

MEMORANDUM

TO: Programs, Projects, and Operations Subcommittee
FROM: Eric Williams, Natural Resources Planner
SUBJECT: FY 2024 Urban Cost Share Programs

- Urban Conservation Assistance Program
- Recreation Area Development Program
- Trails Assistance Program

DATE: April 5, 2023

The District solicited applications for the urban cost share programs from the various units of government in the District for the upcoming fiscal year. The following applications were received.

Urban Conservation Assistance Program

The Urban Conservation Assistance Program (UCAP) cost shares with units of government to solve relatively minor erosion, flooding, and stormwater management problems within their jurisdiction. The Policy Manual allows for Management approval of all applications.

City of Omaha, Pacific Street Bridge Over Big Papio

Significant erosion is occurring at the southwest corner of the bridge which is impacting the bank of the channel. This problem was discovered recently and preliminary work on a solution is in process. District staff will coordinate with the City of Omaha throughout the design and construction of repairs to assure the solution follows program guidelines.

SID 276 Portal Ridge, Channel Improvements

Erosion is occurring along Applewood Creek at the outlet of the culvert under Giles Road. This project was previously submitted and then removed due to work on the culvert, and is now being re-submitted following the completion of the culvert work.

SID 503 West Dodge Station, Channel Improvements

Sloughing and bank erosion is occurring on both sides of the creek causing impact to adjacent property owners. Repair will include sheet pile and rock rip rap.

SID 555 Andresen Meadows Estates, Bank Stabilization

Erosion on a tributary to the West Papillion Creek is threatening adjacent properties upstream of the culvert at N 179th Street. Repairs will include bank stabilization, placement of rip rap, and construction of grade control.

The FY 2023 budget included \$60,000 for projects in this program. The following table summarizes the FY 2024 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2024 Cost Share</u>
Omaha, Pacific Street Bridge Over Big Papio	\$50,000	\$30,000
SID 276 Portal Ridge, Channel Improvements	\$120,000	\$30,000
SID 503 W Dodge Station Channel Improvements	\$155,000	\$30,000
SID 555 Andersen Meadows Estates, Bank Stab.	\$208,000	\$30,000
Total	\$533,000	\$120,000

- **It is recommended that the Subcommittee recommend to the Board of Directors that the applications from the City of Omaha for \$30,000 and SID 276 Portal Ridge for \$30,000, SID 503 West Dodge Station for \$30,000, and SID 555 Andersen Meadows Estates for \$30,000, for a total of \$120,000 be approved, subject to funding in the FY 2024 Budget.**

Urban Drainageway Program

Due to the funding amount approved for multi-year projects, no new applications were accepted for the Urban Drainageway Program to be considered in FY 2024.

Recreation Area Development Program

The Recreation Area Development Program (RAD) cost shares with communities to develop and improve recreation areas within their jurisdiction. The cost share rate is 50%. On projects requesting more than \$20,000, the Policy Manual requires Board approval. On all others, Management has approval authority.

City of Blair, Generation Park Restrooms

Funding is requested toward construction of a new ADA accessible restroom at Generation Park. The new bathrooms are part of a comprehensive upgrade to the entire park.

Village of Hubbard, Park Restroom Renovation

Upgrades are planned for the public restroom facilities in the park. These facilities intend to reclaim both grey water from the restroom and rainwater for use in the park watering system.

La Vista, Central Park East Playground

The Central Park Playground is additional work along Thompson Creek where the District has supported La Vista through multiple past programs. The ongoing investments from both agencies have been focused around both natural resources management and recreation.

City of Omaha, Adams Park Picnic Facilities

Comprehensive upgrades are planned for Adams Park including a new playground, picnic shelter, sidewalks and paths, and tree plantings.

City of Omaha, Munnely Park Renovation

Revitalization of this public space has been identified as a priority by community residents. The upgrades will include a new playground, picnic area improvements, potentially a small shelter, and accessible walks.

Papillion, Schwer Park Playground Renovation

This project will renovate an old and unsafe play area with the installation of new equipment.

Papillion, Trail Wayfinding Study and Plan

Funding is requested to support a study to help identify effective signage between recreation areas and along trail corridors. This project was submitted to the Trails Assistance Program but is recommended to be funded at the requested amount under the Recreation Area Development Program according to guidelines for “development of a recreation area plan.”

South Sioux City, Curry Park Playground

Upgrade of the equipment in the park aligns with both the local comprehensive plan, and the goals of the Statewide Comprehensive Outdoor Recreation Plan (SCORP). The work will include a climber, swings, and new soft surface beneath the equipment.

The FY 2023 budget included \$297,500 for projects in this program. The following table summarizes the FY 2024 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2024 Cost Share</u>
Blair, Generation Park Restrooms	\$405,000	\$50,000
Hubbard, Park Restroom Renovation	\$29,500	\$14,750
La Vista, Central Park East Playground	\$250,000	\$50,000
Omaha, Adams Park Picnic Facilities	\$678,500	\$50,000
Omaha, Munnely Park Renovation	\$280,000	\$50,000
Papillion, Schwer Park Playground Renovation	\$221,419	\$50,000
Papillion, Trail Wayfinding Study and Plan	\$22,000	\$11,000
South Sioux City, Curry Park Playground	\$170,000	\$50,000
Total	\$2,056,419	\$325,750

- **It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Blair for \$50,000, Hubbard for \$14,750, La Vista for \$50,000, Omaha for \$50,000 and \$50,000, Papillion for \$50,000 and \$11,000, and South Sioux City for \$50,000, for a total of \$325,750, be approved, subject to funding in the FY 2024 Budget.**

Trails Assistance Program

The Trails Assistance Program cost shares with sponsors on trail projects to provide recreation and active transportation opportunities in the District. The cost share rate is 50% of the local share. All projects require Board approval.

Fort Calhoun, Trail System Phase 3 & 4

The District has been supporting the ongoing comprehensive recreation and active transportation planning and construction in Fort Calhoun for several years. This project represents a continuation and expansion of past work on the trail system which connects to multiple parks, the community school, and through the center of the community.

Omaha, Keystone Trail Democracy to Somerset

This project will connect the current northern most end of the Keystone Trail at Democracy Park to additional existing trail sections and to the existing Somerset Park. This represents one of the final two projects to connect the trail all the way to Lake Cunningham.

SID 313 Garden Oaks, Trail Improvements

This neighborhood is located on the west side of Beadle Creek, north from 180th Street. The trail will follow the creek and provide access to the existing recreation areas. District staff will coordinate with the SID to ensure this project matches the design for the WFPO project which is being reviewed. The details for which that structure have been provided to the engineer.

SID 328 Sumtur Crossing, Trail Connections

A new trail is planned to connect the neighborhood to an existing trail in the adjacent neighborhood, and to the trail which connects into Walnut Creek Recreation Area. Plans include sidewalks, and District staff will review to make sure that work submitted for reimbursement is aligned with program guidelines.

South Sioux City, Cardinal School Trail Connection

This new trail will extend the existing trail network and provide enhanced access to the Cardinal Elementary School. The project will provide increased connectivity to existing recreation facilities, and serve as a safe route to school for children in the area.

The FY 2023 budget included \$688,822 for projects in this program. The following table summarizes the FY 2024 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2024 Cost Share</u>
Fort Calhoun, Trail System Phase 3 & 4	\$335,432	\$42,716
Omaha, Keystone Trail Democracy to Somerset	\$1,114,558	\$557,279
SID 313 Garden Oaks, Trail Improvements	\$500,000	\$250,000
SID 328 Sumtur Crossing, Trail Connections	\$228,000	\$114,000

South Sioux City, Cardinal School Trail Connection	\$110,670	\$55,335
Total	\$2,288,660	\$1,019,330

- **It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Fort Calhoun for \$42,716, Omaha for \$557,279, SID 313 Garden Oaks for \$250,000, SDI 328 Sumtur Crossing for \$114,000, and South Sioux City for \$55,335, for a total of \$1,019,330 be approved, subject to funding in the FY 2024 Budget.**

Lake Dredging Program

No applications were received to be funded in FY 2024.

Urban Conservation Assistance Program – Application Form

Project name Erosion Repair - Pacific St Bridge over Big Papillion Creek

Project location (attach location map) SW Corner Pacific St Bridge over Big Papillion Creek

Sponsor organization Omaha Public Works - Collection System (Sewer Maintenance)

Sponsor address 6880 Q St

City Omaha State NE ZIP

Contact person Steve Andersen

Title Manager - Collection System and Flood Control

Email address stephen.andersen@cityofomaha.org Daytime phone 402-444-5265

Description of problem (attach additional sheets as needed)

Significant erosion is occurring along the dripline of the Pacific Street
Bridge crossing the Big Papillion Creek. There is also a broken storm
sewer contributing to the problem.

Proposed solution (attach additional sheets as needed)

The specific repair is unknown at this time. Project cost is anticipated
to exceed the NRD maximum reimbursement and final cost will be
determined during the design process

Total estimated cost \$ 50000

Cost share request \$ 30000

Selma C Kessler

Digitally signed by Selma C Kessler
DN: C=US,
E=selma.kessler@cityofomaha.org, O=City
of Omaha, OU=Public Works Design
Division, CN=Selma C Kessler
Date: 2023.03.17 12:54:51-05'00'

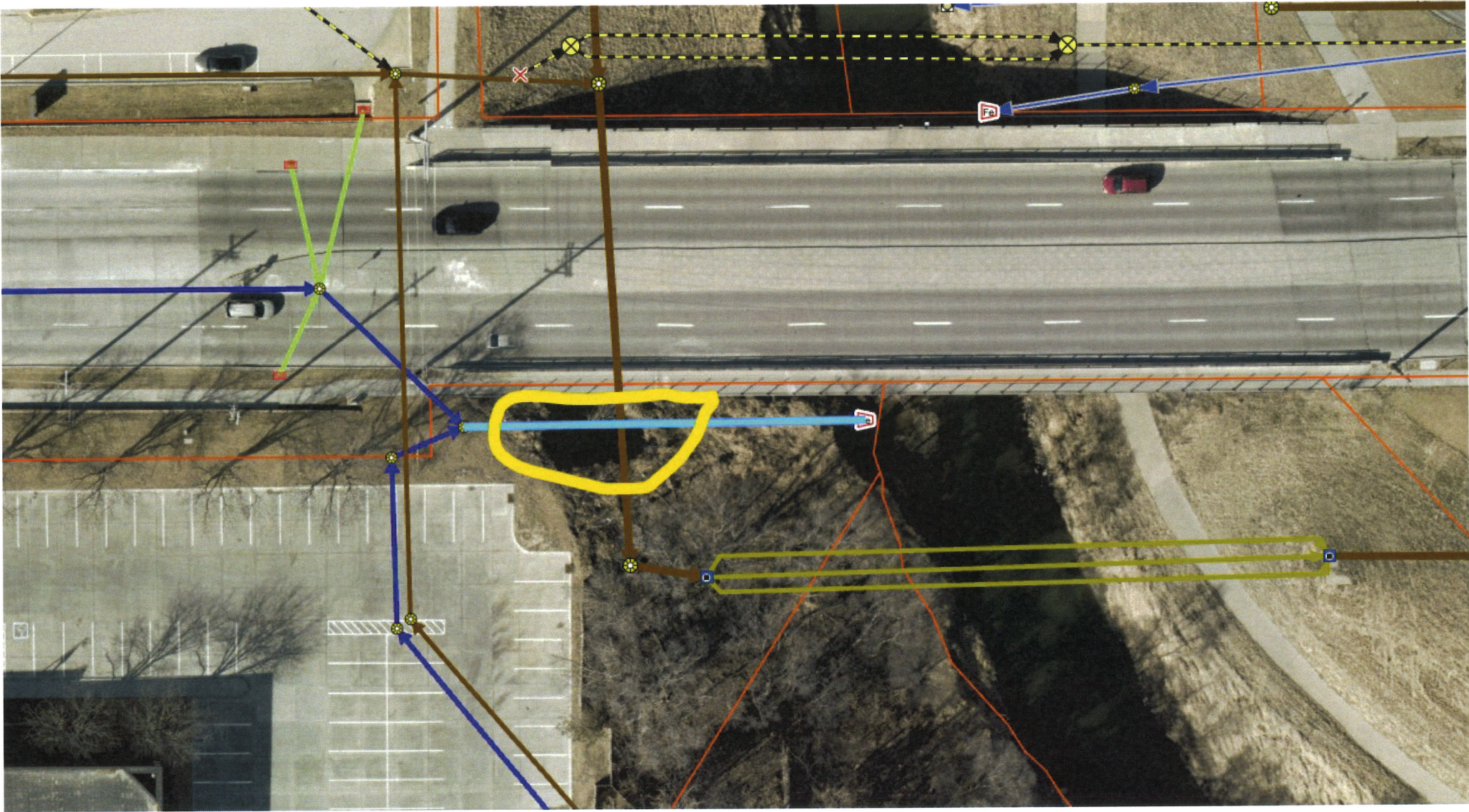
3-17-23

Signature

Date

Stormwater Capital Program Manager

Title



Urban Conservation Assistance Program – Application Form



Project name _____

Project location (attach location map) _____

Sponsor organization _____

Sponsor address _____

City _____ State _____ ZIP _____

Contact person _____

Title _____

Email address _____ Daytime phone _____

Description of problem (attach additional sheets as needed)

Proposed solution (attach additional sheets as needed)

Total estimated cost \$ _____ Cost share request \$ _____

Signature

Date

Title

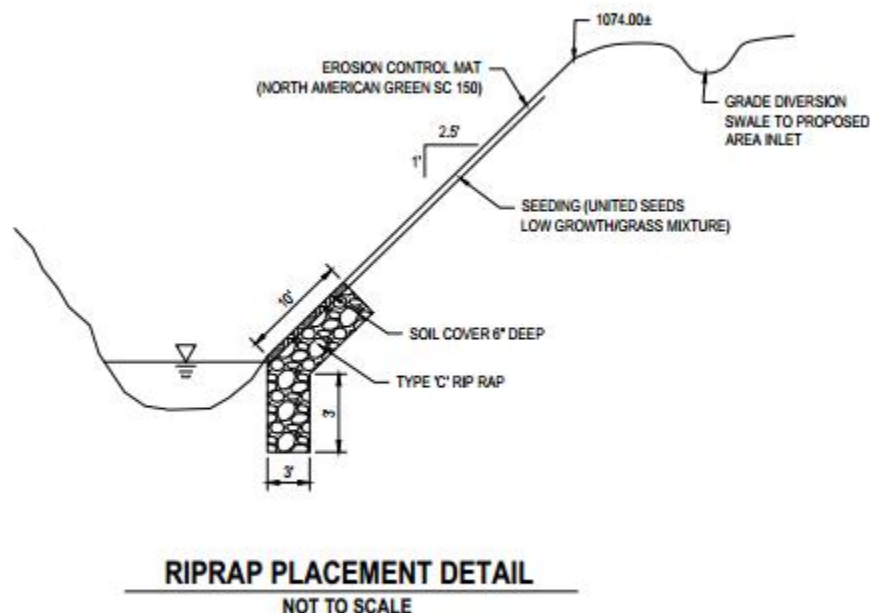
URBAN CONSERVATION ASSISTANCE PROGRAM – APPLICATION FORM

Description of problem –

A segment of Applewood Creek, which is a tributary of West Papillion Creek, bordering Portal Ridge (SID 276) has experienced significant bank sloughing and erosion on the east bank. Further bank erosion is anticipated, jeopardizing the adjacent private property owners.

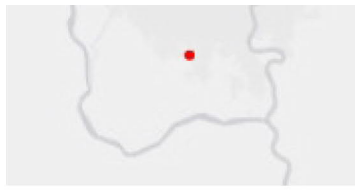
Proposed solution –

The proposed solution is to stabilize the eroding creek by installing grade control, channel restoration, and bank stabilization. Grade control would include the installation of sheet pile weir structures. The placement of rip rap and sheet pile along the east bank will help in establishing a hard armor toe of slope. Existing vertical banks will be regarded to a 2.5:1 slope, matted and seeded.



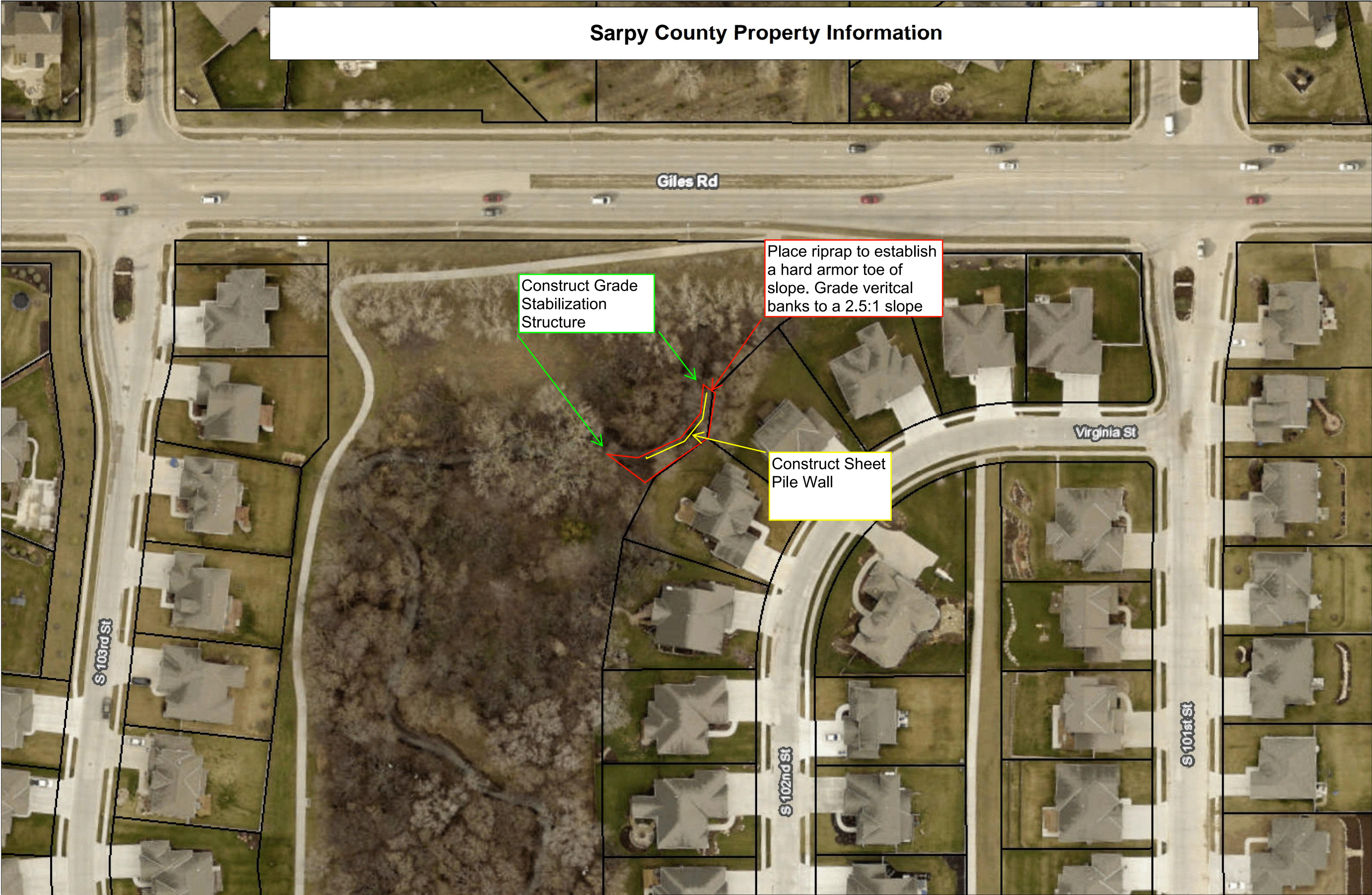
Sarpy County Property Information

Location



Legend

- Road Centerlines
2016 Aerial Photo
- Red: Band_1
 - Green: Band_2
 - Blue: Band_3




1: 967



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the source records and information sources to ascertain the usability of the information.

Sarpy County GIS



1210 Golden Gate Dr.
Suite 1130
Papillion, NE 68046
maps.sarpy.com

Urban Conservation Assistance Program – Application Form



Project name _____

Project location (attach location map) _____

Sponsor organization _____

Sponsor address _____

City _____ State _____ ZIP _____

Contact person _____

Title _____

Email address _____ Daytime phone _____

Description of problem (attach additional sheets as needed)

Proposed solution (attach additional sheets as needed)

Total estimated cost \$ _____ Cost share request \$ _____

Signature

Date

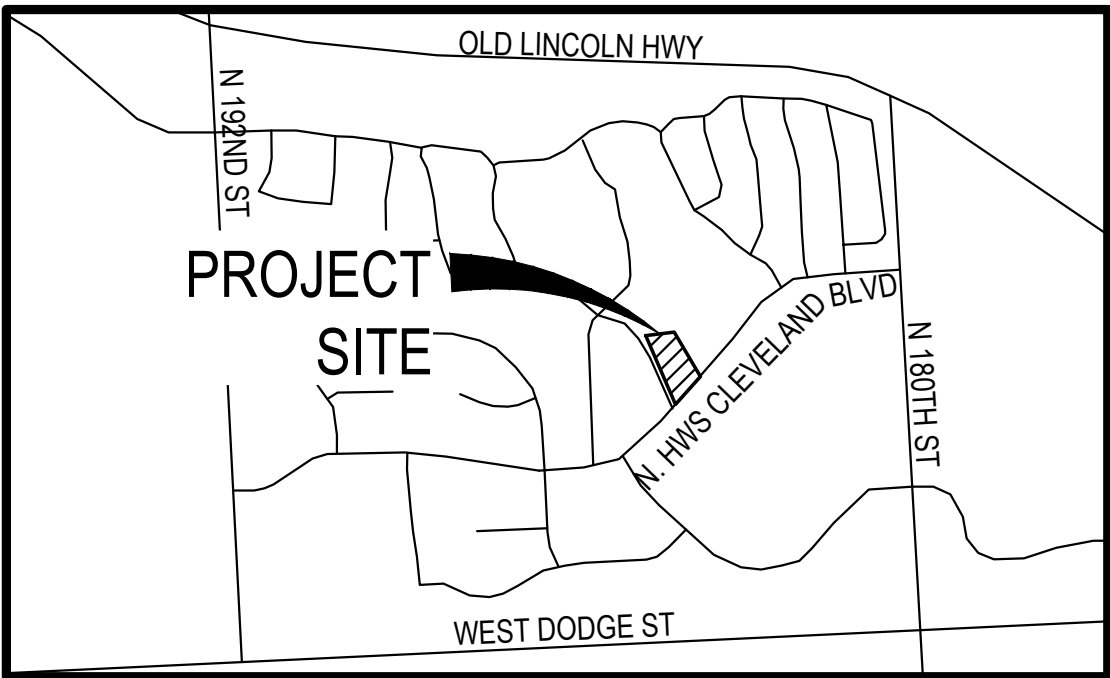
Title

West Dodge Station Channel Improvements

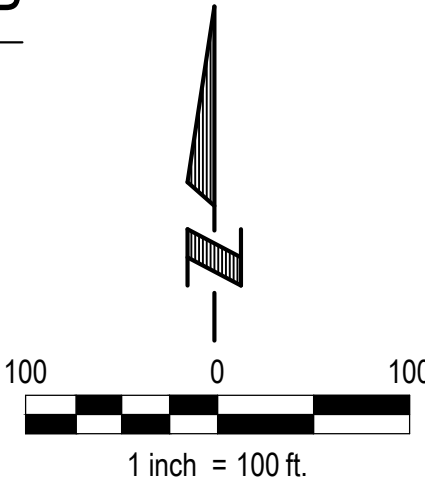
Channel Improvement - SECTION 1

Located in the NE of Section 17, Township 15, Range 11E, of the 6th P.M.

SID NO. 503
Omaha, NEBRASKA



VICINITY MAP



Sheet List Table

Sheet Number	Sheet Title
1	COVER
2	NOTES
3	SITE PLAN
4	PLAN
5	DETAIL
6	ACCESS

APPROXIMATE BID QUANTITIES

NO.	ITEM	QUANTITY	UNIT
1	Mobilization	1	LS
2	Install Construction Entrance	2	LS
3	Clearing and Grubbing - General	1	LS
4	Clearing and Grubbing Trees over 9" to 18" Diameter	38	EA
5	Clearing and Grubbing Trees over 18" to 27" Diameter	8	EA
6	Clearing and Grubbing Trees over 27" to 36" Diameter	1	EA
7	Clearing and Grubbing Trees over 36" to 48" Diameter	2	EA
8	Clearing and Grubbing Trees over 48" Diameter	4	EA
9	Type 'B' Rock Rip-Rap	385	TN
10	Seeding - Type B	0.25	AC
11	Installed Rolled Erosion Control - Type I	1,030	SY
12	Remove Sidewalk	260	SF
13	Construct 4" PCC Sidewalk	260	SF



PROJECT INFORMATION

<input checked="" type="checkbox"/> Project Number Assigned by PWD	OMA-00050332-212-1	503	April 1, 2023	June 1, 2023
Channel Improvements		Silverleaf Estates/West Dodge Station		
<input checked="" type="checkbox"/> Address	Omaha	NE	68022	
<input checked="" type="checkbox"/> City Council Resolution Number Granting Project Approval	<input checked="" type="checkbox"/> City Council Ordinance Number Granting Project Approval	<input checked="" type="checkbox"/> City Council Resolution/Ordinance Approval Date		

PROJECT DESCRIPTION

The construction of channel and bank stabilization measurers to repair erosion

APPLICANT

SID #503
Jeffrey Penne, Chairman
11440 West Center Road, Suite C
Omaha, NE 68144
P: 402.334.0700
F: 402.334.0815
jhp@tdjlaw.com

DESIGNER

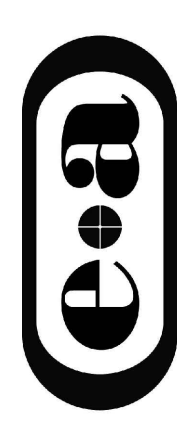
E & A Consulting Group, Inc
Travis Figard, P.E.
10909 Mill Valley Road, Suite 100
Omaha, NE 68154
P: 402.895.4700
F: 402.895.3599
tfigard@eacg.com

INSPECTOR

E & A Consulting Group, Inc
Randall L. Pierce, P.E.
10909 Mill Valley Road, Suite 100
Omaha, NE 68154
P: 402.895.4700
F: 402.895.3599
rpierce@eacg.com

CONTRACTOR

E & A CONSULTING GROUP, INC.
Engineering • Planning • Environmental & Field Services



E & A CONSULTING GROUP, INC.
Engineering Answers

West Dodge Station Channel
Improvements
Channel Improvement
SID 503
Omaha, NEBRASKA

COVER



Revisions	Description	Date
1	7/27/2023	TAE
2	JRY	
3	AS SHOWN	
4	1 of 6	

Proj No:	P2003.144.024
Date:	7/27/2023
Designed By:	TAE
Drawn By:	JRY
Scale:	AS SHOWN
Sheet:	1 of 6

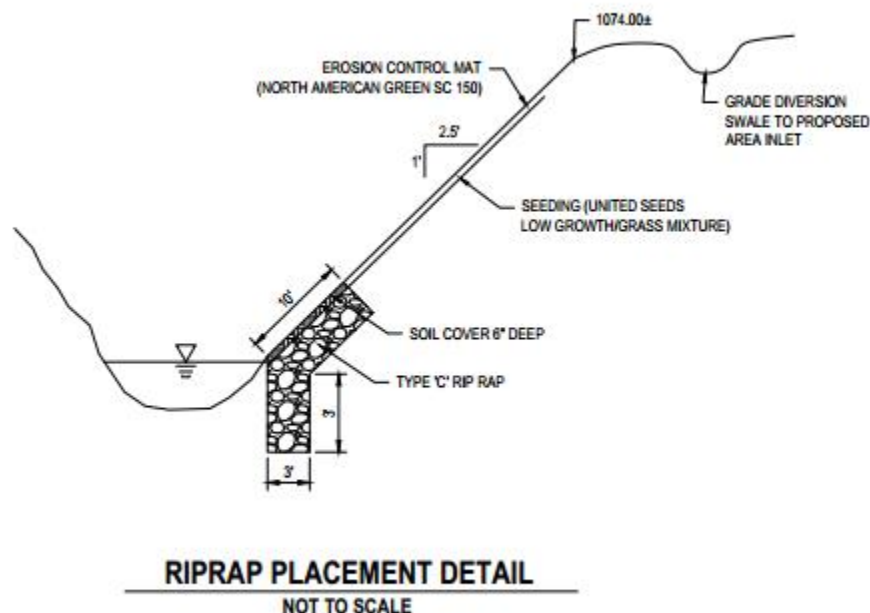
URBAN CONSERVATION ASSISTANCE PROGRAM – APPLICATION FORM

Description of problem –

A tributary of the West Papillion Creek, bordering West Dodge Station / Silverleaf Estates (SID 503) has experienced significant bank sloughing and erosion on the east and west bank. Further bank erosion is anticipated, jeopardizing the adjacent private property owners.

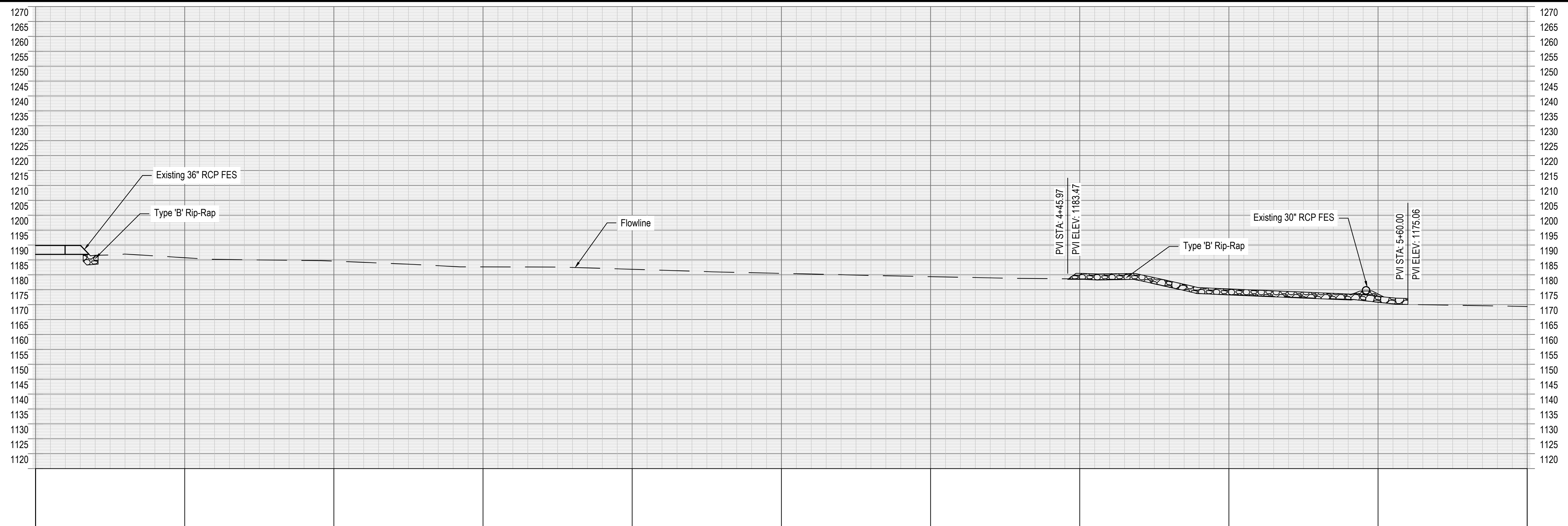
Proposed solution –

The proposed solution is to stabilize the eroding creek by installing grade control, channel restoration, and bank stabilization. Grade control would include the installation of sheet pile weir structures. The placement of rip rap and sheet pile along the west bank will help in establishing a hard armor toe of slope. Existing vertical banks will be regarded to a 2.5:1 slope, matted and seeded.



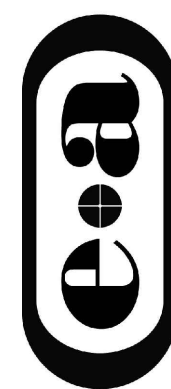


FLOWLINE



PLAN

West Dodge Station Channel
Improvements
Channel Improvement
SID 503
Omaha, NEBRASKA



E & A CONSULTING GROUP, INC.
Engineering • Planning • Environmental & Field Services

10909 Mill Valley Road, Suite 100 • Omaha, NE 68154
Phone: 402.895.4700 • Fax: 402.895.3599
www.eacg.com

Urban Conservation Assistance Program – Application Form



Project name Andresen Meadows Estates - Bank Stabilization

Project location (attach location map) Behind North 177th Street and Corby Street

Sponsor organization SID 555, Andresen Meadows Estates

Sponsor address 11440 West Center Road

City Omaha State NE ZIP 68144

Contact person Robert F. Czerwinski Jr.

Title Municipal Services Dept. Manager

Email address bczerwinski@eacg.com Daytime phone 402.510.1329

Description of problem (attach additional sheets as needed)

See attached sheet

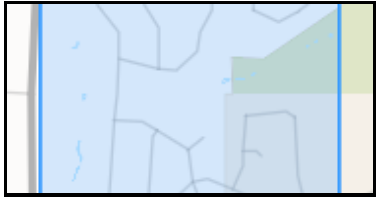
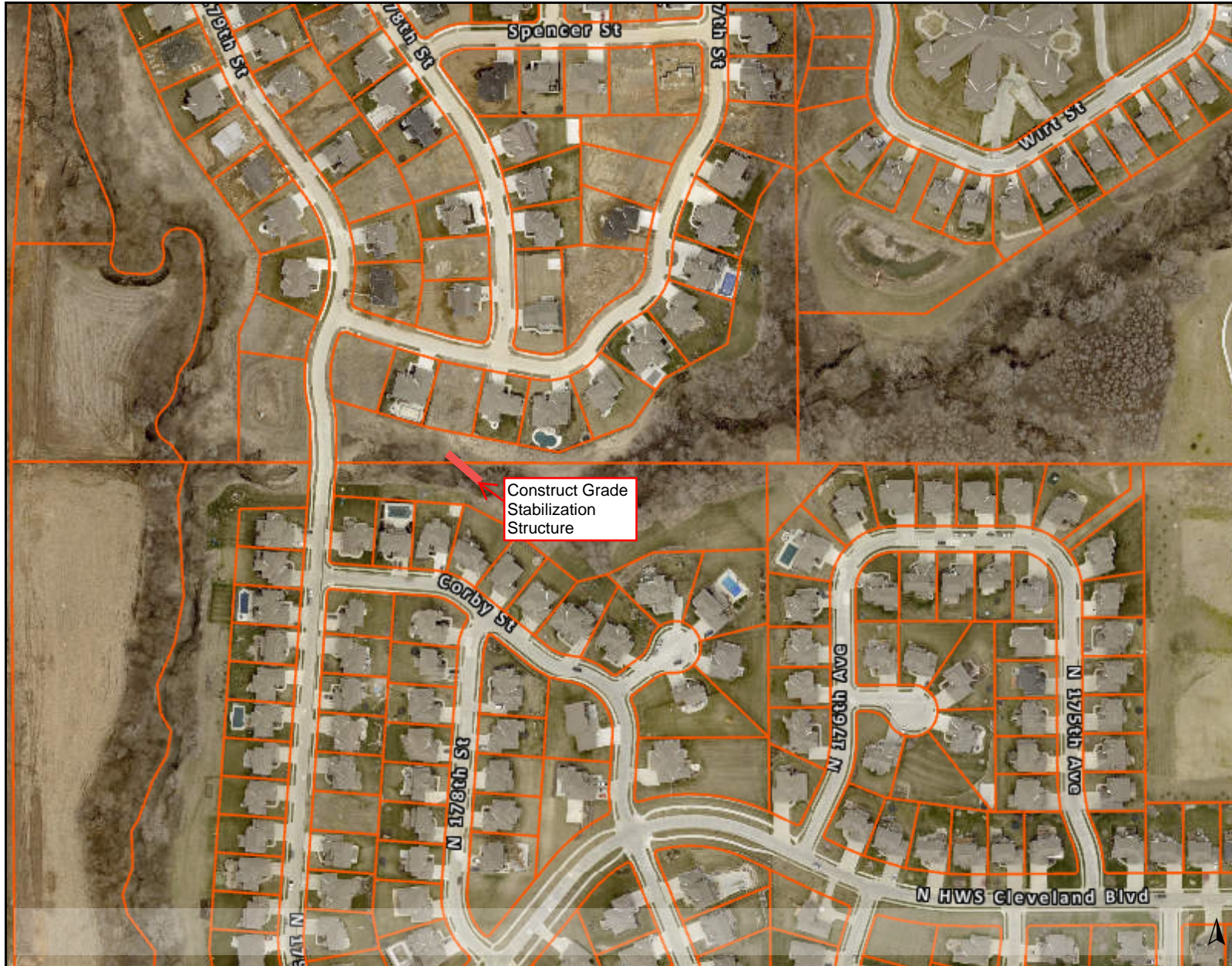
Proposed solution (attach additional sheets as needed)

See attached sheet

Total estimated cost \$ 208,000.00 Cost share request \$ 30,000.00

Signature _____ Date 3/15/2023

Municipal Services Dept. Manager
Title



Legend

Parcels

Property Lines



2020 Imagery



Red: Red

Green: Green

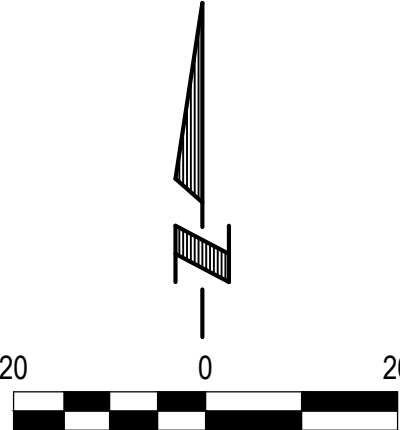
Blue: Blue

0 500 1000
ft

Please contact Douglas County GIS for map questions (gis@douglascounty-ne.gov)

Printed from dogsis.org:
03/19/2021 00:00:00
17

This map is a user generated static output from an Internet mapping site and is for reference only. Data on this map may or may not be accurate, current, or otherwise reliable. It is for informational purposes only, and may not be suitable for legal, engineering, or surveying purposes. Do NOT use property lines from this website for plan submissions.



LEGEND

-
- Existing Contours
- Proposed Contours
- Rip-Rap
- Limits of Construction

RN REFERENCE NOTES

- | | |
|-------------|--|
| <p>RN 1</p> | <p>Prior to excavation strip topsoil in accordance with City of Omaha Standard Specifications for Public Works Construction Section 801. See Typical Detail on Sheet 3 of these plans.</p> |
| <p>RN 2</p> | <p>Staking Points for the proposed top of bank have been provided for reference. Contractor shall field adjust top of bank as necessary to ensure design slopes are met.</p> |

GRADING STAKING POINTS			
#	NORTHING	EASTING	DESCRIPTION
1	551985.3317	2686865.9995	TOP OF BANK
2	551997.0932	2686868.8262	TOP OF BANK
3	551993.8438	2686934.6568	TOP OF BANK
4	551970.1761	2686999.0456	TOP OF BANK
5	551975.4976	2687031.4881	TOP OF BANK
6	551957.4195	2687096.8709	TOP OF BANK
7	551958.7753	2687153.2621	TOP OF BANK
8	551927.3247	2687186.1490	TOP OF BANK

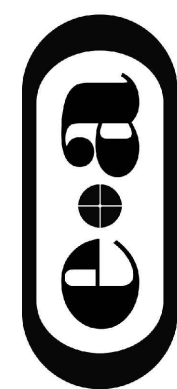
BENCHMARK:

BENCHMARK #1: CHISELED "X", EAST RIM OF A CURB INLET MANHOLE, FIRST CURB INLET NORTH OF CORBY STREET, ON THE EAST SIDE OF NORTH 179TH STREET. BOOK 4217, PAGE 74.

ELEV: 1140.80'

BENCHMARK #2: NORTH RIM OF A SANITARY MANHOLE LOCATED AT THE APPROXIMATE CENTER OF INTERSECTION OF NORTH 179TH STREET AND BINNEY STREET. BOOK 4401, PAGE 21

ELEV: 1147.95'



E & A CONSULTING GROUP, INC.

Engineering Answers

ANDRESEN MEADOWS ESTATES
BANK STABILIZATION

SID 555
DOUGLAS COUNTY, NEBRASKA

GRADING

Proj No:	2011-112-007
Date:	Enter Date
Designed By:	TAF
Drawn By:	MUG
Scale:	AS SHOWN
SHEET	4 OF 9

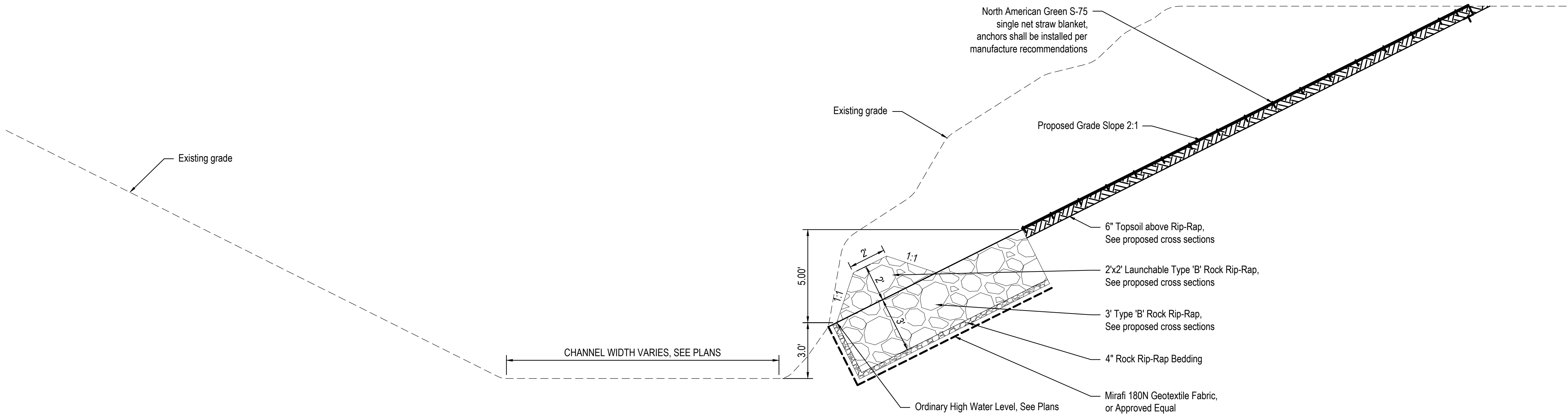
ne1call.com

Nebraska 811

know what's below.
Call before you dig.



Dial: 811



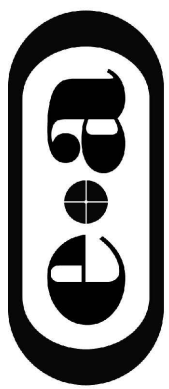
CHANNEL RIPRAP TYPICAL SECTION
STA. 0+40 to 3+25
NOT TO SCALE

Sheet Notes:

Construct Rip-Rap armored bank consisting of Mirafi 180N Geotextile Fabric installed on firm subgrade, 4" thick Rock Rip-Rap Bedding conforming to City of Omaha Standard Specifications for Public Works - Section 500 requirements for coarse aggregate for concrete, and 3' thick Type 'B' Rock Rip-Rap conforming to City of Omaha Standard Specifications for Public Works - Section 800.

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10909 Mill Valley Road, Suite 100 • Omaha, NE 68154
Phone: 402.895.4700 • Fax: 402.895.3559
www.eaeg.com



E & A CONSULTING GROUP, INC.
Engineering Answers

ANDRESEN MEADOWS ESTATES
BANK STABILIZATION

SID 555
DOUGLAS COUNTY, NEBRASKA

DETAILS

Proj No:	2011.112.007	Revisions	
		Date	Description
Date:	Enter Date		
Designed By:	TAF		
Drawn By:	MUG		
Scale:	AS SHOWN		
Sheet:	7 of 9		

Recreation Area Development Program – Application Form



Project name Generation Park Improvements

Project location (attach location map) _____

Sponsor organization City of Blair

Sponsor address 218 S 16th Street

City Blair State NE ZIP 68008

Contact person Aaron Barrow

Title City Administrator

Email address abarrow@blairnebraska.org Daytime phone 402-426-6691

Description of project (attach additional sheets as needed)

The City of Blair, Nebraska is requesting \$50,000 from the PMNRD to cost-share the construction of a new, 900+ square foot public restroom for Generations Park.

Total estimated cost \$ 405,000

Cost share request \$ 50,000



Signature

3/14/2023

Date

Mayor, City of Blair

Title



CITY OF BLAIR

March 14, 2023

Eric Williams, Natural Resources Planner
Papio-Missouri River Natural Resources District 8901 S. 154th Street
Omaha, NE 68138-3621

RE: Recreation Area Development Program Grant Application City of Blair, Nebraska
Generations Park Improvements

Mr. Williams,

The City of Blair is requesting \$50,000 in Recreation Area Development Program funding through the Papio-Missouri River Natural Resources District (PMNRD) to cost-share the construction of a new, 900 square foot public restroom facility at Blair Generations Park.

This \$405,000 facility will be ADA accessible and constructed with minimal maintenance materials. In all, there will be a total of six individual unisex or family restrooms.

Via this letter, and pursuant to the FY2023 PMNRD Urban Cost Share Program Guidelines, the city of Blair hereby agrees to the following items:

- 1) serve as Project Sponsor for the Project,
- 2) obtain all necessary permits for the construction of the Project,
- 3) provide all future operations and maintenance of the public restroom facility for a minimum of 50-years,
- 4) administer all contracts for design, construction, and construction observation for the project,
- 5) control all erosion of the site during construction and until permanent vegetation is firmly established,
- 6) hold and save the PMNRD free from damages and claims due to the construction, operation, or maintenance of the Project,
- 7) where practical or feasible, utilize recycled or recyclable products, and
- 8) pay the entire cost to develop the Area before seeking reimbursement from the PMNRD.

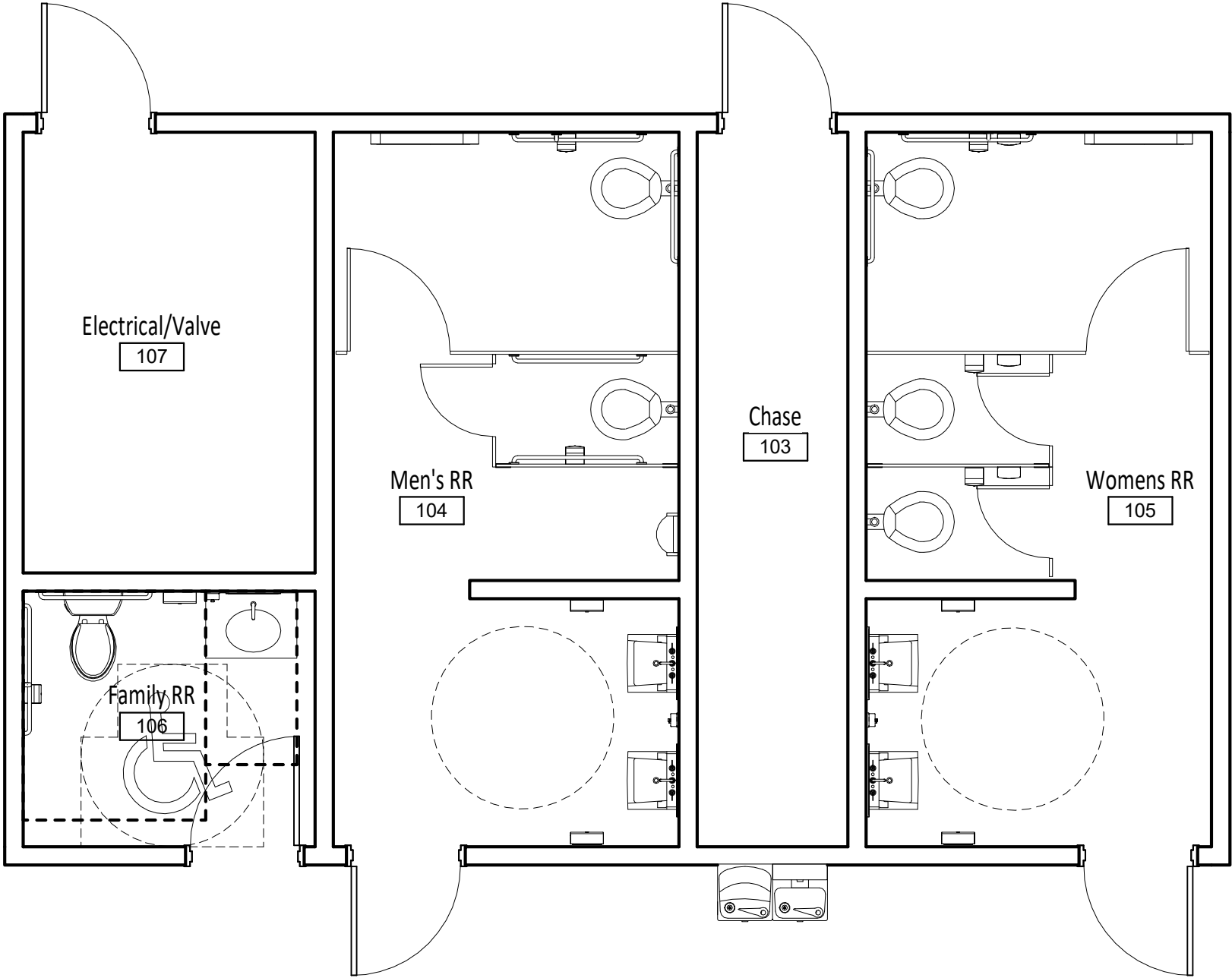
If you should have any questions while reviewing our application, please feel free to contact our City Administrator, Aaron Barrow at 402-426-6691.

On behalf of the residents of Blair, Nebraska, I would like to thank you for your consideration of our request.

Sincerely,

Mindy Rump, Mayor
City of Blair, NE





1 FLOOR PLAN
1/4" = 1'-0"

GENERATION'S PARK RESTROOM BUILDING

Date: 2/2/2023

Recreation Area Development Program – Application Form

Project name Park Restroom Renovation
Project location (attach location map) Heffernan Park
Sponsor organization Hubbard Betterment Committee
Sponsor address PO Box 160
City Hubbard State NE ZIP 68741
Contact person Cadrien Livingston
Title Treasurer of HBC
Email address Cadi8811@gmail.com Daytime phone 402-300-0987

Description of project (attach additional sheets as needed)

Upgrade bathrooms to reclaim gray water for efficiency and
eco friendly management. In addition, we'd like to reclaim
rain water for future use of watering systems in the park.

Total estimated cost \$ 29500

Cost share request \$ 14750

Cadrien Livingston
Signature

3/12/23
Date

Treasurer of Hubbard Betterment
Title



Recreation Area Development Program – Application Form

Project name Central Park East Playground

Project location (attach location map) Central Park

Sponsor organization City of La Vista

Sponsor address 8116 Park View Blvd

City La Vista State NE ZIP 68128

Contact person Jason Allen

Title Park Superintendent

Email address jallen@cityoflavista.org Daytime phone 402-331-8927

Description of project (attach additional sheets as needed)

See attached description

Total estimated cost \$ 250,000 Cost share request \$ 50,000

[Signature]
Signature

3/20/2023
Date

Park Superintendent
Title



Central Park East Playground Improvements Project Description

Location: The proposed Central Park East Playground Improvement project is in the city of La Vista, NE. The address to the park is 7702 Edgewood Blvd and the project is in the center of park. (See attached map)

Purpose: The Central Park Playground project is a result of the rehabilitation of our Thompson Creek. The creek runs on the eastern border of the park and was scheduled to be rehabbed in 2022. With this rehabilitation, the existing playground structure had to be removed to allow for the realignment and grading. The new playground is replacing a playground that was there and is very valuable to our citizens.

Scope: The plan for improvements will consist of a completely new playground and site. We shifted the playground to a more central part of the park for better access and alignment with future amenities. It will consist of a several pieces of equipment including a 6 person swing set and several pieces of nature play from UPC. The surfacing will be a mix of poured in place and wood fiber mulch. A sidewalk will be added to connect to the existing trail in the park. (See attached map)

Schedule: The project is tentatively scheduled for the fall of 2023 depending on equipment and contractor availability.

Estimated Cost: The estimated cost of the project is \$250,000.

City Hall
8116 Park View Blvd.
La Vista, NE 68128-2198
402.331.4343 P
402.331.4375 F

**Community
Development**
8116 Park View Blvd.
402.593.6400 P
402.593.6445 F

Library
9110 Giles Rd.
402.537.3900 P
402.537.3902 F

Police
7701 S. 96th St.
402.331.1582 P
402.331.7210 F

Public Works
9900 Portal Rd.
402.331.8927 P
402.331.1051 F

Recreation
8116 Park View Blvd.
402.331.3455 P
402.331.0299 F



Figure 1 shows a schematic of the experimental setup. A participant is depicted on the left, looking at a screen. On the screen, there is a target letter 'N' and a starting point. A scale bar at the bottom indicates an angle from 0° to 25°.

Client Name
City of La Vista

Professional Sea

Revision Dates		
No.	Description	MM-DD
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Drawn By: TDV Reviewed By: BPH
Job No.: 171-422 Date: 08-02

Sheet Title

Central Park Plan

Sheet Number

Sheet 1 of 3





Recreation Area Development Program – Application Form



Project name Adams Park Picnic Facilities

Project location (attach location map) See Attached

Sponsor organization City of Omaha Parks and Recreation

Sponsor address 1819 Farnam Street, Ste 701

City Omaha State NE ZIP 68183

Contact person John Williams

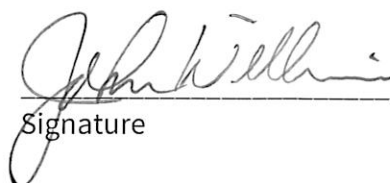
Title Park Planner II

Email address john.williams@cityofomaha.org Daytime phone 402.444.5943

Description of project (attach additional sheets as needed)

Construction of a new playground, 30'x44' picnic shelter, sidewalks / connector paths, and tree plantings. See attached for additional information.

Total estimated cost \$ \$678,500 Cost share request \$ 50,000.00



Signature
Park Planner II

Title

March 17, 2023

Date

ADAMS PARK RECREATION AREA IMPROVEMENTS

This project proposes to install a new playground, 30'x44' picnic shelter, walkway connections to the beltline trail, and tree plantings. These improvements are identified as phase I to an overall improvement plan for Adams Park.

Adams Parks is a 60 acre park in the heart of north Omaha. The park is home to an existing community center that is heavily used by residents and also has the historic John A. Creighton Boulevard running through it. A City of Omaha CSO project was recently completed and created a wetland and small pond in the western 1/3 of the park. A few walking trails in the same area were also included with the CSO improvements. The park also currently includes passive open space as well as many mature stands of mixed Oak and Maple trees. There is also a small existing playground and unused tennis courts. Currently, the park is underutilized.

In 2022 a master plan for the park was completed. The master plan was the culmination of several public meetings as well as specific discussions with stakeholder groups in the park vicinity.

Improvements to the park proposed in the master plan include:

- Playground renovation
- Picnic facilities
- A new sprayground
- Additional walking trails
- Day camp improvements
- Mountain bike/natural surface trails development along with a skills development area
- Tree plantings
- Pickleball
- Basketball court replacement

In addition to the improvements the master plan envisions, the Papio-Missouri River Natural Resource District is planning to begin construction of a 10' wide concrete trail through the park; known as the beltline trail. It is anticipated that the trail will be constructed in 2023. As a phase I towards implementing the master plan, and as a compliment to the beltline trail, the City of Omaha Parks Department is currently designing the new playground, picnic shelter, and connecting walking paths. The connecting walking paths will tie the existing loop trail into the beltline trail.

The attached plans and other documentation provide an illustration on the nature of the Adams Park master plan and the phase I improvements. The request for funding from the Recreation Area Development Program will be used to contribute to the overall costs of the phase I improvements as shown in the attached budget. The total project cost is \$678,500 and our funding request is \$50,000.00.

The schedule for completion of the project is to complete the design by May of 2023. Bid the project in June of 2023 and award by August of 2023 with construction beginning in the fall of 2023.

With the completion of the recreation area improvements and the beltline trail, Adams Park will begin to become more fully activated and utilized. The Parks Department will continue to phase in the remaining improvements and get Adams Park developed to its full potential.



ADAMS PARK MASTER PLAN

ADAMS PARK - PHASE I CONSTRUCTION

3.17.2023

ITEM	QTY.	UNIT	UNIT PRICE	TOTAL
Playground Construction	1.00	LS	\$312,000.00	\$312,000
30'x44' Picnic Shelter Construction	1.00	LS	\$244,200.00	\$244,200
Connector Walkway Across Bridge to Beltline	1.00	LS	\$55,100.00	\$55,100
East Connector Walkway to Beltline	1.00	LS	\$22,200.00	\$22,200
Tree Plantings	1.00	LS	\$45,000.00	\$45,000
PROJECT TOTAL				\$678,500

Recreation Area Development Program – Application Form



Project name John P. "Red" Munnelly Park Renovation

Project location (attach location map) S 54th and Holmes St., Omaha, NE

Sponsor organization Omaha Parks, Recreation & Public Property Department

Sponsor address 1819 Farnam St., Suite 701

City Omaha State NE ZIP 68183

Contact person Katie Swanson, PLA, ASLA


Title Park & Recreation Planner II

Email address katie.swanson@cityofomaha.org Daytime phone 402-444-3977

Description of project (attach additional sheets as needed)

See attached.

Total estimated cost \$ 280,000 Cost share request \$ 50,000


Signature

March 16, 2023
Date

Park & Recreation Planner II
Title

John P. “Red” Munnelly Park Improvements

Description of Project:

The Omaha Parks, Recreation & Public Property Department is planning to revitalize the public space at John P. “Red” Munnelly Park at 54th and Holmes Street in South Omaha. Identified as a priority by community residents, the renovation will include a new playground, picnic area improvements potentially with a small shelter, and accessible walks. See attached drawings.

Munnelly Park was dedicated in 1990 in honor of John P. “Red” Munnelly, a former Nebraska State Senator and Omaha Postmaster. The four-acre park is tucked into the Buena Vista Neighborhood near South 54th Street and Holmes Street. The existing park includes a play structure that was installed in 1990, two benches, four picnic tables, a short segment of sidewalk, a park sign, and open space. The park slopes down from the northeast corner to the southwest corner, with approximately 40 feet of vertical grade change. The existing playground and picnic area are in the eastern half of the park. The park collects runoff from the neighboring properties to the north and east of the park, flowing to a wooded drainage area at the west edge of the park.

Parks, Recreation and Public Property Department staff, in partnership with the Buena Vista Neighborhood Association, conducted an online survey and held community input meetings about the park renovations in fall of 2022. The neighborhood residents expressed interest in replacing the existing 33-year-old playground equipment, as well as potentially adding an open-air picnic shelter and walking path to the park. The walking path was one of the highest priorities for the park, after the playground renovation. One of the goals of the project will be to protect the existing drainageway at the west end of the park, while allowing park visitors to experience the different micro-environments within the park.

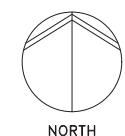
City funding will come from Park Bonds designated for Neighborhood Park Renovations in the City’s Capital Improvement Program (attached pages pertain to Munnelly Park). The Parks Department has allocated \$190,000 in CIP funding from the 2023 CIP budget for park improvements. Including the 20’x20’ prefabricated picnic shelter and loop walk, we anticipate the total project cost to be approximately \$280,000. We are requesting a cost share of \$50,000 for this project.

Project timeline: Project will bid in Spring 2023. Construction will begin in Fall 2023, and is scheduled to be completed by May 31, 2024.



JOHN P. "RED" MUNNELLY PARK IMPROVEMENTS – PRELIMINARY PLAN

MARCH 16, 2023



MUNNELLY PARK RENOVATION

Preliminary Opinion of Probable Construction Costs

Dept. of Parks, Recreation and Public Property

16-Mar-23

Description	Quantity	Unit	Unit Cost	Item Cost	Subtotal
PLAYGROUND					
Demo Existing Playground	1	LS	\$8,225.00	\$8,225	
Demo Existing Sidewalks	850	SF	\$1.00	\$850	
Layout	1	LS	\$3,500.00	\$3,500	
Grading / Earthwork	1	LS	\$5,000.00	\$5,000	
Equipment per plan	1	LS	\$50,000.00	\$50,000	
15% O&P on Equipment	1	LS		\$7,500	
Equipment Installation	1	LS	\$10,000.00	\$10,000	
Thickened Edge Concrete	45	LF	\$15.00	\$675	
Concrete Pavement at Playground	850	SF	\$9.00	\$7,650	
Poured -in-place	2,900	SF	\$24.00	\$69,600	
Fine grade / Seeding	8,000	sf	\$0.20	\$1,600	
Erosion Matting	900	SY	\$2.50	\$2,250	
6' Picnic Table, installed	4	EA	\$2,400.00	\$9,600	
6' Bench, installed	2	EA	\$1,800.00	\$3,600	
TOTAL BASE BID					\$180,050
16x16 shelter with amenities	1	LS	\$40,000.00	\$40,000	
Concrete Pavement Loop Walk	6,770	SF	\$9.00	\$60,930	
TOTAL ALTERNATES					\$100,930

Recreation Area Development Program – Application Form

Project name Schwer Park Playground Renovation

Project location (attach location map) 702 W. Centennial Raod

Sponsor organization City of Papillion

Sponsor address 122 E. 3rd Street

City Papillion State NE ZIP 68046

Contact person Tony Gowan

Title Parks and Facilities Director

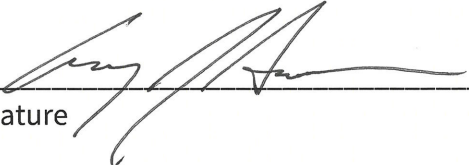
Email address tgowan@papillion.org Daytime phone 402-597-2049

Description of project (attach additional sheets as needed)

Occuring in the late fall or early winter of 2023, this playground
renovation will see the removal of an old and unsafe play area and
installing new equipment and a poured in place rubber surface.

Total estimated cost \$ 221,419.00

Cost share request \$ 50,000.00



Signature

03/02/2023

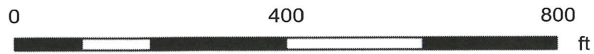
Date

Parks and Facilities Director

Title

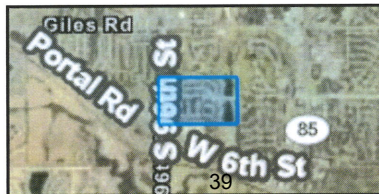


Esri, Inc., Sarpy County, Nebraska | Esri, Inc., City of Naperville, Illinois



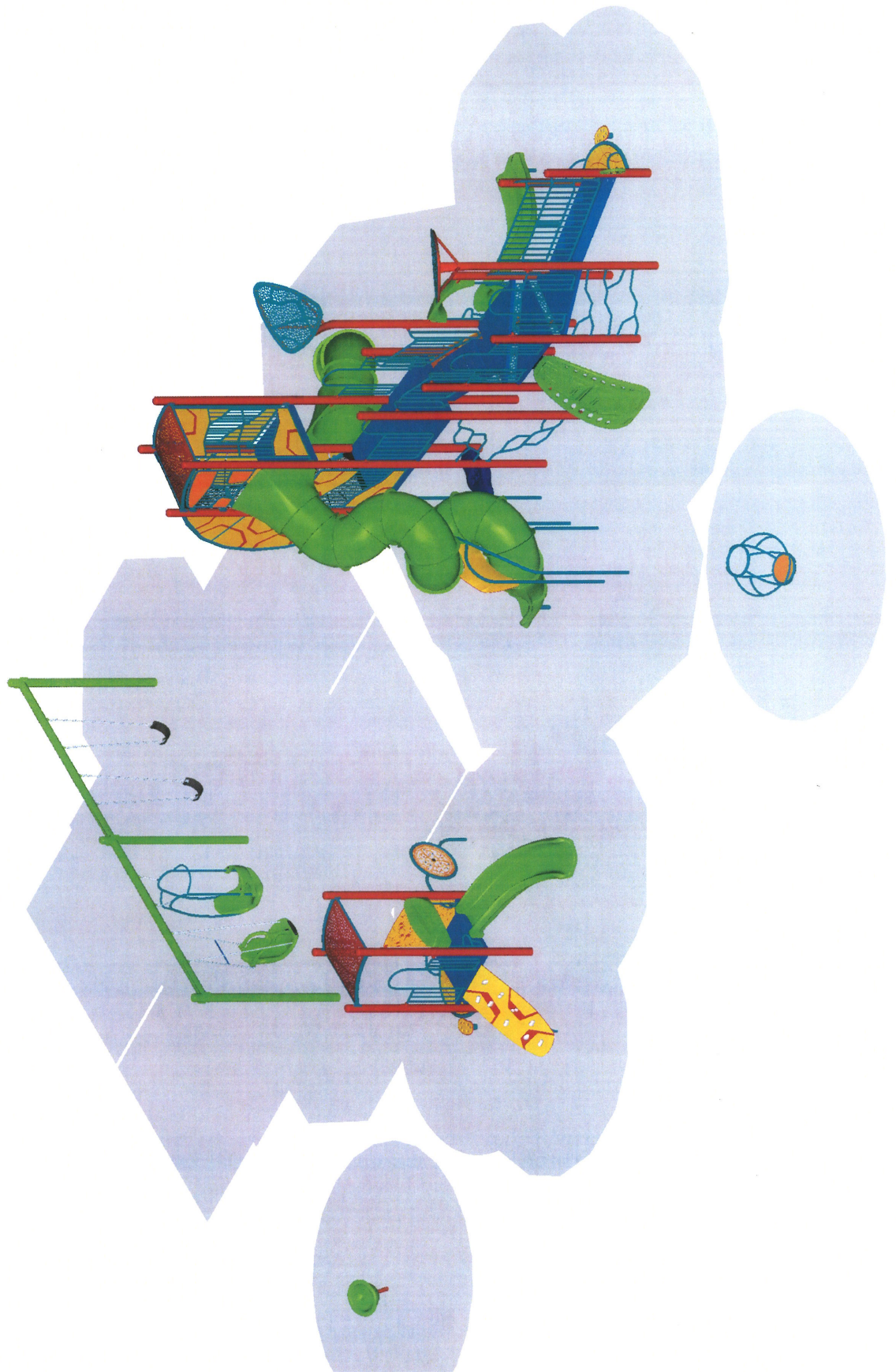
Map Scale 1: 4514

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the source records and information sources to ascertain the usability of the information.



Notes





Burke

SERIES: Basics, Intensity, Nucleus

ISOMETRIC PLAN

DRAWN BY: Hunter Mielke

Schwer Park

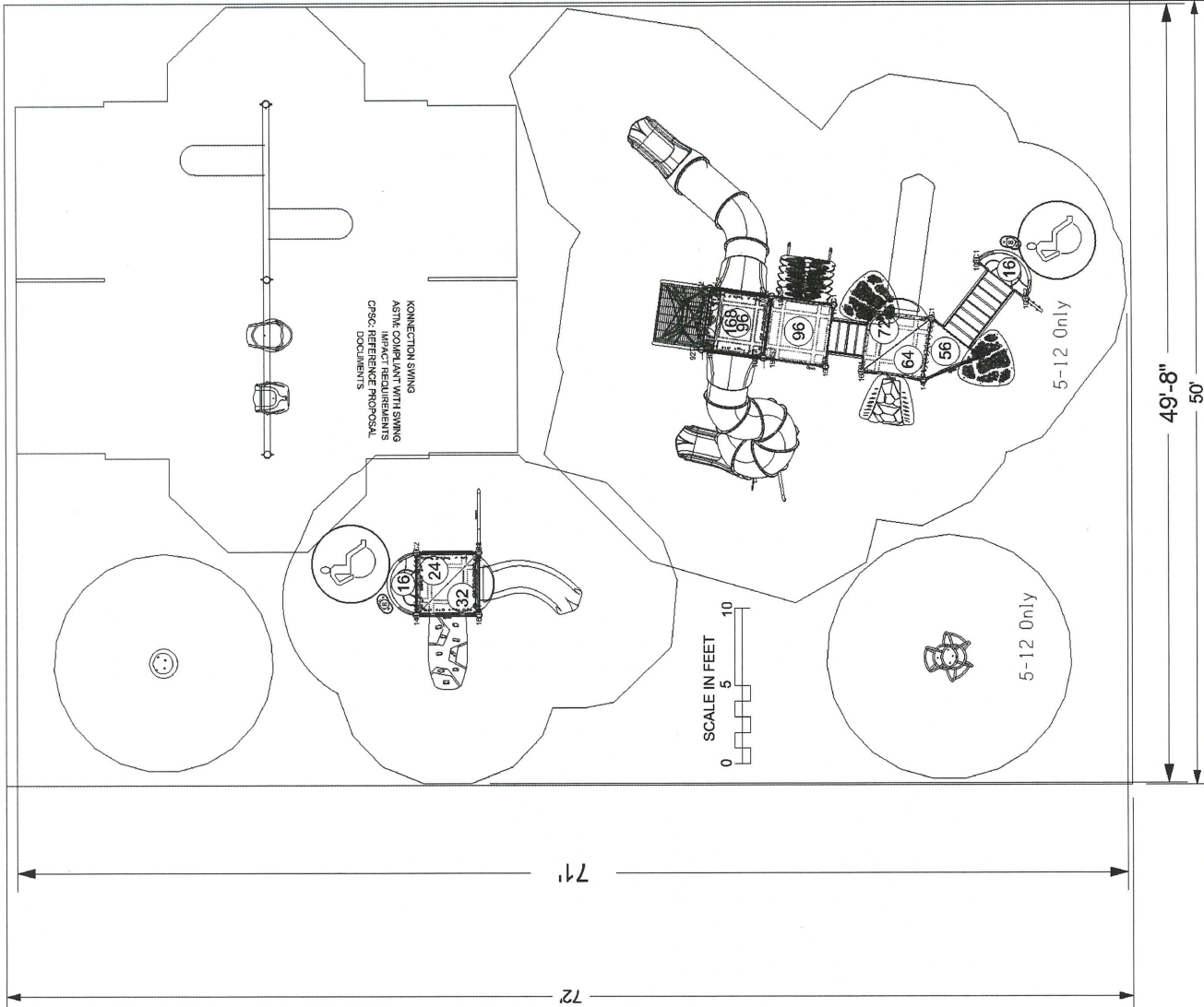
122 East 3rd Street

Papillion, NE 68046

February 16, 2023

Creative Sites, LLC

905-153755-5



INFORMATION
 MINIMUM FALL ZONE
 SURFACED WITH
 RESILIENT MATERIAL
 AREA
 2596 SQ.FT.
 PERIMETER
 446 FT.

STRUCTURE SIZE
 71' 0" x 49' 8"

STRUCTURE IS DESIGNED
 FOR CHILDREN AGES:
☐ 6-23 MONTH OLDS
☒ 2-5 YEAR OLDS
☒ 5-12 YEAR OLDS
☐ 13 + YEAR OLDS

NSF **NSF**
 Registered to ISO 9001
 Registered to ISO 14001

IPEMA
 INTERNATIONAL PLAY EQUIPMENT
CERTIFIED
 ASTM
 F1487
 MANUFACTURERS ASSOCIATION

To verify product certification,
 visit www.ipema.org

The play components identified
 in this plan are IPEMA
 certified. The use and layout of
 these components conform to the
 requirements of ASTM F1487.
 To verify product certification,
 visit www.ipema.org

The space requirements shown
 here are to ASTM standards.
 Requirements for other standards
 may be different.

The use and layout of play
 components identified in this plan
 conform to the CPSC guidelines.
 U.S. CPSC recommends the
 separation of age groups in
 playground layouts.

WARNING!

ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH
 AND AROUND THIS EQUIPMENT.
 FOR SLIDE FALL ZONE SURFACING AREA SEE CPSC's Handbook for
 Public Playground Safety.
 PLATFORM HEIGHTS ARE IN INCHES ABOVE RESILIENT MATERIAL

ADA ACCESSIBILITY GUIDELINE (ADAAG CONFORMANCE)

NUMBER OF PLAY EVENTS:	22
NUMBER OF ELEVATED PLAY EVENTS:	11
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP:	PROVIDED: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY TRANSFER SYSTEM:	PROVIDED: 10
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP OR TRANSFER SYSTEM:	PROVIDED: 11
NUMBER OF GROUND LEVEL PLAY EVENTS:	RECD: 4
NUMBER OF TYPES OF GROUND LEVEL PLAY EVENTS:	PROVIDED: 5
	RECD: 3

Burke

SERIES: Basics, Intensity, Nucleus

SITE PLAN

DRAWN BY: Hunter Mielke

Schwer Park

122 East 3rd Street

Papillion, NE 68046

February 16, 2023

Creative Sites, LLC

905-153755-5

Trails Assistance Program – Application Form

Project name Papillion Trail Wayfinding Study and Plan

Project location (attach location map) All trails in the City of Papillion and the ETJ

Sponsor organization The City of Papillion

Sponsor address 122 E. 3rd Street

City Papillion State NE ZIP 68046

Contact person Tony Gowan

Title Parks and Facilities Director

Email address tgowan@papillion.org Daytime phone 402-597-2049

Description of project (attach additional sheets as needed)

This request for would begin the wayfinding plan for implementation,
on all Papillion trails inside the city, and in our Extraterritorial
Jurisdiction. Study will be completed in 2024.

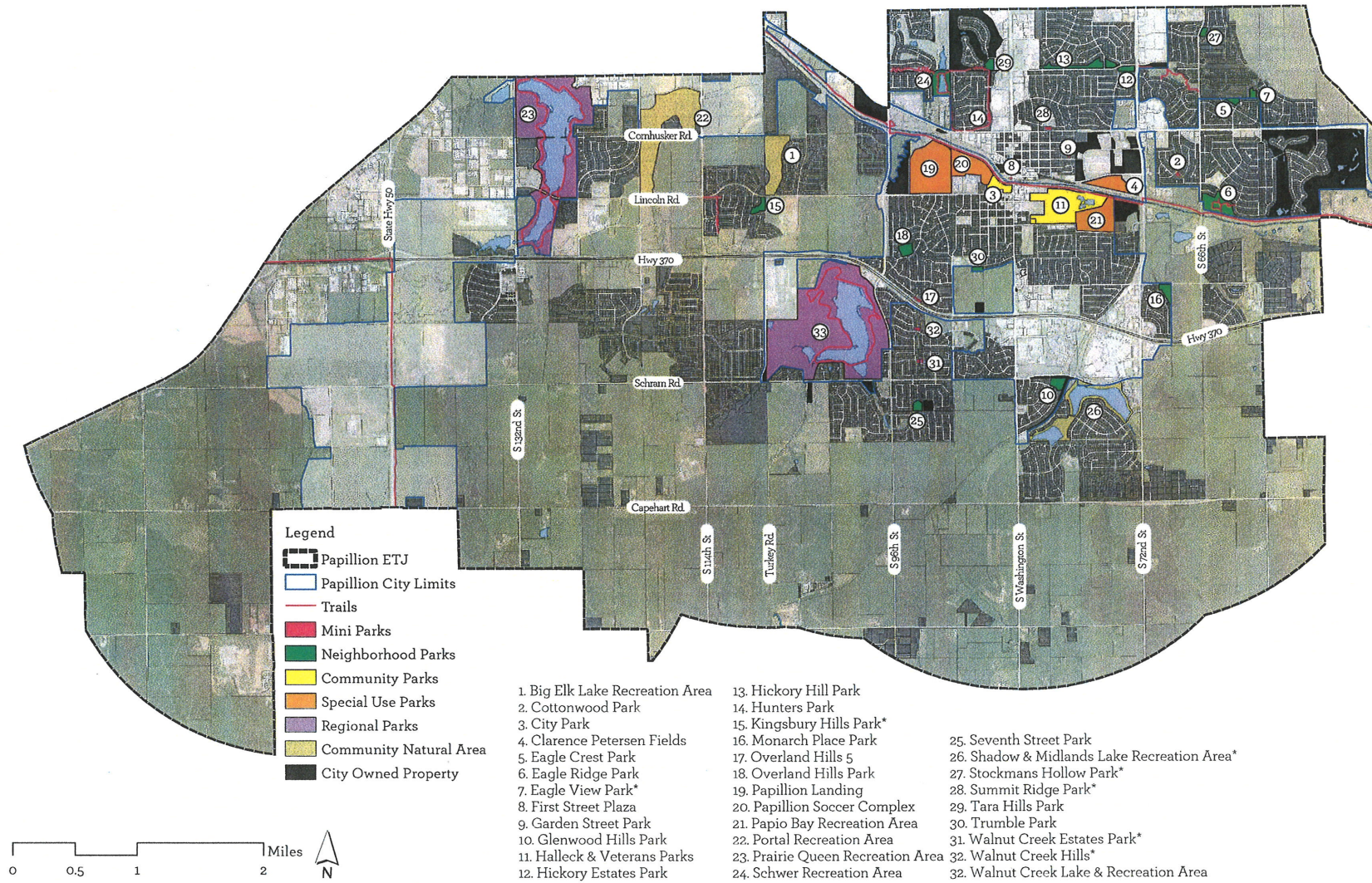
Total estimated cost \$ 22,000.00 Cost share request \$ 11,000.00


Signature

03/09/2023
Date

Parks and Facilities Director
Title

Papillion Parks



PROPOSED SCOPE AND FEE PAPILLION CITY-WIDE TRAIL SIGNAGE AND WAYFINDING MASTER PLAN

Vireo understands the anticipated scope of services to include master planning services for trail wayfinding and signage within Papillion's Extra Territorial Jurisdiction (ETJ) Limits for all existing and proposed trails as shown in the Papillion Parks Master Plan (2021). Vireo will work with the Papillion Parks Department Staff (CLIENT) to determine signage locations and key points along the trail including trailheads, along levee corridor, and trail intersections. Vireo will also prepare concept signage design (size, font, colors, graphics, and verbiage) to aid in preparing budget costs. Signage design will not be to construction document level (additional service). Work will not include design and construction detailing of additional vehicular-scale signage.

Scope of Services

Task 1. Project Kick off and Background Information

- 1.1. Project Kick-off Meeting – Vireo will meet with the CLIENT to discuss project process, timeline, and deliverables to complete the scope of work.
- 1.2. Vireo will prepare a map of existing and proposed trails based on mapping completed as part of the Parks Master Plan (2021).
- 1.3. Vireo will incorporate known planned trails based on direction by the CLIENT, Papio Natural Resources NEAT Study (2023), and other relative planning documents.

Task 2. Planning and Project Area Analysis

- 2.1. Review Meeting #1 – Vireo will meet with CLIENT to review existing wayfinding signage and destinations as well as discuss minor adjustments needed to existing and future planned trails/trailheads.
- 2.2. Prepare Wayfinding base maps in GIS, delivered in electronic PDF format including the following:
 - A. Existing and Planned Trails Network - including trail alignment and trailheads based on input received in Review Meeting #1.
 - B. Landmarks, Facilities, and Destinations - including civic buildings, city parks, recreation areas, schools, and community destinations based on input received in Review Meeting #1.
- 2.3. Document and prepare existing signage inventory – document look and style of signage that already exists within the project area.
 - A. Perform up to two (2) site visits to photograph and then confirm existing signage types and styles.
- 2.4. Review Meeting #2 – Vireo will facilitate and meet with CLIENT and community stakeholders to obtain input on wayfinding and signage needs in the existing system. It is assumed this meeting will be in person at CLIENT-supplied location. Vireo will send invites that the CLIENT can forward as needed to interested user groups.
- 2.5. Task 2 Deliverables:

Papillion City-Wide Trail Wayfinding and Signage Master Plan

- A. Wayfinding Base Maps (see 2.2) in GIS and electronic PDF format
- B. Wayfinding Location Analysis Map – summary of Review Meeting feedback in electronic PDF format.

Task 3. Wayfinding Theme Development

- 3.1. Vireo will utilize City graphic design standards, artwork, and example imagery to prepare up to three theming options of the look and feel of wayfinding elements as signage “families” for evaluation by the CLIENT. Deliverable will include elevation view graphics of signage types in electronic PDF format.
 - A. Signage types anticipated:
 - 1. **Direction/Guidance Signs** - Trail Name Sign, Intersecting Street Name Signs, Directional Arrow Signs, Restrooms Signs, Points of Interest Signs
 - 2. **Regulatory Signs** – Trail Rules and Regulations, No Motor Vehicles, Bicycles Yield to Pedestrians, Pass Left/Keep Right, Stop, Speed Limit, Share the Trail
 - 3. **Warning Signs** – Follow MUTCD Standards – Curve Ahead, Cross Traffic, Trail Ends, Dip Ahead, Bump Ahead, Steep Grade Ahead, Steep Grade Ahead, High Water, Slow, Slippery When Wet, Clearance, Surface Change
- 3.2. Review Meeting #3 – Vireo will meet with CLIENT to review theming and select desired theme to include in final Master Plan.
- 3.3. Task 3 Deliverables:
 - A. Wayfinding Signage Theme Family

Task 4. Draft Trail Wayfinding Master Plan

- 4.1. Compile data, analysis, and signage theme into master plan report format.
- 4.2. Prepare map of recommended signage locations.
- 4.3. Review Meeting #4 – Vireo will meet with CLIENT and community stakeholders to review draft document and obtain feedback. It is assumed this meeting will be in person at CLIENT-supplied location. Vireo will send invites that the CLIENT can forward as needed to interested user groups.

Task 5. Final Trail Wayfinding Master Plan

- 5.1. Refine and make edits to Master Plan Document based on feedback received.
- 5.2. Deliver in electronic PDF format final Master Plan Document and GIS shapefiles of planned signage locations.

Recreation Area Development Program – Application Form



Project name South Sioux City Curry Park Playground

Project location (attach location map) At south terminus of Parkview Drive

Sponsor organization City of South Sioux City

Sponsor address 1615 First Ave.

City South Sioux City **State** NE **ZIP** 68776

Contact person Gene Maffit

Title Parks Director

Email address gmaffit@southsiouxcity.org **Daytime phone** 402-494-7540

Description of project (attach additional sheets as needed)

See attached

Total estimated cost \$ 170,000 **Cost share request** \$ 50,000


Signature

2/27/2023
Date

Lance Hedquist, City Administrator
Title

South Sioux City Curry Park Playground

Project Description

South Sioux City's Curry Park requires a new set of playground equipment. Replacement of playground equipment is an explicit endorsement of the City's Comprehensive Plan (see attached) and aligns with the Nebraska's Statewide Comprehensive Outdoor Recreation Plan (SCORP). It is impossible to overstate the significant importance of children playing on playground equipment and the child's socio- emotional and physical development. Play is crucial for kids to cultivate the emotional, communal and innovative thinking skills used into adulthood. Parents understand the importance of playgrounds when it comes to childhood development.

There was immediate removal of the Yogi Bear Spring Rider due to tension cracks on the surface where bolts holding the Yogi Bear cover to the frame. These cracks were large enough to pinch or seriously cut skin. An additional safety measure is the removal of the metal Jungle Gym Climber dome. Metal bars on the half sphere Jungle Gym Climber get excessively hot in the summer while being slick in the cold or rain. Some of the rungs are rusting and the unit should be replaced. The Climber sits level to the ground scaling to a little over six feet off the ground in the middle.

Environmentally, the park staff has cut all branches back on trees hanging over any of the park equipment as falling branches could injure a child playing on or around the playground equipment. The sand surrounding the equipment has also been removed due to toxic Goat's head thorns growing within the sand. Goat's head thorns thrive in sandy conditions so the sand removal helps eliminate them completely. As a temporary filler, wood chips have been placed around the existing playground equipment as insulation should a child fall.

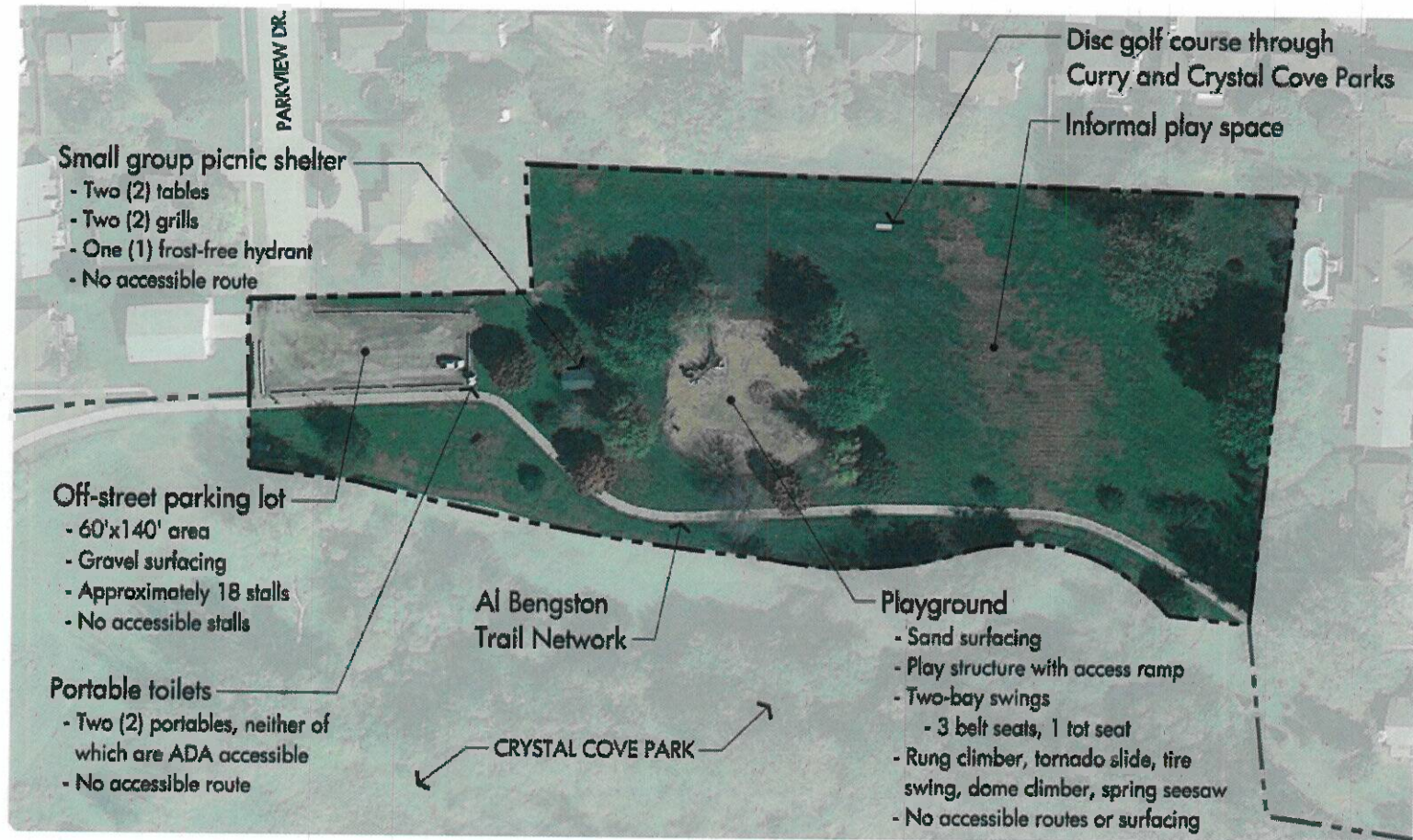
Budget:

The new playground equipment will include a climber, swings, spinner with industry-standard accessibility and safety measures, including a safer poured-in-place rubber surfacing beneath the play surface. The budget estimate for a replacement unit as indicated by the attached illustration is \$170,000 with NRD cost share totaling \$50,000 and City share totaling \$120,000.

Implementation Schedule

The City will select a vendor using standard procurement processes. Expected completion time is roughly 10-14 days to install the necessary equipment and pour-in-place foundation, weather permitting, after all procurement standards are met. The project timeline will be provided by the contractor and approved by the City Parks Director, Gene Maffit.

Map 5: Curry Park - Inventory



CURRY PARK - INVENTORY
SOUTH SIOUX CITY COMPREHENSIVE PLAN





Trails Assistance Program – Application Form



Project name Phase 3 & 4 Fort Calhoun Trail System

Project location (attach location map) Fort Calhoun/see attached map

Sponsor organization City of Fort Calhoun

Sponsor address 110 S. 14th St.

City Fort Calhoun State NE ZIP 68023

Contact person Deb Sutherland

Title City Administrator

Email address administrator@fortcalhoun.org Daytime phone 402-468-5303

Description of project (attach additional sheets as needed)

8 ft. wide, 5 inch thick concrete trail connections, total 2,475 linear feet
connecting existing segments. See attached for more details.

Total estimated cost \$ 335,432

Cost share request \$ ~~50,000~~ 42,716

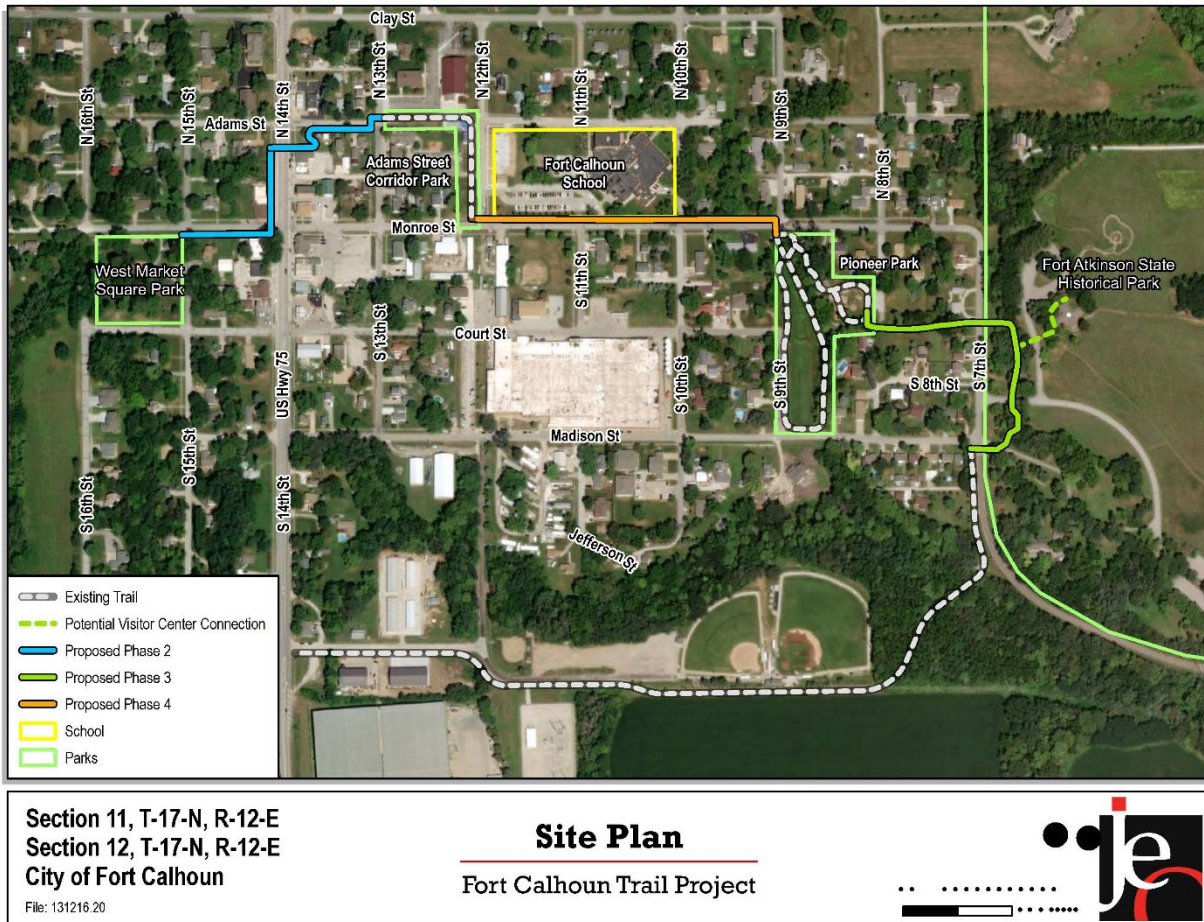
M. Polun
Signature

06 MAR 23
Date

Mayor
Title

Project Description

The City of Fort Calhoun, Nebraska, has received approval for Recreational Trails Program (RTP) funds to cost share the development of Phases 3 & 4 of their trail system. The proposed trail will be constructed in two sections for a total length of 2,475 feet (0.46 miles) and will be constructed 8 feet wide of 5-inch-thick concrete. The city is requesting Papio-Missouri NRD Trail Assistance Program for \$42,716 resulting in a 50% cost share of the city's required total of \$85,432.



Phase 3 and 4 of the Fort Calhoun Trail System shown above.

Purpose of the Trail

The City of Fort Calhoun is extending its existing trail system to provide better pedestrian and bicycle connectivity between the existing trails and within new parks. These amenities include the new Adams Street Plaza Park that include a splash pad and public gathering spaces, Pioneer Park and its trails, Fort Atkinson State Historical Park, and a connection to the existing trail (Fort Calhoun Trail) that provides access to the city's ball field complex. Upon completion of the proposed segments, the city will complete the remaining segment, referred to Phase 2 (all phases are as shown on the Fort Calhoun Trail Map). This final phase will provide trail connection between West Market Square Park, located on the west side of Highway 75 to Adams Street Plaza, the first connection to the trail system on the east side of town. This would accomplish a complete loop of the trail system in Fort Calhoun.

Fort Calhoun and Nebraska Game and Parks are collaboratively partnering to invest in Nebraska and our state's history by increasing tourism to Fort Atkinson. Fort Calhoun's Interconnecting Trail project was developed to better connect people in Fort Calhoun with Fort Atkinson. This proposed project will also lead to economic development in Fort Calhoun by promoting preservation, tourism, and reinvestment in learning about the State of Nebraska's history.

The Nebraska Game and Parks, along with the City of Fort Calhoun partnered in creating a new entrance to Fort Atkinson State Park, at the intersection of 7th and Monroe, which created an easier access and bigger presence for visitors to the State Park. Construction was completed in December 2022.

Project Timeline

Final Design and Construction Timeline

The anticipated start date for engineering design would be March 2023 and the anticipated construction completion date would be spring 2024.

<i>TASK</i>	<i>Anticipated Schedule</i>
RFQ	March 2023
Preliminary Design	April – June 2023
NEPA*	April – July 2023
Final Design	July – August 2023
Bidding	September-October 2023
Construction**	Spring 2024
Close Out	July or August 2024

* Approval on the NEPA Document may be delayed for grant approval/processing or growing season

** Pending Contractor Availability



August 12, 2022

Nebraska Game and Parks Commission
Attn: Recreational Trails Program

RE: Support for Fort Calhoun Trail Project

Recreational Trails Manager,

On behalf of the Papio-Missouri River NRD (District), I would like to offer this letter of support for the ongoing comprehensive trails projects as proposed by the City of Fort Calhoun.

The District has received applications from Fort Calhoun over recent years, and funding has been approved by the NRD Board of Directors under multiple Urban Cost Share Programs. Specifically, funding for the recently completed work on the Adams Street Corridor Park, and the ongoing preliminary phases of the Adams Park Trail. These projects are excellent examples of comprehensive planning and focused execution toward providing recreation, active transportation, and access to natural resources for residents within Fort Calhoun, and the territory of the District. A map showing potential future trail projects has been provided to me, and the preliminary information indicates that these future projects would also be eligible for support from the District as the projects move forward.

After discussing the ongoing partnership between the District and the City of Fort Calhoun, I visited Fort Atkinson Historical Park. Over the course of 20 minutes while I sat and enjoyed the park, multiple groups of people came past the park both walking, and on bikes. It seems clear to me that the planning and work that has been completed is leading to benefits in the community, and that additional projects in the future will continue to provide even greater connectivity.

Cost share funding for this project was originally included in the NRD budget FY 2022, and that funding has now been carried over into the current FY 2023 budget.

Sincerely,

Eric Williams
Natural Resources Planner
Papio-Missouri River NRD
EWilliams@PapioNRD.org

Trails Assistance Program – Application Form



Project name Keystone Trail - Democracy to Somerset Parks

Project location (attach location map) Along the east side of the Little Papio Creek

Sponsor organization City of Omaha Parks, Recreation & Public Property Dept.

Sponsor address 1819 Farnam Street - Suite 701

City Omaha State NE ZIP 68183

Contact person Dennis E. Bryers, FASLA, CLARB, PLA

Title Landscape Architect / Park & Recreation Planner II

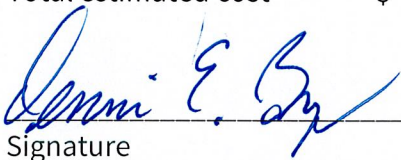
Email address dennis.bryers@cityofomaha.org Daytime phone 402-444-3798

Description of project (attach additional sheets as needed)

Construction of four, 10 foot wide, concrete, multi-use, recreational
missing link sections of the Keystone Trail and related improvements
from Democracy Park to Somerset Park (see attached sheets)

Total estimated cost \$ 1,114,558.00

Cost share request \$ 557,279.00


Signature

March 17, 2023
Date

Landscape Architect/Park & Recreation I
Title

DESCRIPTION OF THE PROJECT:

The trail project would consist of the construction of the final four missing sections of the Keystone Trail. The length of these four sections would be approximately one mile long and connect the northern terminus of the Keystone Trail in Democracy Park to Somerset Park. The City currently has a contract to construct the Keystone Trail from Somerset Park North to Cunningham Lake. Once these final four missing sections are constructed, the Keystone Trail would connect Cunningham Lake in Omaha to the Bellevue Loop Trail and Haworth Park in Bellevue.

The trail sections would be 10 foot wide, 6 inch thick concrete, multi-use, recreational trail. Construction documents are over 50% complete at this time. The trail would be located on the east side of the Little Papio Creek. Once constructed, the City of Omaha Parks, Recreation and Public Property Department would manage and maintain the trail as it does with all other paved, multi-use, recreational trails in the City of Omaha.

ESTIMATED PROJECT CONSTRUCTION COST

Estimated Construction Costs (50% Drawings):	\$1,114,558.00
--	----------------

ESTIMATED PROJECT FUNDING

City of Omaha (50%):	\$557,279.00
NRD Trails Assistance Program Request (50%):	\$557,279.00
Total Funding:	\$1,114,558.00

TENTATIVE CONSTRUCTION SCHEDULE

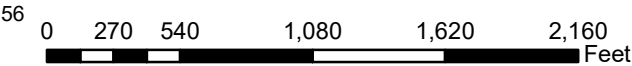
Out to Bid:	October 2023
Award Contract:	December 2023
Project Completion:	August 2024



**KEYSTONE TRAIL - MISSING LINKS
DEMOCRACY PARK TO SOMERSET PARK**



March 17, 2023



CONCEPTUAL OPINION OF CONSTRUCTION COSTS - KEYSTONE TRAIL EXTENSION - Democracy to Somerset

50% CDs

SEGMENT A

3/8/2023

ITEM NO.	DESCRIPTON	UNIT	PLAN QUANTITY	UNIT PRICE	COST
GENERAL					
1	MOBILIZATION	LS	1	\$ 68,053.08	\$ 68,053.07
2	MAINTENANCE OF TRAFFIC	LS	1	\$ 4,800.00	\$ 19,200.00
3	TEMPORARY CONSTRUCTION ENTRANCE	EA	2	\$ 1,800.00	\$ 3,600.00
4	CLEARING AND GRUBBING AND DEMOLITION	LS	1	\$ 8,400.00	\$ 32,400.00
5	CONTRACTOR FURNISHED SURVEYING	LS	1	\$ 4,800.00	\$ 18,000.00
EROSION CONTROL / EARTHWORK					
6	SEDIMENT FENCE	LF	1300	\$ 3.00	\$ 3,900.00
7	STRAW BALE BARRIER	LF	0	\$ 22.80	\$ -
8	STRAW EROSION CONTROL BLANKET	SY	6608.444444	\$ 3.00	\$ 19,825.34
9	SCOUR STOP EROSION CONTROL MAT	SY	0	\$ 48.00	\$ -
10	UNCLASSIFIED EXCAVATION	CY	3049	\$ 24.00	\$ 73,176.00
11	COMPACTED EMBANKMENT	CY	1327	\$ 10.80	\$ 14,331.60
12	TOPSOIL SHOULDER FILL	CY	489	\$ 36.00	\$ 17,604.00
TRAIL					
12	CONCRETE TRAIL (6" REINFORCED)	SY	4713	\$ 90.00	\$ 424,210.00
13	CONCRETE SIDEWALK (4" ON COMPACTED GRADE)	SY	418	\$ 72.00	\$ 32,160.00
14	DETECTABLE WARNING PANELS	SF	160	\$ 28.80	\$ 4,608.00
ROADWAY IMPROVEMENTS					
15	HAWK SIGNAL	EA	2	\$ 72,000.00	\$ 144,000.00
16	PAVEMENT STRIPING (CROSSWALK)	LF	173	\$ 40.00	\$ 6,920.00
17	ELECTRICAL FOR PED SIGNAL	LS	2	\$ 18,000.00	\$ 36,000.00
18	CONCRETE CURB AND GUTTER	LF	240	\$ 66.00	\$ 15,840.00
TRAIL MISCELLANEOUS					
19	LARGE BLOCK MODULAR WALL	SFF	242	\$ 78.00	\$ 18,876.00
20	ROCK BLANKET (1/4 TON)	SY	0	\$ 84.00	\$ -
21	GUARDRAIL (5' CHAINLINK)	LF	40	\$ 150.00	\$ 6,000.00
22	WOOD SPLIT RAIL FENCE	LF	0	\$ 46.00	\$ -
23	ACCESS CONTROL POST	EA	0	\$ 900.00	\$ -
23	TRAIL SIGNAGE	EA	32	\$ 360.00	\$ 11,520.00
24	VEHICULAR SIGNAGE	EA	2	\$ 720.00	\$ 1,440.00
25	TEMPORARY SEEDING	ACRES	1.45	\$ 3,000.00	\$ 4,360.33
26	SEEDING	ACRES	1.45	\$ 3,000.00	\$ 4,360.33
STORM DRAINAGE					
27	ROCK BLANKET (LIGHT 18")	SY	20	\$ 80.00	\$ 1,600.00
	12" NYLOPLAST DRAIN BASIN	EA	0	\$ 2,400.00	\$ -
	48" STORM MANHOLE	EA	0	\$ 7,200.00	\$ -
	15" NYLOPLAST WITH SOLID COVER	EA	0	\$ 3,600.00	\$ -
	12" FLARED END SECTION	EA	16	\$ 1,100.00	\$ 17,600.00
	36" FLARED END SECTION	EA	0	\$ 1,850.00	\$ -
	12" HDPE PIPE	LF	280	\$ 30.00	\$ 8,400.00
29	36" CM PIPE	LF	0	\$ 120.00	\$ -
31	4" PERFORATED DRAIN PIPE	LF	175	\$ 30.00	\$ 5,250.00
32	CONCRETE HEADWALL WITH FLAP GATE	EA	0	\$ 6,000.00	\$ -
			Subtotal		\$ 1,013,234.67
			Contingency(10%)		\$ 101,323.47
			TOTAL		\$ 1,114,558.14

NOTES:

1. The above Opinion of Probable Costs is for budgeting purposes only and is in no way intended as a guarantee of construction costs.

2. Costs for long-term maintenance of the above materials are not included.

3. Owner's contingency, bonds & insurances, and escalation are not included.



Trails Assistance Program – Application Form



Project name Garden Oaks - 2020 Trail Improvements

Project location (attach location map) South 183rd Street and Redwood Street

Sponsor organization SID 313, Garden Oaks

Sponsor address 11440 West Center Road

City Omaha State NE ZIP 68144

Contact person Robert Czerwinski Jr.

Title Municipal Services Dept. Manager

Email address bczerwinski@eacg.com Daytime phone 402.510.1329

Description of project (attach additional sheets as needed)

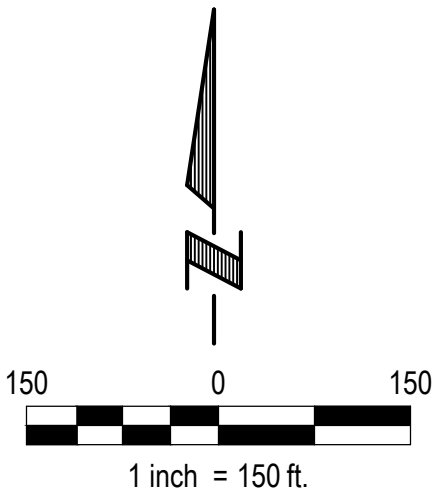
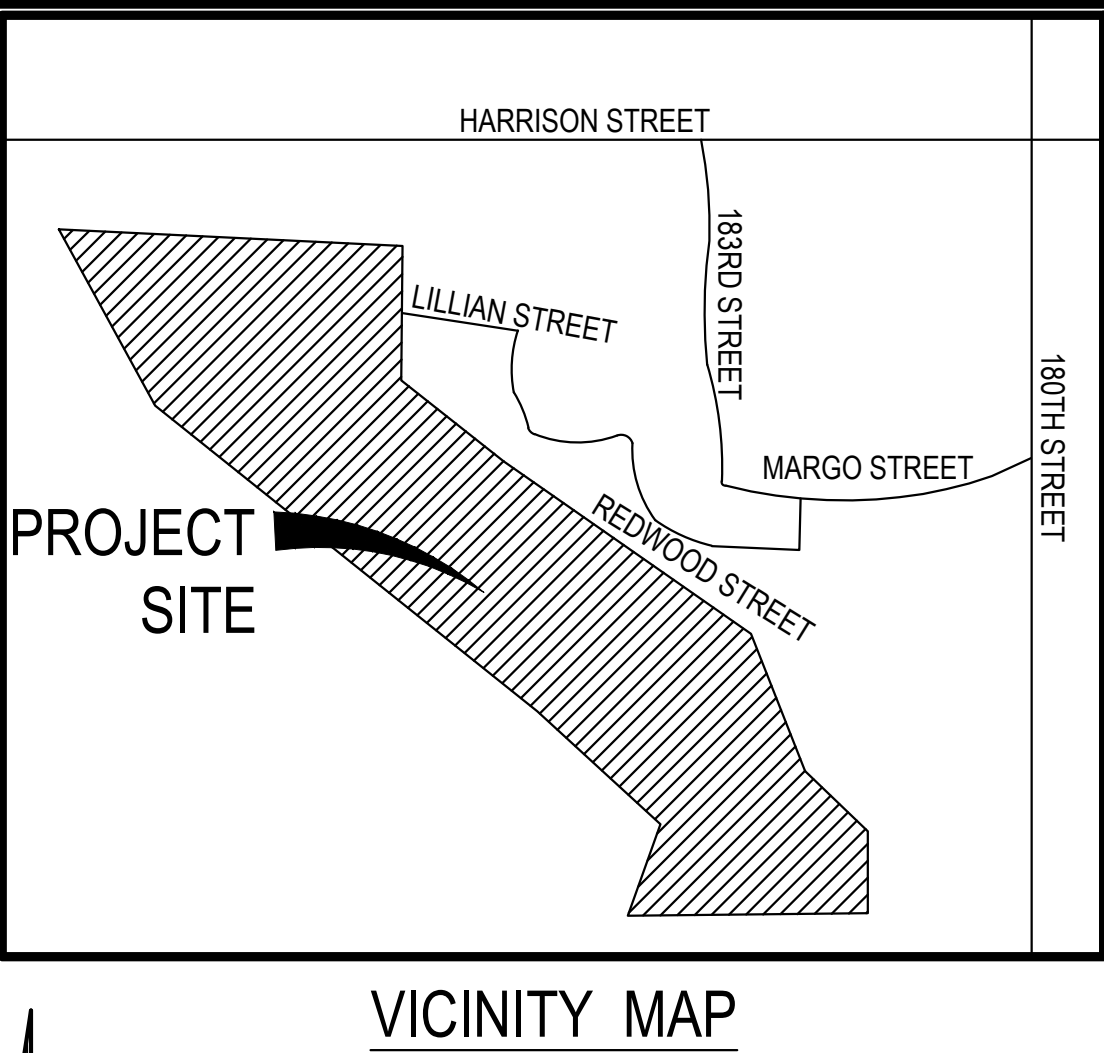
To extend the trail system, from Sugar Creek through River Oaks (SID 309) and Garden Oaks (SID 313) making a more complete trail that will connect to the proposed future DS-19, once open to the public. The estimated project completion will be Fall of 2021.

Total estimated cost \$ 500,000.00 Cost share request \$ 250,000.00

Robert F. Czerwinski Jr. 3/15/2023
Signature Date

Municipal Services Dept. Manager
Title

Improvement Plans for
GARDEN OAKS
2020 TRAIL IMPROVEMENTS
SID. NO. 313
Sarpy County, Nebraska



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES & DETAILS
3	DETAILS
4	SITE OVERVIEW
5	TRAIL PLAN AND PROFILE
6	TRAIL PLAN AND PROFILE
7	TRAIL PLAN AND PROFILE
8	TRAIL PLAN AND PROFILE
9	TRAIL PLAN AND PROFILE
10	TRAIL PLAN AND PROFILE
11	STORM SEWER PLAN AND PROFILE

APPROXIMATE BID QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
1	CLEARING & GRUBBING - GENERAL	1	LS
2	6' x 6" CONCRETE TRAIL W/ SUBGRADE PREP & BACKFILL	25,194	SF
3	CONSTRUCT PCC CURB RAMP (4 @ 49 SF)	196	SF
4	INSTALL DETECTABLE WARNING PANEL (4 @ 12 SF)	48	SF
5	INSTALL ROUND RAIL FENCE	406	LF
6	SITE GRADING (HAUL-IN)	4,016	CY
7	SEEDING DISTURBED AREAS - CITY OF OMAHA TYPE "A" SEED	5	AC
8	INSTALL NAG SC150BN ROLLED EROSION CONTROL BLANKET	6,400	SF
9	INSTALL SILT FENCE	2,458	LF
10	6' PARK BENCH 32 SQ FT (8'X4') CONCRETE PAD (SURFACE MOUNT)	3	EA
11	TRASH RECEPTACLE WITH CONCRETE PAD (SURFACE MOUNT)	1	EA
12	36" RCP	492	LF
13	36" CONCRETE COLLARS	2	EA
14	REMOVE AND REINSTALL 36" FLARED END SECTION	1	EA
15	INSTALL FLEXAMAT (9X12)	72	SF
16	FURNISH AND INSTALL CROSSWALK SIGN AND POST - W11-2	8	EA
17	FURNISH AND INSTALL DOWNWARD POINTING ARROW - W16-7P	4	EA
18	FURNISH AND INSTALL AHEAD - W16-9P	4	EA
19	INSTALL PERMANENT PAINT MARKING, 24" WIDE, WHITE	80	LF
20	CONDITIONED SOILS	1,820	SY

E & A CONSULTING GROUP, INC.
Engineering • Planning • Environmental & Field Services

10309 Mill Valley Road, Suite 100 • Omaha, NE 68154
Phone: 402.895.4700 • Fax: 402.895.3599
www.eaeg.com

E & A CONSULTING GROUP, INC.
Engineering Answers

2020 TRAIL IMPROVEMENTS
GARDEN OAKS
SID 313
SARPY, NEBRASKA

COVER SHEET

PAUL J. GONZALES
E-10420
3-3-2021

Revisions	Description	Addendum #
1	3/3/2021	
2	3/11/2021	

Proj No:	P2015.497.003
Date:	3/3/2021
Designed By:	MAT
Drawn By:	ARHEJW
Scale:	AS SHOWN
Sheet:	1 of 11

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Brad Williams

Trails Assistance Program – Application Form



Project name Sidewalk & Curb Ramps - Section I & II & Sunburst Drive Extension

Project location (attach location map) South 114th Street and Schram Road

Sponsor organization SID 328, Sumtur Crossing

Sponsor address 11440 West Center Road

City Omaha State NE ZIP 68144

Contact person Robert Czerwinski Jr.

Title Municipal Services Dept. Manager

Email address bczerwinski@eacg.com Daytime phone 402.510.1329

Description of project (attach additional sheets as needed)

To construct the trail system through Sumtur Crossing (SID 328) and connect to the existing
trail at The Reserve at Schram Point (SID 318) which connects to Walnut Creek Lake (Dam Site 21)

Total estimated cost \$ 228,000.00 Cost share request \$ 114,000.00

Robert F. Czerwinski Jr. 3/15/2023
Signature Date

Municipal Services Dept. Manager
Title

APPROXIMATE BID QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
1	MOBILIZATION	1	LS
2	INSTALL CURB INLET PROTECTION	6	EA
3	INSTALL AREA INLET PROTECTION	1	EA
4	CLEARING AND GRUBBING	1	LS
5	REMOVE CURB AND GUTTER	36	LF
6	REMOVE PAVEMENT	16	SY
7	REMOVE HEADER	25	LF
8	REMOVE END OF ROAD MARKERS	3	EA
9	SAWCUT - FULL DEPTH	131	LF
10	CONSTRUCT 5" P.C.C. SIDEWALK (5' WIDE) (W/ SUBGRADE PREP)	26,935	SF
11	CONSTRUCT 6" P.C.C. MULTI-USE TRAIL (10' WIDE) (W/ SUBGRADE PREP)	30,294	SF
12	CONSTRUCT P.C.C. CURB RAMP (83)	4,690	SF
13	CONSTRUCT DETECTABLE WARNING PANEL (83)	760	SF
14	CONSTRUCT 7" PCC	466	SY
15	INSTALL TIE BARS	26	EA
16	INSTALL TRAFFIC SIGN POST	18	EA
17	FURNISH AND INSTALL STOP SIGN - R-1-1	2	EA
18	FURNISH AND INSTALL CROSSWALK SIGN - W11-2	16	EA
19	FURNISH AND INSTALL DOWNWARD POINTING ARROW SIGN - W16-7P	8	EA
20	FURNISH AND INSTALL AHEAD SIGN - W16-9P	8	EA
21	FURNISH AND INSTALL STREET NAME SIGNS	2	EA
22	INSTALL PERMANENT PAINT MARKING, 12" WHITE, STOP BAR	24	LF
23	INSTALL PERMANENT PAINT MARKING, 24" WHITE, CROSSWALK	84	LF
24	SEED & MAT DISTURBED AREAS	10,577	SY
25	BASIN MAINTENANCE (BY OTHERS)	1	LS
26	ADJUST WATER VALVE TO GRADE	2	EA
27	ADJUST MANHOLE TO GRADE	1	EA
28	EXCAVATION ON-SITE (ESTABLISHED QUANTITY)	128	CY
29	EMBANKMENT - HAUL IN (ESTABLISHED QUANTITY)	450	CY
30	TEMPORARY TRAFFIC CONTROL	1	LS
31	INSTALL SILT FENCE	407	LF
32	CONSTRUCT IMPRINTED SURFACE	392	SF

Note to Bidders:

Item 28 - Excavation (On-site) - Established Quantity. This item is intended to pay the contractor for materials necessary to excavate, transport, place and compact material located on site. The unit cost bid shall include the cost of excavation, loading for transport, transport, unloading, placement and compaction to fill. Compaction requirement is 90% Maximum Dry Density (MOD) (ASTM D-1557) with moisture limits of - 3% to + 4% optimum. The Engineers estimate 128 CY (adjusted - See details below). A topographic survey will be done before construction begins. This item is paid for at an established quantity unit price, and it is the contractors responsibility to determine if the estimated amount is accurate. No adjustment to this quantity bid will be accepted without an approved written change order.

Item 29 - Embankment (Haul-In) - Established Quantity. This item is intended to pay the contractor for materials necessary to excavate, transport, place material located off site. This item is also intended to pay the contractor for material required to be hauled off to complete the project to the grade shown on the plan. The unit cost bid shall include the cost of excavation, loading for transport, transport, unloading, placement. The Engineers estimate 450 CY (adjusted - See details below). A topographic survey will be done before construction begins. This item is paid for at an established quantity unit price, and it is the contractors responsibility to determine if the estimated amount is accurate. No adjustment to this quantity bid will be accepted without an approved written change order.

Item 30 - Provide Temporary Traffic Control. This item is intended to pay the contractor for all barricading, temporary message board, and traffic control for the duration of the project. The contractor shall coordinate with City of Papillion, Derek Goff (Phone: 402-829-1320; dgoft@papillion.org) if a lane closure for concrete placement is desired. The exact date and time shall be communicated and coordinated with City of Papillion one week prior to concrete placement so the public can be adequately notified. Morning and afternoon rush hours shall be avoided for lane closures, and flaggers shall be provided for any lane restrictions.

Cut/Fill Summary

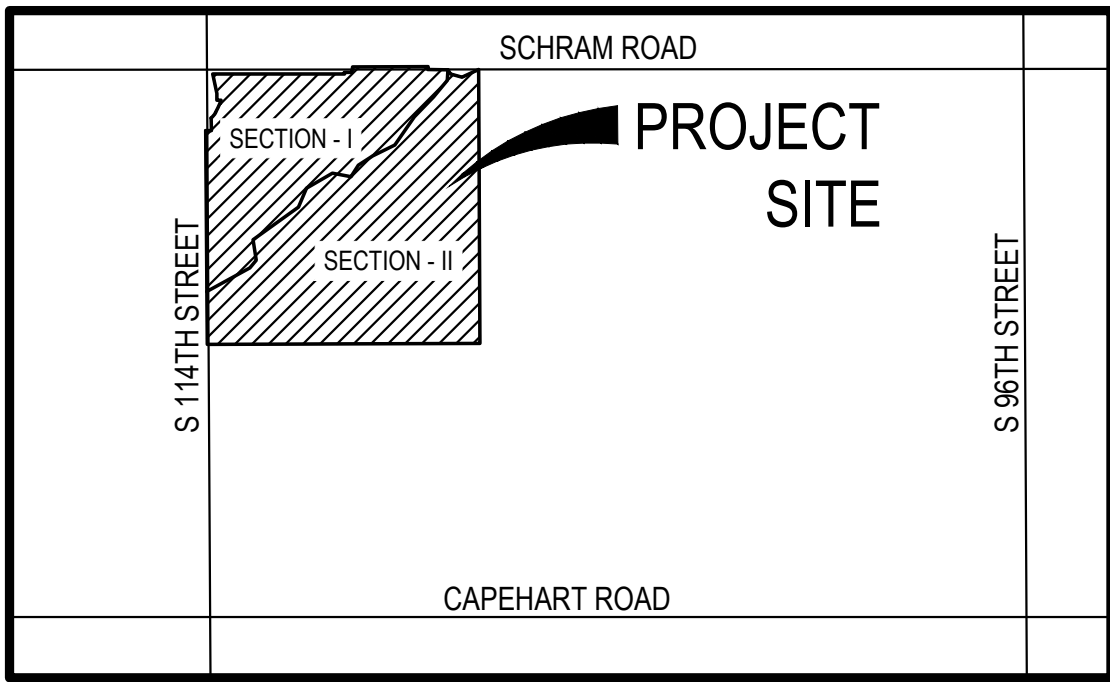
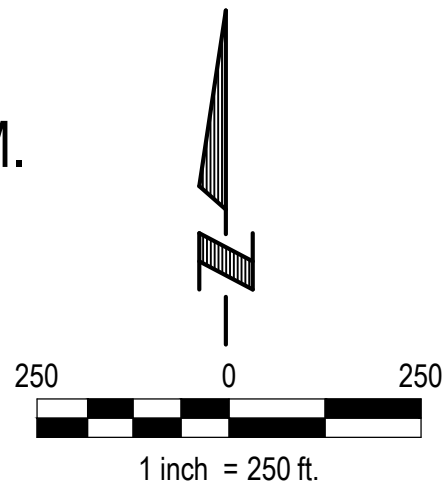
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VOLUME - TRAIL - OL C	1.000	1.350	4240.63 Sq. Ft.	5.56 Cu. Yd.	107.80 Cu. Yd.	102.24 Cu. Yd.<Fill>
VOLUME - TRAIL - OL D	1.000	1.350	10864.36 Sq. Ft.	12.49 Cu. Yd.	17.97 Cu. Yd.	5.49 Cu. Yd.<Fill>
Sidewalk South Sunburst Drive	1.000	1.350	8697.21 Sq. Ft.	7.23 Cu. Yd.	47.85 Cu. Yd.	40.62 Cu. Yd.<Fill>
Sidewalk North Sunburst Drive	1.000	1.350	29333.51 Sq. Ft.	31.66 Cu. Yd.	369.60 Cu. Yd.	337.95 Cu. Yd.<Fill>
Sunburst Drive	1.000	1.350	7103.84 Sq. Ft.	70.62 Cu. Yd.	34.20 Cu. Yd.	36.41 Cu. Yd.<Cut>
Totals			60239.55 Sq. Ft.	127.56 Cu. Yd.	577.43 Cu. Yd.	449.87 Cu. Yd.<Fill>

SUMTUR CROSSING

SIDEWALK & CURB RAMPS - SECTION I & II, & SUNBURST DRIVE EXTENSION

Located in the NE 1/4 of Section 5, Township 13N, Range 12E, of the 6th P.M.

SID NO. 328
PAPILLION, NEBRASKA



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER
2	NOTES
3	CURB RAMP DETAILS
4	DETAILS
5	COMPOSITE MAP
6	SECTION I TOPOGRAPHY
7	SUNBURST DRIVE TOPOGRAPHY
8	SECTION I - SIDEWALK STA 1+00 TO STA 14+00
9	SECTION I - SIDEWALK STA 14+00 TO 23+50
10	SECTION I - OUTLOT D TRAIL STA 1+00 TO 5+50
11	SECTION I - OUTLOT D TRAIL STA 5+50 TO 10+76

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
12	SECTION I - OUTLOT C TRAIL STA 11+00
13	SECTION II - NORTHEAST
14	SECTION II - NORTH CENTRAL
15	SECTION II - SOUTHWEST
16	SECTION II - SOUTH CENTRAL
17	SECTION II - SOUTHEAST
18	SUNBURST DRIVE REMOVAL PLAN
19	SUNBURST DRIVE PLAN & PROFILE
20	SUNBURST DRIVE CROSS SECTIONS
21	SUNBURST DRIVE JOINTING PLAN

PROJECT INFORMATION

N/A	PAP-20170802-4217-GP1	328	5/1/2023	7/1/2023
Project Number Assigned by PWD	Grading Permit Project Number Assigned by PWD	SID Number	Estimated Start Date	Estimated Completion Date
Sidewalk & Curb Ramps - Section I & II, & Sunburst Drive Ext.	Sumtur Crossing			
Project Name	Subdivision Name			
S 114th Street and Schram Road	Papillion	NE	68046	
Address	City	State	Zip Code	
N/A	N/A	N/A	N/A	
City Council Resolution Number Granting Project Approval	City Council Ordinance Number Granting Project Approval	City Council Resolution/Ordinance Approval Date		

PROJECT DESCRIPTION

The construction of trails, sidewalks and curb ramps for Section I and Section II. Also, the construction of Sunburst Drive Extension, from S 114th Street to S 113th Avenue.

APPLICANT

SID # 328
Dave Vogtman, Chairman
11440 West Center Road, Ste. C
Omaha, NE 68144
P: 402.334.0700
F: 402.334.0815
larry@fdjaw.com

DESIGNER

E & A Consulting Group, Inc
Teresa Wooten, P.E.
10909 Mill Valley Road, Suite 100
Omaha, NE 68154
P: 402.895.4700
F: 402.895.3599
twooten@eacg.com

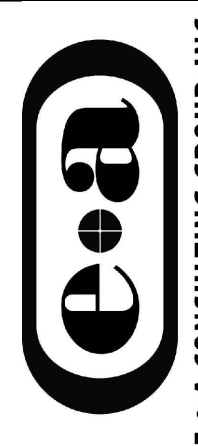
INSPECTOR

E & A Consulting Group, Inc
Randall L. Pierce, P.E.
10909 Mill Valley Road, Suite 100
Omaha, NE 68154
P: 402.895.4700
F: 402.895.3599
rpierce@eacg.com

CONTRACTOR

E & A CONSULTING GROUP, INC.
Engineering • Planning • Environmental & Field Services

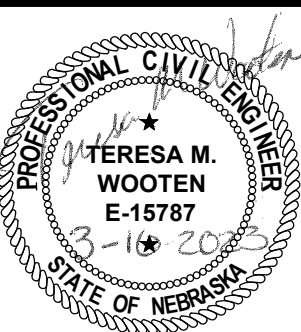
10909 Mill Valley Road, Suite 100 • Omaha, NE 68154
Phone: 402.895.4700 • Fax: 402.895.3599
www.eacg.com
State of NE Certificate of Authorization #CA0008



Engineering Answers

SUMTUR CROSSING
SIDEWALK & CURB RAMPS -
SECTION I & II, & SUNBURST
DRIVE EXTENSION
SID 328
PAPILLION, NEBRASKA

COVER



Proj No.	Revisions	Date	Description
P2016.420.001			
Date	3/10/2023		
Designed By:	TMM		
Drawn By:	JMB		
Scale:	1" = 250'		
Sheet:	1 of 21		

Trails Assistance Program – Application Form



Project name South Sioux City Cardinal School 31st St Bike Trail Connection

Project location (attach location map) From Intersect of G St and 31st St to roughly 400ft West

Sponsor organization City of South Sioux City

Sponsor address 1615 First Ave.

City South Sioux City **State** NE **ZIP** 68776

Contact person Gene Maffit

Title Parks Director

Email address gmaffit@southsiouxcity.org **Daytime phone** 402-494-7540

Description of project (attach additional sheets as needed)

See attached

Total estimated cost \$ 110,670 **Cost share request** \$ 55,335


Signature

3/3/2023
Date

Lance Hedquist, City Administrator
Title

South Sioux City Cardinal School 31st St Connecting Bike Trail

Project Description

South Sioux City is seeking a Trails Assistance Program grant to fund construction to connect the Cardinal Elementary School trail to the main leg of the Al Bengston trail system. The roughly 400' trail would help solidify our trails for having safe routes to school. Through this connection, the school and neighborhoods will be connected to other parks amenities, including but not limited to Siouxland Freedom Park, all but one of the district schools, numerous other city parks, as well as countless hours of potential exercise.

The Al Bengston trail system is utilized by many of our local citizens and surrounding communities. The trail system boasts over 25+ miles of safe travel environment allowing its' riders, walkers and joggers to experience the beautiful outdoor sites with ease all while capitalizing on a healthy lifestyle.

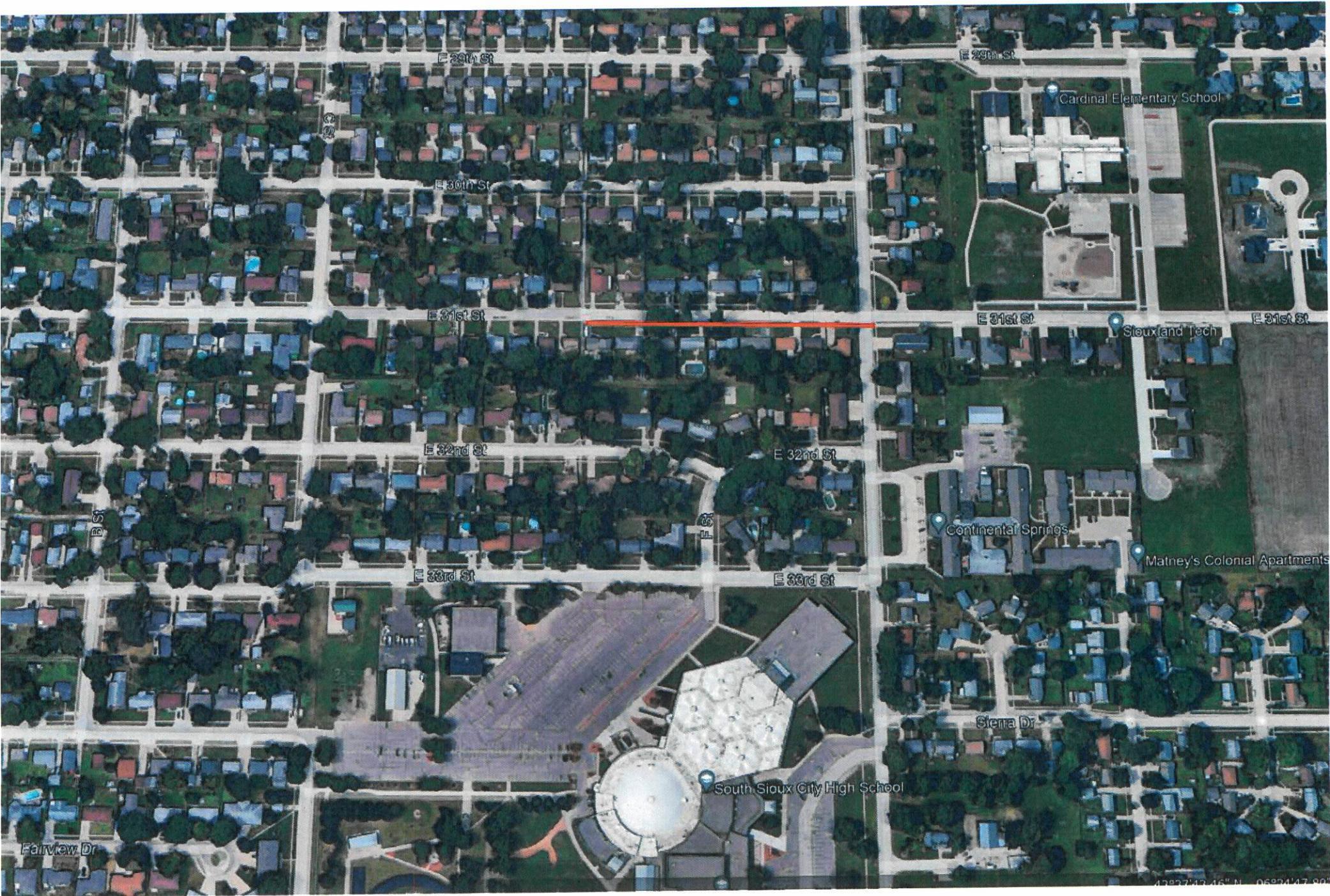
This project would be an excellent fit for the Trails Assistance Program as it enhances the recreational opportunities as well as aligns with the City's Comprehensive Plan (see attached). Continued growth in the region must include attractive amenities such as outdoor recreation. This project contributes directly to ongoing efforts to serve the City's and region's vibrant and increasingly diverse community.

Budget

The budget estimate is \$110,670 with a NRD cost share of \$55,335 (50%) and city share of \$55,335 (50%).

Implementation Schedule

The City will select a vendor using standard procurement processes. Expected completion time is roughly 60 days, weather permitting, after all procurement standards are met. The project timeline will be provided by the contractor and approved by the City Parks Director, Gene Maffit.



Map 15: Existing and Proposed Trails

