

MEMORANDUM

TO: Programs, Projects, and Operations Subcommittee

FROM: Eric Williams, Natural Resources Planner

SUBJECT: FY 2019 Urban Cost Share Programs

- Urban Conservation Assistance Program
- Urban Drainageway Program
- Recreation Area Development Program
- Trails Assistance Program
- Lake Dredging Program

DATE: April 5, 2018

The District solicited applications for the urban cost share programs (guidelines attached) 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.

SID 276 (Sarpy) Portal Ridge, Channel Improvements

Erosion along the east side of Applewood Creek, just south of Giles Road, has damaged the bank and is threatening properties. Stabilization along the toe of the slope, and re-grading will be completed in order to prevent additional erosion, and to reduce the risk of damaging infrastructure in the area.

SID 518 (Douglas) Elkhorn View Estates, Channel Improvements

Meandering of “Piney Creek” south of West Maple Road and west of 192nd Street is causing erosion along the outer creek bank, and creating unsafe conditions near the fences in the backyard of properties along the east side of the creek. Following a site visit with NRD staff, the SID is requesting assistance to stabilize the bank and prevent future damage to private properties, as well as the trail and park on the west side of the creek.

The FY 2018 budget included \$180,000 for new projects in this program. The following table summarizes the FY 2019 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2019 Cost Share</u>
SID 276 Portal Ridge, Channel Improvements	\$120,000	\$30,000
SID 518 Elkhorn View Estates, Channel Improvements	\$225,000	\$30,000
Total	\$345,000	\$60,000

- It is recommended that the Subcommittee recommend to the Board of Directors that the applications from SID 276 Portal Ridge for \$30,000, SID 518 Elkhorn View Estates for \$30,000, for a total of \$60,000 be approved, subject to funding in the FY 2019 Budget.

Urban Drainageway Program

The Urban Drainageway Program (UDP) cost shares with units of government to rehabilitate major urban drainageways within their jurisdiction. The cost share rate varies depending on the level of rehabilitation. This program was redefined by the Board in 2011. Board approval is required on all applications. New program applications were received and are outlined below.

Omaha, Thomas Creek Improvements Phase 1

Thomas Creek is a tributary to the Little Papio Creek, with the confluence just east of the I-680 exit at Irvington. The entire section of the creek from the interstate down to the confluence near Wenninghoff Road and Blair High Road has significant bank erosion, poor water quality, and areas of disconnected floodplain. The City of Omaha, Public Works Department has developed a comprehensive plan for rehabilitation of this reach, and are now asking for cost share on improvement in the area of most immediate need. Application to the NDEQ (319) program has provided funds targeted to help improve water quality. The scope of Phase 1 will cover multiple years, and an Interlocal Agreement is expected.

Papillion, Tara Hills Drainageway Stabilization

This drainageway is on the east side of Tara Hills Golf Course, just west of Washington Street (84th Street), near the park and recreation facilities along Shillaelagh Blvd. Conditions in the channel have degraded causing risk to public safety, and to adjacent infrastructure including the sanitary sewer and utilities. Papillion is requesting cost share assistance to remove debris, re-grade the channel, implement stabilization techniques, and restore the area as the eastern edge of the park.

The FY 2018 budget included \$567,480 for projects in this program. The following table summarizes the FY 2019 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2019 Cost Share</u>
Omaha, Thomas Creek Improvements Phase 1 Year 1 of 3 (\$350,000 in FY 2020, FY 2021)	\$1,561,000	\$80,000
Papillion, Tara Hills Drainageway Stabilization	\$301,000	\$120,400
Total	\$1,862,000	\$200,400

- It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Omaha for \$80,000, and from Papillion for \$120,400, for a total of \$200,400 be approved, subject to funding in the FY 2019 Budget.

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.

Blair, California Walking Trail Phase 2

Following on the completion of Phase 1, Blair is requesting cost share assistance for an additional 7,500 foot long rock walking trail at the Missouri River north to the California Bend Area. Blair reports that the trail in this area has received many positive comments from the public.

Decatur, Beck Park RV Pad Electrical Upgrade

The Village of Decatur has seen an increase in the number of large RVs using the facilities at Beck Park. The electrical equipment does not meet the needs of these visitors, and the Village is requesting cost share assistance to upgrade the electrical connections to accommodate more guests at the park.

Herman, Playground Equipment

Following the closing of the Herman Elementary School, the playground equipment has been donated to the Village of Herman who is now requesting cost share assistance to have the equipment reinstalled at the public park.

Homer, Baseball Field Upgrades

Facilities at the baseball field are damaged and need to be upgraded. The Village is requesting cost share assistance for the replacement of the roof and grandstands, as well as reconstruction of the baseball field.

Papillion, Tara Hills Park Shelter and Playground Renovation

In conjunction with the Tara Hills Drainageway Stabilization project on the east edge of the park, the existing shelter and playground which are currently located inside the area of the drainageway construction, will be removed. Papillion is requesting cost share assistance to provide a new shelter and playground at a more central location in the park.

South Sioux City, Old Tree Farm Park

The city is in the process of removing trees from an old tree farm, to be placed in other parks. After the trees have been relocated, the city is requesting cost share to construct a new sports field recreation location. Some existing trees are too large to be moved, and will remain on site as an amenity at the new sports fields.

The FY 2018 budget included \$306,364 for projects in this program. The following table summarizes the FY 2019 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2019 Cost Share</u>
Blair, California Walking Trail Phase 2	\$26,000	\$13,000
Decatur, Beck Park RV Pad Electrical Upgrade	\$40,000	\$20,000
Herman, Playground Equipment	\$10,000	\$5,000
Homer, Baseball Field Upgrades	\$45,361	\$22,681
Papillion, Tara Hills Park Shelter and Playground Renovation	\$159,000	\$50,000
South Sioux City, Old Tree Farm Park	\$142,875	\$50,000
Total	\$423,236	\$160,681

- It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Blair for \$13,000, Decatur for \$20,000, Herman for \$5,000, Homer for \$22,681, Papillion for \$50,000, and South Sioux City for \$50,000, for a total of \$160,681 be approved, subject to funding in the FY 2019 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.

SID 441 (Douglas) Waterford, Trail Improvements

An existing trail loops around Waterford Lake, and connects to the clubhouse on the east side of 151st Ave. The SID is requesting cost share assistance to extend the trail around the clubhouse, and continue the previously incomplete portion of the trail to the west along the small creek, connecting to the east side of 153rd Street. This will provide a more complete trail system, and improved access for residents to the existing trail and to the lake.

Walthill Walking Trail, Phase 3

Following the development of a comprehensive trail plan, Walthill has constructed previous phases of this trail system and is now requesting cost share to continue the next section. Phase 3 will connect the baseball fields to the new proposed youth center.

The FY 2018 budget included \$723,360 for projects in this program. The following table summarizes the FY 2019 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2019 Cost Share</u>
SID 441 Waterford, Trail Improvements	\$150,000	\$75,000
Walthill Walking Trail, Phase 3	\$106,900	\$53,450
Total	\$310,900	\$128,450

- It is recommended that the Subcommittee recommend to the Board of Directors that the applications from SID 441 for \$75,000, and from Walthill for \$53,450 for a total of \$128,450 be approved, subject to funding in the FY 2019 Budget.

Lake Dredging Program

The Lake Dredging Program cost shares with communities to remove accumulated sediments from public recreation lakes. The cost share rate is 50%, up to a maximum of \$100,000. All applications require Board Approval.

SID 441 (Douglas) Waterford, Lake Dredging

Waterford Lake is located just upstream of Standing Bear Reservoir, to the northwest of 144th & Ida Street. The SID is requesting cost share assistance to dredge the lake at the north end, and along a 30' wide removal area at the edges of the lake.

The FY 2018 budget included \$149,387 for projects in this program. The following table summarizes the FY 2019 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2019 Cost Share</u>
SID 441 Waterford, Lake Dredging	\$230,000	\$100,000
Total	\$230,000	\$100,000

- It is recommended that the Subcommittee recommend to the Board of Directors that the applications from SID 441 for \$100,000 be approved, subject to funding in the FY 2019 Budget.



Urban Conservation Assistance Program – Application Form

Project name Portal Ridge - 2018 Channel Improvements

Project location (attach location map) 101st & Giles

Sponsor organization SID 276, Portal Ridge

Sponsor address 11440 West Center Road

City Omaha State NE ZIP 68144

Contact person Robert Czerwinski

Title Municipal Services Department 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 \$ 120,000 Cost share request \$ 30,000

ROBERT F. CZERWINSKI
Signature

03/23/2018
Date

Municipal Services Dept. Manager
Title

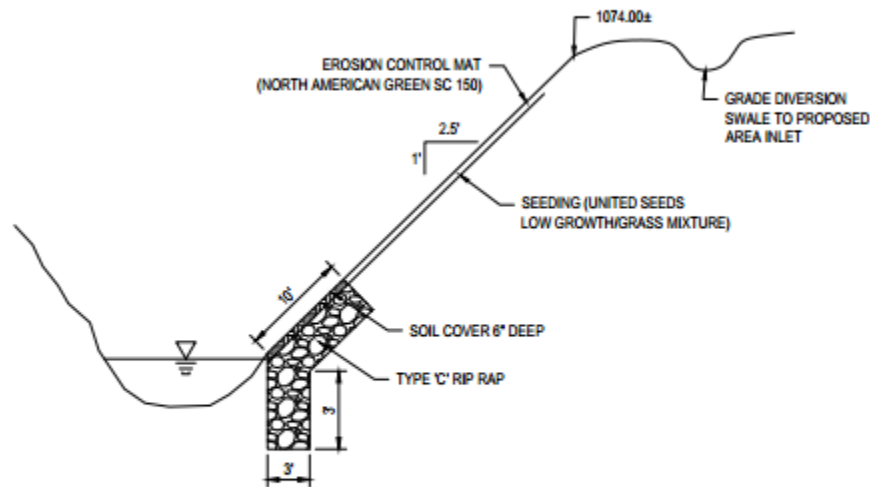
URBAN CONSERVATION ASSISTANCE PROGRAM – APPLICATION FORM

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 –

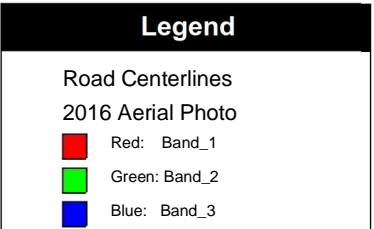
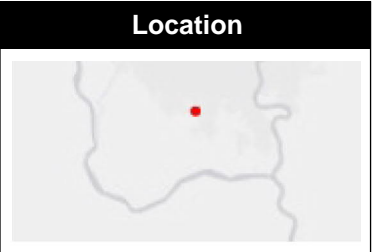
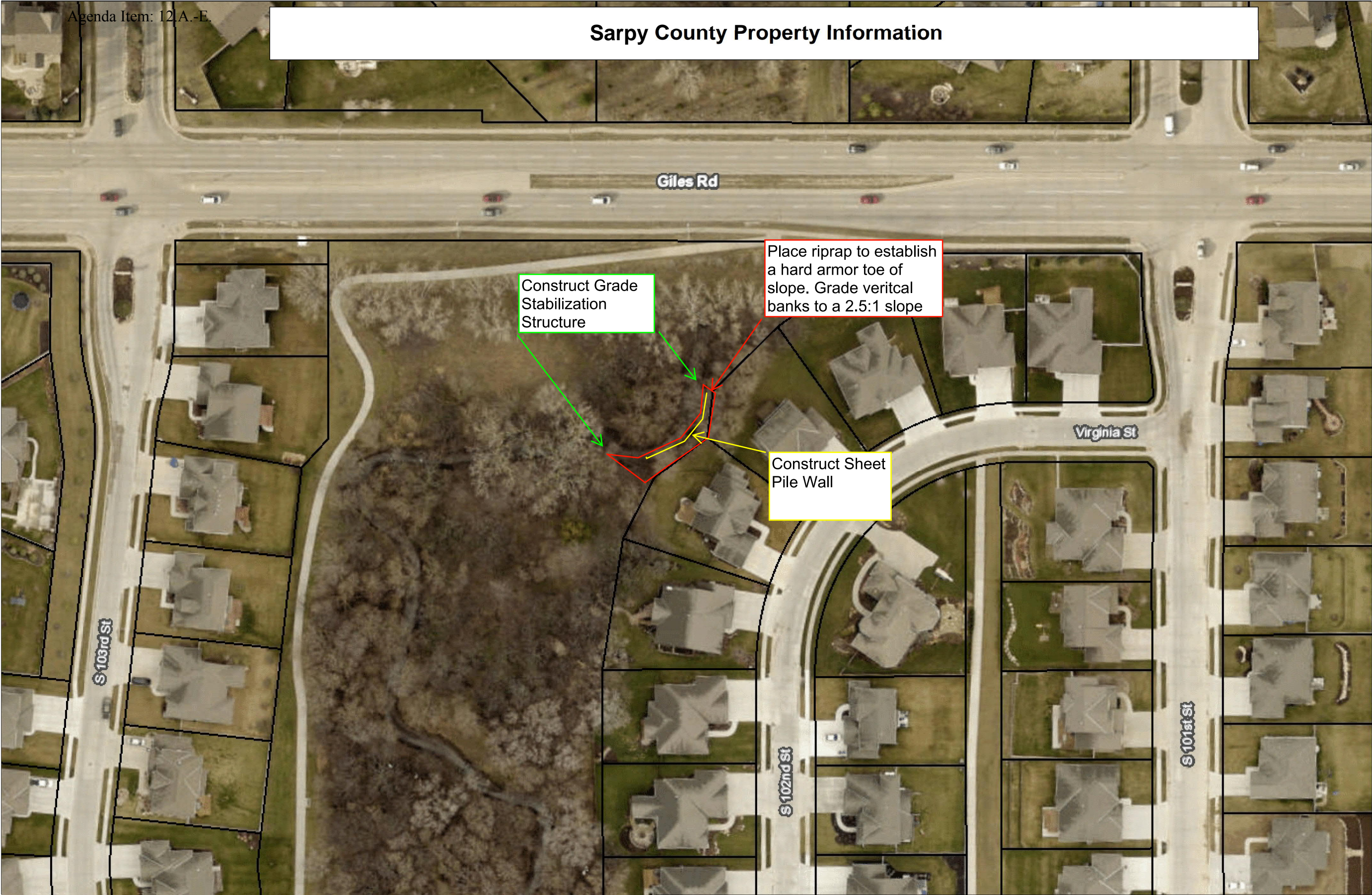
The proposed solution is to stabilize the eroding creek by installing grade control, channel restoration, and bank stabilization. Grade control would include the installation of sheet pile weir structures. The placement of rip rap and sheet pile along the east bank will help in establishing a hard armor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



RIPRAP PLACEMENT DETAIL

NOT TO SCALE

Sarpy County Property Information




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



2017/03/14



Urban Conservation Assistance Program – Application Form

Project name Elkhorn View Estates - 2018 Channel Improvements

Project location (attach location map) 192nd & Maple

Sponsor organization SID 518, Elkhorn View Estates

Sponsor address 11440 West Center Road

City Omaha State NE ZIP 68144

Contact person Robert Czerwinski

Title Municipal Services Department 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 \$ 225,000 Cost share request \$ 30,000

ROBERT F. CZERWINSKI
Signature

03/23/2018
Date

Municipal Services Dept. Manager
Title

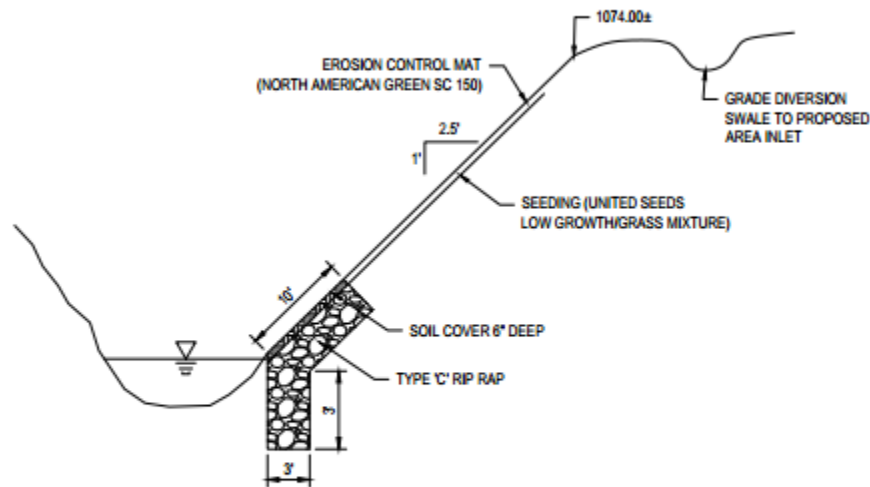
URBAN CONSERVATION ASSISTANCE PROGRAM – APPLICATION FORM

Description of problem –

A segment of Piney Creek, which is a tributary of West Papillion Creek, bordering Elkhorn View Estates (SID 518) has experienced significant bank sloughing and erosion on the east bank. Further bank erosion is anticipated, jeopardizing the adjacent private property owners.

Proposed solution –

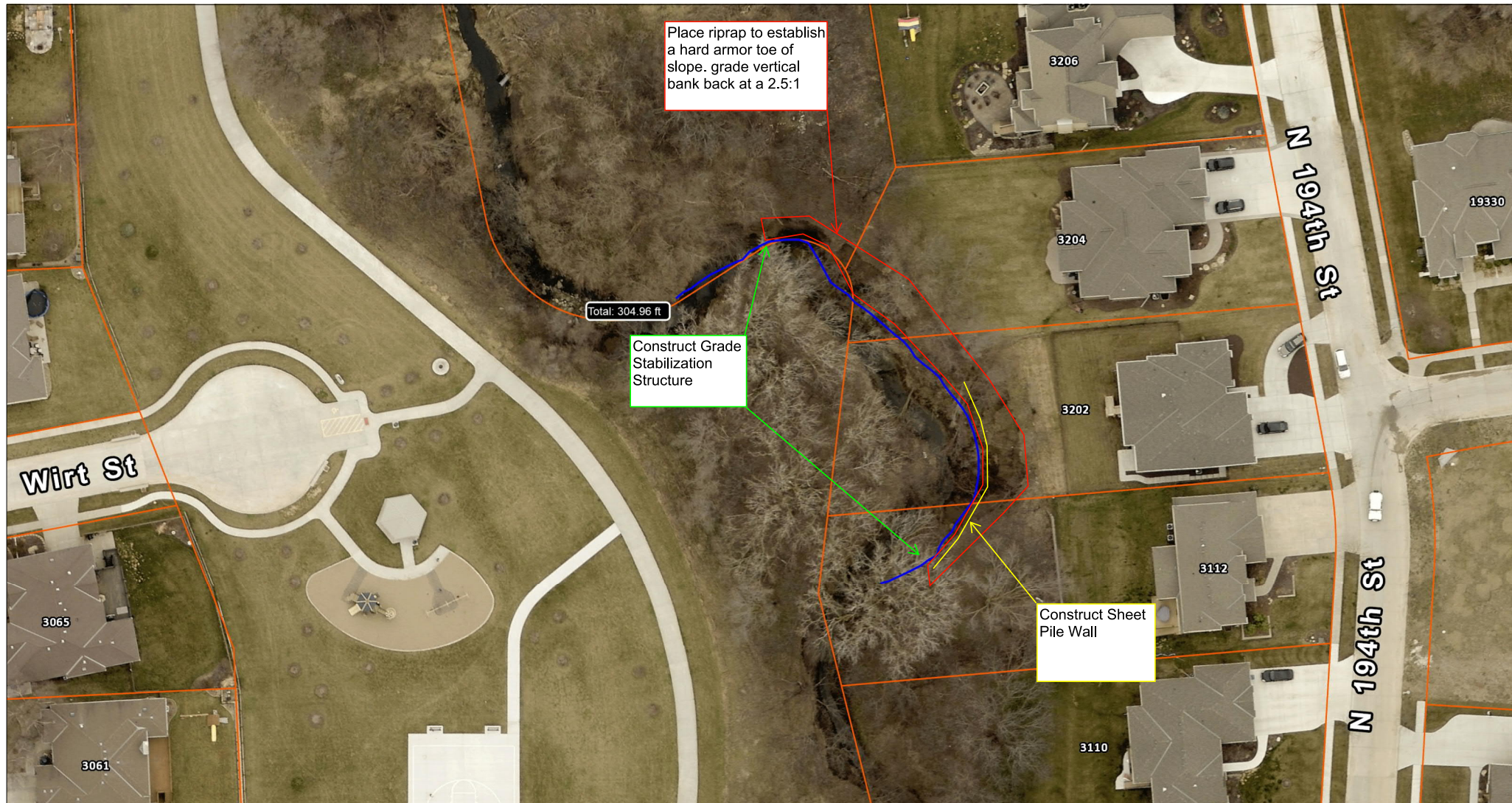
The proposed solution is to stabilize the eroding creek by installing grade control, channel restoration, and bank stabilization. Grade control would include the installation of sheet pile weir structures. The placement of rip rap and sheet pile along the east bank will help in establishing a hard armor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



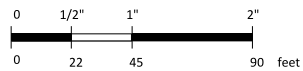
RIPRAP PLACEMENT DETAIL

NOT TO SCALE

Douglas County Property Info



1 : 538
1 : 45



This map is a user-generated, static output. It is for reference only. Data on this map 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.

Douglas County GIS
1819 Farnam St
Suite 402
Omaha NE, 68183











Urban Drainageway Program – Application Form

Project name Thomas Creek Improvements, Phase I

Project location (attach location map) Interstate 680 and Ida Street, Omaha, NE

Sponsor organization City of Omaha

Sponsor address 1819 Farnam Street

City Omaha State NE ZIP 68183

Contact person Adam Wilmes

Title Civil Engineer III

Email address adam.wilmes@cityofomaha.org Daytime phone (402) 444-3819

Description of problem (attach additional sheets as needed)

See attached sheets.

Proposed solution (attach additional sheets as needed)

See attached sheets.

Level of Design

Level 1

☐

Level 2

☒

Level 3

☐

Total estimated cost

\$ 1,561,000

Cost share request

\$ 780,000

Signature

Adam Wilmes

Date

3/23/2018

Title

CIVIL ENGINEER III



City of Omaha
Jean Stothert, Mayor

Public Works Department

Omaha/Douglas Civic Center
1819 Farnam Street, Suite 601
Omaha, Nebraska 68183-0601
(402) 444-5220
Fax (402) 444-5248

Robert G. Stubbe, P.E.
Public Works Director

March 22, 2018

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

RE: OPW 53129 – Thomas Creek Improvements, Phase I
NRD Urban Drainageway Program Grant Application Submittal

Dear Mr. Williams,

Enclosed please find the following material intended for the application of the District's Urban Drainageway Program grant for the above-referenced project in Omaha:

1. Completed Application Form 17.17 for the Urban Drainageway Program
2. Location map (Attachment A)
3. Site map with 2010 LiDAR Contours (Attachment B)
4. Concept Plan & Profile Sheets
5. Preliminary cost estimate
6. EPA 319 and NET responses to funding applications

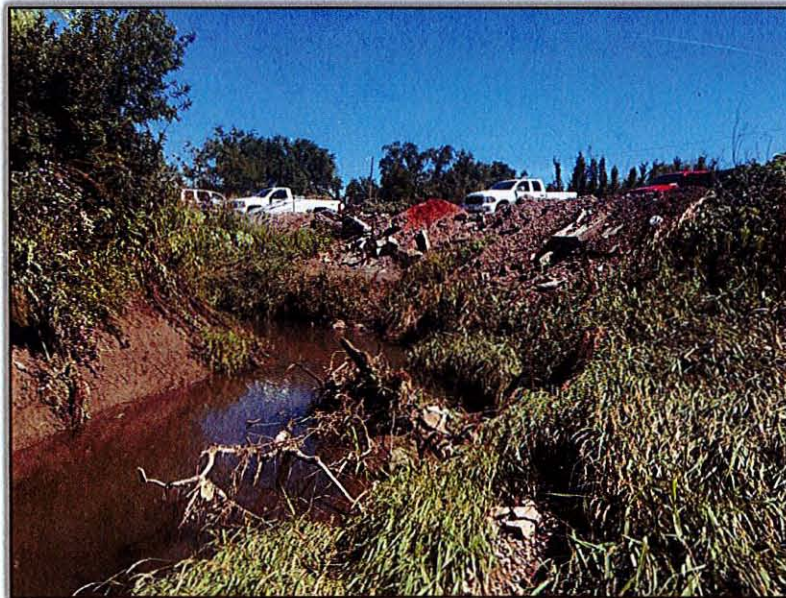
Description of the Problem

The Thomas Creek Improvements, Phase I project is located east of the intersection of Interstate 680 and Blair High Road in Omaha (See Attachment A). This project is part of a larger, multi-phased plan to rehabilitate the Thomas Creek system from its confluence with Little Papillion Creek to Interstate 680. The plan also includes rehabilitation of an Unnamed Tributary from its confluence with Thomas Creek to Ida Street. Urbanization along these reaches has altered channel geometry, decreased the natural buffers, and increased runoff volumes and velocities. As a result, these reaches have experienced channel downcutting, bank erosion, poor water quality, and areas of disconnected floodplain. In several areas, City of Omaha infrastructure is being threatened or has failed as a result of these issues.

In the Phase I project area, activity and development within adjacent properties have greatly affected the stream system. Observations in the field indicate that pollutants may be entering the stream from the landscape nursery to the northeast, as well as from the industrial-use properties to the southwest (See Photograph 1). Fill and other material has also been stockpiled along the banks, altering the flow characteristics in some areas, and leaving little to no buffer on both sides of the channel (See Photograph 2). Not only does this present water quality concerns, but some material has been transported to other areas of the reach, which has further altered the channel geometry.



Photograph 1. Looking south at discolored runoff from paved area to the north



Photograph 2. Looking north at adjacent properties along the eastern bank

The increased runoff from adjacent properties, as well as physical alterations to the channel, have degraded the stream bed and accelerated bank erosion in many areas, particularly around the bends (See Photograph 3).



Photograph 3. Looking south at erosion along the right stream bank

In addition to erosion and water quality concerns, there are two sanitary sewer crossings within the Phase I project area (See Attachment B). The first crossing is an 8-inch sanitary collector within Thomas Creek, immediately downstream of its confluence with the Unnamed Tributary. Existing grade control measures used to stabilize this crossing have previously failed, with the structure being flanked on the left bank. Although repairs were made to stabilize the left bank, there is evidence of flanking on the right bank, as well (See Photograph 4).

The second sewer crossing is a 30-inch sanitary interceptor located within the Unnamed Tributary just upstream of its confluence with Thomas Creek. This crossing appears to be stabilized with a sheet pile grade control structure. However, an obstruction of woody debris and an abandoned railroad abutment upstream of this structure appear to be redirecting flow, causing scour within the channel.



Photograph 4. Looking northwest at flanked grade control structure



**Photograph 5. Looking at woody debris in Unnamed Tributary
upstream of grade control structure**

Proposed Solution

The City of Omaha contracted with Felsburg Holt & Ullevig (FHU) in 2017 to provide a stream assessment of Thomas Creek and develop a conceptual plan for rehabilitation. From the findings of this study, it is proposed that the first phase of rehabilitation will consist of approximately 1400 LF of Thomas Creek and 400 LF of the Unnamed Tributary for a total of 1800 LF of channel. The first phase was selected because of the serious nature of the stream degradation in this area, as well as the threatened City infrastructure mentioned previously.

Improvements within Thomas Creek will extend from Ida Street to approximately 100 feet upstream of the sanitary sewer line crossing (See attached Concept Plan and Profile, Sheets 5 and 6). Proposed improvements for this reach include six low profile rock riffles to stabilize the grade and improve instream habitat. A new sheet pile grade control structure is proposed to be constructed downstream of the existing sewer line encasement, and channel regrading and shaping will occur throughout the channel. Floodplain benching is proposed in the areas adjacent to the landscape nursery, and bends will be stabilized with soil-covered rip rap, live stakes, and root wads.

Proposed improvements within the Unnamed Tributary will extend from the confluence with Thomas Creek for approximately 400 LF (See attached Concept Plan and Profile, Sheet 7). Improvements include regrading and reshaping of the channel, removal of obstructions and woody debris, installation of a rock riffle, and installation of rock rip rap with live stakes.

It is anticipated that the City will be requesting proposals for professional engineering services in the summer of 2018, with preliminary and final design to follow. More detail on the proposed schedule can be found below.

Cost Estimate and Implementation Schedule

The total project cost for Phase I is estimated to be approximately \$1,500,000. This includes an estimated \$400,000 in professional services including detailed design, bidding and construction support, sampling and monitoring, and public involvement. The remaining \$1,100,000 is the opinion of probable construction cost. The City has applied for both EPA 319 funding as well as Nebraska Environmental Trust (NET) funding. The City has received a commitment of \$195,000 in EPA 319 funding, but did not receive NET funding. Responses to both of those applications are attached to this submittal, and full applications can be provided if desired.

If the NRD should choose to participate in a cost share with the City of Omaha on this project, Table 1 on the following page summarizes how the proposed funding would be broken down between the various entities, and how it is expected the funds would be expended over the next several years. The P-MNRD portion of project funding is calculated as 60% of the project cost shared between the City and the NRD, assuming a Level 2 cost-share.

Table 1: Expected expenditures per year (NRD Fiscal Years)				
	FY 2019	FY 2020	FY 2021	Total
Major Activity:	RFP, Permitting, Survey, Design	Bid & Start Construction	Construction & Project close-out	
P-MRNRD	\$80,000	\$350,000	\$350,000	\$780,000
City of Omaha	\$55,000	\$235,000	\$235,000	\$525,000
NDEQ (319)	\$47,500	\$122,500	\$25,000	\$195,000
Total	\$182,500	\$707,500	\$610,000	\$1,500,000

Environmental Acceptability Statement

A review of the EPA's NEPAAssist mapping tool did not show any EPA facilities or sites that are subject to environmental regulation in the project area. However, the Nebraska Department of Environmental Quality (NDEQ) has listed Thomas Creek on its 303(d) impaired waters list for Aquatic Life and identified it as a nonpoint source area of interest. The goals of this project are consistent with the goals set forth by the by EPA's 319 program and are expected to improve aquatic and riparian habitat, improve water quality and general stream health, reduce sediment load, and address nonpoint source pollution from surrounding properties. Monitoring, evaluation, and reporting will be conducted within the guidelines of the NDEQ's Nonpoint Source Management Program and best management practices will be followed.

Additional Sponsor Responsibilities

The City of Omaha Public Works Department will administer the engineering design contract. We will obtain all easements necessary to access and perform work within the private property on which this project will occur. We will comply with all local, state and federal laws and obtain any permits necessary for construction of this project. We also concur that the City shall hold and save the District free from damages or claims due to the design, construction, operation and maintenance of this project, as required from the subsequent agreement between the City and the District. The City also agrees to provide all future operation and maintenance of the channel and storm sewer at no cost to the District.

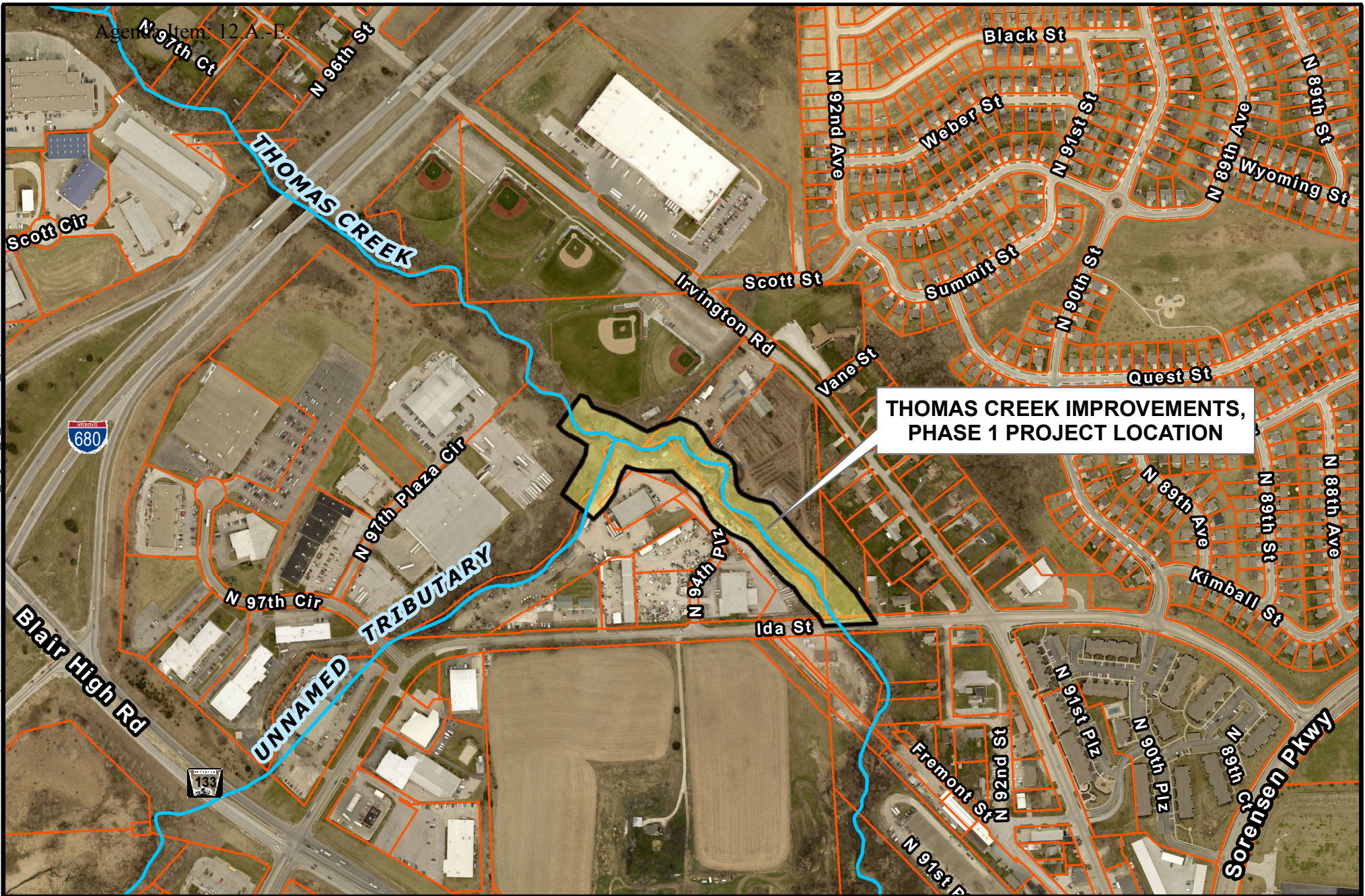
Thank you for your consideration – the City hopes that the District's Board of Directors and application reviewers look favorably on this project. Please feel free to contact me at (402) 444-3819 if you have any questions or require additional information for this grant request.

Sincerely,



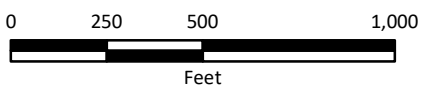
Adam Wilmes, P.E.
City Project Manager

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LEGEND

- Waterlines
- Parcels
- Thomas Creek Improvements, Phase 1 Location

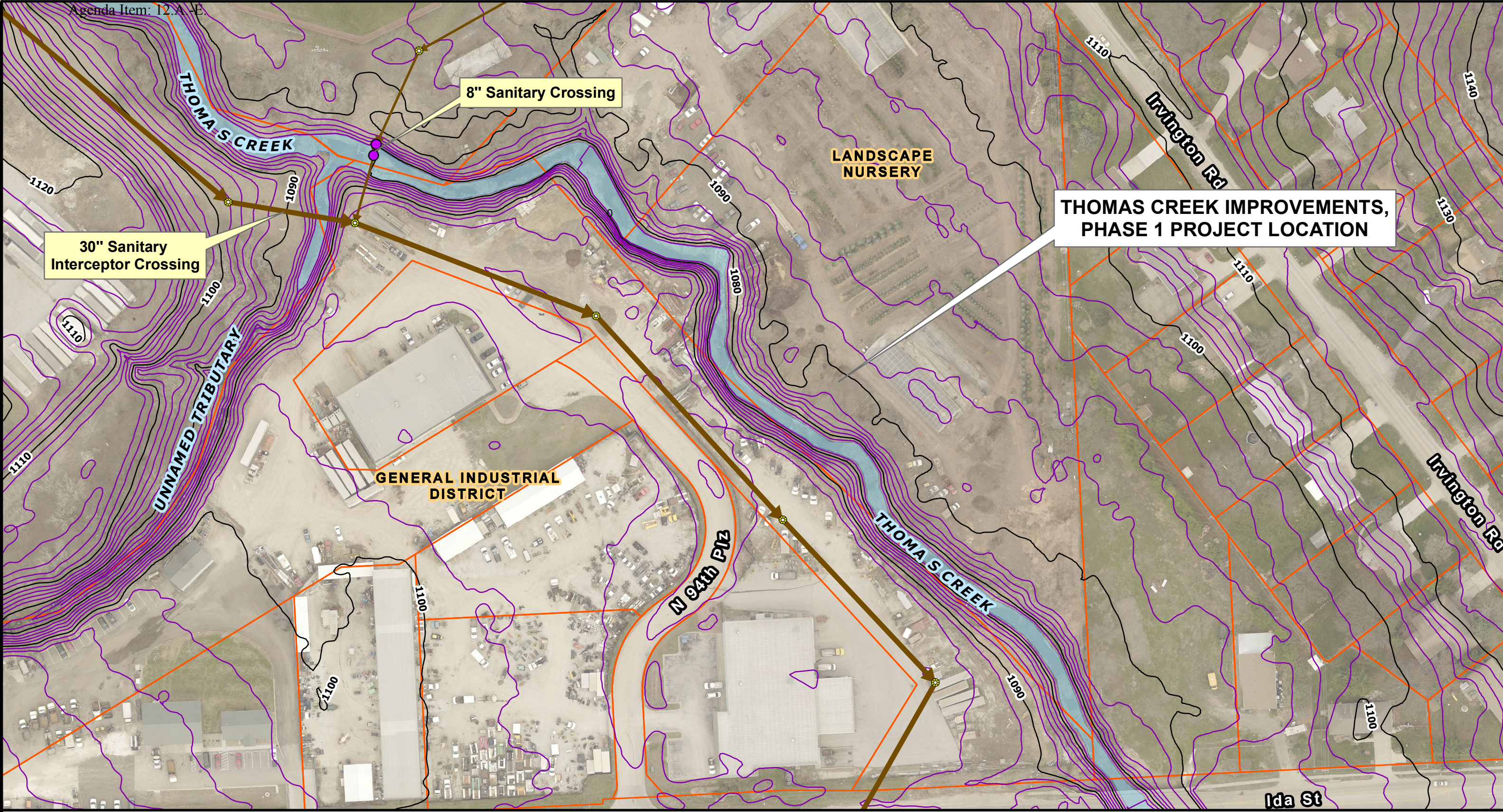


Source Imagery:
Douglas County 2016 Aerial Photography
Map Updated: 3/22/2018



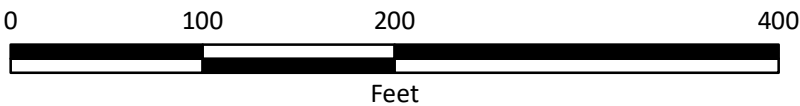
ATTACHMENT A: THOMAS CREEK IMPROVEMENTS, PHASE I - LOCATION MAP

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LEGEND
2010 Two-Foot Contours
— Index
— Intermediate

Parcels

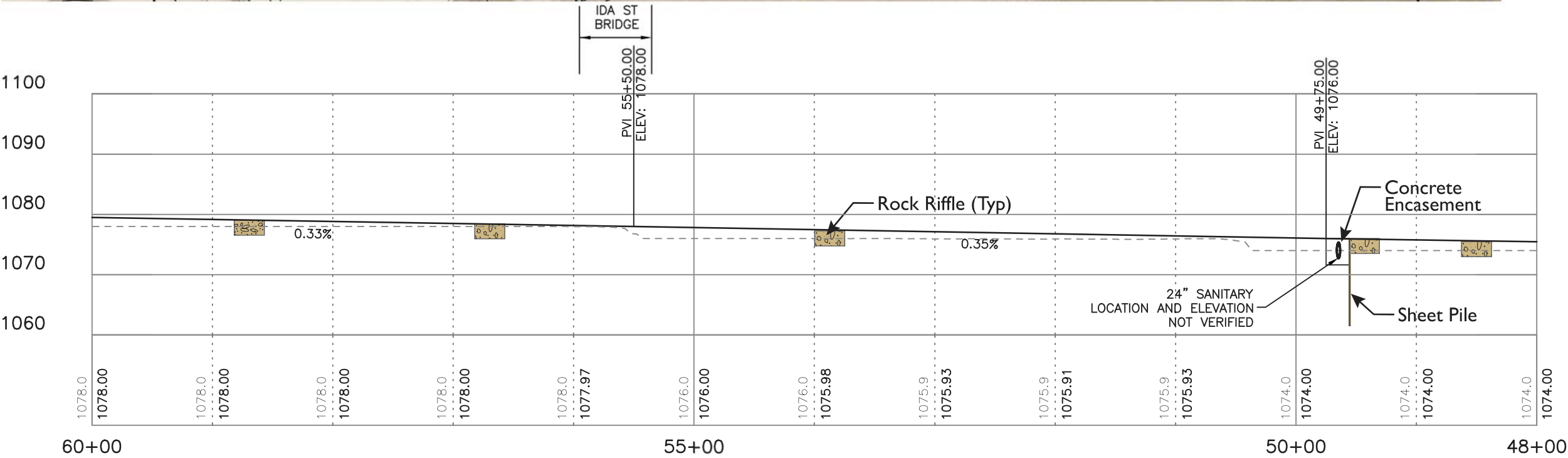
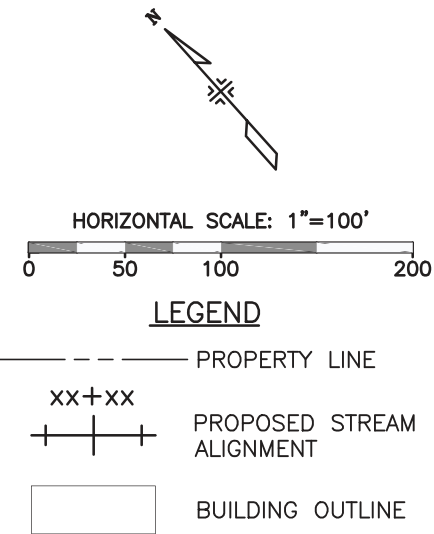
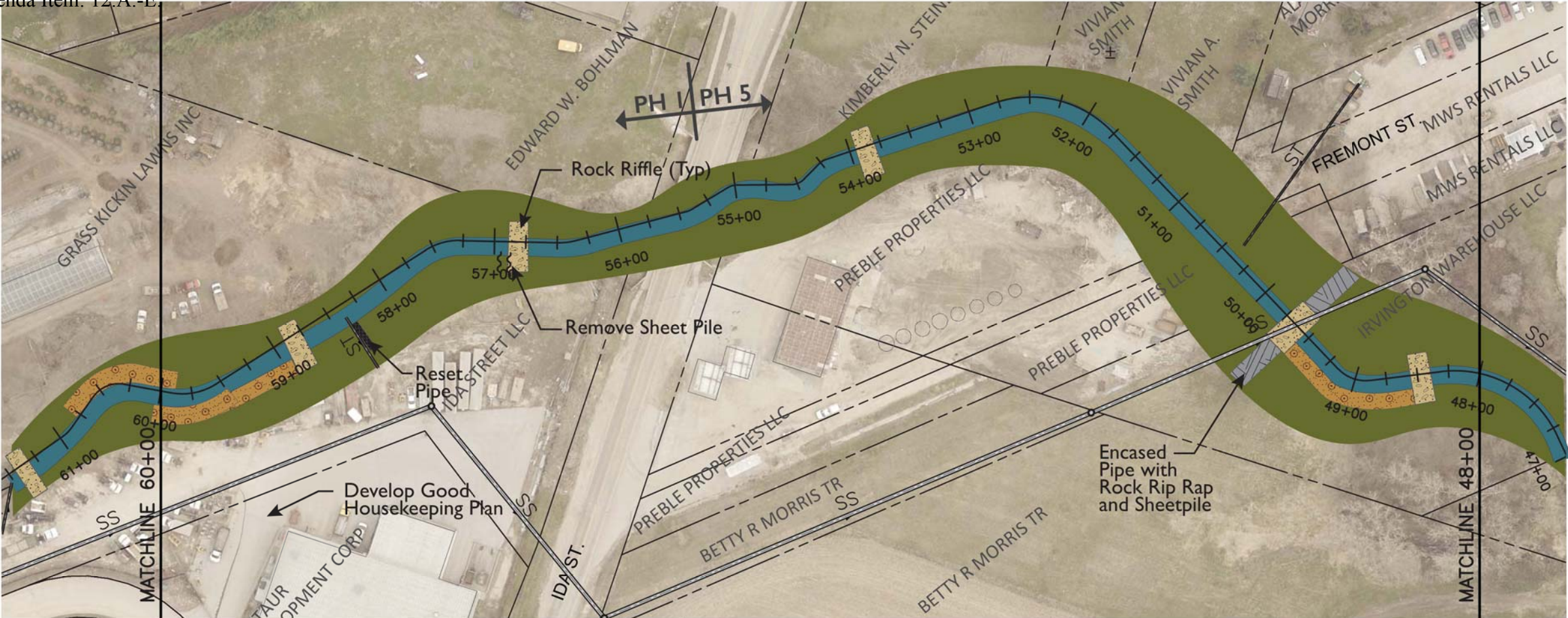


1:1,200

Source Imagery:
Douglas County 2016 Aerial Photography
Map Updated: 3/23/2018



ATTACHMENT B: THOMAS CREEK IMPROVEMENTS, PHASE I - 2010 LiDAR CONTOURS



NOTE: AERIAL IMAGERY (2016)
LIDAR CONTOURS (2010)

Print Date: 8/28/2017 4:14:29 PM
File Name: Proposed Concept PNP.dwg
Horizontal Scale: 1" = 100' Vertical Scale: 1" = 20'



11422 Miracle Hills Drive, Suite 115
Omaha, NE 68154
tel 402.445.4405
fax 402.445.4394



Sheet Revisions

Date	Comments	Initials



THOMAS CREEK IMPROVEMENTS
BLAIR HIGH ROAD TO I-80

As Constructed

No Revisions:
Revised:
Void:

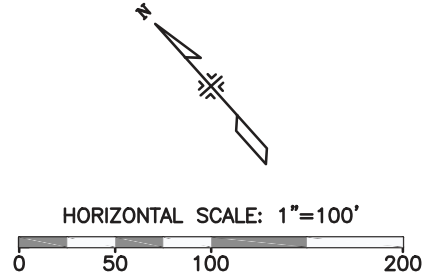
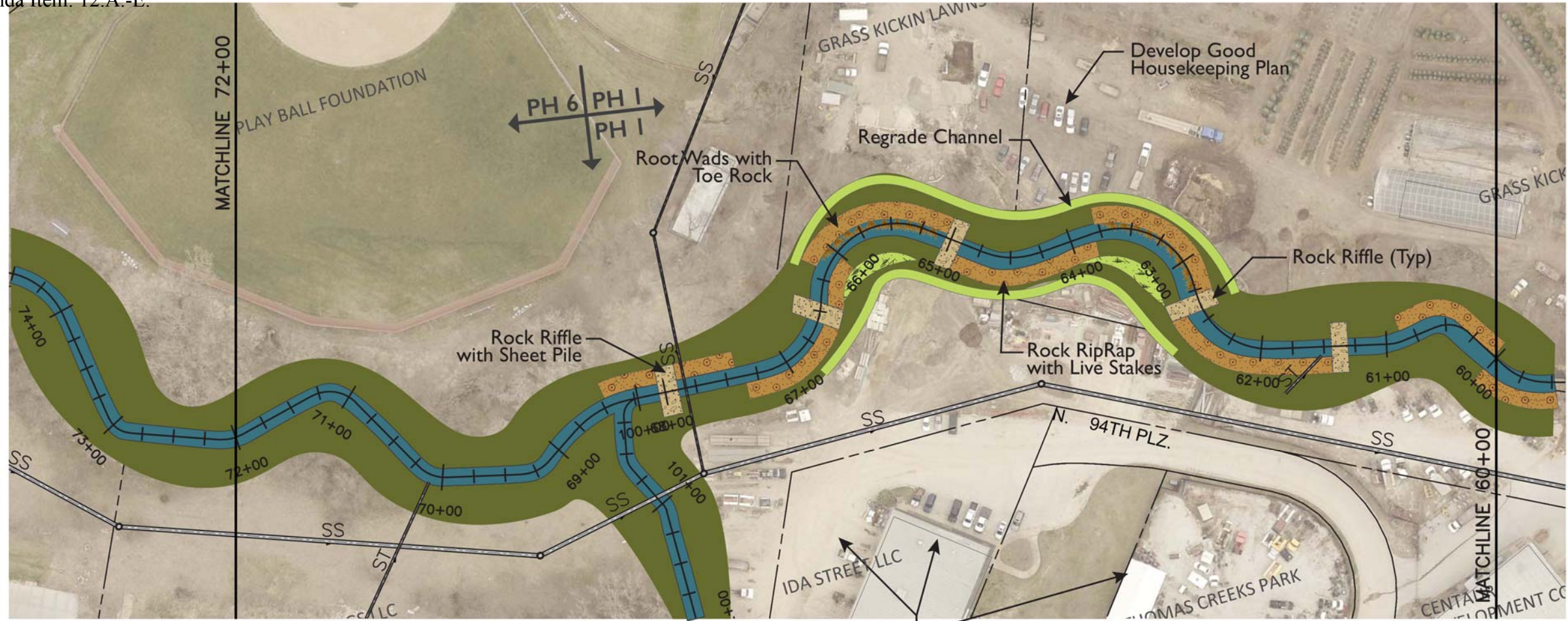
THOMAS CREEK IMPROVEMENTS
PROPOSED CONCEPT PLAN AND PROFILE
STA. 58+00 – STA. 70+00

Designer: DGL
Detailer: LEK
Subset:
Structure Numbers
Sheets: 5 of 10

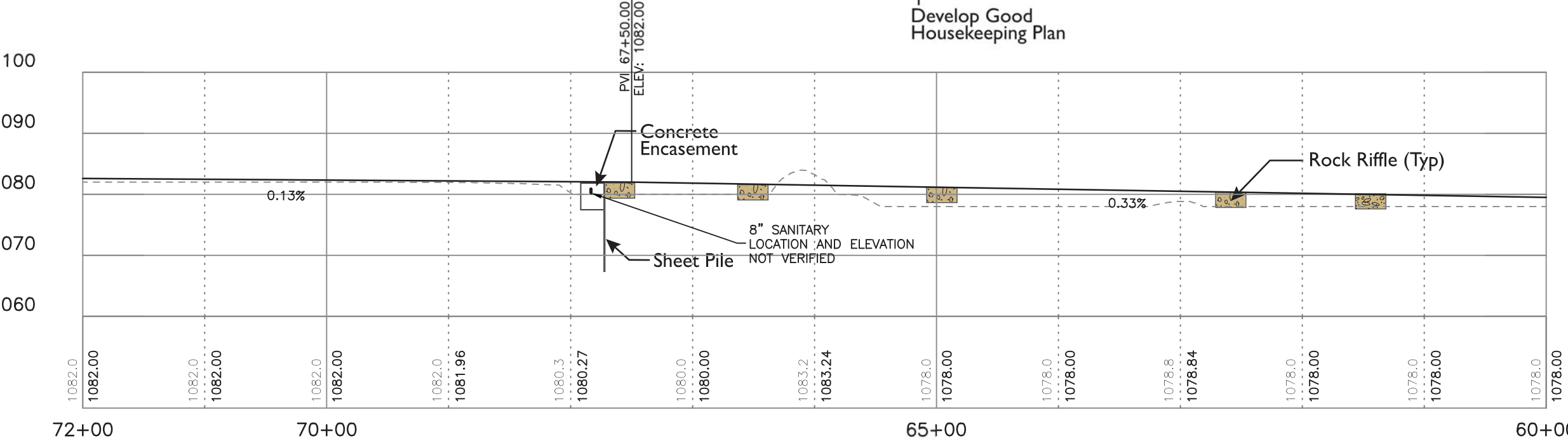
Project No./Code

17-190

Sheet Number 5



- LEGEND**
- PROPERTY LINE
 - xx+xx PROPOSED STREAM ALIGNMENT
 - BUILDING OUTLINE



NOTE: AERIAL IMAGERY (2016)
LIDAR CONTOURS (2010)

Print Date: 8/28/2017 4:15:41 PM
File Name: Proposed Concept PNP.dwg
Horizontal Scale: 1" = 100' Vertical Scale: 1" = 20'

**FELSBURG
HOLT &
ULLEVIG**

11422 Miracle Hills Drive, Suite 115
Omaha, NE 68154
tel 402.445.4405
fax 402.445.4394

Sheet Revisions		
Date	Comments	Initials

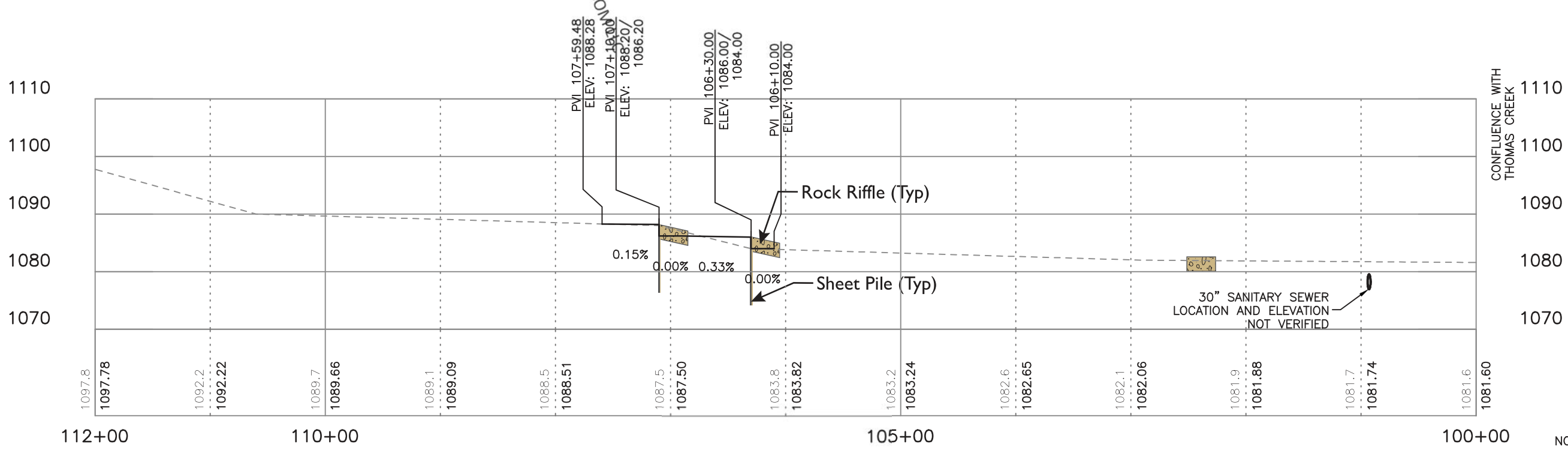
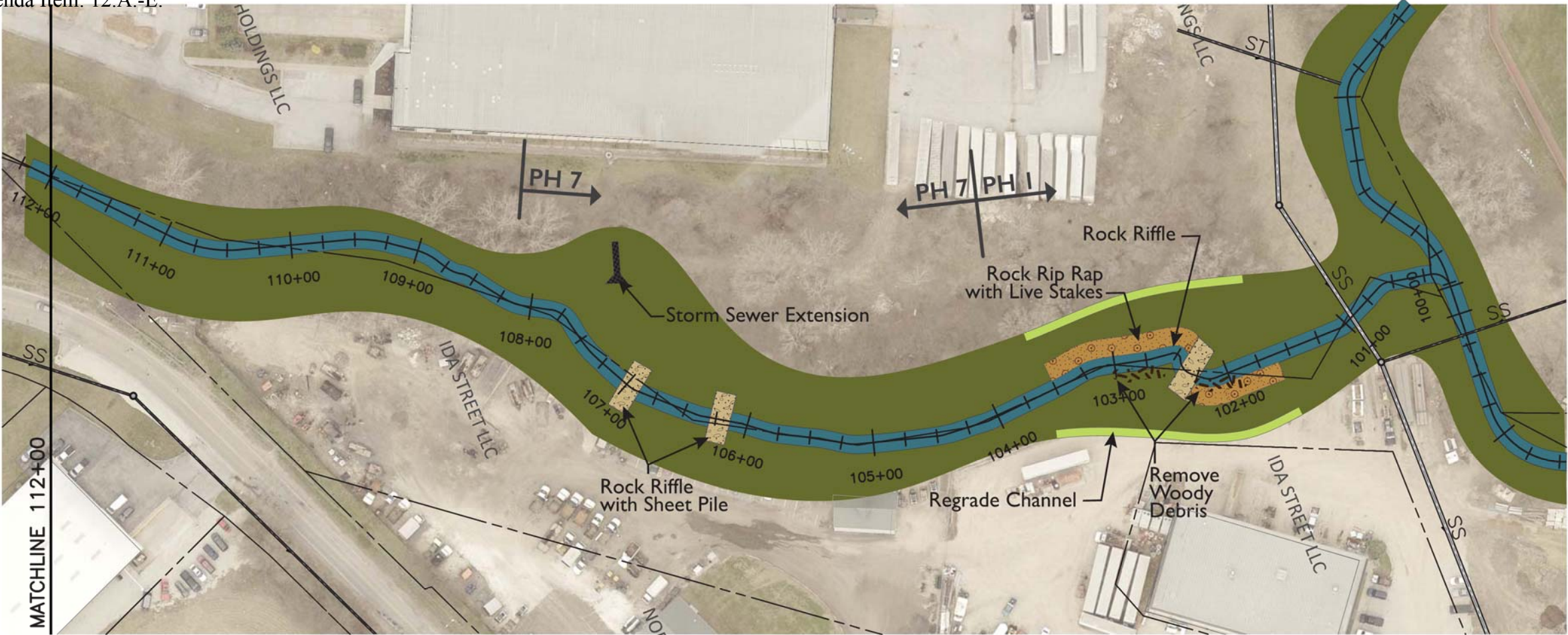


**THOMAS CREEK IMPROVEMENTS
BLAIR HIGH ROAD TO I-80**

As Constructed
No Revisions:
Revised:
Void:

THOMAS CREEK IMPROVEMENTS PROPOSED CONCEPT PLAN AND PROFILE STA. 70+00 – STA. 82+00	
Designer: DGL	Structure Numbers
Detailer: LEK	
Subset:	Sheets: 6 of 10

Project No./Code
17-190
Sheet Number 6



NOTE: AERIAL IMAGERY (2016)
LIDAR CONTOURS (2010)

Print Date: 8/28/2017 4:32:24 PM

File Name: Proposed Concept PNP-trib.dwg

Horizontal Scale: 1" = 100' Vertical Scale: 1" = 20'

11422 Miracle Hills Drive, Suite 115
Omaha, NE 68154
tel 402.445.4405
fax 402.445.4394

Sheet Revisions		
Date	Comments	Initials



THOMAS CREEK IMPROVEMENTS
BLAIR HIGH ROAD TO I-80

As Constructed
No Revisions:
Revised:
Void:

THOMAS CREEK IMPROVEMENTS PROPOSED CONCEPT PLAN AND PROFILE STA. 100+00 – STA. 112+00		
Designer: DGL	Structure Numbers	
Detailer: LEK		
Subset:	Sheets: 9 of 10	

Project No./Code
17-190
Sheet Number 9

Agenda Item: 12.A.-E.

PHASE 1

Assumptions/Comments:

Stream Segments 1F and 2A

Approximately 1400 LF from Ida Street to 100 LF upstream from sewer crossing at tributary + 400 LF of tributary

Estimate Updated from Original for Grant Applications

Bid Item Description		Approximate Quantity	Unit	Unit Price	Total
1 .	CLEARING AND GRUBBING	1	LS	\$5,000.00	\$5,000.00
2 .	FLOW MANAGEMENT	1	LS	\$32,000.00	\$32,000.00
3	CONSTRUCT CONSTRUCTION ENTRANCE	1	EA	\$2,000.00	\$2,000.00
4 .	CONSTRUCT AND REMOVE STRAW WATTLES	3,450	LF	\$5.00	\$17,250.00
5 .	EROSION CONTROL BLANKET (BIODEGRADABLE)	3,833	SY	\$3.50	\$13,416.67
6 .	NATIVE SEEDING	0.8	AC	\$4,000.00	\$3,168.04
7 .	LIVE STAKES	2,000	EA	\$50.00	\$100,000.00
8 .	EARTHWORK (HAUL OFF)	8,300	CY	\$20.00	\$166,000.00
9 .	TOE ROCK AND BANK PROTECTION	4,430	TN	\$60.00	\$265,800.00
10 .	ROCK RIFFLE RUNS	2,000	TN	\$60.00	\$120,000.00
11 .	CONSTRUCT ROOT WAD	13	EA	\$3,000.00	\$39,000.00
12 .	CONSTRUCT SHEET PILE	1,200	SF	\$50.00	\$60,000.00
CONTINGENCY - 30%					\$247,090.41
TEMPORARY EASEMENTS					4.0 AC \$2,000.00 \$8,000.00
PERMANENT EASEMENTS					4.0 AC \$5,000.00 \$20,000.00

Estimated Construction Costs: \$1,098,725.12

Estimated Soft Costs

Engineering Design and

27.00% **Construction Administration:** \$296,655.78

Sampling, Monitoring, Grant Administration, Good Housekeeping Plans, and Public Involvement \$166,000.00

Total Estimated Soft Costs: 42% \$462,655.78

Total Estimated Costs: \$1,561,380.91



December 7, 2017

Adam Wilmes
City of Omaha
1819 Farnam Street, Suite 600
Omaha, NE 68183

Dear Adam,

Thank you for submitting an application for funding under NDEQ's Nonpoint Source Management Program. This letter is to inform you that your proposal was accepted and recommended for the following level of funding by the review committee.

Thomas Creek Improvements - Phase I

Funding Requested: \$195,000

Funding Approved: \$195,000

Minimum Match Requirement for Approved Amount: \$130,000

Funding under this grant award is contingent upon your organization providing the match requirement outlined above and upon approval of both the 9-element Papio-Missouri River Basin Water Quality Management Plan (WQMP) and a Project Implementation Plan (PIP) by EPA. We will notify you when the Papio-Missouri River Basin WQMP is approved, at which point the PIP can be finalized and submitted for EPA approval. After PIP approval is received, a contract agreement between the City of Omaha and NDEQ will be generated and signed by both parties. No activities for this project or required match can be conducted or funded prior to the signing of the contract. Additionally, we reserve the right to rescind funding if a PIP is not finalized within one year of an acceptable 9-element plan completion.

After reviewing this letter, please confirm your intent to accept this award by e-mailing the Nonpoint Source Coordinator, Carla McCullough, at ndeq.nonpointsource@nebraska.gov.

Thanks again for your application.

Sincerely,

A handwritten signature in purple ink that reads "Marty Link".

Marty Link
Water Quality Division Administrator

cc: Papio-Missouri River NRD



Pete Ricketts, Governor

Mark A. Brohman, Executive Director

February 9, 2018

Adam Wilmes
Omaha, City of
1819 Farnam Street, Ste 600
Omaha, NE 68183-

RE: **18-209- Thomas Creek Improvements - Phase 1**

Dear Adam,

The Board of the Nebraska Environmental Trust met on Tuesday, February 6, and received a preliminary set of recommendations for funding in the 2018 grants cycle from the Grants Committee.

The Trust received more than \$42 million in funding requests, nearly 2.5 times the available funds. The board was faced with very difficult decisions, choosing among many excellent proposals. Even though your project was found eligible, we regret that your application was not among those recommended for funding in 2018.

Scores are identified in the Rating Results Sheet. The enclosed Rating Results Sheet indicates "optional" points for geographic location. These points are an optional tool for the board to utilize as necessary to ensure a more equal distribution of Trust funds across the state. This year projects located in or partially in District 6 received up to 20 points. All others received zero points for geographic location. The Rating Results Sheet also indicates "optional" points for Feature Program Bonus Points. Thirty-five (35) extra bonus points may be awarded to projects that meet all of the extra criteria outlined in the application package, which encourages large-scale collaborative projects with significant environmental impact.

The board is accepting written public comment on these recommendations through Wednesday April 4, 2018. Persons wishing to comment may do so by writing to our office, or may appear in person at a public hearing to be held at 1:30 p.m., on Thursday, April 5, 2018 at the Nebraska Environmental Trust Office, 700 South 16th Street, Lincoln, Nebraska. Following the public hearing the board will vote to award grants. The final approved funding list will be available on our web site after the April 5, 2018 Board meeting.

Thank you for your participation and interest in the Nebraska Environmental Trust Fund. The next application deadline is September 4, 2018 for awards to be made in the spring of 2019. Please feel free to contact us if we can provide further information, materials or assistance.

Sincerely,

Mark A. Brohman
Executive Director

MAB/mt

2018 Rating Results

Application # 18-209

Sponsor Name: Omaha, City of

Project Name: Thomas Creek Improvements - Phase 1

Ratings Statement	Points Available	Average Rating
Advances Trust Priorities	25	14.17
Sound Planning and Design	25	16.67
Direct Measurable Environmental Benefits	20	12.00
Cost-Effective	20	11.33
Duration of Benefits	15	10.50
Matching (non-state) resources (monetary & in-kind)	15	10.00
Prevents Contamination/Degradation of Resources	15	9.00
Many people or communities served	15	9.00
General public benefit	10	6.00
Public/Private Partnerships	10	5.67
Economic Impact	10	5.67
Evaluation Plan	10	5.33
Unique Need	5	2.83
Public Health	5	2.83
Innovation	5	2.83
Replication Potential	5	3.33
Individual or Local Initiative	5	2.83
Sub-Total		130.00
Feature Program Bonus Points (35 available)		
Geographic Distribution (20 points available in District 6)		0
Grand Total		130

Recommendation: We recommend not funding this application this year due to placement on the rank order list and availability of funds.



Signed: _____

Mark A. Brohman for Rod Christen, Grants Committee Chair



Urban Drainageway Program – Application Form

Project name City of Papillion - Tara Hills - Urban Drainageway Stabilization

Project location (attach location map) 215 Shillaelagh Blvd

Sponsor organization City of Papillion

Sponsor address 122 East 3rd Street

City Papillion State NE ZIP 68046

Contact person Jeff Thompson, P.E.

Title City Engineer, Public Works Director

Email address jeff@papillion.org Daytime phone 402-898-9092

Description of problem (attach additional sheets as needed)

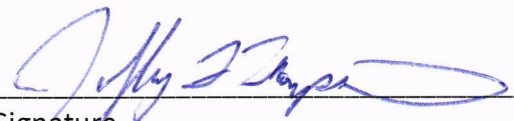
Conditions along the eastern side of the channel have degraded to a point where channel improvements are required for public safety and to protect utility/sanitary sewer easements. (Additional pgs.)

Proposed solution (attach additional sheets as needed)

Channel stabilization of 270 feet by removing debris, grading, retaining wall, geoweb, rip rap, sheet pile let down structure, erosion control mat, turf restoration, and tree planting. (Add. pages.)

Level of Design Level 1 ☐ Level 2 ☐ Level 3 ☒

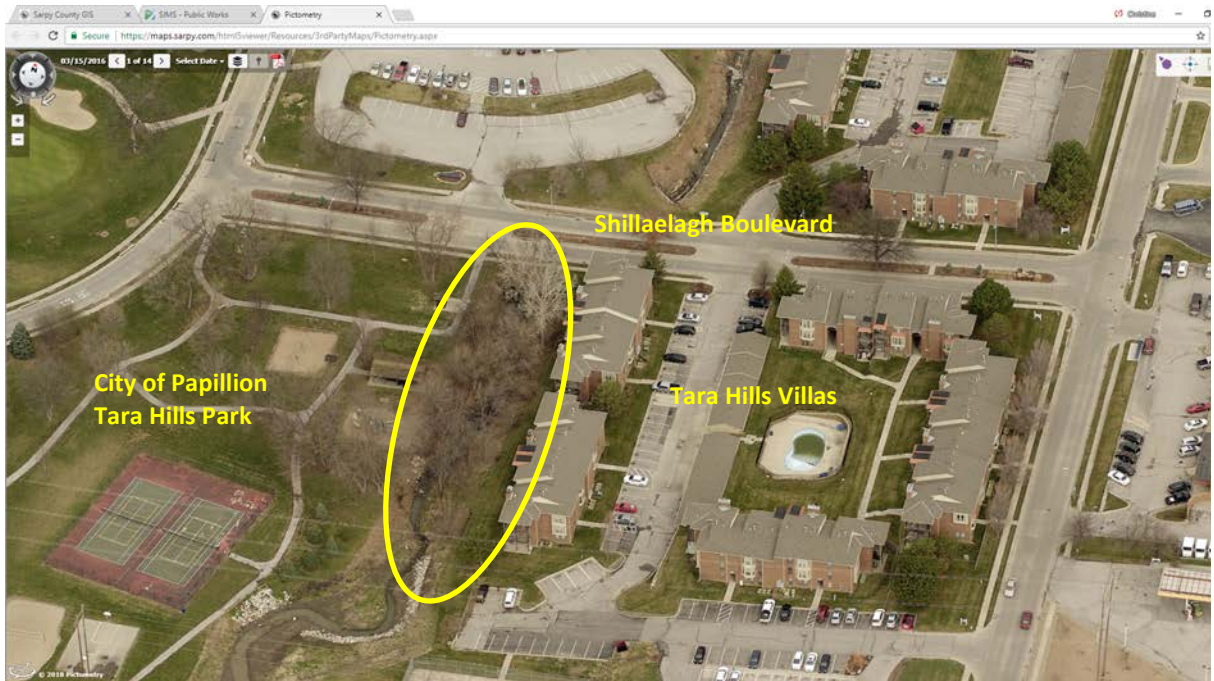
Total estimated cost \$ 301,000.00 Cost share request \$ 120,400.00


Signature

3/22/18
Date

City Engineer, Public Works Director
Title

LOCATION MAP



Aerial view looking north at project site.

EXISTING CONDITIONS

TD2 has previous project experience with the Tara Hills drainageway. TD2 designed the channel improvements directly upstream of Shillaelagh Boulevard in 2011 which included a combination of drop structures, gabion baskets, and slope stabilization. This proposed project continues improvements to the same channel beginning at the discharge headwall on the south side Shillaelagh Boulevard and continuing down the channel for approximately 270 feet.

The proposed channel improvement section is located south of Shillaelagh Boulevard in Papillion, Nebraska. Upstream and downstream channel improvements have already been made to the drainageway and the proposed project will complete improvements in the area. The remaining unimproved channel section is bounded by the Tara Hills Villas apartment complex to the east and the City of Papillion Tara Hills Park on the west. The property boundary on the east side of the drainageway runs in a straight line, aligned almost directly north-south, and includes utility and sanitary sewer easements centered on the property line. The centerline alignment of the initial 150-feet of channel downstream of the discharge headwall at Shillaelagh Boulevard varies from 16-feet to 21-feet from the eastern property boundary. At a point approximately 150-feet downstream of the discharge headwall the channel alignment bends to the west and then transitions to an alignment that is offset approximately 38-feet from the eastern property boundary. At a point approximately 270-feet downstream of the discharge headwall it connects into a previously improved channel section.

The channel receives direct storm water discharge at the Shillaelagh headwall from the upstream channel and from storm drain pipes routed to the wingwalls from east and west. In addition, a storm drain pipe from the Tara Hills Villas apartment complex discharges to the flowline of the creek near the midpoint of the proposed channel improvement section. Yard and park areas on the east and west sides of the channel sheet flow to the backslope of the channel and flow down the slopes to the creek.

The existing channel bottom is approximately 10-feet in width through the length of the project. Near the southern end of the project limits it narrows and matches into a previously improved section that has a bottom width that is five to seven feet wide. The channel section at the southern point of connection includes a wide flattened floodway section on the west side of the flow channel that is heavily vegetated. The unimproved channel section includes eroded channel banks and vegetated banks with significant tree growth. Trees bordering the channel have been affected by channel flows. Soil has been eroded from tree root balls bordering the channel and significant root masses are exposed. Two large trees have collapsed into the channel and have formed a dam approximately 100-feet downstream of the discharge headwall. This appears to have stabilized the upstream channel to a certain degree. A storm drain pipe from the apartment complex is located approximately 137-feet downstream of the discharge headwall. At this location, a scour hole has formed and eastern channel bank has been eroded to the point where it forms a vertical face that is approximately 7-feet in height that is sluffing and creating conditions that will continue to erode and degrade. See project photos for additional reference to channel conditions

Current conditions along the eastern boundary of the unimproved channel have now degraded to a point where channel improvements are required for public safety and to repair and protect the utility and sanitary sewer easement located along the property boundary.

For the channel itself, the severe erosion and degradation within the drainageway can be described as follows:

Steep slopes and eroded banks – Almost all areas of the unimproved drainageway section are greater than 3:1. Steep almost vertical slopes exist on both the east and west sides of the channel. Embankment heights in the steep sections of the channel range from 7 to 8-feet in height. The eastern bank includes a very active area of erosion directly downstream of the storm drain discharge from the apartment complex. Minor erosion within the normal flow channel occurs on the west side of the channel. On the west side of the channel, an 8-foot tall vertical embankment is located adjacent to the playground equipment area.

Undercut trees – Trees bordering the bottom of the channel have exposed root masses to varying degrees. Some trees have been totally undercut and have fallen into the channel. Trees will continue to be undercut and will fail at some point if no improvements are made to the drainageway.

Headwall – Areas bordering the wing walls are in need of repair. The east side embankment at the end of the wingwall has sluffed into the channel at some time and includes concrete debris that has since stabilized. The area behind the west wingwall is actively eroding. The gabion at the toe of the western wingwall has totally failed and no longer includes any rip rap. All rip rap has been washed into the channel and downstream.

Scour hole – Two scour holes exist where storm pipes directly impact the channel. The area downstream of the headwall and apron at Shillaelagh Boulevard is fairly shallow and stable. Energy dissipation structures in the apron appear to be working. A second scour hole has formed at the discharge point where the storm drain from the apartments discharges to the channel.

Stormwater discharge – coming from apartments.

Existing sanitary sewer main/easement - An existing sanitary sewer main runs along the eastern property boundary. The sanitary sewer includes a 20-foot wide easement centered on the property line. Channel improvements must provide for access and future maintenance of the sanitary sewer.

The photos on the following pages illustrate the existing conditions of the channel.

PHOTOS



Photo: P1. View from headwall apron looking downstream (south).

Description - In the photo, private property is to the left and public property to the right. Vertical embankment sections at the edge of the channel indicate the extent of normal flow conditions and actively impacted areas.



Photo: P2. Shillaelagh Headwall; West Wingwall.

Description – Existing gabion installation has failed and embankment eroding.



Photo: P3. Shillaelagh Headwall; East Wingwall.

Description – Broken concrete slabs used for slope protection have fallen or sluffed into the channel beyond the end of the headwall apron.



Photo: P4. – Channel upstream of natural drop.

Description – View looking south at a debris dam that has formed upstream of the storm drain outlet from the Tara Hills Villas Apartments.



Photo: P5. – Eroded vertical creek bank.

Description - View looking NE at the steep vertical slope downstream of 18" RCP. Outfall storm pipe visible at toe of slope. Portion of debris dam upstream of the 18" RCP is visible beyond the pipe.



Photo: P6. 18" RCP outlet from apartments.

Description – The pipe discharges directly into the channel bottom. Impacts a very large tree root mass on the opposite side of the channel. Pipe is located directly downstream of a debris dam created by collapsed trees.



Photo: P7. Steep vertical slopes.

Description – Looking north at steep embankment and existing rip rap adjacent to park playground equipment. Partial wood rail fence visible in the photo forms the boundary of the City Park.

PROPOSED IMPROVEMENTS

The proposed improvements for this project are designed to repair eroded channel sections and banks, prevent further degradation to the channel and its side slopes, and create a sustainable channel grade and section. The channel alignment and section will maintain clearance from the existing utility easements and property line along the eastern boundary. Grades along the existing utility easement will be set to provide for maintenance accessibility. The 3:1 channel embankment is proposed along the western bank. The 3:1 slope will impact existing City Park improvements that are located within or adjacent to the limits of the proposed 3:1 slope. Park improvements will be removed and replaced as needed as part of the project.

The following activities, methods, products, and/or materials will be included as part of the project:

- Removal of existing trees, debris, and park improvements.
- Channel bank grading.
- Wall construction along the eastern edge of the channel. The gravity wall section is intended in the normal flow area of the channel to provide for long term protection against erosion. Design intent to eliminate erosion potential, maintain separation from the easements running along the eastern property boundary, and to ensure accessible grades in the easement areas.
- Geoweb wall construction where needed to establish a vegetated steep channel slope above the gravity wall section.
- Placement of rip rap for channel protection and energy dissipation at two areas subject to discharge from storm drain pipes and concentrated drainage impacts.
- Sheet pile let down structure to maintain stable existing stream channel upstream of a natural debris dam.
- Erosion control matting.
- Turf and vegetation restoration.
- Tree planting.
- Park improvements to replace items impacted by channel modifications.

COST ESTIMATE

Item	Description	Approximate Quantities		Unit Price	Amount
1	Mobilization	1	LS	\$10,000.00	\$10,000.00
2	Stabilized Construction Entrance	1	EA	\$3,000.00	\$3,000.00
3	Clear & grub channel section	1	LS	\$50,000.00	\$50,000.00
4	Remove & dispose of park shelter	1	LS	\$5,000.00	\$5,000.00
5	Remove & Salvage Playground Equipment	1	LS	\$10,000.00	\$10,000.00
6	Remove & dispose of playground appurt.	1	LS	\$1,500.00	\$1,500.00
7	Remove & Salvage Park Bench	1	EA.	\$250.00	\$250.00
8	Remove & Dispose of Grill	1	EA	\$200.00	\$200.00
9	Remove & Dispose of Asphalt Sidewalk	80	SY	\$20.00	\$1,600.00
10	Remove & Dispose of Concrete Pavement	120	SY	\$20.00	\$2,400.00
11	Remove & Dispose of 18" RCP	8	LF	\$15.00	\$120.00
12	Remove & Dispose of wood split rail fence	30	LF	\$3.00	\$90.00
13	Strip, stockpile & redistribute topsoil	200	CY	\$10.00	\$2,000.00
14	Channel Grading - Cut	450	CY	\$10.00	\$4,500.00
15	Gravity Retaining Wall	1,600	SF	\$35.00	\$56,000.00
16	Geoweb Retaining Wall	700	SF	\$25.00	\$17,500.00
17	48" H Chain Link Fence, in place	40	LF	\$55.00	\$2,200.00
18	24" Nyloplast Drainage Structure, in place	1	EA	\$2,000.00	\$2,000.00
19	18" CMP	40	LF	\$30.00	\$1,200.00
20	Pile Bent (Steel H-Pile), In Place	2	EA	\$6,000.00	\$12,000.00
21	Sheet Piling / Drop-Structure (20' Deep)	50	LF	\$350.00	\$17,500.00
22	Rip Rap - Type "B", In Place	240	TON	\$55.00	\$13,200.00
23	5" Concrete Sidewalk	61	SY	\$40.00	\$2,440.00
24	K-31 Fescue Seeding (Slope Stabilization)	0.25	AC	\$3,000.00	\$750.00
25	City of Omaha Type "A" Seeding	0.25	AC	\$3,000.00	\$750.00
26	Erosion Control Matting, In Place	1,200	SY	\$2.00	\$2,400.00
27	Silt Fence, in place	500	LF	\$3.00	\$1,500.00
28	Blue Spruce: 6-Ft Height, 3-Yr. Warranty	10	EA	\$500.00	\$5,000.00
29	2" Caliper Trees, in place	4	EA	\$350.00	\$1,400.00
30	Water Seeded Areas	15	Days	\$100.00	\$1,500.00
SUBTOTAL					\$228,000.00
10% CONTINGENCY					\$22,800.00
ESTIMATED CONSTRUCTION COST					\$250,800.00
ESTIMATED ENGINEERING, PERMITTING, SURVEY AND CONSTRUCTION OBSERVATION COSTS (20%)					\$50,200.00
TOTAL ESTIMATED COST					\$301,000.00

ENVIRONMENTAL ACCEPTABILITY STATEMENT

Intended Outcome

The project is limited to a short section of existing channel, approximately 270 feet in length, located between sections of the existing drainageway which have already been improved and stabilized. The proposed improvements for this project are designed to repair eroded channel banks and create stable, maintainable creek embankments. The improvements will maintain the channel section and grade as closely as possible. The east embankment will be constructed with a short wall section of large block gravity wall topped with a short section of geoweb vegetated wall to maintain clearance from the adjacent utility easements and property boundary on that respective side. A 3:1 vegetated slope is proposed on the west side to provide a stable channel embankment and provide additional open flow space to convey runoff through the drainageway.

Environmental Impact

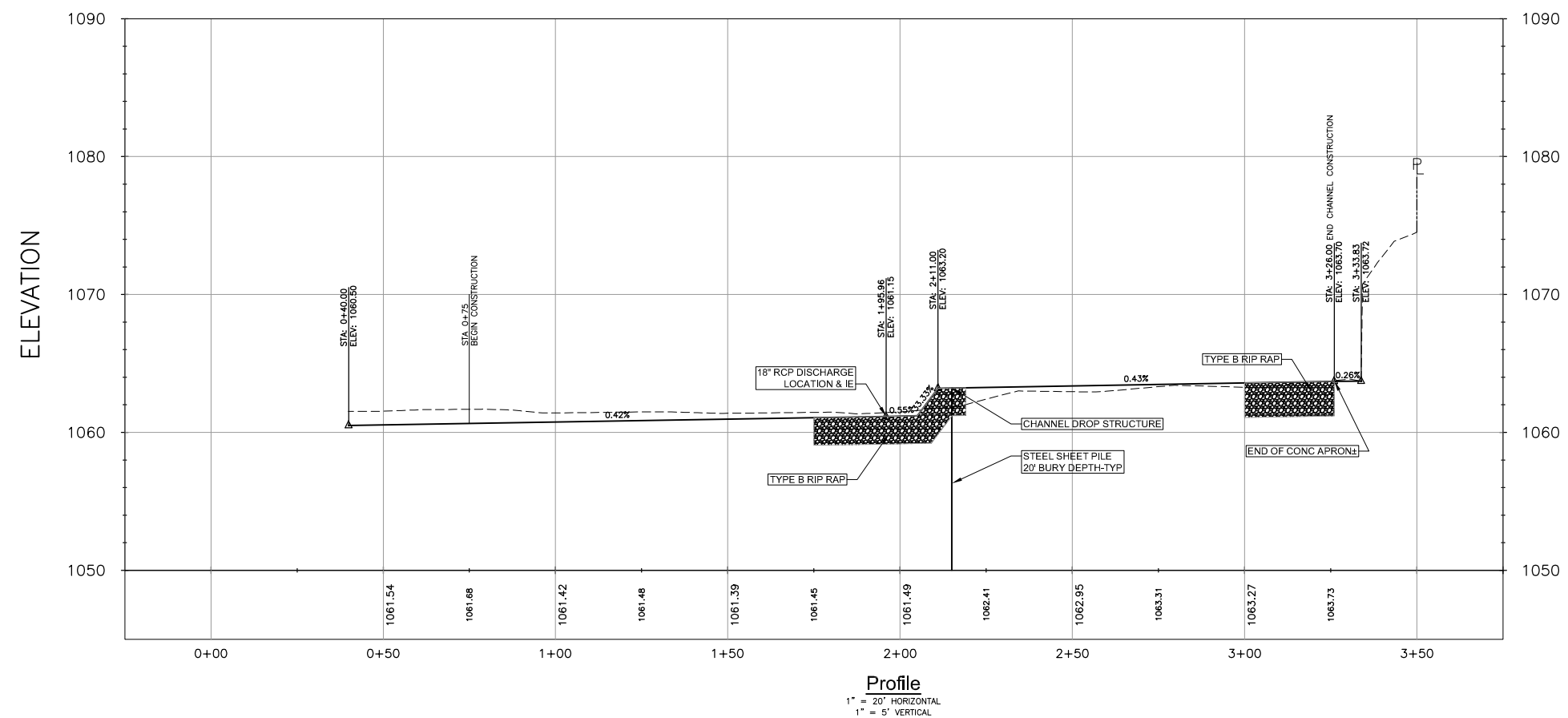
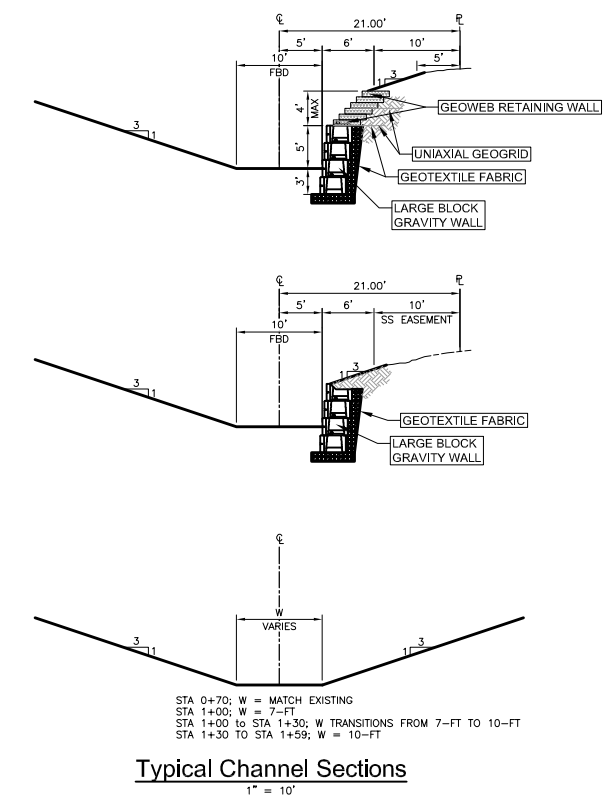
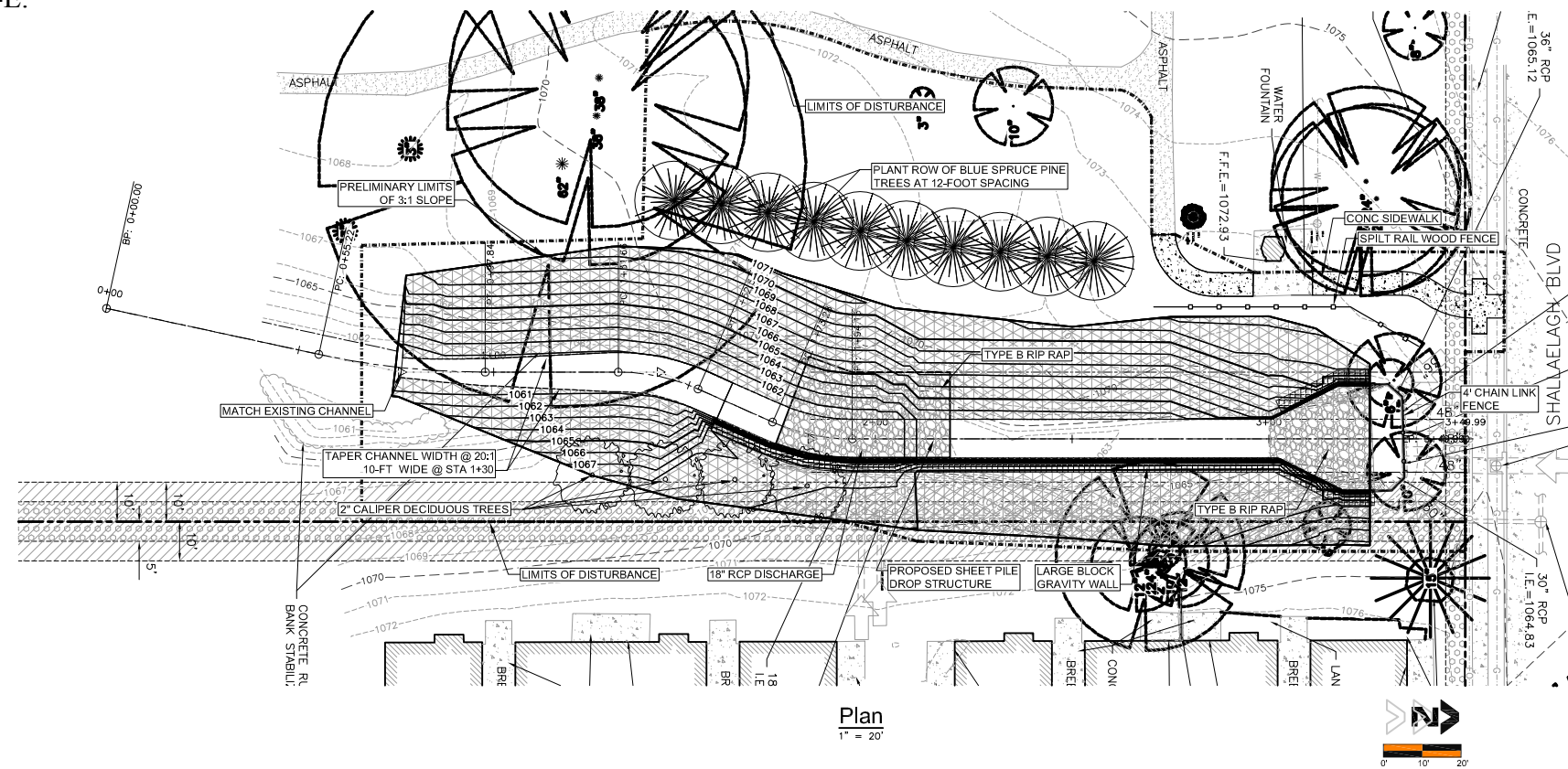
The proposed project is expected to improve water quality along the length of the project via protection of stream banks and establishment of vegetated maintainable slopes. There are no adverse impacts expected or any sensitive environmental features.

Enhanced Habitat

Undercut trees and trees that have fallen in the channel will be removed. The park area adjacent to the channel will be cleared and landscaped. A row of Blue Spruce trees will be planted at a spacing of 12 feet on the west side creating a buffer between the park and the channel. Deciduous trees will be replanted on the east embankment where they will not impact utilities or utility accessibility in the future. K-31 fescue will be used for stabilization of the channel embankments. City of Omaha Type "A" seeding will be planted in park or private property yard areas that are disturbed by proposed improvements.

USACE 404 permit, grading permit

Applicable regulatory permits will be filed and construction will comply with all regulatory requirements.



thompson, dreessen & dorner, inc.
10836 Old Mill Rd
Omaha, NE 68154
p.402.330.8860 www.td2co.com

Project Name

Tara Hills Drainageway Improvements

Client Name

City of Papillion

Professional Seal

Revision Dates

[illegible]

Drawn By:RDM Reviewed By: RXX
Job No.:0181-617 Date: XX-XX-XX

Sheet Title

Plan & Profile (Schematic Design)

Sheet Number

netcall.com
Nebraska 811
Know what's below.
Call before you dig.

C4.0



Recreation Area Development Program – Application Form

Project name California Walking Trail

Project location (attach location map) _____

Sponsor organization City of Blair, Nebraska

Sponsor address 218 South 16th Street

City Blair State NE ZIP 68008

Contact person Al Schoemaker


Title Director of Public Works

Email address ARS@blairnebraska.org Daytime phone 402-426-4191

Description of project (attach additional sheets as needed)

Blair is planning on constructing a 10 feet wide by 7500 feet long rock walking trail extending from the east end of Lincoln Trail at the Missouri River north into the California Bend Area.

Total estimated cost \$ 26,000 Cost share request \$ 13,000



Signature

March 5, 2018

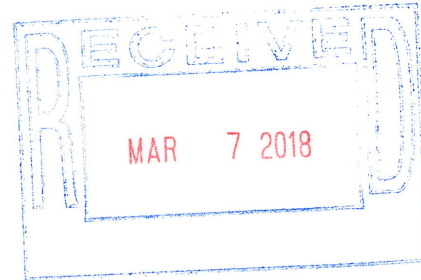
Date

Director of Public Works

Title



CITY OF BLAIR



March 5, 2018

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

RE: Trail Connectors Funding Application

Dear Eric:

Enclosed is a funding application under the Recreation Area Development Program for second half the cost of constructing a rock walking trail from the eastern end of the Blair Lincoln Trail at the Missouri River edge north for a total of 7500 lineal feet into the California Bend area.

We were planning on constructing the second phase of this project summer of 2018 but I made a mistake and constructed both phases of the project summer 2017. We were planning on submitting another funding request for the second phase of the project, so the reason for this funding request at this time. The work is complete and the City of Blair spent \$50,000 for the project to date.

This new trail has been very much appreciated by the public with many positive comments from the public on the development of the new trail. The City of Blair respectfully requests consideration of this application even with my error. If there are any questions, please do not hesitate to call me at 402-426-4191.

Sincerely,

Allen Schoemaker
Public Works Director





Recreation Area Development Program – Application Form

Project name Beck Park – Electrical Upgrade

Project location (attach location map) Beck Memorial Park (lower level)

Sponsor organization Village of Decatur

Sponsor address PO Box 156

City Decatur State NE ZIP 68020

Contact person Ann Chytka

Title Village Clerk

Email address decaturclerk@mntc.net Daytime phone 402-349-5360

Description of project (attach additional sheets as needed)

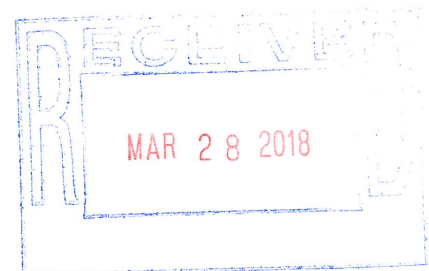
Due to the increase of larger RV's using the park we find that we are needing to
upgrade our electric sites to 50 amps to accommodate the larger RV's

Total estimated cost \$ 40,000.00 Cost share request \$ 20,000.00

Ann Chytka
Signature

3-22-18
Date

Village Clerk
Title





BECK PARK 1 AND 6-YEAR PLAN 2017-2018

1-year plan

- Increase campsite rates
- Update Rules and Regulations
- Finish storm shelter
- Upgrade electrical sites to 50 amps
- Add 1 additional site at bottom

6-year plan

- Install water and sewer at Busse Addition sites
- Pave or blacktop the pads
- Repair / resurface existing roads (also in 1 and 6-year road plan)

Continue to maintain the Park with regular maintenance at the shelters and bathhouses.

May want to put mulch around all the small trees to help with weed eating.

To accomplish what is on the list we will continue to look for grants to help pay for the upgrades that we are wishing to complete.



Recreation Area Development Program – Application Form

Project name Playground Equipment Install

Project location (attach location map) Village of Herman Park

Sponsor organization Village of Herman

Sponsor address 504 Main St, P. O. Box 196

City Herman State NE ZIP 68029

Contact person Vicky Kellogg

Title Village Clerk

Email address villageofherman@gpcom.net Daytime phone 402-456-7500

Description of project (attach additional sheets as needed)

See attached.

Total estimated cost \$ 10,000.00 Cost share request \$ 5,000.00


Signature

3-27-18

Date

Village Clerk

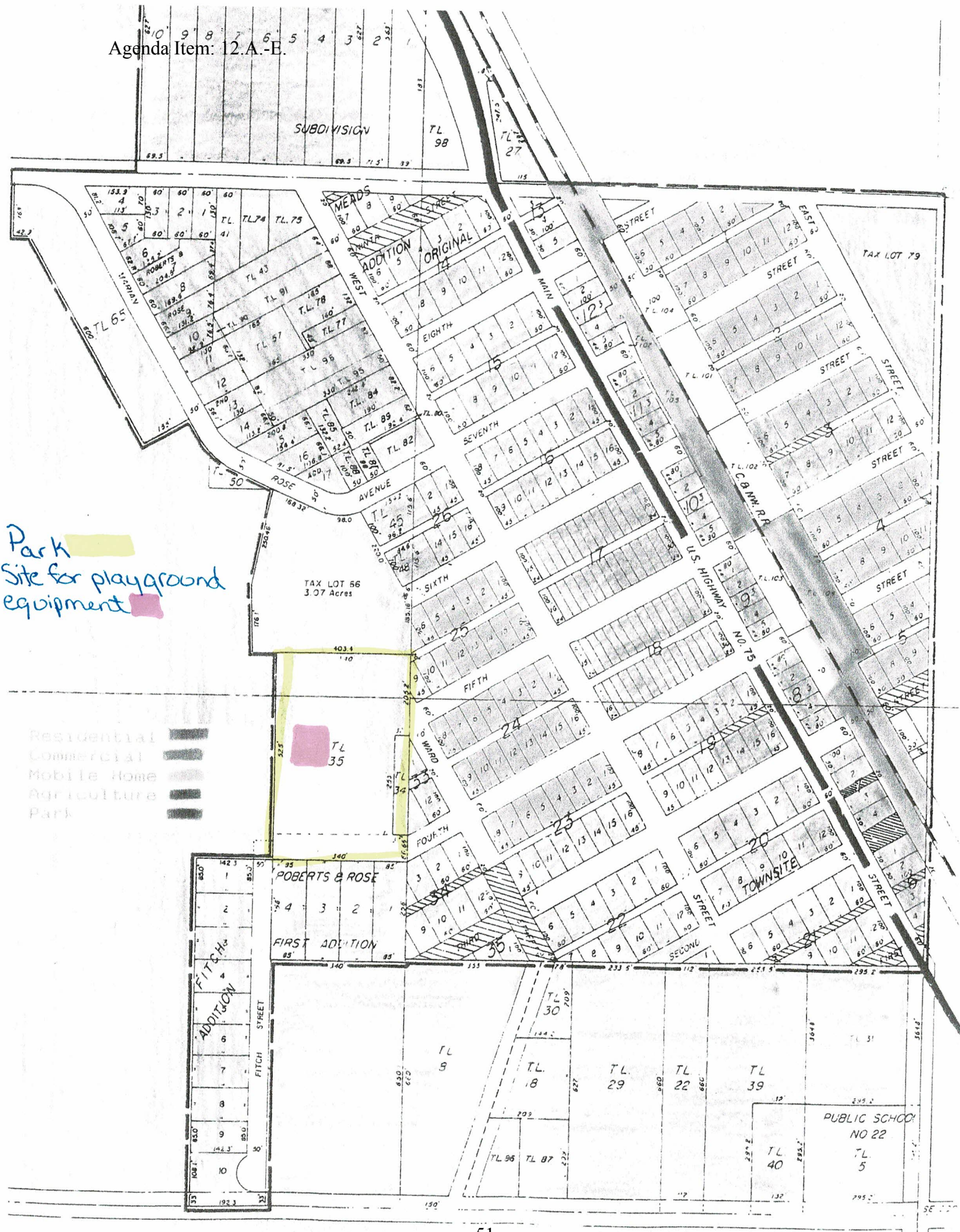
Title

The Village of Herman is requesting a grant of \$5,000 to reconstruct playground equipment at the village park. The equipment was donated by the Herman Elementary School after the school closing. The village has received a bid of \$10,000 to install the equipment at the park from Krouch Recreation, which is the company the equipment was originally purchased from. Last fall, volunteers dismantled the equipment and carefully labeled all parts to aid in the reconstruction. For safety and liability reasons the board feels it necessary to have the equipment put back together by professionals. There are several dirt contractors that have volunteered to prep the area where the equipment will be placed. The Herman Boosters looked into purchasing new equipment for the park and the cost of a similar unit was over \$100,000. They simply do not have the ability to raise enough money to purchase new.

Attached is a village map, the park is located at 4th & Ward Streets in tax lot 35. It is equipped with a picnic shelter, basketball court, a sand volleyball court, a ball field, a wooden play structure, a swing set, a slide and a few other various pieces of play equipment. In 2013, a new concession stand with attached restrooms was constructed thanks to a grant from the NRD and a donation from Hearts for Herman. The equipment will be installed just to the south of the sand volley court. The park is included the 2008 comprehensive plan under recreational facilities. The planning commission recently reviewed this plan and did not feel any changes were needed so JEO Consulting Group did not feel it necessary to update the plan at this time.

The village's budget is very tight as we are a community of just 268 residents. The village board feels this equipment would be a great asset for our local kids and visitors to the park. Donations from the Herman Boosters, Hearts for Herman and generous residents will make up the local match of this grant. The project would be scheduled to start as soon as funding is secured. The goal is to have the equipment installed by September 8, 2018 which is the start of our local celebration, Herman Days.

Thank you for your consideration in this project.





Recreation Area Development Program – Application Form

Project name Baseball Field Upgrades

Project location (attach location map) _____

Sponsor organization Village of Homer

Sponsor address _____

City Homer State NE ZIP 68030

Contact person Carrie Rohde Vanschoiack

Title Volunteer & Coach

Email address CarrieVan22@gmail.com Daytime phone 402-239-6859

Description of project (attach additional sheets as needed)

Removal and reconstruction of concrete path, removal and
replacement of roof over the grand stands and benches, and baseball
field upgrades.

Total estimated cost \$ 45,361 Cost share request \$ 22,681

Carrie Vanschoiack
Signature 3/23/2018
Date

Volunteer & Coach
Title



Agenda Item: 12.A.-E.

TR HARRIS CONSTRUCTION INC
102 Robert St
PO Box 129
Homer Nebraska 68030
BT Harris33@gmail.com
Blake Harris 712-223-4400

BID DATE: Homer Ball Field

ITEM NO.

- 1 Remove Concrete
- 2 5' walk path 5" thick concrete
- 3

<u>UNIT</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOT. COST</u>		
SF	400	\$ 2.00	\$ 800.00		
SF	1100	\$ 8.00	\$ 8,800.00		
		\$7,000.00		\$ 9,600.00	0

Barclay Construction

712-259-6969

514 John St.

Homer, NE

Estimate

Date	Estimate #
2/27/2018	1

Name / Address
Homer Sports

Item	Description	Qty	Rate	Total
Labor	Cost of Labor to remove the old roof over the grand stands at the baseball field and install a new one		4,125.00	4,125.00
Material	Cost of material for the new roof and wall		9,001.00	9,001.00
	<i>Also Remove Old Bench Tops and Install New Tops</i>			
We look forward to working with you!!!!		Total		
		\$13,126.00		

Odeys Inc.

911 S. 20th Street
Omaha, NE. 68108
402-505-0961
402-597-6296

Estimate

DATE	ESTIMATE NO.
3/27/2018	6949

NAME / ADDRESS
Village of Homer Aaron Reis

				PROJECT
DESCRIPTION	QTY	U/M	COST	TOTAL
Survey and/or Staking			1,500.00	1,500.00T
Field Layout			600.00	600.00T
Mobilization To and From Job Site (Massy)	1		1,500.00	1,500.00T
Mobilization To and From Job Site (Tractors/ Topdressor etc)	4		400.00	1,600.00T
Grading	1		1,600.00	1,600.00T
Odeys Infield Conditioner (Incorporated)	9		558.00333	5,022.03T
Installation	9		275.00	2,475.00T
Odeys Infield Conditioner (Used as Topdressing)	4		558.0025	2,232.01T
Installation	4		275.00	1,100.00T
Odeys Mound Clay	1		598.00	598.00T
Installation	1		550.00	550.00T
Shipping / Handling	1		450.00	450.00
Standard Drive-In 1-1/2" Base Anchor	12		21.95	263.40T
Installation	12		40.00	480.00T
Schutt Bury-All Rubber Home Plate	1		79.95	79.95T

SIGNATURE

	TOTAL
--	--------------

Web Site
www.odeys.com

Odeys Inc.

911 S. 20th Street
Omaha, NE. 68108
402-505-0961
402-597-6296

Estimate

DATE	ESTIMATE NO.
3/27/2018	6949

NAME / ADDRESS
Village of Homer Aaron Reis

				PROJECT
DESCRIPTION	QTY	U/M	COST	TOTAL
Installation	1		90.00	90.00T
Schutt 4-Way Pitching Rubber- Regulation 6"x24"	1		79.95	79.95T
Installation			90.00	90.00T
Hollywood Impact Double First Base Set w/o Anchors	1		324.95	324.95T
Contingency	1		2,000.00	2,000.00T
Customer to supply soil and a forklift that can lift 1 ton Out-of-state sale, exempt from sales tax			0.00%	0.00

SIGNATURE _____

	TOTAL	\$22,635.29
--	--------------	-------------

Estimates valid for (30) days. Unless otherwise noted.
There will be a 3.5% additional fee when paying with a Credit Card.
Thank you for your understanding.

Web Site
www.odeys.com



Recreation Area Development Program – Application Form

Project name Tara Hills Park Shelter and Playground Renovation-relocation

Project location (attach location map) 215 Shillaelagh Blvd. Papillion, NE.

Sponsor organization City of Papillion, Nebraska

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)

see attached description of project.

Total estimated cost \$ 159,000.00

Cost share request \$ 50,000.00

Signature 

3/23/2018
Date

Parks and Facilities Director
Title

TARA HILLS PARK SHELTER AND PLAYGROUND RENOVATION

In conjunction with the Tara Hills Park Urban Drainageway Stabilization that is proposed on the east side of Tara Hills Park (215 Shillaelagh Blvd.), the existing shelter and playground, located inside the limits of construction of the drainageway project, will need to be removed. A new shelter and playground will then be located in a more central location within Tara Hills Park.

The City of Papillion proposes installing a new 40' x 20' steel shelter, equipped with electrical outlets, 8 new recycled plastic picnic tables, a new concrete pad and 2 new commercial grade park grills. The City also proposes installing a new 60' x 30' playground area complete with rubber safety tiles as a base, a new climbing apparatus and new child swings.

The total estimated cost of the project is \$159,000.00. The City of Papillion will be performing the demolition and removal of the old shelter and playground, due to their age and poor conditions.

***TARA HILLS PARK SHELTER AND PLAYGROUND RENOVATION AND
RELOCATION IMPLEMENTATION SCHEDULE 2018-2019***

***FALL 2018 PROCUREMENT OF FUNDS IN ANNUAL CITY BUDGET.
REMOVAL OF EXISTING SHELTER AND PLAY AREA.
GRADING AND SEEDING OF SITE.***

SPRING 2019 INSTALLATION OF NEW SHELTER AND PLAY AREA.



The Park System: Existing and Future Needs

Tara Hills Park

Location: 215 Shillaelagh Boulevard

Inventory: 5.25 Acres

Main Park Area

Picnic Shelter
Play Structure
Two Tennis Courts
Two Sand Volleyball Courts
Horse Shoe Courts
Restroom
Drinking Fountain
Grills
Basketball Court
Looped walkway around the park
connected to greenway trail

Senior Center Indoor facility with capacity of 60
persons
Off street Parking Area

Comments: This park includes a variety of facilities within a small area. Facilities are generally in good condition, with ongoing maintenance required. Play structure and swings do not have direct sidewalk access. Landscaping provides a good separation between the park and surrounding uses. The sand volleyball courts receive little use and could be relocated to a higher demand park.

Recommendations:

- Overlay and improve parking area.
- Replace asphalt walk with concrete.
- New benches.
- Accessibility improvements.



Tara Hills Park



Tara Hills Park

Sarpy County Property Information

SHILLAE LAGH BLVD

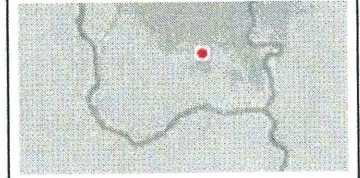
TARA HILLS PARK

CURRENT SITE OF PLAYGROUND AND SHELTER

TARA HILLS VILLA APARTMENTS

TARA HILLS DRAINAGE WAY SITE

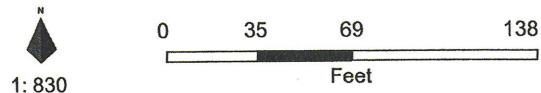
Location



Legend

2016 Aerial Photo

- Red: Band_1
- Green: Band_2
- Blue: Band_3



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



PROPOSED PLAYGROUND AREA



FOR A BETTER TOMORROW
WE PLAY TODAY

shapedbyplay.com

63

Proudly presented by:

Bill Pospichal



outdoor **recreation** products

1055 North 205th St.

Elkhorn, Nebraska 68022

Phone: 402-289-0400 Fax: 402-289-0300

Toll free: 800-747-KIDS (5437)

www.outdoorrecreationproducts.com

Quote

Page 1 / 1

Quote Date: 19-Mar-18
 Sales Rep: Bill Pospichal
 Est. Delivery: 6-8 weeks
 Terms: Net 30 days

Project: Tara Hills Park
 Attn: Tony Gowan
 Phone: 402-597-2049
 Cell: 402-669-5897

Qty	Description	Unit Price	Total
1 ea.	Landscape Structures Evos design 1904		\$ 36,585.00
1 LS	Landscape Structures 1-bay Single Post Swings w/belt seats and Toddler Seat Add-on, all chains are proguard coated Freight to Papillion, NE		2,055.00 776.00
1 ea.	Americana 24' x 40' steel shelter Freight to Papillion, NE		24,550.00 2,530.00
8 ea.	Pilot Rock 6' XT/G-6PC recycled plastic h/d picnic tables	762.00	6,096.00
2 ea.	Pilot Rock Q3-2460 B8 large grills Freight to Papillion, NE	898.00	1,796.00 414.00
INSTALLATION			
1 LS	Site preparation and earthwork		1,725.00
188 lf.	Install 8" x 8" concrete perimeter curb @ playground		5,405.00
1 LS	Install Evos & swings		7,418.00
1,968 sf.	Install 4" concrete pad w/deck drains under playground		12,448.00
1,968 sf.	Furnish and install poured-in-place rubber surfacing for 8' fall height, 50% black, 50% standard color		29,422.00
1 LS	Install shelter w/footings		9,258.00
1,307 sf.	Install 4" concrete slab under shelter w/grill pad		9,018.00
1 LS	Install tables & grills		2,645.00
250 sf.	Install connecting sidewalks to shelter and playground		1,725.00
1 LS	Restore site and seed		1,380.00
Notes	Demolition of existing shelter, restroom and playground by others		
	Trash cans to be furnished by others		
		Subtotal	\$ 155,246.00
		Freight	Shown Above
		Sales Tax	Not Included
		Total	\$ 155,246.00

To Accept this quotation, sign & date here and return: _____

THANK YOU FOR YOUR BUSINESS



K ELECTRIC CO.
COMMERCIAL • INDUSTRIAL

City of Papillion

Parks Department

ATTN: Tony Gowan

Tara Hills Park Project

Scope: Disconnect Power from Distribution Panel. Reroute Power underground to the new location.

Install 3 dedicated circuits with two gfci protected outlets per circuit. Conduits and boxes will be waterproof with in-use covers.

Cost of the project includes labor, materials and trench rental and delivery.

\$ 3,521.00 tax not included

If you have any questions please feel free to call.

Thanks,

Paul Crisman

K-Electric Company Inc.

402-680-4075

PAPIO-MISSOURI RIVER




NATURAL
RESOURCES
DISTRICT

8901 S. 154th ST.
OMAHA, NE 68138-3621
(402) 444-6222
FAX (402) 895-6543

Form 17.27 A

RECREATION AREA DEVELOPMENT PROGRAM

APPLICATION FORM

1. DATE: March 22, 2018
2. PROJECT NAME: Old Tree Farm Park
3. PROJECT SPONSOR: City of South Sioux City
(Address)
1615 1st Avenue
South Sioux City, NE 68776
4. CONTACT PERSON: Gene Maffit TITLE: Park & Recreation Director
5. TELEPHONE: 402-494-7540
6. PROJECT LOCATION**: East of the intersection of East 25th Street & G Street intersection.
See attached Location Map
7. DESCRIPTION OF PROJECT**: The City is the owner of an old tree farm. Most of the trees are
being relocated to other parks within South Sioux City. The City would like to construct a new acces road. a
new parking area, and 4 new soccer fields. Many trees will remain because they are too large to move.
8. TOTAL ESTIMATED COST: \$ 142,875.00
9. COST SHARE REQUEST: \$ 50,000.00
10. SIGNATURE/TITLE: 

** Attach additional sheets as necessary.

Old Tree Farm Park Grading
South Sioux City, Nebraska

ESTIMATE

ITEM	UNIT	QUANTITY	PRICE	TOTAL
Mobilization	LS	1	\$ 2,500.00	\$ 2,500.00
Construct Access Road	TON	650	\$ 25.00	\$ 16,250.00
Construct Parking Area	TON	400	\$ 25.00	\$ 10,000.00
Strip & Replace Topsoil	SY	20,500	\$ 2.00	\$ 41,000.00
Seeding	ACRE	3.5	\$ 4,000.00	\$ 14,000.00
Tree Removal	EA	65	\$ 500.00	\$ 32,500.00
Contingency (10%)				\$ 11,625.00
Construction Subtotal			\$	127,875.00
Engineering - Design & Construction Obs.			\$	15,000.00
Total			\$	142,875.00

IMPLEMENTATION SCHEDULE

August 2018 - Survey & Design
 September 2018 - Advertise and Award Bids
 October 2018 - Start Grading and Seeding
 May 2019 - Construction Complete

Old Tree Farm Park

Site Plan

Legend

25' ACCESS ROAD

SOCCER FIELD
(300'X180')

Parking Area
(140'X85')

SOCCER FIELD
(180'X120')

FUTURE RESTROOMS

SOCCER FIELD
(180'X120')

SOCCER FIELD
(300'X180')

FUTURE
BASKETBALL COURT
(94'X50')

Google Earth



Old Tree Farm Park

Location Map

Legend

Proposed SSC Rec Center

PROJECT AREA

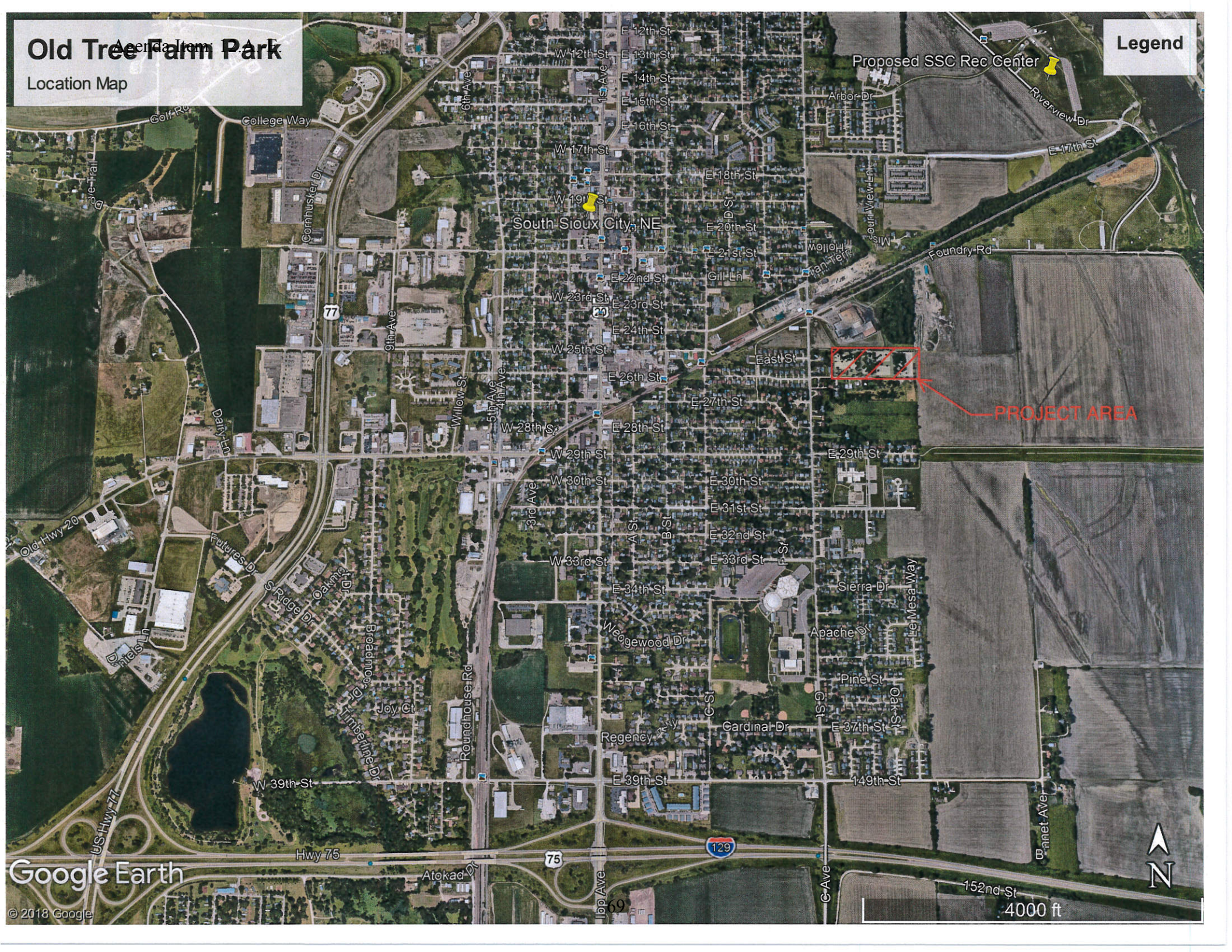
South Sioux City, NE



4000 ft

Google Earth

© 2018 Google





Trails Assistance Program – Application Form

Project name SID 441, Waterford - 2018 Trail Improvements

Project location (attach location map) 152nd & Ida, Omaha, NE

Sponsor organization SID 441, Waterford

Sponsor address 11440 West Center Road

City Omaha State NE ZIP 68144

Contact person Robert Czerwinski

Title Municipal Services Dept. Manager

Email address bczerwinski@eacg.com Daytime phone 402.510.1329

Description of project (attach additional sheets as needed)

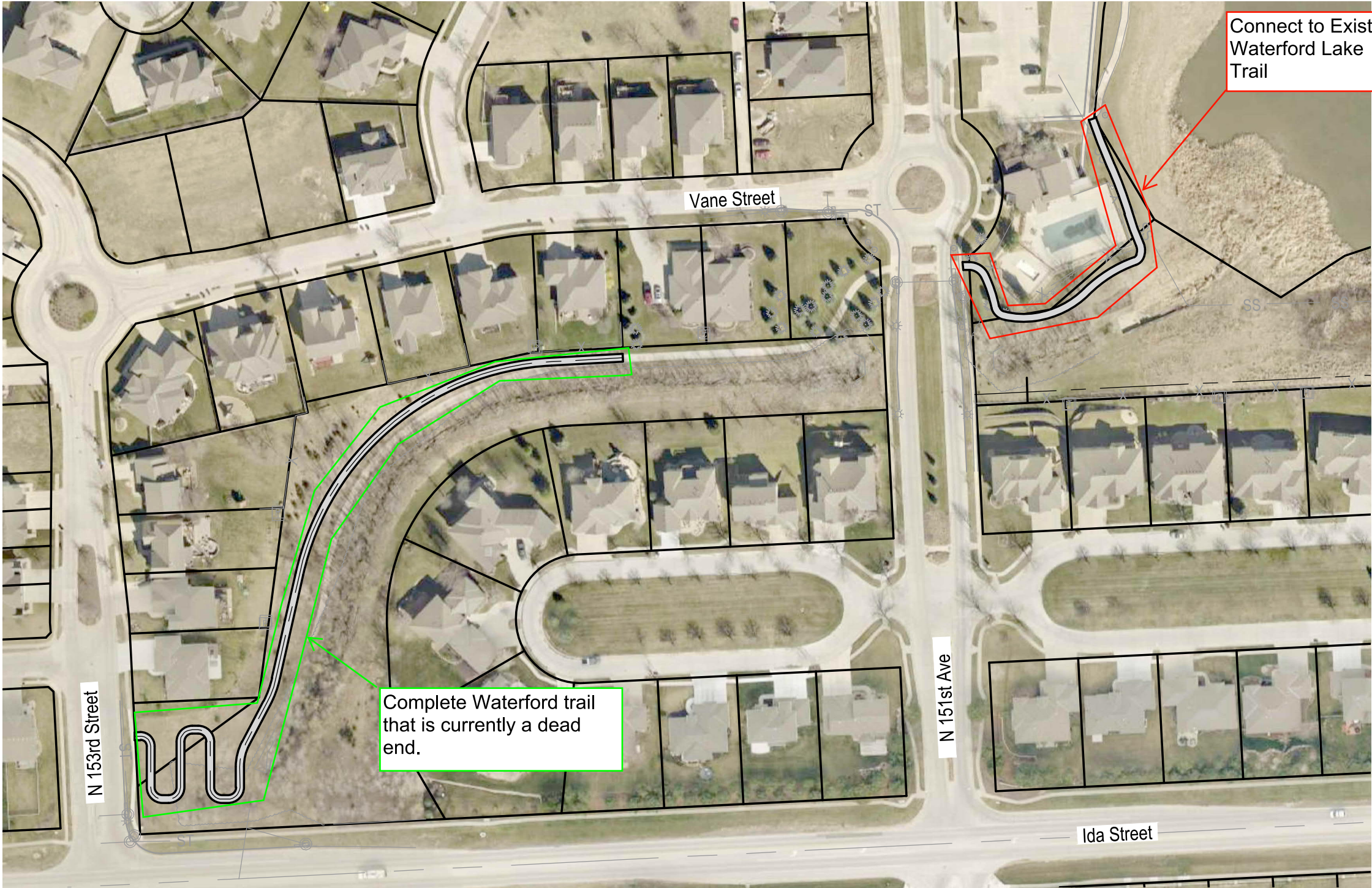
To complete the trail system making a more complete trail that will connect to the Waterford Lake trail system. The estimated project completion will be Spring 2019.

Total estimated cost \$ 150,000 Cost share request \$ 75,000

Robert. F. Czerwinski
Signature

3/23/2018
Date

Municipal Services Dept. Manager
Title



Revisions	
Rev	Description
1	Initial Design
2	Final Design

Trail Exhibit

Waterford
SID 441
Douglas County, 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.eaag.com



Trails Assistance Program – Application Form

Project name Walthill NE Phase III Trail

Project location (attach location map) Walthill NE- see map

Sponsor organization Village of Walthill NE

Sponsor address 226 Main St

City Walthill State NE ZIP

Contact person Kevin Connot

Title Economic Developer

Email address kconnot@nntc.net Daytime phone 402 518 0824

Description of project (attach additional sheets as needed)

add to Phase I and Phase II by connecting baseball field to new
proposed youth center. Match funding would come from a new
application to the NE Game & Parks program in the Fall of 2018.

Total estimated cost \$ 106,900

Cost share request \$ 53,450

Melba D. Davis
Signature

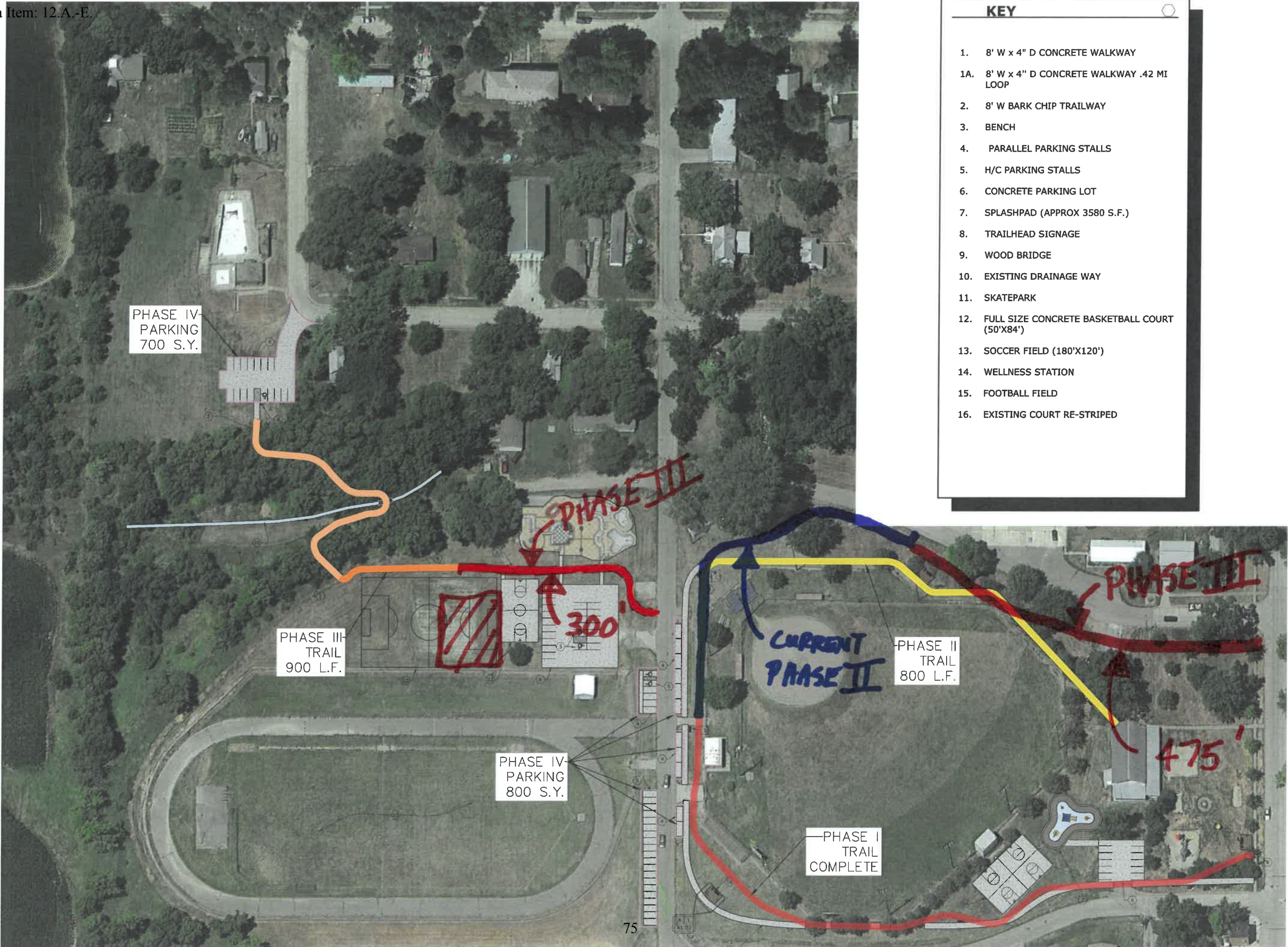
3/23/18
Date

Chairman
Title

**ENGINEER'S ESTIMATE
WALTHILL WELLNESS TRAIL PROJECT - PHASE III
VILLAGE OF WALTHILL**

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Extended Price</u>
<u>Division 100 - General</u>					
1.1	Mobilization	LS	1	\$12,000.00	\$12,000.00
<u>Division 200 - Earthwork</u>					
2.1	Excavation & Embankment	CY	450	\$40.00	\$18,000.00
<u>Division 300 - Subgrade Preparation</u>					
3.1	12" Compaction w/Moisture & Density Control	CY	350	\$30.00	\$10,500.00
<u>Division 600 - Portland Cement Concrete Pavements</u>					
6.1	8' Wide, 5" PCC Trail	SY	700	\$60.00	\$42,000.00
<u>Division 700 - Bridges, Culverts, and Related Construction</u>					
7.1	4" PVC Drain Pipe	LF	30	\$30.00	\$900.00
<u>Division 800 - Roadside Development & Erosion Control</u>					
8.1	Seeding, Fertilizing, & Mulching	AC	0.20	\$20,000.00	\$4,000.00
8.2	Soil Retention Blanket	SY	300	\$10.00	\$3,000.00
CONSTRUCTION ESTIMATE TOTAL:					\$90,400.00
				Engineering	\$ 13,500.00
				Enviromental	\$ 3,000.00
PROJECT ESTIMATE TOTAL					\$106,900.00







Lake Dredging Program – Application Form

Project name Waterford - 2019 Lake Dredging

Project location (attach location map) _____

Sponsor organization Waterford HOA

Sponsor address 9802 Nicholas Street, Suite 105

City Omaha State NE ZIP 68114

Contact person Robert F. Czerwinski

Title Municipal Services Dept. Manager

Email address bzerwinski@eacg.com Daytime phone 402.510.1329

Description of project (attach additional sheets as needed)

See attached sheet

Original capacity of lake/basin 16.5 Ac-ft

Proposed excavation amount 2.8 Ac-ft

Total estimated cost \$ 230,000 Cost share request \$ 100,000

Robert F. Czerwinski

Signature

3/23/2018

Date

Municipal Services Dept. Manager

Title

2019 LAKE DREDGING PLAN, WATERFORD - NARRATIVE

Overview

Waterford desires to clean out the Water Quality Basin, a permanent detention facility located just upstream from Standing Bear Reservoir, by hydraulic dredging.

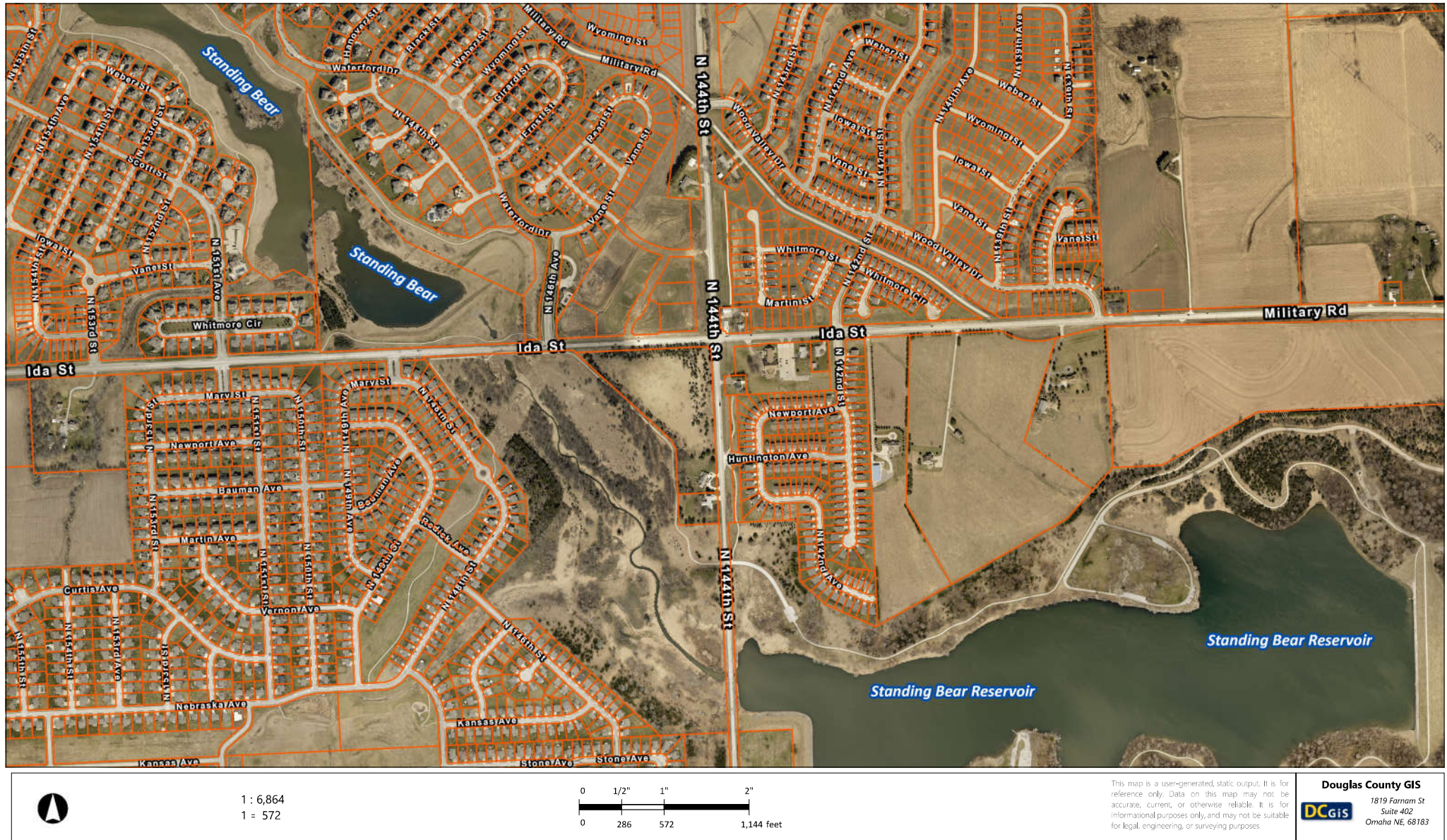
Target area of hydraulic dredging will be the north end of the Water Quality Basin and a 30' wide removal area around the banks of the basin.

Dewatering tubes will be located on Outlot next to Basin.

Schedule

The intent is to commence work in May 2019 or as soon as water temperature allows. Project to be completed June 1st, 2019.

Douglas County Property Info





Waterford Lake retention pond, sketch for target area 'A' on the northwest end of the pond. This area measures approximately 60,152 sq. feet or 1.38 surface acre. This area is holding approximately 2.5 feet of organic sediment with some aquatic weeds. We estimate the hydraulic removal of 556 cubic yards of dewatered organic sediment. It will take three 100 ft. x 35 ft. sediment containment tubes to hold and dewater the material.