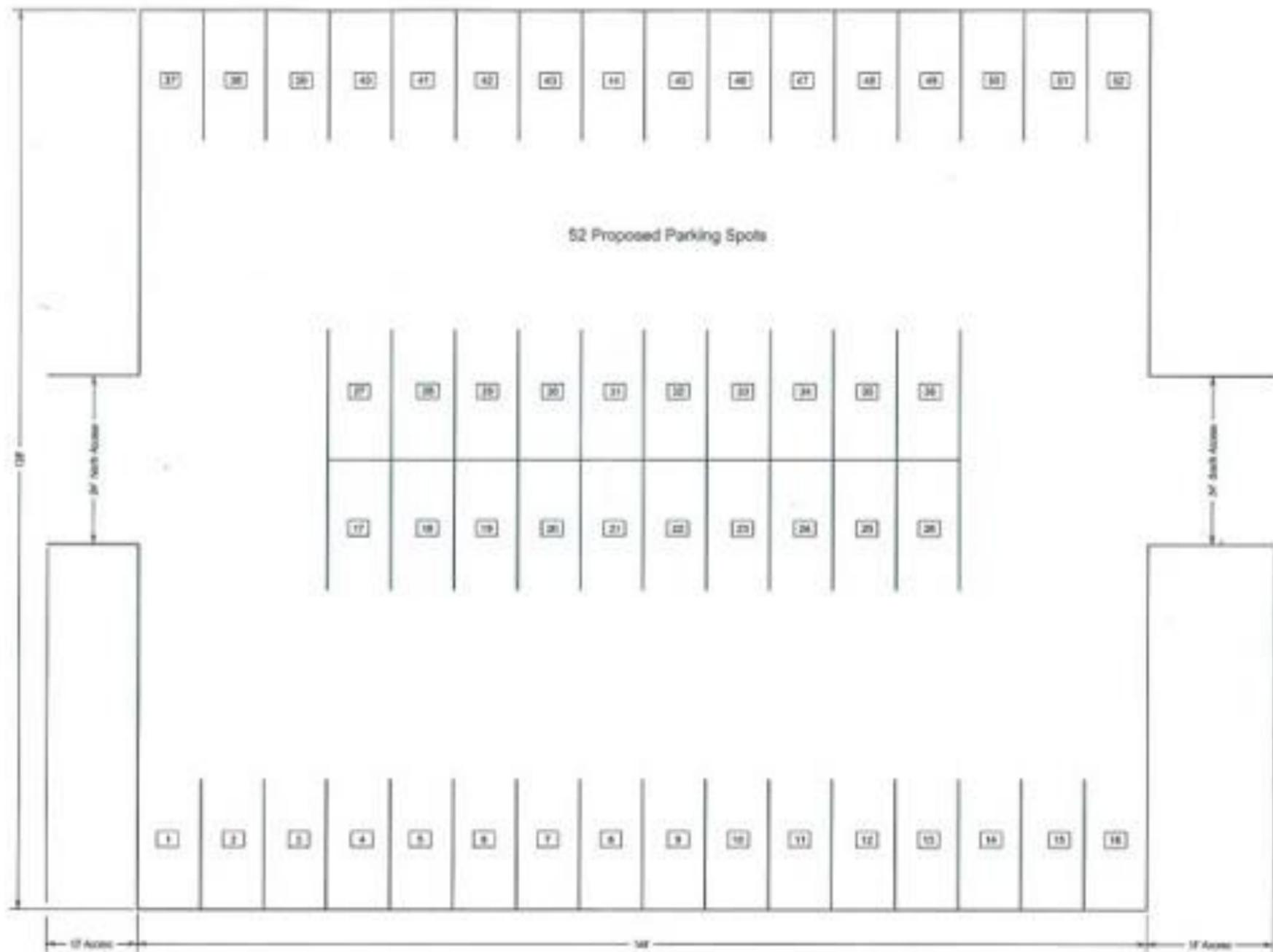
Construction of new dam-\$850,000

Access Improvements-?

Governor's Omnibus Water Bill? Agency shared funding?







NO.	DESCRIPTION	DATE	BY

North 13th Street Parking Lot - Asphalt Option					
Line Item No.	Item Description	Quantity	Unit	Unit Cost	Item Total
	Removals				
1	Mobilization (15%)	1	LS	\$ 18,000.00	\$ 18,000.00
	Excavation				
2	Unclassified Excavation	950	CY	\$ 10.00	\$ 9,500.00
	Paving				
3	Aggregate Base Course 12" Thick	1,350	TON	\$ 20.00	\$ 27,000.00
4	Asphalt Concrete Composite	473	TON	\$ 100.00	\$ 47,300.00
5	Miscellaneous Site Grading & Seeding	1	LS	\$ 2,150.00	\$ 2,150.00
6	Pavement Marking Paint, 4" Yellow	1,050	FT	\$ 1.00	\$ 1,050.00

Total Items 1 through 6	\$105,000.00
Contingencies (10%)	\$10,000.00
Subtotal	\$115,000.00
Engineering	\$20,000.00
Total Estimated Project Cost	\$135,000.00

North 13th Street Parking Lot - Concrete Option

Line Item No.	Item Description	Quantity	Unit	Unit Cost	Item Total
	Removals				
1	Mobilization (15%)	1	LS	\$ 18,000.00	\$ 18,000.00
	Excavation				
2	Unclassified Excavation	710	CY	\$ 10.00	\$ 7,100.00
	Paving				
3	Aggregate Base Course 6" Thick	675	TON	\$ 20.00	\$ 13,500.00
4	6" Nonreinforced PCC Pavement	2,130	S.Y.	\$ 70.00	\$149,100.00
5	Miscellaneous Site Grading & Seeding	1	LS	\$ 2,250.00	\$ 2,250.00
6	Pavement Marking Paint, 4" Yellow	1,050	FT	\$ 1.00	\$ 1,050.00

Total Items 1 through 6				\$191,000.00	
Contingencies (10%)				\$19,000.00	
Subtotal				\$210,000.00	
Engineering				\$20,000.00	
Total Estimated Project Cost				\$230,000.00	

DUNCAN PARK



Ice Skating Rink

Playground

Basketball Court

Dog Park

160'x90'

Skate Park

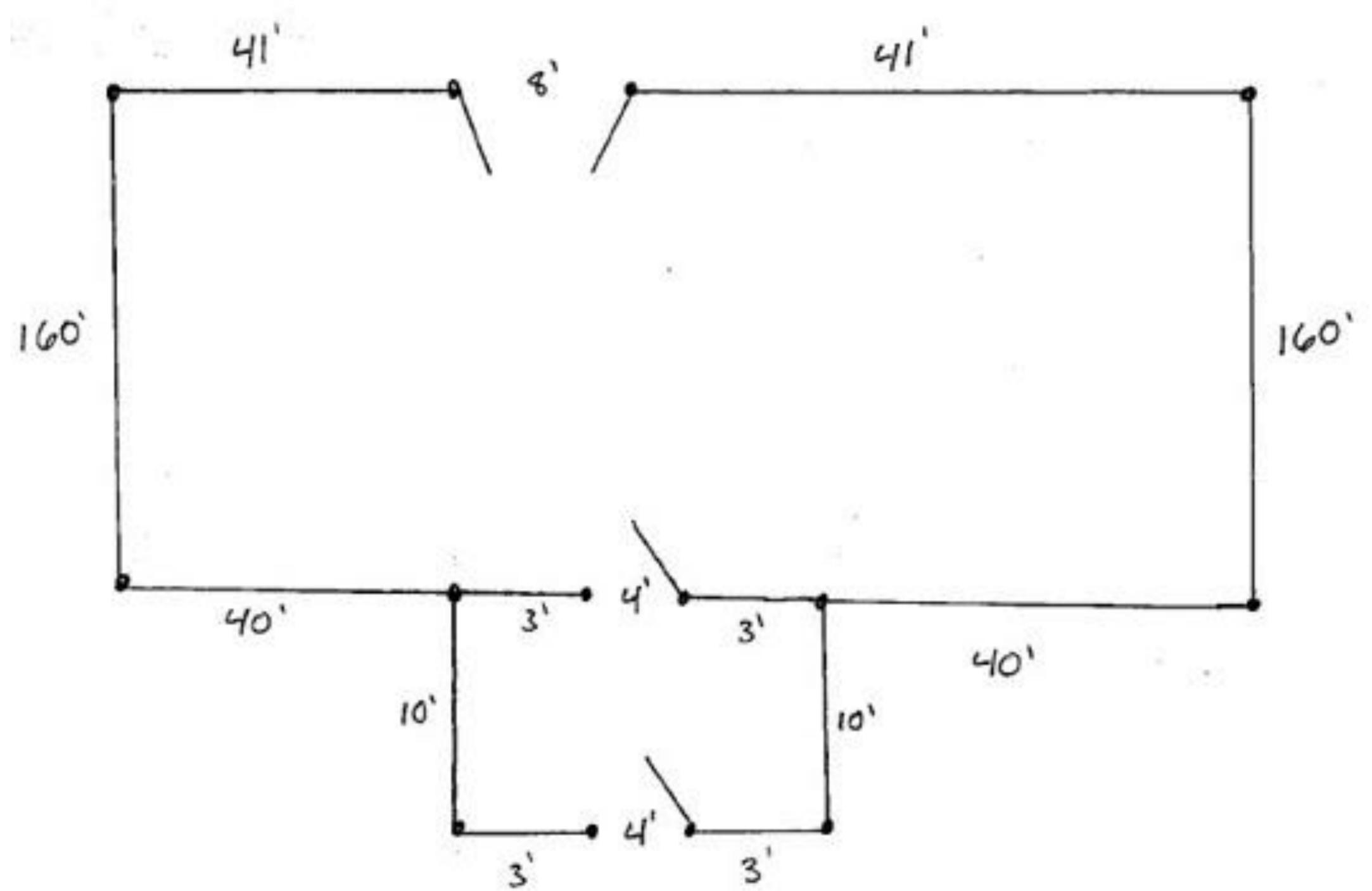
60' x 60'



SKATE PARK

- Equipment donated by Bruce Allen
- Estimated cost of 60' X 60' Concrete pad is \$25,000
- Unsupervised – Protective Equipment Recommended
- No Fencing or Lighting
- Acceptable to City Liability Insurance Carrier





DOG PARK

BENEFITS

- Safe area for owners to exercise their pets
- Dogs get off-leash exercise and social activity with other dogs
- Dogs run in confined area w/o damaging private property
- Acts as a gathering spot for dog owners
- Promotes responsible dog ownership

CONSTRUCTION

- Dimensions are 160' x 90'
- Will be constructed on existing grade
- Located in an unused area of Duncan Park
- Fence is commercial grade and in use for several dog parks
- Will contain 10' X10' transition area
- Materials cost estimate \$5,500
- Will be installed with City labor

COMMUNITY CENTER

& ARMORY



COMMUNITY CENTER EQUIPMENT UPGRADE

Building is 40 years old. All HVAC equipment is original with exception of three boilers.

Biggest issues are leaking pipes and unreliable pneumatic controls.

Total cost to upgrade all controls and systems: \$1.3m

Total cost to upgrade existing pneumatic controls to digital controls:
\$200,000.

Cost to completely change out water circulation pipes: ?

BATES STREET
IMPROVEMENTS

Why Improve Bates Street?

Improve access on Bates from Elm to 3rd Avenue for motorists and pedestrians

Bring a solution to current drainage issues on this section of Bates that often results in these two blocks closed to traffic in spring

Improve aesthetics of area and encourage private investment in adjoining property

Address a current deficiency in the City's street program by completing the only remaining two-block section of unimproved residential street in the City.

BATES STREET IMPROVEMENTS

Improvements to Bates Street include hard-surfacing from Elm Street to E 3rd Avenue, to include 1600 LF of Storm Sewer with 4 Drop Inlets, Curb & Gutter, and Sidewalk

Option 1

26' Roadway- Asphalt Pavement \$673,000

Option 2

36' Roadway- Asphalt Pavement \$710,000

Option 3

26' Roadway- Portland Cement Pavement \$768,000

Option 4

36' Roadway- Portland Cement Pavement \$830,000



CLARK ENGINEERING
 Convention Center Plaza
 1410 West 4th Street
 Sioux Falls, SD 57104-1320
 Phone: (605) 331-2505
 Fax: (605) 331-2602
 soxfan@clark-eng.com

#	REVISION	DATE	BY

Bates Street Paving

Layout

PROJECT NO.	PWIN
DRAWN BY:	AP
CHECKED BY:	SW
DATE:	11/10/19

SHEET
1
OF 1

FIRE STATION







CITY OFFICE





CITY OFFICE

- IMPROVE APPEARANCE OF CITY OFFICE / PUBLIC WORKS BUILDING
- MAKE BUILDING MORE RECOGNIZABLE AS AN OFFICE BUILDING
- MAKE BUILDING MORE VISUALLY COMPATIBLE WITH OFFICE BUILDING ACROSS THE STREET
- COVER OVER DAMAGE TO EXISTING METAL FACADE
- PROJECTED COST OF \$12,000

CITY COUNCIL

MEETING VIDEO

CITY COUNCIL MEETING VIDEO

- CONVENIENT ACCESS TO LIVE AND ARCHIVED STREAMING VIDEO FROM ANYWHERE, ON ANY DEVICE
- PROVIDES VERIFIABLE RECORDING OF MEETINGS
- INCREASE CIVIC ENGAGEMENT AND TRUST WITH THE PUBLIC

CITY COUNCIL MEETING VIDEO

HARDWARE REQUIREMENTS:

Camera, mixer, mics, etc., installed-\$4,000.

Encoder including setup and configuration-\$4,500

ANNUAL SOFTWARE SUBSCRIPTIONS

Granicus Encoding Appliance Software-\$1,200

Granicus Government Transparency Suite-\$2,600

CITY COUNCIL MEETING VIDEO

SUMMARY

Initial hardware cost: \$9,500

Annual software fees and subscription: \$3,800