

Memo to the Programs, Projects, and Operations Subcommittee

Subject: FY 2014 Urban Cost Share Programs

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

Date: April 2, 2013

From: Gerry Bowen

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.

Recreation Area Development

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.

Three applications have been received and are outlined below.

The Village of Herman (page 15) has requested cost share assistance with construction of a restroom/concession stand in the Herman Park located in the west part of the town. The total estimated cost of the project is \$56,308.33 and the Village is requesting 50% of this amount, or \$28,154.

The City of South Sioux City (page 20) has requested cost share assistance with the installation of two picnic shelters at the Dible Soccer Complex. The total estimated cost of the project is \$41,238.00 and the City is requesting 50% of this amount, or \$20,619.

The City of South Sioux City (page 24) has requested cost share assistance on the expansion of the Scenic Park Campgrounds from 19 pads to 39 pads, an increase of 20 camping pads. The total cost of the expansion is \$153,900 and the City is requesting the maximum amount under this program, or \$50,000.

The following table summarizes all of the FY 14 applications. The FY 13 budget amount for this program was \$243,560.

Sponsor	Total Estimated Cost	FY 14 Cost Share Requested
Village of Herman	\$56,308	\$28,154
South Sioux City (shelters)	\$41,238	\$20,619
S. Sioux City (campground)	\$153,900	\$50,000
Total	\$251,446	\$98,773

- **It is recommended that the Subcommittee recommend to the Board of Directors that the Recreation Area Development Program applications for the Village of Herman for \$28,154, and the two projects for the City of South Sioux City for a total of \$70,619, for a total of \$98,773 be approved, subject to funding in the FY 14 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.

Three applications previously approved by the Board have components in FY 14 and are as follows:

In 2012, the Board approved two projects for the City of Omaha (Rockbrook Creek and Saddle Creek) for cost share over a period of three years. The interlocal agreements (pages 28 and 30, respectively) for these projects call for payments in FY 14. These payments are \$237,760 for Rockbrook Creek and \$271,460 for Saddle Creek (interlocal agreements have been approved by the Board).

In 2009, the Board approved a project with Sarpy County SID #162, Millard Park, (page 32) with five phases to correct a severe erosion problem on tributaries within the SID. Phases 1 and 2 were built in 2009 and 2011, respectively. The SID plans to proceed with Phase 3 of the project in FY 14. The total estimated cost of Phase 3 is \$596,800. The SID is requesting 60% of this amount, or \$358,080.

Four new applications were received and are outlined below.

The City of Papillion (page 37) is requesting assistance to stabilize a drainageway between Portal Road and the West Branch, west of Papillion. Under the new guidelines, this project is considered a Level 3 (40% cost share rate maximum). The estimated cost of the improvements is \$375,245. The City is requesting 40% of this amount, or \$150,098.

Douglas County SID #374, Huntington Park, (page 44) located northwest of 156th & Blondo, is requesting assistance to stabilize/rehabilitate a drainageway between 156th and 160th Streets. The project warrants a Level 3 designation under the revised UDP guidelines. The total cost of the improvements is \$1,937,350. The SID is requesting 40% of this amount, or \$774,940.

The City of Omaha (page 58) is requesting assistance to stabilize three storm sewer outlets entering the east side of the Big Papillion Creek between Dodge and Blondo. The project warrants a Level 3 designation under the revised UDP guidelines. The total cost of the improvements is \$310,774. The City is requesting 40% of this amount, or \$124,310.

The City of LaVista (page 77) is planning a stabilization/rehabilitation project on Thompson Creek between 84th and 72nd Streets. The project includes bio-engineering practices, grade control, and stream velocity reduction. The project has been approved for funding from the Nebraska Environmental Trust and NDEQ 319, and warrants a Level 2 designation. The total cost of the channel improvement project over a three year period is \$1,989,750. The City is requesting \$635,850 from the NRD over a three year period. The City requests that the funding be provided over a three year period; \$60,000 in Year 1, \$479,850 in Year 2, and \$96,000 in year 3. It is anticipated that an interlocal agreement will be prepared for Board consideration at a later date.

(Note: In February 2010 the Board approved funding under the Floodway Purchase Program for the first phase of Thompson Creek Project in which 24 homes threatened by channel erosion, were purchased by the City of La Vista and demolished to facilitate the necessary channel restoration. The District provided \$340,155 of the \$2.7 million project.)

The following table summarizes the FY 14 applications. The FY 13 budget included \$1,616,772 for this program.

Project Sponsor	Total Estimated Cost	FY 14 Cost Share Requested
Omaha (Rockbrook Creek)		\$237,760
Omaha (Saddle Creek)		\$271,460
Mission Park SID	\$596,800	\$358,080
Papillion	\$375,245	\$150,098
Huntington Park SID	\$1,937,350	\$774,940
Omaha (Big Papio Creek)	\$310,774	\$124,310
LaVista (Thompson Creek)	\$1,989,750	\$60,000
Total	\$5,209,919	\$1,976,648

- **It is recommended that the Subcommittee recommend to the Board of Directors that the applications from the Mission Park SID #162 for \$358,080, the City of Papillion for \$150,098, Huntington park SID #374 for \$774,940, the City of Omaha for \$124,310, and the City of LaVista for \$635,850, for a total of \$1,976,648, subject to funding in the FY 14 Budget.**

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.

Management intends to approve the following applications.

The Village of Walthill (page 91) is requesting assistance to correct two minor drainageways in the town park. The total estimated cost of the project is \$7,500. The Village is requesting 60% of this amount, or \$4,500.

The City of Omaha (page 94) is requesting assistance to stabilize a drainageway at the Fire and Police Training Facility. The project is estimated to cost \$127,326. The City is requesting the maximum under this program, or \$30,000.

The City of Blair (page 99) is requesting assistance to install a stormwater detention basin near Hwy. 75 and Front Street. The total estimated cost of the project is \$240,000. The City is requesting the maximum amount under this program, or \$30,000.

The following table summarizes these applications. The FY 13 budget included \$58,200 for this program.

Project Sponsor	Total Estimated Cost	FY 14 Cost Share Requested
Walthill	\$7,500	\$4,500
Omaha	\$127,326	\$30,000
Blair	\$240,000	\$30,000
Total	\$374,826	\$64,500

- **It is recommended that the Subcommittee recommend to the Board of Directors that the applications from the Village of Walthill for \$4,500, the City of Omaha for 30,000, and the City of Blair for \$30,000, for a total of \$64,500 be approved, subject to funding in the FY 14 Budget.**

Trails Assistance Program

The Trails Assistance Program cost shares with sponsors on trail projects approved for funding under the Transportation Enhancement Program, either NDOR or NGPC. The cost share rate is 50% of the local share, or 10% of the project costs. All projects require Board approval.

One project was previously approved by the Board.

The City of Bennington (page 103) was approved for cost sharing on a trail project in 2008. The total cost of the project has increased since that time. In 2012, the Board approved an increase in the cost share amount from \$41,428 to \$52,689 (an increase of \$11,262) which represents 10% of the project costs (\$414,280 to \$526,590). Due to increased cost associated with obtaining the NEPA document for the project, the City is again re que sting an increase in the cost share amount from \$52,690 to \$54,854 (an increase of \$2,164) which represents 10% of the project costs (\$526,690 to \$548,550).

Three new applications have been received.

The City of Blair is requesting assistance with the construction of three trails segments. All three projects have been approved for funding under the NDOR's Transportation Enhancement Program and are planned for construction in 2013-14.

The first (page 107) will relocate a surface crossing of Hwy. 75 at an uncontrolled area to a traffic signal at 23rd Avenue, and the connecting trail to the old crossing location. The second will connect a trail from Marina Drive to Optimist Park. The estimated cost for the first two trail projects is \$531,509. The City is requesting 50% of the local share, or \$53,151.

The third (page 113) will construct the Lincoln Trail along Jackson Street between 3rd Street and Marina Drive. The estimated cost of this project is \$173,956. The City is requesting one half of the local share of the costs or \$17,396.

The following table summarizes these applications. The FY13 Budget included \$310,752 for this program.

Project Sponsor	Total Estimated Cost	FY 14 Cost Share Requested
Bennington	\$548,538	\$54,854
Blair (Connectors)	\$531,509	\$53,151
Blair (Lincoln Trail)	\$173,956	\$17,396
	\$1,254,003	\$125,401

- **It is recommended that the Subcommittee recommend to the Board of Directors that the cost share amount for the City of Bennington be increased from \$52,690 to \$54,854, and the two applications from Blair for \$70,547, for a total of \$125,401, be approved, subject to funding in the FY 14 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.

Sarpy County SID #249, Savannah Shore, (page 117) is requesting assistance to dredge the existing sediment pond located in the SID park. The estimated cost of the sediment removal is \$80,600. The SID is requesting 50% of this amount, or \$40,300.

The FY 13 Budget included \$100,000 for this program.

- **It is recommended that the Subcommittee recommend to the Board of Directors that the application from Savannah Shores (SID#249) in the amount of \$40,300 be approved, subject to funding in the FY 14 Budget.**

17.27 RECREATION AREA DEVELOPMENT PROGRAM

The Recreation Area Development Program is an authorized program of the District to provide financial assistance to units of government (cities, counties, villages, or other municipalities) to establish, develop, and improve public recreation areas.

A. Criteria for Assistance

1. Each project must be sponsored by a city, village, county, or other municipality, with the statutory authority and capability to develop and manage public recreation areas.
2. The recreation area, or park, must be part of a comprehensive plan for the municipality.
3. To be eligible, a project must be associated with, or exhibit, some form of natural resources conservation.
4. Eligible project features:
 - a. development of a recreation area plan.
 - b. land acquisition (eligible only if recreation area is developed at the same time).
 - c. grading, seeding, and landscaping.
 - d. buildings and facilities (picnic shelters and restrooms).
5. Projects must conform with all local, state, and federal laws.

B. District Responsibilities

1. Administer the Recreation Area Development Program.
2. Management shall review, prioritize, and approve applications for assistance when the cost share amount is \$20,000 or less. The approval of the Board is required on projects where the cost share is between \$20,001 and \$50,000, or when the amount requested in applications exceeds the amount budgeted for this program.
3. Reimburse Sponsors 50% of the local costs (i.e., excluding state and federal funds) of the project, not to exceed \$50,000 in District funds, as determined in B.2 above, for each public recreation area.

C. Sponsor Responsibilities

1. The Sponsor shall submit an application on forms supplied by the District.
2. The Sponsor shall submit preliminary plans with the application. The following items should be included:
 - a. option/purchase agreement (if applicable)
 - b. recreation area development plan (prepared by a consultant)
 - c. estimated total cost
 - d. implementation schedule
 - e. location map
 - f. appropriate section of the comprehensive plan.
3. The Sponsor shall obtain all necessary local, state, and federal permits.
4. The Sponsor shall manage the recreation area and provide all future operation and maintenance of the area at no cost to the District.

5. The Sponsor shall agree to manage the area as a public recreation area for a minimum of 50 years.
6. The Sponsor shall administer all contracts for design, construction, and construction observation for the project.
7. The Sponsor shall control all erosion on the site during construction and until permanent vegetation is firmly established.
8. The Sponsor shall hold and save the District free from damages and claims due to the construction, or operation and maintenance of the recreation area.
9. The Sponsor shall execute an agreement with the District which outlines these guidelines.
10. The Sponsor is encouraged to utilize recycled or recyclable products whenever practical or feasible.

C. Requesting Reimbursement

1. Upon completion of the project, the Sponsor may request reimbursement from the District by providing the following:
 - a. certificate of completion
 - b. copies of final pay estimates, invoices, or deeds.

(May 10, 1989; November 12, 1991; October 8, 1992)

17.17 URBAN DRAINAGEWAY PROGRAM

The Urban Drainageway Program is an authorized program of the District to provide technical and financial assistance to municipalities to control erosion and/or flooding along major urban drainageways.

A. Criteria for Assistance

1. An eligible project involves improvements made on any major drainageway (open channel) in a developed, urban area where erosion or flooding threatens public or private property.
2. Each project must be sponsored by a municipality or other unit of government (including S&IDs) with authority and capability to carry out the project.
3. An enclosed storm sewer is not an eligible project.
4. Eligible projects shall receive no more than \$1.5 million in District funds.
5. Approved projects may be implemented over a period of consecutive years.
6. All measures must be technically feasible and environmentally acceptable.

B. Project Eligibility

Matching funds will be distributed according to the three Levels of Design, which consist of the following:

1. Level 1 (Restoration) – Restoration of a continuous reach or reaches of the channel through enhancing meanders and stabilizing the bed (possibly elevating incised channels with grade control structures to reconnect to the historical floodplain) and banks, using predominantly bioengineering techniques with some structural techniques if necessary.
2. Level 2 (Rehabilitation) – Rehabilitation of a continuous reach or reaches of the channel bed (possibly including grade control structures) and banks along the existing channel alignment, using a combination of bioengineering and structural techniques.
3. Level 3 (Stabilization) – Stabilization of a limited, critical area of the channel banks and/or bed that does not have a significant impact on the entire reach with grade control structures along existing channel alignment using bioengineering and/or structural techniques.

Levels of Design

	Level 1 <i>Restoration</i>	Level 2 <i>Rehabilitation</i>	Level 3 <i>Stabilization</i>
Reach Length	Continuous or having a significant impact on the reach	Continuous or having a significant impact on the reach	Repairs in a critical area that does not have a significant impact on the reach
Stream Channel Modification	In a predominately unconfined or historical stream channel	Confined in modified channel pattern	Can be in an unconfined or historical stream or modified/confined channel
Stream Improvement Techniques	Majority are bioengineering techniques, habitat enhancement, flow redirection, and (if possible) flow retention	Bioengineering and/or structural techniques, habitat enhancement, flow redirection, and (if possible) flow retention	Bioengineering and/or structural techniques
Hydraulic Impact	Will restore hydraulic connection to floodplain	May restore hydraulic connection to floodplain	Will not affect hydraulic connection to floodplain

- Note: Both Level 1 and Level 2 will accelerate natural stream stabilization processes

C. District Responsibilities

1. All projects will require approval by the Board of Directors
2. Administer the Urban Drainageway Program.
3. Review and prioritize all applications.
4. Provide funding for a portion of the local eligible project costs (i.e. excluding state and federal funds) as follows:
 - a. Provide 75% cost share on all Level 1 projects
 - b. Provide 60% cost share on all Level 2 projects
 - c. Provide 40% cost share on all Level 3 projects
5. Eligible project costs shall include all costs associated with design, construction, and construction observation. The following shall also apply:
 - a. Sponsor's "in-house" design and construction inspection costs are eligible for cost-sharing provided that the work is performed or supervised by a licensed professional engineer.
 - b. Construction must be performed by a qualified contractor. Reimbursement for use of Sponsor's equipment is not an eligible cost.
 - c. Preliminary study costs (if necessary) are eligible for cost-sharing only if the project is constructed.
6. The District may require construction of component parts in consecutive years.
7. The District reserves the right to approve or reject plans, specifications, and/or

implementation schedules.

8. The District shall budget funds for the component parts of all approved projects. Previously approved projects have priority for funding.

C. Sponsor Responsibilities

1. The sponsor shall submit an application on forms provided by the District (Urban Drainageway Program Application, Form 17.17, Manual of Standard Forms, Appendix E).
2. The sponsor shall submit preliminary plans with the application. The following items should be included:
3. total estimated cost
4. implementation schedule, including estimated costs for component parts.
5. environmental acceptability statement.
6. preliminary survey and design information.
7. location maps.
8. The sponsor shall obtain all land rights for the project at no cost to the District.
9. The sponsor shall provide all future operation and maintenance on the project at no cost to the District.
10. The sponsor must comply with all local, state, and federal laws.
11. The sponsor must obtain all local, state, and federal permits necessary for the project.
12. The sponsor shall administer all contracts for design, construction and construction inspection.
13. The sponsor shall hold and save the District free from damages or claims due to the design, construction, or operation and maintenance of the project.
14. The sponsor shall execute an agreement with the District which will outline these guidelines.
15. The sponsor shall apply for EPA 319 and Nebraska Environmental Trust funding in order to be eligible for Level 1 or Level 2 project cost share from the District.

D. Requesting Reimbursement

1. Upon completion of construction of each component, reimbursement may be requested by the sponsor by providing the following:
2. Certificate of Completion, signed by a licensed, professional engineer.
3. Copies of final pay estimates which shows total units, unit costs, and total component costs.
4. Progress payments on individual components will not be allowed.

(September 10, 1987; January 13, 2011)

17.0 URBAN CONSERVATION ASSISTANCE PROGRAM

The Urban Conservation Assistance Program is an authorized program of the District to provide technical and financial assistance to units of government (sponsors) and citizen groups to help prevent or control erosion, flooding, and related resource concerns in urbanized areas.

Criteria For Assistance

1. Potential projects need to be on lands under control of the Sponsor through deed, lease, or easement.
2. Acceptable Practices:
 - a. permanent grade stabilization structures
 - b. channel stabilization measures
 - c. stormwater management facilities
 - d. diversions and terraces
 - e. permanent seeding, sodding, and mulching of critical areas
3. An enclosed storm sewer is not and eligible practice or project.

District Responsibilities

1. Administer the Urban Conservation Assistance Program.
2. Reimburse Sponsors 60% of the actual costs of the project, including engineering, up to a maximum District outlay of \$30,000 per project.
3. All projects shall be approved by Management.
4. Provide technical assistance on all projects.

Sponsor Responsibilities

1. Complete District's UCAP Special Project Request, Form 17.0.B, Manual of Standard Forms (Appendix E)
2. Execute and fulfill the District's Special Project Operation and Maintenance Agreement, Form 17.0.C, Manual of Standard Forms (Appendix E)
3. Provide all necessary land rights.
4. Provide the local matching funds.
5. Contract for the construction of the approved project. Sponsor's personnel and equipment costs are not eligible for reimbursement.
6. Complete the project within one year of approval, unless prior written approval is obtained from the District.

(February 5, 1987; February 9, 1989; April 9, 2009)

17.40 TRAILS ASSISTANCE PROGRAM

The Trails Assistance Program is an authorized program of the District to provide financial assistance to units of government (cities, counties, villages, or other government entities) to build recreational trails that have also been approved for federal transportation enhancement funding.

A. Criteria for Assistance

1. Each project must be sponsored by a city, village, county, or other government entity, with the statutory authority and capability to develop and manage public recreation trails.
2. The trail must be part of a comprehensive trails plan for the municipality.
3. Eligible project features are those approved for federal funding and include:
 - a. trail construction
 - b. grading, seeding, and landscaping.
 - c. bridges and drainage facilities
 - d. signage
4. Projects must conform with all local, state, and federal laws.

B. District Responsibilities

1. Administer the Trails Assistance Program.
2. Management shall review and prioritize applications for assistance. The approval of the Board is required on projects
3. Reimburse Sponsors 50% of the local costs (i.e., excluding state and federal funds) of the project.

C. Sponsor Responsibilities

1. The Sponsor shall submit an application on forms supplied by the District.
2. The Sponsor shall submit the following items with the application:
 - a. copy of the transportation enhancement application
 - b. estimated total cost
 - c. implementation schedule
 - d. location map
3. The Sponsor shall obtain all necessary local, state, and federal permits.
4. The Sponsor shall manage the trail and provide all future operation and maintenance of the project at no cost to the District.
5. The Sponsor shall agree to operate, maintain, and repair the trail for minimum of 50 years.
6. The Sponsor shall administer all contracts for design, construction, and construction observation for the project.
7. The Sponsor shall control all erosion on the site during construction and until permanent vegetation is firmly established.

8. The Sponsor shall hold and save the District free from damages and claims due to the construction, or operation and maintenance of the recreation area.
9. The Sponsor shall execute an agreement with the District which outlines these guidelines.
10. The Sponsor is encouraged to utilize recycled or recyclable products whenever practical or feasible.

C. Requesting Reimbursement

1. Upon completion of the project, the Sponsor may request reimbursement from the District by providing the following:
 - a. certificate of completion
 - b. copies of final pay estimates, invoices, or deeds.

(April 14, 2005)

17.42 LAKE DREDGING PROGRAM

The Lake Dredging Program is an authorized program of the District to provide technical and financial assistance to units of government (sponsors) to dredge retained sediments in permanent water quality basins and lakes within the sponsor's boundaries and extraterritorial jurisdiction.

Criteria for Eligible Projects:

1. The Sponsor must be a unit of government (city, county, sanitary & improvement district).
2. Only public access lakes and permanent water quality basins are eligible for assistance.
3. Dredging shall be limited to the capacity of the conservation pool of the water quality basin or lake.
4. An individual lake or basin shall be eligible for assistance if the following specific criteria are met:
 - a. The water body has not been dredged in the immediately preceding ten (10) years.
 - b. Verification that 75% of the original capacity has been lost to sedimentation.
 - c. Verification of impaired water quality that will be improved by dredging project, including calculation of benefits.
5. The Sponsor must have a watershed management plan to control erosion and reduce sedimentation from the drainage area.

District Responsibilities:

1. Provide 50% of the local costs (after applying any state or federal cost share assistance) of the project up to a maximum NRD cost share of \$100,000 per project.
 - Eligible costs include:
 - a. Actual dredging costs
 - b. Professional engineering services for design, calculation of dredging amount and water quality benefits.
 - Ineligible costs include:
 - a. Costs associated with land rights acquisition.
 - b. Costs associated with the acquisition of necessary permits for the project.
 - c. Costs associated with relocation of utilities.
 - d. Sponsor's "in-house" labor and equipment costs.
2. All projects will require the approval of the Board of Directors.
3. Review and approve all dredging plans prior to Sponsor's bidding of the project.

Sponsor Responsibilities:

1. Complete District's LDP Application Form, Form 17.42A, Manual of Standard Forms (Appendix E). The following items should accompany the application:
 - a. Copy of the original construction plans for the lake or water quality basin. If original plans are not available, an engineering study will be necessary to calculate the original capacity.
 - b. Location map of the project.
 - c. Location map of the proposed disposal site(s) and site restoration plan.
 - d. Detailed project cost estimate.
2. Execute and fulfill an agreement outlining these guidelines (Form 17.42B, Manual of Standard Forms, Appendix E)
3. Provide all matching funds.
4. Provide all permits required for the project at no cost to the District.
5. Provide all necessary land rights at no cost to the District.
6. Contract for the dredging of the lake or water quality basin of the approved project.
7. Complete dredging operation within one year of approval.

(May 14, 2009)



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Form 17.27 A

RECREATION AREA DEVELOPMENT PROGRAM

APPLICATION FORM

1. DATE: 3-18-13
2. PROJECT NAME: Concession/Restroom Building
3. PROJECT SPONSOR: Village of Herman
(Address)
P.O. Box 196, Herman, NE 68039

4. CONTACT PERSON: Vicky Kellogg TITLE: Village Clerk
5. TELEPHONE: 402-456-7500
6. PROJECT LOCATION **: Herman Park, 600 Ward St
Herman, NE

7. DESCRIPTION OF PROJECT **: Building new concession
& restrooms

8. TOTAL ESTIMATED COST: \$ 50,000

9. COST SHARE REQUEST: \$ 25,000

10. SIGNATURE/TITLE: Vicky Kellogg

** Attach additional sheets as necessary.

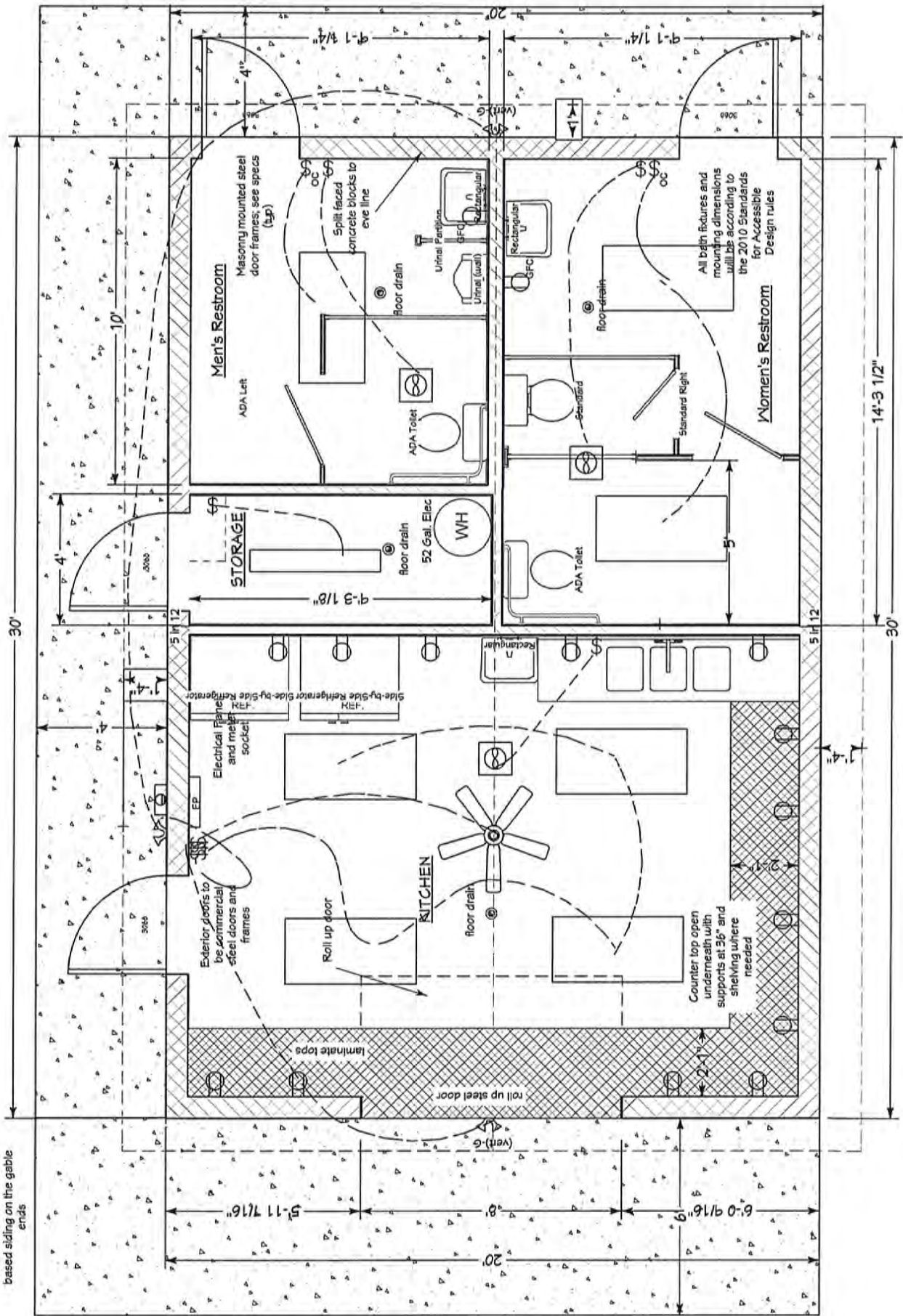
MAR 18 2013



Google earth



Roof to be 5/12 pitch with asphalt shingles, metal eaves and fascia, truss construction and cement based siding on the gable ends



Village of Herman Concession Stand and public toilets

Qty	Craft@Hours	Unit	Material	Labor	Equipment	Total
Herman Consession						
Site grading						
General area rough grading with 100 HP D-4 tractor (.5 acres per hour)						
Per Unit:	S1@4.000	Acre	0.00	195.40	97.30	292.70
1.00	S1@4.000	Acre	0.00	195.40	97.30	292.70
Masonry contract						
Biffar						
Per Unit:	--@.0000	--	0.00	0.00	0.00	7,781.00
1.00	--@.0000	--	0.00	0.00	0.00	7,781.00
Concrete driveway aprons						
4" thick (80 SF per CY)						
Per Unit:	P9@.0240	SF	2.16	1.16	0.20	3.52
960.00	P9@23.04	SF	2,071.87	1,113.60	192.00	3,377.47
framing						
2 guys 1 week						
Per Unit:	B1@.1790	SF	6.28	6.15	0.00	12.43
600.00	B1@107.4	SF	3,768.00	3,690.00	0.00	7,458.00
Baked enamel finish soffit system						
12" soffit						
Per Unit:	B1@.0870	LF	3.83	2.99	0.00	6.82
120.00	B1@10.44	LF	459.76	358.80	0.00	818.56
Plumbing Contract						
Jettors						
Per Unit:	--@.0000	Ea	0.00	0.00	0.00	10,984.00
1.00	--@.0000	Ea	0.00	0.00	0.00	10,984.00
electrical contract						
hipner						
Per Unit:	--@.0000	Ea	0.00	0.00	0.00	9,025.00
1.00	--@.0000	Ea	0.00	0.00	0.00	9,025.00
Laminated plastic custom countertops						
Custom work, square edge front, 4" splash						
Per Unit:	C8@.1870	LF	28.41	8.83	0.00	37.24
35.00	C8@6.545	LF	994.46	309.05	0.00	1,303.51
painting contract						
rod krause						
Per Unit:	--@.0000	SF	0.00	0.00	0.00	2,200.00

Qty	Craft@Hours	Unit	Material	Labor	Equipment	Total
1.00	--@.0000	SF	0.00	0.00	0.00	2,200.00
all doors and installations four swingers and 1 rollup						
Per Unit:	--@.0000	Ea	0.00	0.00	0.00	2,800.00
1.00	--@.0000	Ea	0.00	0.00	0.00	2,800.00
Gypsum drywall, 5/8" fire-rated board Walls						
Per Unit:	D1@.0200	SF	0.28	0.72	0.00	1.00
1000.00	D1@20.00	SF	277.20	720.00	0.00	997.20
Gypsum drywall, 5/8" fire-rated board Ceilings						
Per Unit:	D1@.0250	SF	0.28	0.91	0.00	1.19
600.00	D1@15.00	SF	166.32	546.00	0.00	712.32
Install handicapped toilet partition Powder coated metal						
Per Unit:	T5@2.660	Ea	508.86	134.60	0.00	643.46
4.00	T5@10.64	Ea	2,035.44	538.40	0.00	2,573.84
Grab bars for the disabled 1-1/4" x 36" toilet partition bars						
Per Unit:	CC@1.000	Set	118.80	52.58	0.00	171.38
3.00	CC@3.000	Set	356.40	157.74	0.00	514.14
Raised lettering for the blind 5/8" lettering raised 1/32". Grade 2 braille raised 1/32" 2" x 8" sign, raised letters and tactile Braille						
Per Unit:	PA@.2500	Ea	34.06	13.06	0.00	47.12
5.00	PA@1.250	Ea	170.28	65.30	0.00	235.58

Total Manhours, Material, Labor, and Equipment:	201.3	10,299.72	7,694.29	289.30	18,283.31
Total Only (Subcontract) Costs:					32,790.00
				Subtotal:	51,073.31
				5.00% Overhead:	2,553.67
				5.00% Profit:	2,681.35
				Estimate Total:	56,308.33

Form 17.27 A

RECREATION AREA DEVELOPMENT PROGRAM

APPLICATION FORM

PAPIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT



8901 S. 154TH ST.
OMAHA, NE 68138-3621
(402) 444-6222
FAX (402) 895-6543
www.papionrd.org

1. DATE: 3/18/13

2. PROJECT NAME: Scenic Park Soccer Field Shelters

3. PROJECT SPONSOR: City of South Sioux City
(Address)

1615 1st Avenue, South Sioux City, NE 68776

4. CONTACT PERSON: Lance Hedquist TITLE: City Administrator

5. TELEPHONE: 402-494-7517

6. PROJECT LOCATION **: Jeffery Dible Soccer Complex
in Scenic Park along Riverview Drive in South Sioux City, Nebraska

7. DESCRIPTION OF PROJECT **: See Attached Narrative

8. TOTAL ESTIMATED COST: \$ 41,238.00

9. COST SHARE REQUEST: \$ 20,619

10. SIGNATURE/TITLE: *Lance Hedquist*

** Attach additional sheets as necessary.



Papio-Missouri River Natural Resources District
C/O Gerry Bowen
8901 S. 154th Street
Omaha, NE 68138-3621

RE: 17.27 Recreation Area Development Program

Description of Project:

Scenic Park Shelters at the Jeffery Dibble Soccer Complex

Scenic Park is home to more than 62 acres of soccer fields and serves as a recreational hub during the spring and summer for numerous sports clubs, the local YMCA, Briar Cliff football practices and family get-togethers. The City seeks to provide environmental protections from the elements for those who desire to enjoy the events at these locations, but may require additional protection from the harmful rays of the sun during these events. In an effort to provide this protection, as well as, provide a multi-use facility for family picnics and special events, the City intends to construct two shelters at the Scenic Park soccer fields. The attached recreational layout map provides the identified location of these shelters.





SHELTER LOCATIONS
(PICNIC SHELTERS 30' X 40')

SHEET
1
OF
1

PROPOSED SHELTER LOCATIONS	
JEFFREY DIBLE SOCCER COMPLEX PARK PLAN	
SOUTH SIOUX CITY, NEBRASKA	

REV. NO.	DATE	REVISIONS DESCRIPTION

NO.	DATE	DESCR.

MOLSSON ASSOCIATES
 1707 Dakota Avenue
 P.O. Box 624
 South Sioux City, NE 68770-0256
 TEL: 402-694-3099
 FAX: 402-694-4084
www.molssonatg.com

PAPIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT



8901 S. 154TH ST.
OMAHA, NE 68138-3621
(402) 444-6222
FAX (402) 895-6543
www.papionrd.org

Form 17.27 A

RECREATION AREA DEVELOPMENT PROGRAM

APPLICATION FORM

1. DATE: 3/18/13

2. PROJECT NAME: Scenic Park Campground Expansion

3. PROJECT SPONSOR: City of South Sioux City
(Address)
1615 1st Avenue, South Sioux City, NE 68776

4. CONTACT PERSON: Lance Hedquist TITLE: City Administrator

5. TELEPHONE: 402-494-7517

6. PROJECT LOCATION ** : Scenic Park Campground
801 Riverview Drive, South Sioux City, NE 68776

7. DESCRIPTION OF PROJECT ** : See Attached Narrative

8. TOTAL ESTIMATED COST: \$ 153,900.00

9. COST SHARE REQUEST: \$ 50,000.00

10. SIGNATURE/TITLE: *William D. Lantry Mayor*

** Attach additional sheets as necessary.



Papio-Missouri River Natural Resources District
C/O Gerry Bowen
8901 S. 154th Street
Omaha, NE 68138-3621

RE: 17.27 Recreation Area Development Program

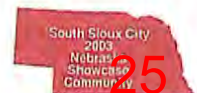
Description of Project:

Scenic Park Campground Expansion

The City of South Sioux City's campground is located in Scenic Park and is a popular destination for over 100,000 visitors per year. From May until late fall, the campground often boasts little to no vacancy as it is a highly desirable campground for both local residents and those passing thru. Additionally, there has been an increased demand for year round availability in the campground. Presently, the campground hosts 115 camping pads, of which 19 are available for year round use. Based on the increased demand for year round camping spots in Scenic Park, the City of South Sioux City proposes to expand the campground and add an additional 20 camping pads that will be available throughout the entire year for a total of 39 year round sites. These campgrounds will be located south and east of the existing campground.



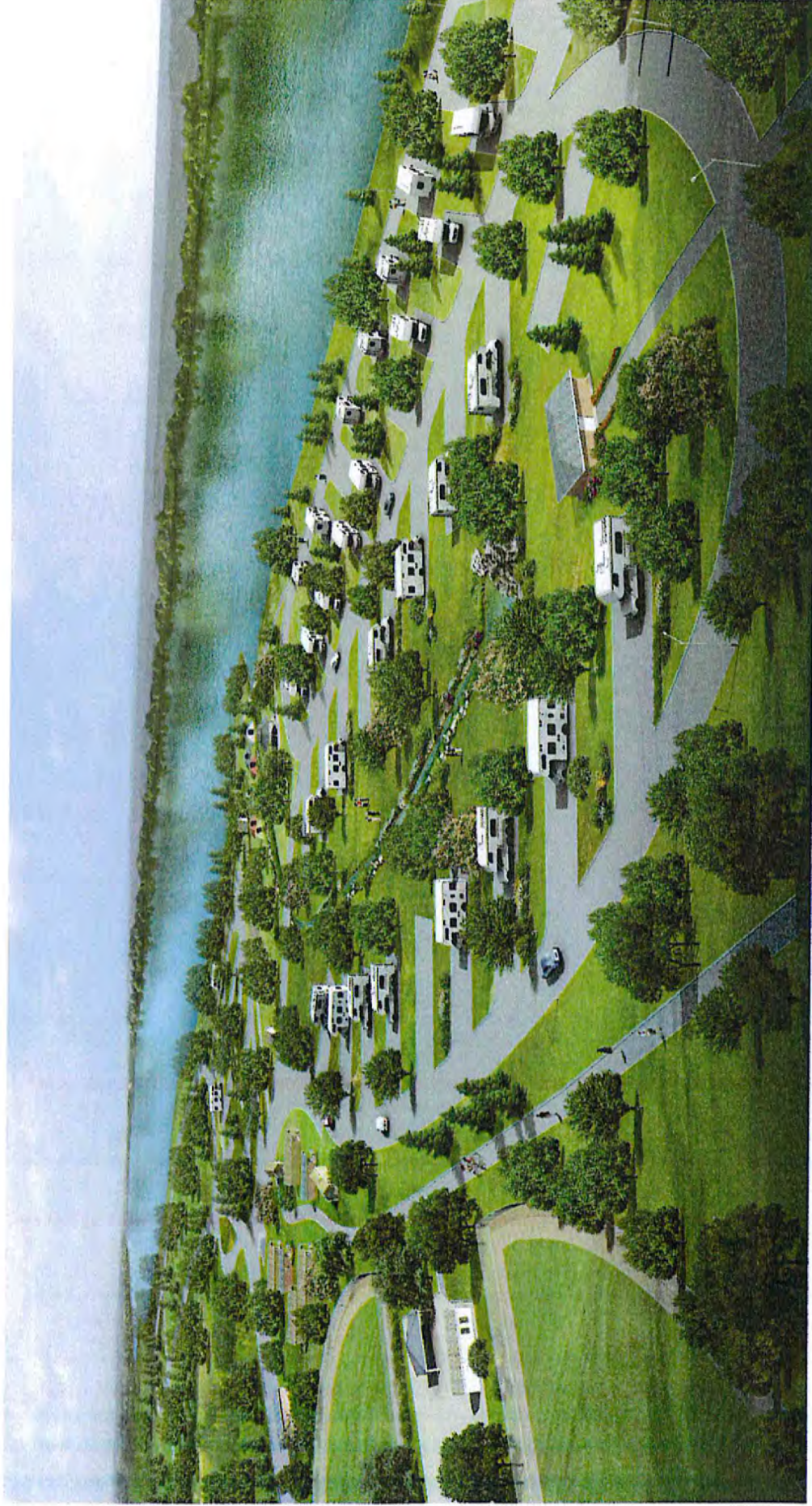
City of South Sioux City, Nebraska
1615 First Avenue, South Sioux City, Nebraska 68776-2245
Phone: 402-494-7500 Fax: 402-494-7527 TTD: 402-494-7500 ext 339
www.southsiouxcity.org





Proposed Improvements

Scale: NTS



**South Sioux City Scenic Park
Conceptual Layout Opt 1**

September 26, 2012

Project No. 120950.00

© JEO Consulting Group, Inc.

Interlocal Agreement

Papio-Missouri River Natural Resources District

and

The City of Omaha, Nebraska

ROCKBROOK TRIBUTARY REHABILITATION PROJECT

THIS INTERLOCAL AGREEMENT is made and entered into by and among the PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT, a political subdivision of the State of Nebraska (hereinafter referred to as the "NRD"), and the CITY OF OMAHA, NEBRASKA, a political subdivision of the State of Nebraska (hereinafter referred to as the "CITY").

RECITALS:

WHEREAS, the CITY desires to conduct a project to rehabilitate a tributary to Rockbrook Creek (hereinafter the PROJECT), and

WHEREAS, the NRD administers the Urban Drainageway Program, a program which provides 60% cost sharing to local units of government for the installation of improvements to urban stream channels, and,

WHEREAS, the CITY desires to construct the PROJECT during one construction season, and

WHEREAS, the NRD desires to reimburse the cost share to the CITY over a period of three years.

NOW, THEREFORE, for and in consideration of the foregoing recitals and their mutual covenants hereinafter expressed, the parties agree as follows:

A. CITY RESPONSIBILITIES

1. The CITY shall acquire all easements and rights-of-way necessary for the PROJECT in the name of the CITY.
2. The CITY shall retain such consultants, at their own discretion and expense, as may be needed to engineer the PROJECT.
3. The CITY shall obtain the approval of all plans and specifications from the NRD prior to advertising for construction bids on the PROJECT.
4. The CITY shall retain such contractors, at their own discretion and expense, necessary to construct the project.
5. Upon completion, the CITY shall operate and maintain the PROJECT in perpetuity according to accepted engineering standards at no cost the NRD.
6. The CITY shall indemnify and hold the NRD harmless from and against all liability and damages resulting from the design, construction, operation, or maintenance of the PROJECT, and against all demands, causes of action, and claims arising therefrom, except as may be caused by negligence of the NRD, its agents, representatives, or employees.
7. The Sponsor shall publicly acknowledge the District's contribution to the Project on a permanent sign, plaque or other fixture (containing the District's logo), to be maintained by the Sponsor for

the life of the project specified above. Such acknowledgement shall also be contained on all temporary construction signs and in all media publicity about the Project.

B. NRD RESPONSIBILITIES

1. The NRD shall reimburse the CITY 60% of the total estimated cost not to exceed \$713,280.00 according to the following schedule; \$237,760.00 on May 1, 2012, \$237,760.00 on May 1, 2013, and \$237,760.00 on May 1, 2014. In the event that the total cost share is less than \$713,280.00, the final payment on May 1, 2014 shall be adjusted to the corrected amount.
2. The NRD shall review and approve all plans and specifications in a timely manner.

C. DURATION

1. This agreement shall have permanent duration, commencing upon the occurrence of the signatures of both parties being affixed hereto.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates hereinafter indicated pursuant to authorizing resolutions duly adopted at regularly-called meetings of their governing bodies.

Executed by THE CITY OF OMAHA, NEBRASKA, this 22nd day of MARCH, 2012.

THE CITY OF OMAHA, NEBRASKA

By *Jim Smith*
Mayor

Attest: *Robert Brown*
City Clerk

Executed by the PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT this 14th day of March, 2012.

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT

By *[Signature]*
General Manager

Attest: *[Signature]*
By *[Signature]*
Natural Resources Planner Title

APPROVED AS TO FORM:

[Signature] 3-19-12
DEPUTY CITY ATTORNEY

Interlocal Agreement

Papio-Missouri River Natural Resources District

and

The City of Omaha, Nebraska

SADDLE CREEK CHANNEL IMPROVEMENT PROJECT

THIS INTERLOCAL AGREEMENT is made and entered into by and among the PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT, a political subdivision of the State of Nebraska (hereinafter referred to as the "NRD"), and the CITY OF OMAHA, NEBRASKA, a political subdivision of the State of Nebraska (hereinafter referred to as the "CITY").

RECITALS:

WHEREAS, the CITY desires to conduct a channel improvement project to a portion of Saddle Creek (hereinafter the PROJECT), and

WHEREAS, the NRD administers the Urban Drainageway Program, a program which provides 60% cost sharing to local units of government for the installation of improvements to urban stream channels, and,

WHEREAS, the CITY desires to construct the PROJECT during one or two construction seasons, and

WHEREAS, the NRD desires to reimburse the cost share to the CITY over a period of three years.

NOW, THEREFORE, for and in consideration of the foregoing recitals and their mutual covenants hereinafter expressed, the parties agree as follows:

A. CITY RESPONSIBILITIES

1. The CITY shall acquire all easements and rights-of-way necessary for the PROJECT in the name of the CITY.
2. The CITY shall retain such consultants, at their own discretion and expense, as may be needed to engineer the PROJECT.
3. The CITY shall obtain the approval of all plans and specifications from the NRD prior to advertising for construction bids on the PROJECT.
4. The CITY shall retain such contractors, at their own discretion and expense, necessary to construct the project.
5. Upon completion, the CITY shall operate and maintain the PROJECT in perpetuity according to accepted engineering standards at no cost the NRD.
6. The CITY shall indemnify and hold the NRD harmless from and against all liability and damages resulting from the design, construction, operation, or maintenance of the PROJECT, and against all demands, causes of action, and claims arising therefrom, except as may be caused by negligence of the NRD, its agents, representatives, or employees.
7. The Sponsor shall publicly acknowledge the District's contribution to the Project on a permanent sign, plaque or other fixture (containing the District's logo), to be maintained by the Sponsor for

the life of the project specified above. Such acknowledgement shall also be contained on all temporary construction signs and in all media publicity about the Project.

B. NRD RESPONSIBILITIES

1. The NRD shall reimburse the CITY 60% of the total estimated cost not to exceed \$811,380.00 according to the following schedule; \$270,460.00 on May 1, 2012, \$270,460.00 on May 1, 2013, and \$270,460.00 on May 1, 2014. In the event that the total cost share is less than \$811,380.00, the final payment on May 1, 2014 shall be adjusted to the corrected amount.
2. The NRD shall review and approve all plans and specifications in a timely manner.


C. DURATION

1. This agreement shall have permanent duration, commencing upon the occurrence of the signatures of both parties being affixed hereto.

IN WITNESS WHEREOF, the parties have executed this agreement on the dates hereinafter indicated pursuant to authorizing resolutions duly adopted at regularly-called meetings of their governing bodies.

Executed by THE CITY OF OMAHA, NEBRASKA, this 22nd day of MARCH, 2012.

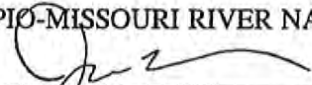
THE CITY OF OMAHA, NEBRASKA

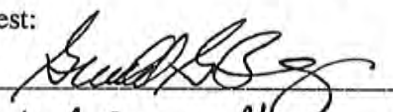
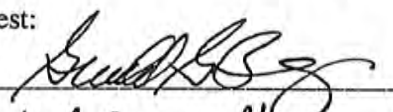
By 
Mayor

Attest: 
City Clerk

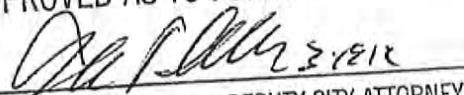
Executed by the PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT this 14th day of March, 2012.

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT

By 
General Manager

Attest: 
By 
Natural Resource Planner Title

APPROVED AS TO FORM:


DEPUTY CITY ATTORNEY

March 19, 2013

Mr. Gerry Bowen
Papio-Missouri River Natural Resources District
8901 S 154th Street
Omaha, NE 68138

RE: Mission Creek Channel Reestablishment Phase III
SID 162 - Millard Park Subdivision, Sarpy County NE
Urban Drainageway Program Funding

Dear Mr. Bowen:

On behalf of Sanitary & Improvement District 162, Millard Park, we would like to request continued funding through the NRD Urban Drainageway Program for Phase III of the Mission Creek Channel Rehabilitation. The Phase III project corresponds to the Area "A" improvements as outlined in the rehabilitation Master Plan submitted to the NRD in March 2011. An aerial drawing indicating the phases of the project is attached. Phases I and II of the five phase rehabilitation project were funded and constructed as follows:

	Year Constructed	Total Cost	NRD Funding (60%)
Phase I	2009	\$258,123.35	\$154,874.01
Phase II	2011	\$290,630.05	\$168,700.00

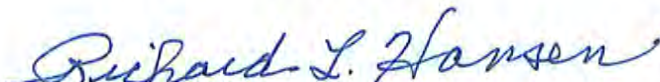
Phase III is located on a 350 foot stretch of Mission Creek just southeast of the 167th Street and Harrison Street intersection. Preliminary drawings of the proposed improvements are attached as well as a current project cost estimate.

The current total project cost estimate is \$596,800.00 with a requested cost share of \$358,080.00 from the Urban Drainageway Program.

If you have any questions or need additional information, please contact me at 402-891-0607 or SID 162 Engineer Bill Glismann, HGM Associates, at 402-346-7559.

Sincerely,

MILLARD PARK SID 162


Richard L. Hansen
Board Chairman

Millard Park SID 162
c/o Larry Forman
7171 Mercy Road, Suite 650
Omaha, NE 68106

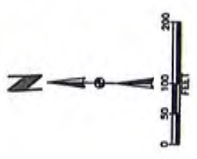
we warrant to have made the drawings to have been prepared by us or under our direct supervision and that we are a duly licensed professional engineer in the State of Michigan. We warrant that the drawings were prepared by us or under our direct supervision and that we are a duly licensed professional engineer in the State of Michigan.

hgm
 ASSOCIATES INC.
 ENGINEERING ARCHITECTURE SURVEYING
 10000 Grand Hills Orchard

LET	DATE
DRN	
WAS	
PREPARED BY	
DATE	

PROJECT: MISSION CREEK CHANNEL RESTABLISHMENT
 RELAY PUMP SUBMISON
 DISTRICT: SANITARY AND IMPROVEMENT DISTRICT 162
 PHASING PLAN

PROJECT NO. 703510-008
 SHEET 1



PHASING PLAN
 SCALE: 1"=100'

**MISSION CREEK CHANNEL REESTABLISHMENT PHASE 3
MILLARD PARK - SID 162
HGM PROJECT No. 703510-008**

**PRELIMINARY OPINION OF PROBABLE PROJECT COSTS
March 15, 2013**

ITEM No.	DESCRIPTION	ESTIMATED QUANTITIES	UNIT	UNIT PRICE	TOTAL AMOUNT
1	Mobilization	1	LS	\$10,000.00	\$10,000.00
2	Clearing and Grubbing General	1	LS	\$20,000.00	\$20,000.00
3	Earthwork (Excavation)	2200	CY	\$25.00	\$55,000.00
5	Haul and Place Topsoil	180	CY	\$25.00	\$4,500.00
6	Remove Sidewalk	80	SF	\$7.00	\$560.00
7	Construct 4" Concrete Sidewalk	80	SF	\$11.00	\$880.00
8	Geotextile Fabric	1600	SY	\$9.00	\$14,400.00
9	Gabion Basket	570	CY	\$372.00	\$212,040.00
10	Steel Sheet Piling	920	SF	\$41.00	\$37,720.00
11	Construct Rock Rip Rap Type B	1350	TN	\$56.00	\$75,600.00
12	24" Reinforced Concrete Pipe	24	LF	\$65.00	\$1,560.00
13	Pipe Outlet Structure	1	EA	\$2,800.00	\$2,800.00
14	Rolled Erosion Control Blanket - S150	2200	SY	\$1.60	\$3,520.00
15	Rolled Erosion Control Blanket - C350	1000	SY	\$5.00	\$5,000.00
16	Seeding - Type A	2200	SY	\$1.50	\$3,300.00
17	Seeding - Channel	1000	SY	\$3.00	\$3,000.00
18	Sodding	20	SY	\$20.00	\$400.00
19	Silt Fence	200	LF	\$5.00	\$1,000.00

Subtotal **\$451,280**

Contingencies (15%) \$67,690

Total Construction Cost **\$518,970**

Engineering & Construction Mgmt. (15%) \$77,850

Total Project Cost **\$596,800**

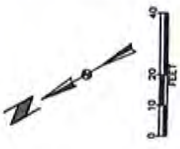
P-MR NRD Urban Drainageway Program Funding (60%) **\$358,080**

hgm
 ASSOCIATES INC.
 ENGINEERING ARCHITECTURE SURVEYING
 10000 14th Street, Suite 100
 Denver, CO 80202
 (303) 733-1100
 www.hgm.com

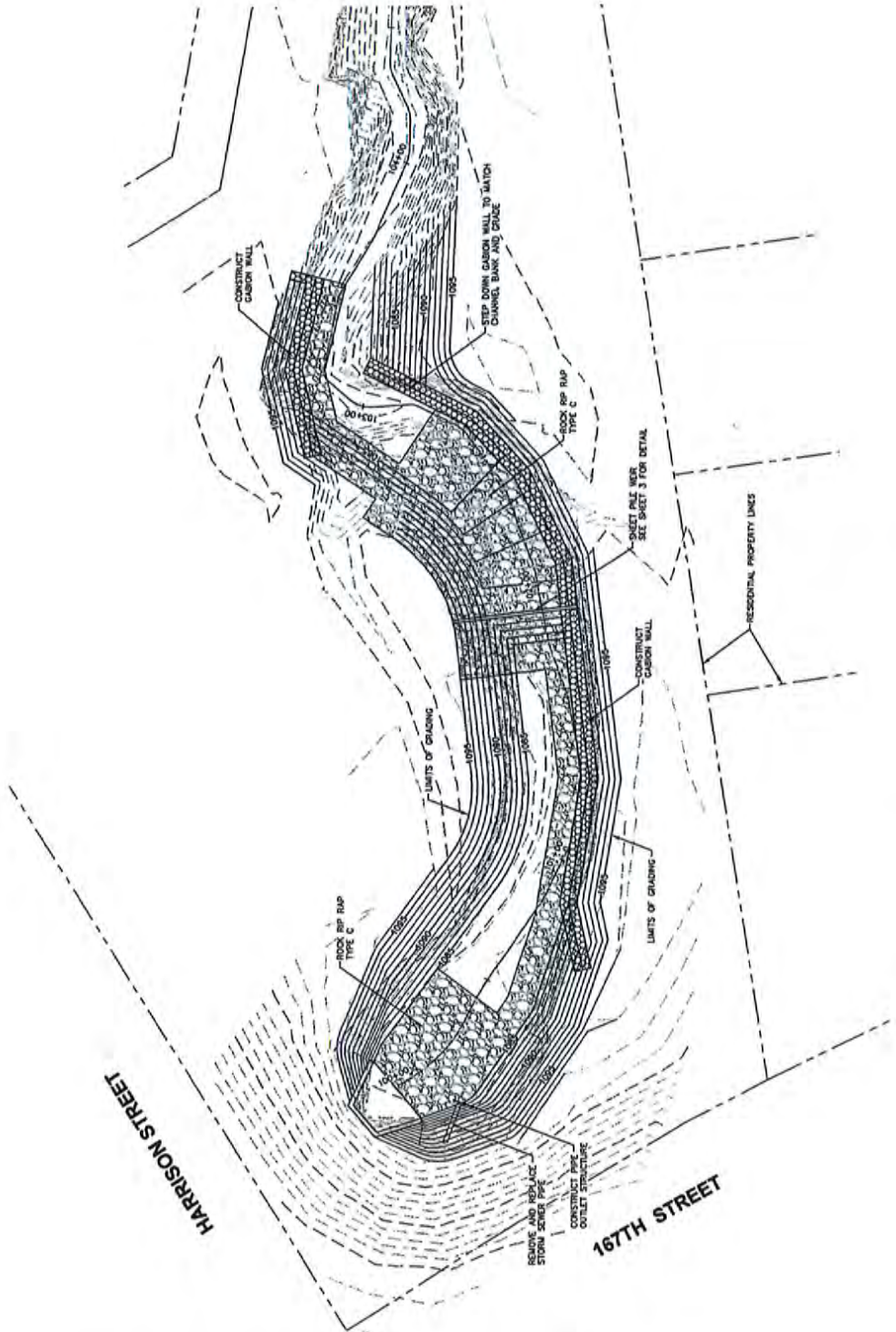
DATE	REVISION

PROJECT MISSION CREEK CHANNEL REESTABLISHMENT - PHASE III
 SANSARY AND IMPROVEMENT DISTRICT 162
 SITE AND GRADING PLAN - AREA A

SHEET NO. 2
 PROJECT NO. 7033510-005



- LEGEND**
- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED GRADING LIMITS
 - [Pattern] PROPOSED CASION WALL
 - [Pattern] PROPOSED ROCK RAP RAP TYPE C



SITE AND GRADING PLAN - AREA A
 SCALE 1" = 10'



URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: March 14, 2013

2. PROJECT NAME City of Papillion – Public Works – Drainageway Improvements

3. PROJECT SPONSOR: City of Papillion

ADDRESS: City of Papillion
122 East 3rd Street
Papillion, Nebraska 68046

4. CONTACT PERSON: Jeff Thompson

TITLE: City Engineer

5. TELEPHONE: 402-898-9092

6. E-MAIL jeff@papillion.org

7. PROJECT LOCATION (attach location map):
NE of West Papillion Creek at Hupp Drive and Portal Road, (see attachments).

8. DESCRIPTION OF PROBLEM (attach additional sheets as needed):
The unnamed drainageway to the West Papillion Creek has severe erosion and degradation within the drainageway. The drainageway banks are nearly vertical and continue to be undercut and washed away which causes the drainageway to grow wider; washing sediment and organic material into the creek. There is a headcut approaching a utility crossing threatening the stability of an existing sanitary sewer crossing (see attachments).

9. PROPOSED SOLUTION (attach additional sheets as needed):
Rehabilitate the existing drainageway by grading the slopes, constructing grade control structures and installing matting to allow vegetation to establish.

10. PROJECT FUNDING LEVEL: LEVEL 1: LEVEL 2: LEVEL 3: X
(Attach justification for funding level selected – see program guidelines)

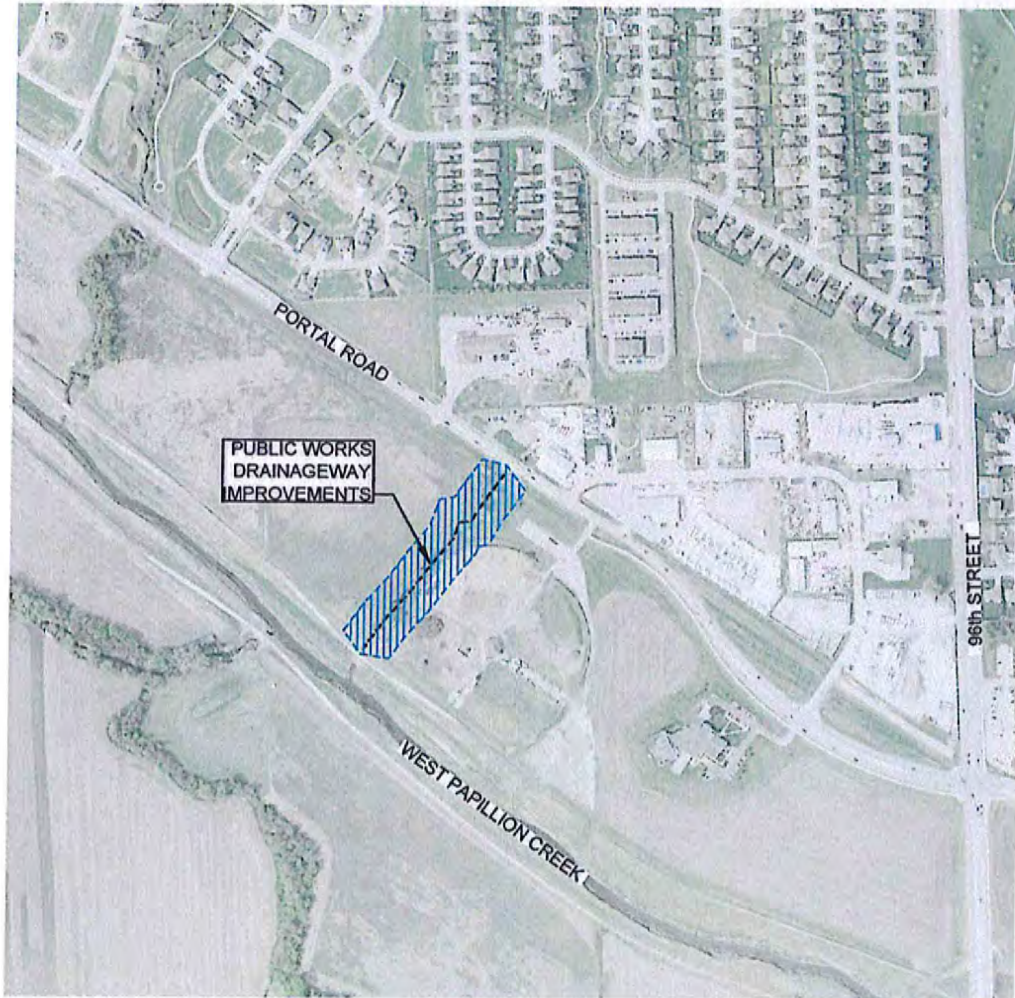
11. TOTAL ESTIMATED COST: \$375,245.00

12. COST SHARE REQUESTED: \$150,098.00

13. SIGNATURE/TITLE: *Jeff Thompson*, Director of Public Works

FORM 17.17

LOCATION MAP



	Job Number: 181-574	Date: 3-20-13	City of Papillion
	thompson, droessen & dornier, inc.	Drawn By: RTM	Public Works Drainageway
	10836 Old Mill Rd	Reviewed By: DAK	Improvements
	Omaha, NE 68154	Revision Date: ..	Page 1 of 1
p.402.330.8860 www.td2co.com			



EXISTING CONDITIONS

The existing condition of the unnamed drainageway to the West Papillion Creek shows severe erosion and degradation within the drainageway. The drainageway banks are nearly vertical and continue to be undercut and washed away causing the drainageway to grow wider; washing sediment and organic material into the creek. This action is not only destructive but it contributes to the sediment load within the West Papillion Creek. The vertical banks are approximately 12 feet in height (see photo: P2 page 6). The current grade of the channel as controlled by the existing storm sewer structures is approximately 1.8% therefore the channel is prone to head cutting.

At the north end of the channel near the outlet of the twin 8' x 4' box culvert there is a head cut approaching an existing water main crossing. At the upstream end of the channel an existing 36" RCP storm sewer outlet has been so severely undercut the last section of the pipe has become dislodged. The existing timber pipe support structure has been damaged (see photo: P1 page 5).

At approximately 300 feet up the channel, a head cut is approaching a sanitary sewer crossing installed through an embankment containing a 60" RCP storm sewer. The existing 60" RCP storm sewer pipe has been undercut and dislodged (see photos: P4 and P5, page 8 and 9).

Coordination with the City of Omaha will be necessary due to an existing outfall sewer passing across the channel at the southerly end. Coordination with the NRD will also be necessary as a portion of the grading is shown on NRD property.

The majority of mature trees along the channel's edge have been undercut and have fallen into the channel or are in danger of falling into the channel. There are also a number of volunteer trees and saplings that have begun growing on the sloughed-off soil within the channel (see photo: P3 page 7).

The following photos show the existing conditions of the channel.



PROPOSED IMPROVEMENTS

The proposed improvements for this project are designed to repair existing erosion to the channel and channel banks, while also creating a more sustainable channel grade to prevent future degradation to the channel and its side slopes. The following methods, products and materials will be used to complete this:

- Channel bank grading
- Sheet pile grade control structure
- Rip rap grade control structure
- Drop manhole grade control structure
- Pipe outlet support structures
- Placement of rip rap for energy dissipation
- Turf reinforcement
- Erosion control matting
- Turf and vegetation restoration

Channel bank grading will be performed to lessen the bank slopes to a more stable 3:1 slope. Erosion control matting will be installed to assist in turf and vegetation restoration.

A sheet pile grade control structure installed at the outlet of the existing twin 8' x 4' box culvert at Portal Road will accomplish two benefits. 1) The existing water main crossing will be protected from head cut and 2) grade control will allow the change in grade while dissipating some of the erosive force.

A rip rap grade control structure installed upstream of the existing embankment containing a sanitary sewer crossing will be placed to create a small check dam in the channel, which will cause ponding behind the grade control structure. This ponded area will enhance habitat and allow for additional infiltration. The ponding in the channel will also reduce channel velocity allowing sediment to deposit and create more stability. The outlet side of the grade control structure will discharge at a channel grade of 0.4%.

A manhole drop structure will be installed on the outlet side of the 60" RCP adjacent to the existing sanitary sewer crossing. Stormwater will drop approximately 7 feet within this structure before discharging to the existing channel grade. The slopes of the existing embankment will be restored and stabilized.

The inlet of the existing 60" RCP will be improved and high strength turf reinforcement mat will be placed around the inlet to limit the erosive damage during times of high flow. The turf reinforcement mat will protect the seed during establishment and will help permanently reinforce the vegetation.

See exhibit sheet C1.0 and C1.1 for proposed site plan and cross sections.

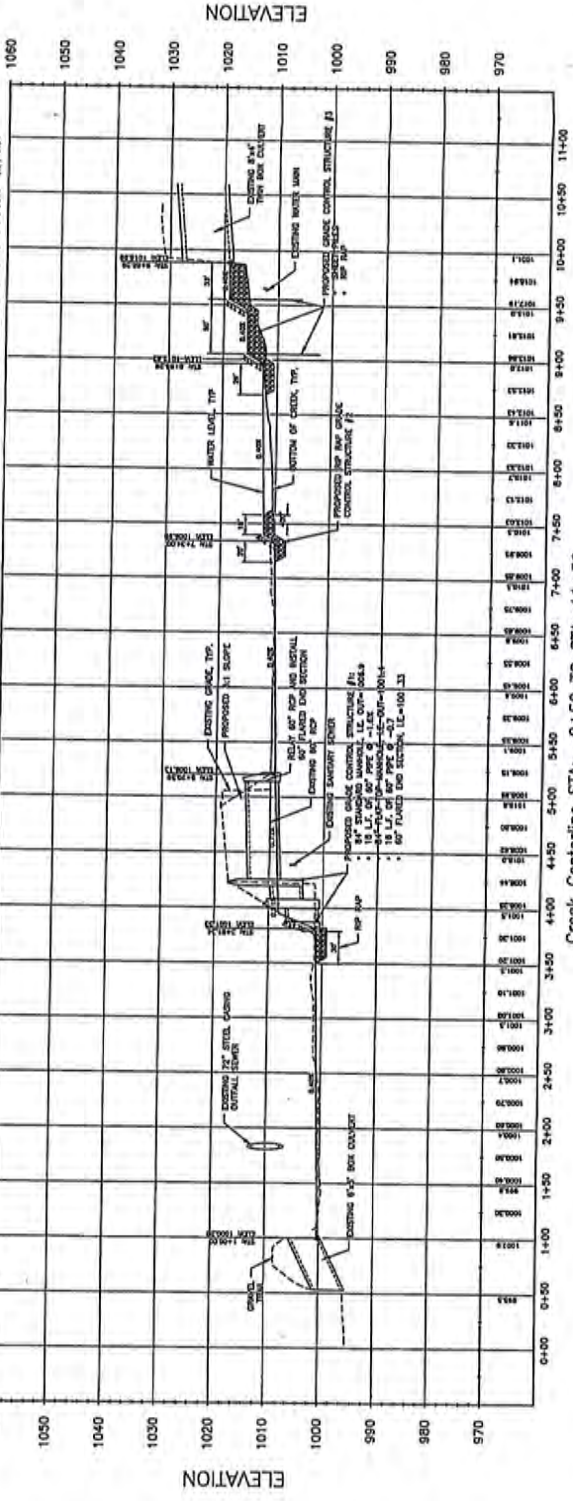
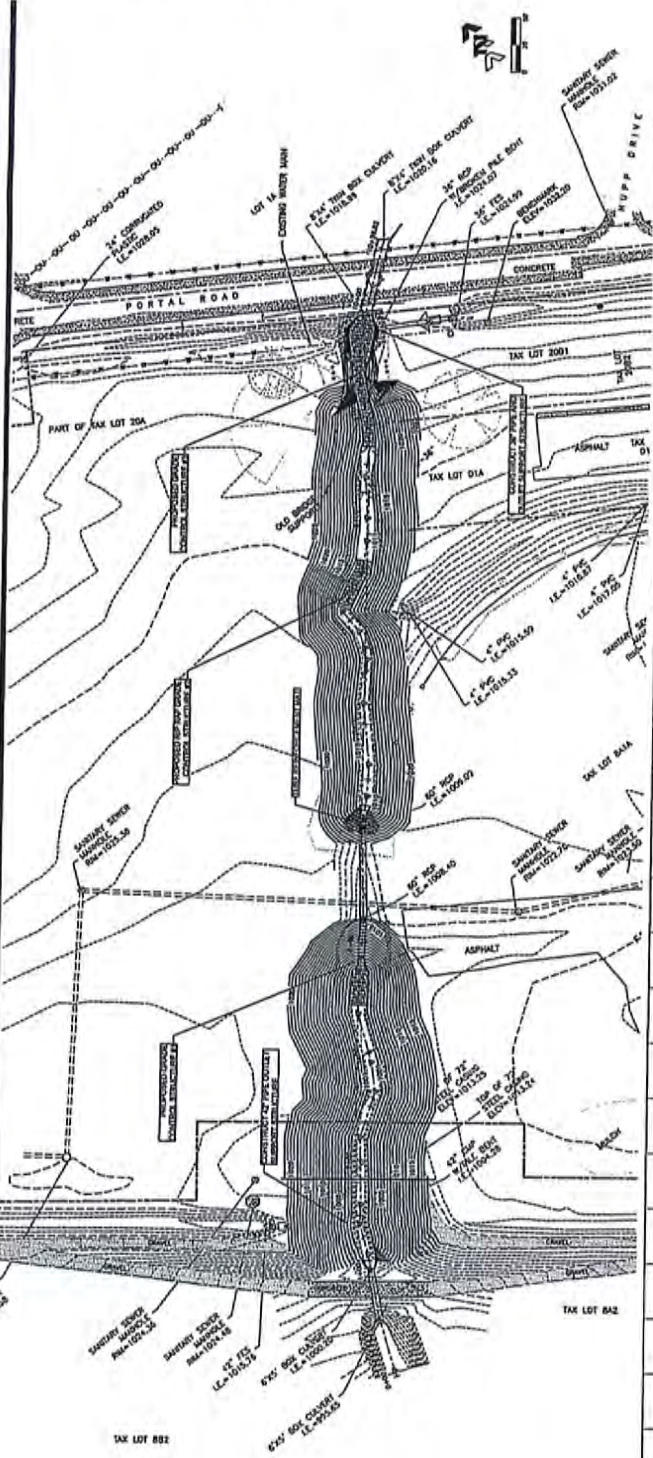
The channel stabilization project meets the Urban Drainageway Program Level 3 stabilization requirements due to its significant impact on critical areas including the protection of sanitary sewer and water main crossings. The stabilization work is generally confined to the existing channel path. Structural techniques and stabilized vegetated areas will be employed to stabilize the bed and banks, enhance habitat, improve water quality, and provide flow retention.



COST ESTIMATE

CITY OF PAPILLION - PUBLIC WORKS - DRAINAGEWAY IMPROVEMENTS					
PAPILLION, NE					
TD2 PROJECT NUMBER: 181-574					
ESTIMATED PROJECT COST					
<i>Item</i>	<i>Description</i>	<i>Approx. Quantities</i>		<i>Unit Price</i>	<i>Amount</i>
1	Mobilization	1	LS	\$1,500.00	\$1,500.00
2	Clearing and Grubbing	1	LS	\$12,000.00	\$12,000.00
3	Erosion Control	1	LS	\$4,000.00	\$4,000.00
4	Channel Grading	14,000	CY	\$4.50	\$63,000.00
5	Construct 2' Rock Grade Control Structure	1	EA	\$24,000.00	\$24,000.00
6	Construct Sheet Pile Grade Control Structure with Rip Rap	1	EA	\$55,000.00	\$85,000.00
7	Construct 36" Pipe Outlet Support Structure	1	EA	\$4,000.00	\$4,000.00
8	Construct 42" Pipe Outlet Support Structure	1	EA	\$4,500.00	\$4,500.00
9	Storm Sewer Manhole, in place	2	EA	\$5,000.00	\$10,000.00
10	Reset 60" RCP Pipe	24	LF	\$105.00	\$2,520.00
11	60" RCP Pipe, in place	16	LF	\$140.00	\$2,240.00
12	60" RCP F.E.S., in place	2	EA	\$1,500.00	\$3,000.00
13	Rip Rap at Pipe outlets, in place	55	TON	\$35.00	\$1,925.00
14	2" Caliper Trees	94	EA	\$300.00	\$28,200.00
15	Native Grass Seeding	4	AC	\$2,200.00	\$8,800.00
16	Turf Reinforcement Matting	70	SY	\$6.00	\$420.00
17	Erosion Control Matting	9,680	SY	\$3.00	\$29,040.00
	SUBTOTAL				\$284,145.00
	10% CONTINGENCY				\$28,500.00
	TOTAL ESTIMATED CONSTRUCTION COST				\$312,645.00
	ESTIMATED ENGINEERING, PERMITTING SURVEY AND CONSTRUCTION OBSERVATION COSTS (20%)				\$62,600.00
	TOTAL ESTIMATED COST				\$375,245.00
	40% NRD COST SHARE				\$150,098.00





Creek Centerline STA: 0+50 TO STA: 11+50

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Thompson, Abraham & Smith, Inc.
 10005 GMJ RD
 Omaha, NE 68154
 P-402.330.6590 www.td2co.com

**Public Works
 Drainage
 Improvements**

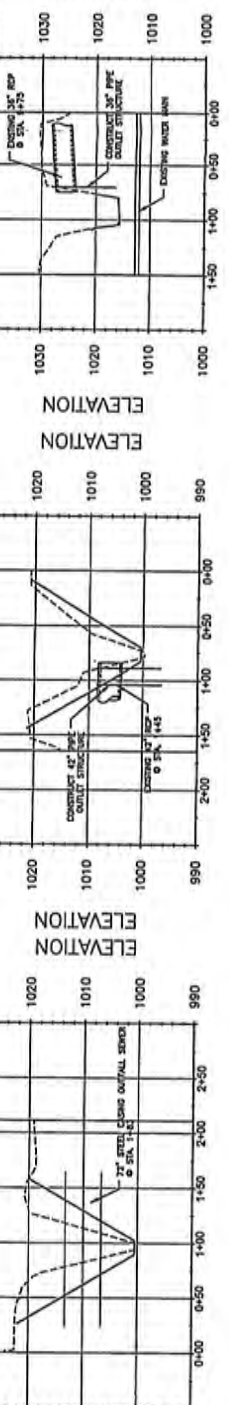
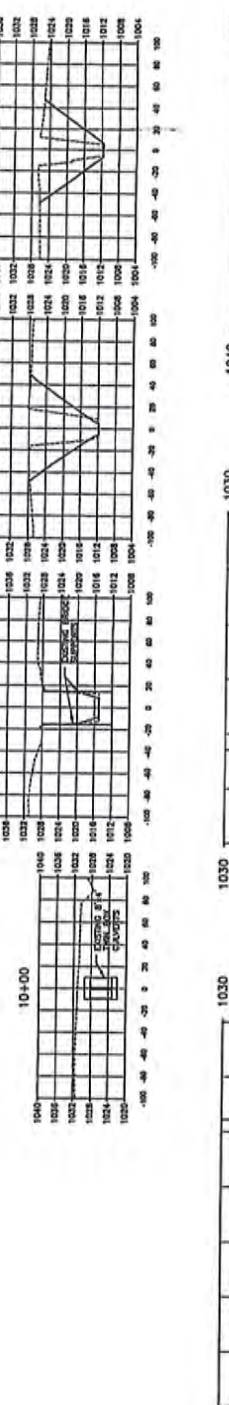
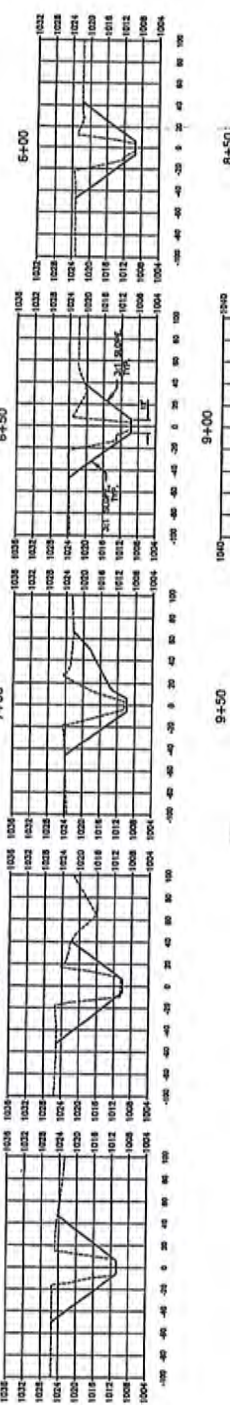
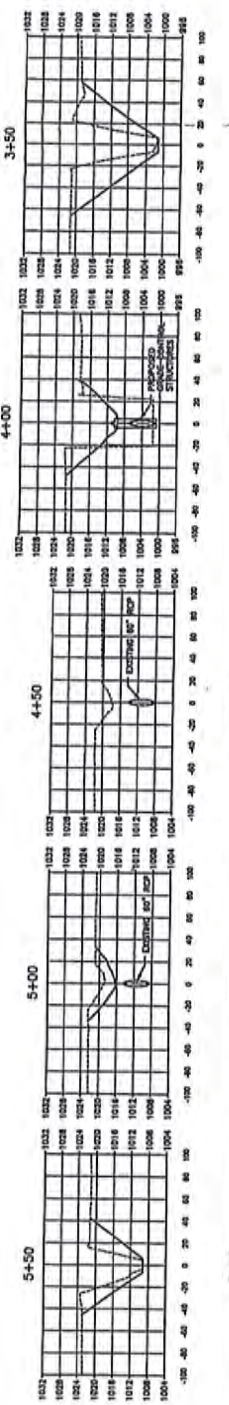
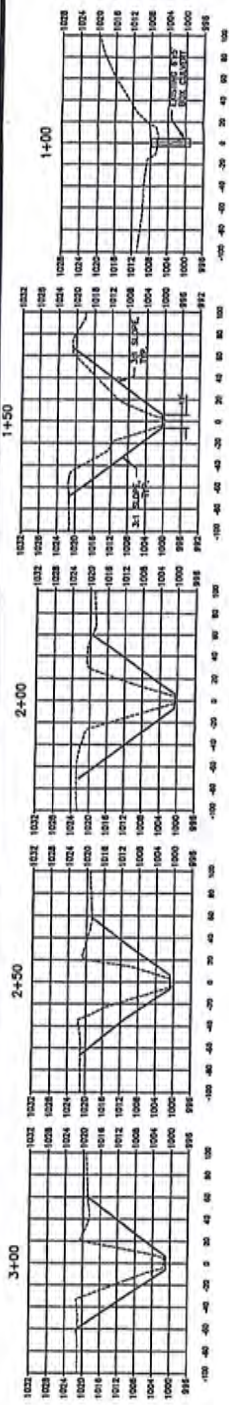
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 Job No.: 11-131
 Date: 3-18-13
 Sheet Title
**Drainage Cross
 Sections**

C1.1



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URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: March 20, 2013

2. PROJECT NAME Huntington Park Channel Rehabilitation

3. PROJECT SPONSOR: Sanitary and Improvement District 374, Douglas County

ADDRESS: c/o Mr. Dennis P. Hogan III, Attorney
10250 Regency Circle, #300
Omaha, Nebraska 68114

4. CONTACT PERSON: Dennis P. Hogan

TITLE: Attorney

5. TELEPHONE: 402-397-5500

6. E-MAIL dhogan@pheblaw.com

7. PROJECT LOCATION (attach location map):
Huntington Park, at the northwest corner of 156th and Blondo Streets (see attachments).

8. DESCRIPTION OF PROBLEM (attach additional sheets as needed):

The unnamed branch to the North Branch of the West Papillion Creek has severe erosion and degradation within the channel. The channel banks are nearly vertical and continue to be undercut and washed away which causes the channel to grow wider; washing sediment and organic material into the creek. The high volume of runoff passing through this channel with unstable bed and banks deteriorates the quality of water flowing in the creek, threatens utilities and threatens property adjacent to the banks (see attachments).

9. PROPOSED SOLUTION (attach additional sheets as needed):

Rehabilitate the existing channel by using bioengineering techniques, constructing grade control structures and lengthening the channel.

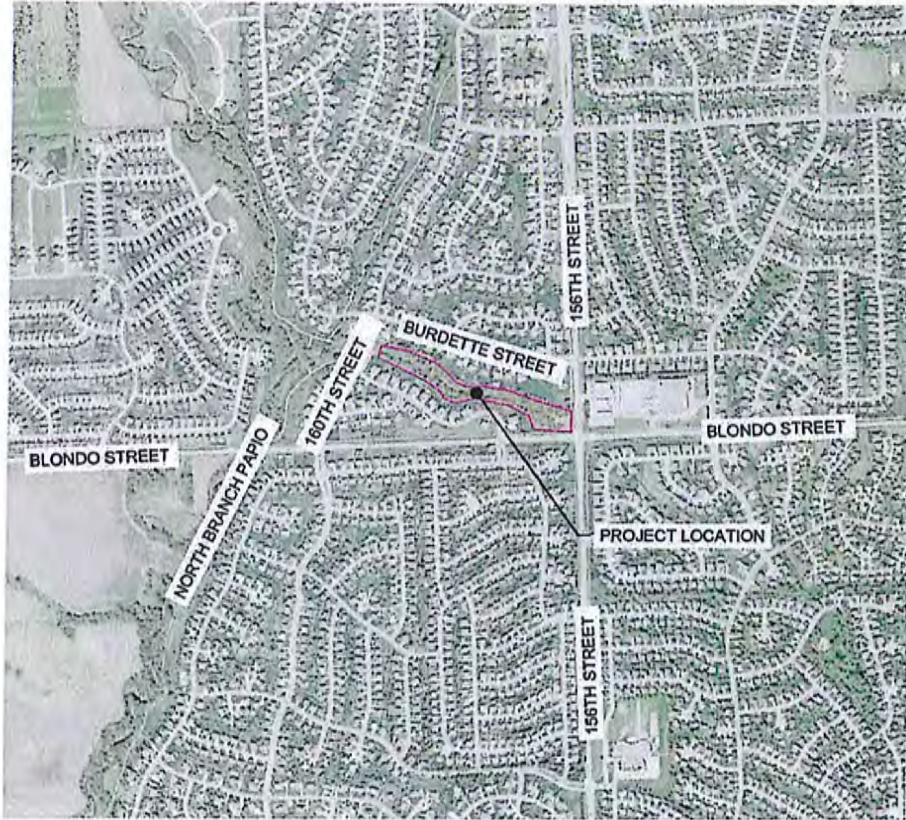
10. PROJECT FUNDING LEVEL: LEVEL 1: LEVEL 2: LEVEL 3: X
(Attach justification for funding level selected – see program guidelines)


11. TOTAL ESTIMATED COST: \$ 1,937,350.00

12. COST SHARE REQUESTED: \$ 774,940.00

13. SIGNATURE/TITLE: *Dennis P. Hogan*, *Project Manager*

LOCATION MAP



	Job Number: 920-129	Date: 03-16-13	Huntington Park Channel Rehabilitation
	Thompson, Dressen & Dorner, Inc. 10836 Old Mill Rd Omaha, NE 68154 p. 402.330.8860 www.td2co.com	Drawn By: BPH Reviewed By: DAK Revision Date: ..	Location Map Page 1 of 1

EXISTING CONDITIONS

The existing condition of the unnamed tributary to the North Branch of the West Papillion Creek, running through SID No. 374, Douglas County Huntington Park, shows severe channel erosion and degradation. Existing grade control structures throughout the length of the channel have failed causing large washouts along the channel sides (see photos: 1 and 1A page 6). The channel banks are nearly vertical and continue to be undercut and washed away causing the channel to grow wider as sediment and organic material washes into the creek. The high volume of runoff passing through this channel with its unstable bed and banks deteriorates the water quality flowing in the creek, threatens utilities, and endangers property adjacent to the banks (see photos: 2 and 2A, page 7).

At the upstream end of the channel, an 8' x 10' box culvert and an 84" RCP culvert discharge into the channel. The outlet areas of these two structures continue to washout and erode despite previous efforts to repair the area with rip rap (see photos: 3 and 3A, page 8). Approximately 100 feet downstream of the culverts, a 52" CMP discharges into the south side of the channel causing severe channel erosion problems. This section of work is proposed to be completed under the City of Omaha Public Works Department 156th Street Improvements in late 2015 or early 2016.

Further downstream an 18" CMP with a pile bent structure sits approximately 10 feet from the channel bank, out in the middle of the channel (see photos: 4 and 4A, page 9). This photo illustrates how far back the channel side slopes have eroded since their installation in the early 1990's.

Mature trees exist through the proposed project area and possess significant value in keeping. However, some of the existing mature trees are in poor condition due to their supporting soils being undercut and exposing their roots. Once undercut, these trees periodically fall into channel. There are also numerous "junk" trees populating the project area.

Exhibit photos P1 thru P10 can be seen on Exhibit C1.0. These photos further show existing conditions, the I.D. numbers reference the photo location and direction of view.

The City of Omaha provided correspondence to SID No. 374, Douglas County on March 12, 2013 expressing support for this project from both City of Omaha Finance and Public Works. This project was approved for funding by the NRD in 2011, but the City of Omaha did not approve the expenditure by SID No. 374.

Existing Conditions Photos 1 and 1A



PHOTO 1: This 2011 photo shows the massive washout below the existing grade control structure and how water is being forced below the structure and along the bank. With further degradation, the vertical slopes may encroach on the sanitary outfall sewer located along the channel's south side.



PHOTO 1A. This 2013 photo shows the washout below the existing grade control structure has become larger and has moved further to the south. Water forced below the structure and along the bank is causing additional channel bank erosion. The vertical slope has encroached closer to the sanitary outfall sewer located at the channel's south side.

Existing Conditions Photo 2 and 2A



Photo 2. This 2011 photo shows the nearly vertical side slopes present along the channel banks and the way the channel undercuts the side slopes and washes sediment downstream.



Photo 2A. This 2013 photo shows the nearly vertical side slopes present along the channel banks and the way the channel undercuts the side slopes and exposes the existing tree roots. The vertical bank is greater than 12 feet in height.

Existing Conditions Photo 3 and 3A



Photo 3. This 2011 photo is taken from standing at the outlet of the 8' x 10' box culvert and the 84" RCP culvert, while looking downstream. The significant washout and erosion along the side slopes can be seen. The large washout of rip rap and movement of rip rap downstream can also be seen in the photo.



Photo 3A. This 2013 photo taken from the same location shows there has been additional bank erosion and transport of rip rap.

Existing Conditions Photo 4 and 4A



Photo 4. This 2011 photo shows an existing 18" CMP and pile bent structure exposed in the channel. The end of the CMP and pile bent structure were originally constructed at the edge of the channel bank. This photo shows how the channel has eroded approximately 10 feet wider behind the pile bent structure and 6 feet deeper than when originally installed.



Photo 4A. This 2013 photo shows the channel has eroded approximately 1 foot wider since 2011. The bank on the opposite side of the channel has become more vertical.

PROPOSED IMPROVEMENTS

The proposed improvements designed for this project repair existing erosion to the channel and side slopes, while creating a more sustainable channel grade to prevent future degradation. We propose the following methods, products, and materials:

- Lengthening the channel
- Restoring natural channel bends
- Open cell articulated concrete blocks
- Grade control structures
- Energy dissipaters
- High strength turf reinforcement mats
- Organic fiber turf reinforcement mats
- Coir logs
- Fascine bundles
- Vegetated retaining wall
- Flood control bench

Measures and Benefits

Open cell articulated concrete blocks will be used to armor the channel in areas where severe erosion has occurred and is anticipated to occur in the future. The block's open cell nature allows them to fill with soil and become a stable zone for root growth, while the concrete helps shield the channel from eroding and washing sediment downstream.

Grade control structures placed throughout the length of the channel constructed with earth fill will have the open cell articulated concrete blocks placed over them. The earth fill, placed to create a small check dam in the channel, will create ponding behind the grade control structure. This ponded area enhances habitat, allows for additional infiltration, and restores a connection to the original floodplain. The ponding also reduces velocity in the channel, allowing sediment to deposit and create more stability.

We propose energy dissipaters constructed at the outlet of the 8' x 10' box culvert extension and the 84" RCP culvert extension be constructed under the City of Omaha Public Works Department 156th Street Improvements project at the upstream end of the channel located at 156th Street. At this outlet, open cell articulated concrete blocks will armor this portion of the channel experiencing high velocities of water discharging from the culverts. The energy dissipating structures constructed within the open cell articulated concrete blocks help reduce the energy of the water as it comes out of the culverts.

High-strength turf reinforcement mat placed along the channel will help stabilize vegetation on channel side slopes. The matting protects the seed during establishment and helps permanently reinforce the vegetation.

Organic fiber turf, reinforcement mat placed in the upper area of the new channel side slopes will help establish vegetation in the area. This area is above the expected high water mark and will not experience flowing water except in severe flooding conditions.

Coir logs placed on both sides of the channel will aid in establishing channel alignment. Placed above the open cell articulated concrete blocks and the high strength turf reinforcement mat the logs provide a defined barrier between the newly graded channel and the upper portion of the project area not expected to experience flows. They will also collect and hold mineral and organic particles promoting root growth and slowly degrade leaving nutrients for the vegetation.

Fascine bundles placed on both sides of a majority of the channel's length will act as mini-dam structures holding soil fill on the face of the stream. Installed above the coir logs, the bundles constructed from dormant willow, alder or shrub dogwood trees, will be incorporated into the organic fiber turf reinforcement mat and provide a natural barrier between the disturbed and undisturbed project areas.

Constructed at the west (downstream) end of the project area, between the downstream grade control structure and the existing twin 8' x 10' box culvert, both vegetated retaining walls and a flood control bench will help provide a stable area and additional stormwater storage in extreme flood conditions when the box culvert does not have enough capacity. The vegetated retaining wall also limits the amount of disturbed project area.

See Exhibit C2.0 for proposed site plan.

This restoration project meets the Urban Drainageway Program Level 3 Rehabilitation. This drainageway restoration project affects the reach of the drainageway between 156th Street and 160th Street, adding length to the existing channel but is generally confined to the existing channel pattern. The bioengineering and structural techniques employed will enhance habitat, improve water quality, and provide flow retention. A limited hydraulic connection to flood plain will be restored and pools for groundwater recharge created.

COST ESTIMATE

Huntington Park Channel Rehabilitation					
TD2 Project Number: 920-129					
Estimated Construction Cost					
Item	Description	Approx. Quantity	Unit	Unit Price	Amount
1	Clearing and Grubbing	1	L.S.	\$100,000	\$100,000
2	Erosion Control	1	L.S.	\$20,000	\$20,000
3	Channel Grading, In Place	15,000	CY	\$15	\$225,000
4	Haul in Fill, In Place	44,300	CY	\$15	\$604,500
5	Existing Storm Sewer Rehabilitation	1	L.S.	\$10,000	\$10,000
6	N.A.G. C125BN Organic Erosion Control Mat	5,500	S.Y.	\$12	\$66,000
7	N.A.G. SC250 Erosion Control Mat	3,700	S.Y.	\$10	\$37,000
8	Native Grass Seed	3.5	A.C.	\$2,000	\$7,000
9	Vegetated Retaining Wall	4,400	S.F.	\$30	\$132,000
10	Coir Logs	4,000	L.F.	\$30	\$120,000
11	Fascine Bundles	4,000	L.F.	\$25	\$100,000
12	2" Caliper Trees	300	EA.	\$300	\$90,000
13	Site/Landscaping Restoration	1	L.S.	\$20,000	\$20,000
	SUBTOTAL				\$1,531,500
	10% CONTINGENCY				\$153,150
	TOTAL ESTIMATED CONSTRUCTION COST				\$1,684,650
	ESTIMATED ENGINEERING, SURVEY, AND CONSTRUCTION OBSERVATION COSTS (15%)				\$252,700
	TOTAL ESTIMATED COST				\$1,937,350
	40% NRD COST SHARE				\$774,940

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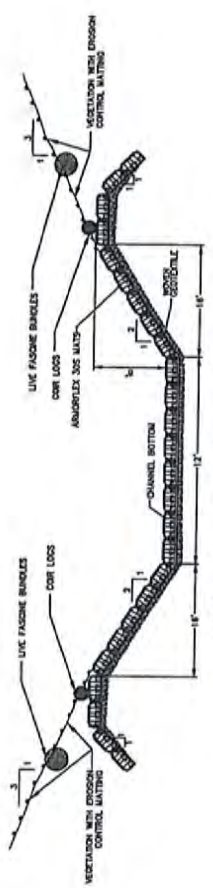
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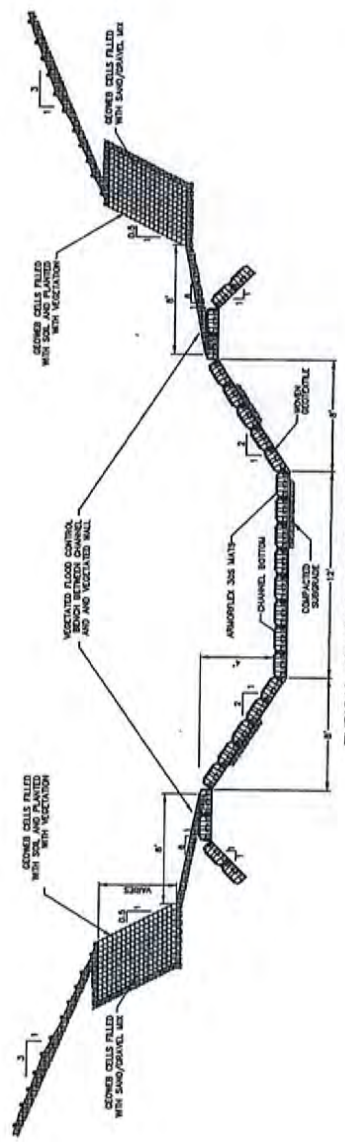
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**Proposed Typical
Cross-Sections**

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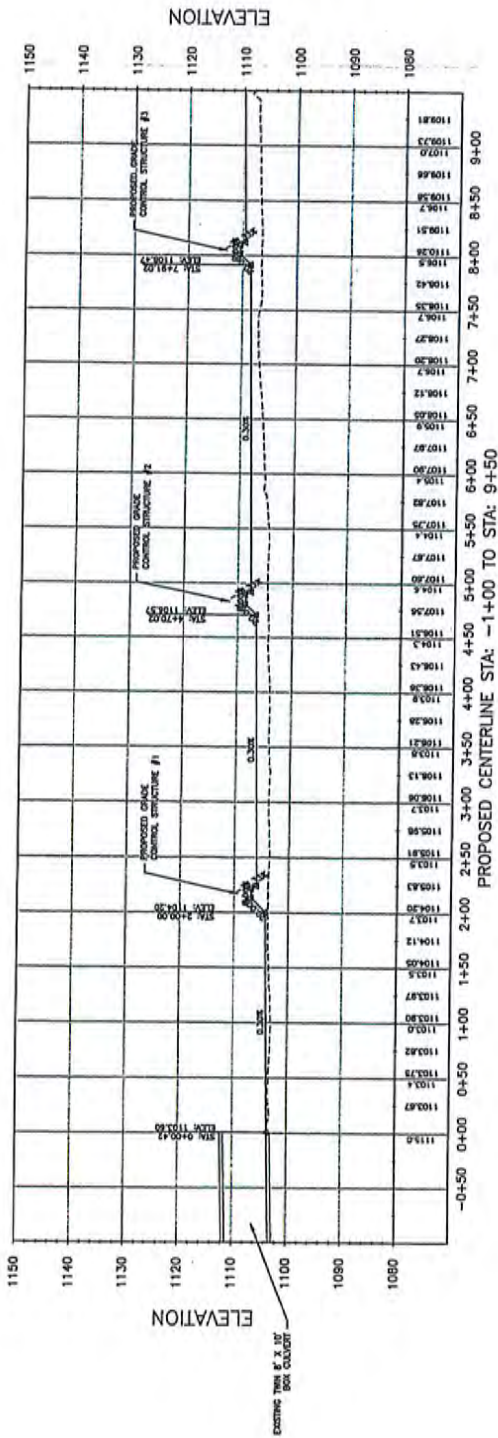
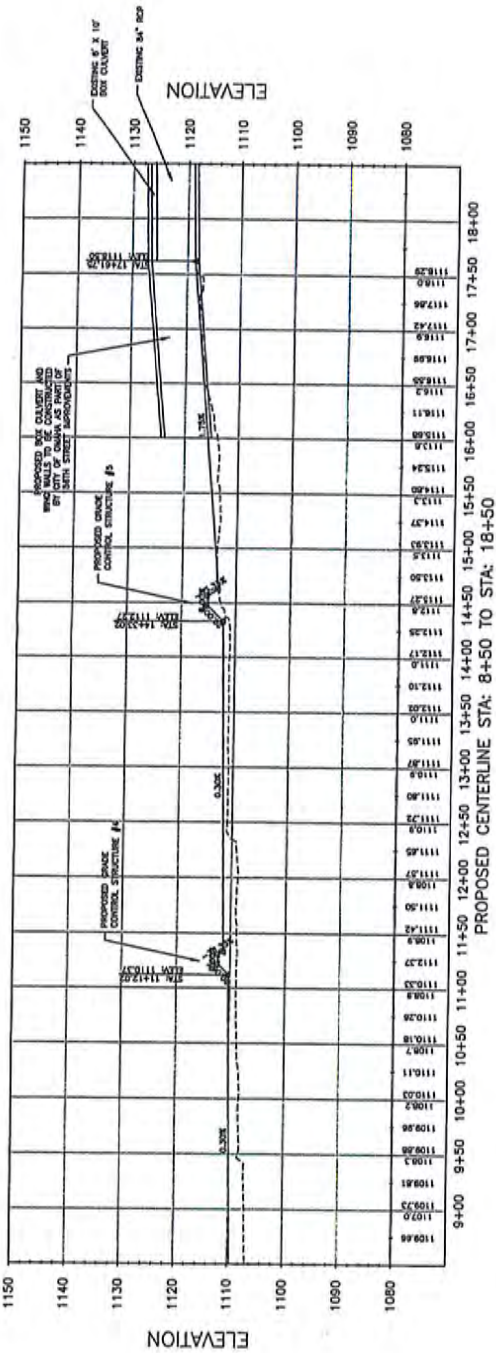


TYPICAL CHANNEL LINING CROSS SECTION
WITH ARTICULATED CONCRETE BLOCKS
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TYPICAL CHANNEL CROSS SECTION WITH
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NOT TO SCALE. THIS IS AN UNCONTROLLED DOCUMENT. FOR A LATEST REVISION, SEE DRAWING REVISIONS OR DRAWING REVISIONS AND DATE. 07/19/13



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**Proposed Channel
Profile**

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URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

- 1. DATE:** March 20, 2013
- 2. PROJECT NAME** OPW 52296 - Big Papillion Creek Storm Sewer Outlet Repair - West Dodge Road to Blondo Street
- 3. PROJECT SPONSOR:** City of Omaha Public Works Department
- ADDRESS:** 1819 Farnam Street, Suite 600
Omaha, Nebraska 68183
- 4. CONTACT PERSON:** Ned Tramp
- TITLE:** Civil Engineer II
- 5. TELEPHONE:** (402) 444-4966
- 6. E-MAIL** ntramp@ci.omaha.ne.us

7. PROJECT LOCATION (attach location map):
 Three storm sewer outlets on the east (left) bank of Big Papillion Creek within the nearly one-mile-long stretch between West Dodge Road and Blondo Street in Omaha, Nebraska (see attached preliminary plan sheets for aerial location map)


8. DESCRIPTION OF PROBLEM (attach additional sheets as needed):
 Two 48-inch-diameter storm sewer outlets, one a CMP and the other an RCP, have been rated to be in poor condition by the Douglas County Environmental Services Office. The 48-inch RCP outlet, labeled as "Area 2" on the preliminary plans, has a couple of toppled pipe sections and a failed timber pile bent structure. The 48-inch CMP is labeled as "Area 3" and likely requires debris and sediment clearing along with a new pile bent structure and rip rap protection. The most urgent repair required is the 114-inch RCP outlet labeled "Area 1" on the plans. Severe erosion from the creek flow is threatening the existing concrete sill outlet from the 114-inch pipe; if erosion continues to undermine the sill, the stability of the adjacent Papillion Parkway embankment could eventually be threatened.

9. PROPOSED SOLUTION (attach additional sheets as needed):
 New timber pile bent structures and rip rap protection are the proposed solutions for the two 48-inch pipes referenced above along with bank grading, erosion control matting, and seeding. A new energy dissipator structure is the proposed solution to the severe erosion at the 114-inch RCP outlet; rip rap protection, bank grading, erosion control matting, and seeding will also be included. See the attached letter and preliminary plans for additional information.

10. PROJECT FUNDING LEVEL: LEVEL 1: LEVEL 2: LEVEL 3: X
 (Attach justification for funding level selected – see program guidelines)

11. TOTAL ESTIMATED COST: \$ 310,774

12. COST SHARE REQUESTED: \$ 124,300

13. SIGNATURE/TITLE: 





City of Omaha
Jim Suttle, Mayor

March 20, 2013

Mr. Gerry Bowen
Natural Resources Planner
Papio-Missouri River NRD
8901 S. 154th Street
Omaha, Nebraska 68138-3621

RE: OPW 52296 – Big Papillion Creek Storm Sewer Outlet Repair
West Dodge Road to Blondo Street
NRD Urban Drainageway Program Grant Application Submittal

Dear Mr. Bowen:

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

- 1) Two (2) copies of the completed Form 17.17 for the Urban Drainageway Program Special Project Request Application;
- 2) Two (2) copies of the preliminary plans for this storm sewer outlet repair project on 11"x17" paper (7 sheets total);
- 3) Two (2) copies of the project's preliminary cost estimate;
- 4) Two (2) copies of this letter.

The City of Omaha owns several storm sewer outlets that drain to Big Papillion Creek, which is a major drainageway through the west area of Omaha. For the past several years, the Papio NRD has approached the City of Omaha to request repairs of several storm sewer outlets in the area between West Dodge Road and Blondo Street that have undergone structural damage or severe damage from creek flow erosion. These outlets have been given "Poor" ratings by the Douglas County Environmental Services Office. The Design Division at Omaha Public Works concurs that these repairs are necessary and has initiated a project to design the repairs for these structures and hired CDM Smith as the engineering consultant to develop the plans, contract documents, and cost estimate.

This project primarily involves work to provide creek bank stabilization; therefore, the City is hereby requesting a **Level 3 (Stabilization)** for the project eligibility level of design and a 40% cost share through the use of the Urban Drainageway Program funds. The following four pages show photos and information about the areas to be repaired for this project.

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

**Area 1 – 114” RCP Storm Sewer Outlet
View from Big Papillion Creek**



The City proposes to construct a permanent energy dissipator structure to the end of this 114-inch-diameter pipe and fill in the existing low-flow pipe with flowable fill. The low-flow pipe is currently plugged with sediment and debris. Papillion Parkway is adjacent to the creek channel in this area and is located directly behind the railing shown in this photo. Erosion damage from the creek flow is working its way east and beginning to cut into the existing Papillion Parkway embankment, which will eventually threaten its stability.

**Area 1 – 114" RCP Storm Sewer Outlet
View from Papillion Parkway**



**Area 2 – 48” RCP Storm Sewer Outlet
Near Blondo Street**



The outlet sections of this RCP will be repaired and a new timber pile bent structure and rip rap protection will be installed. The creek bank will also be graded back to original grades in this area, and seeding and erosion protection will be provided.

**Area 3 – 48" CMP Storm Sewer Outlet
(Between Areas 1 and 2, draining inlets from Papillion Parkway)**



The damage to this CMP outlet was brought to our attention recently through the Douglas County erosion inspection report for this section of creek channel from December 2012. Although this pipe repair was not in our original scope of services with CDM Smith, we will direct CDM Smith to survey this area and include a repair plan for this area in this project. We anticipate that this pipe will require similar repair to what is required of the Area 2 repair: a new timber pile bent structure (with possible pipe modification), rip rap outlet protection, and minor bank grading and erosion protection.

Cost Estimate

CDM Smith has developed a preliminary cost estimate for repair of Areas 1 and 2, which was the extent of their original engineering scope prior to when the City was requested to include Area 3. The itemized cost estimate includes estimated fees for contractor bonding, overhead and profit, and other factors for Areas 1 and 2 only. If you break out the raw construction item costs from the bonding and overhead costs, the total cost estimate for Area 1 (the permanent energy dissipator) is approximately \$237,400, and the total cost estimate for Area 2 is approximately \$73,000. CDM Smith included construction contingency costs of \$60,344 for Areas 1 and 2; the figure of \$60,000 seems to be a reasonable estimate to repair Area 3 since this repair should be similar to the repair required for Area 2. We also have to consider some minor surface repair and seeding associated with construction equipment traffic and trail traffic coordination. Therefore, the overall project cost estimate at this time if we swap the \$60,000 contingency from CDM Smith's estimate for the repairs needed for Area 3 is \$310,774 as listed on the application request form. Forty percent of this figure is approximately \$124,300, which is what the City is requesting from this grant application.

Construction Implementation Schedule

The City of Omaha Public Works Department has included this project in its anticipated list of construction projects for the 2013 construction season. At this time, we anticipate that the preparation of the final plans and possible Corps of Engineers Nationwide Permit coordination to be complete by the end of July 2013. This schedule would likely place the construction start date around September or early October 2013; however, this schedule is conservative and construction could start earlier this summer. Discussion between the design team and the NRD will be required to obtain any necessary construction easements and to agree on a single trail crossing access for construction equipment, staging area, and seeding requirements. It is the intention of the Public Works Department to keep the Big Papillion Creek Trail open at all times during the construction of this project and to repair or modify the crossing area as needed.

Environmental Acceptability Statement

The City of Omaha, during the 2010 and 2011 construction season, constructed a new 60-inch-diameter sanitary interceptor sewer in this area between West Dodge Road and Blondo Street. No known environmental database sites are located within this project area. Soil borings and significant pipe excavation from the 2010 interceptor sewer project did not encounter any contaminated soils.

Preliminary Survey, Design Information, and Location Maps

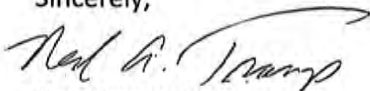
CDM Smith has performed existing topographic survey for Areas 1 and 2 and will be obtaining additional survey for Area 3. Refer to the preliminary plan sheets that are part of this grant application submittal for the existing survey, proposed design solutions, and aerial location maps for each of the three areas.

Additional Sponsor Responsibilities

The City of Omaha Public Works Department shall administer the engineering design contract and will provide construction administration and inspection services internally for this project. We will obtain temporary construction easements from the NRD or adjacent property owners as necessary after additional coordination and as the plans progress to final design. 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 NRD 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 NRD. The City also agrees to provide all future operation and maintenance to these storm sewer outlet structures at no cost to the NRD.

On behalf of the City of Omaha Public Works Department, I hope that you and the NRD Board of Directors look favorably on the intent of this project and provide the \$124,300 cost share amount as part of this Special Project Request Application. Please feel free to contact me at (402) 444-4966 if you have questions or require additional information for this grant request.

Sincerely,



Ned Tramp, P.E.
City Project Manager

Enclosures

Cc: Kirk Pfeffer, City Design Engineer

City of Omaha, NE
Big Papio Dissipator
Opinion of Probable Construction Cost, Mar 2013, 0% Design

Project name 2013-03 Papio Dissipator
NE
USA
Job size 1 MGD
Project
Papio Outlets
Facilities
Construction Type
OmniClass Table 11
41 21 14 Stormwater
OmniClass Table 12
0- Not Applicable
Estimating Office
Denver, CO
Type of Estimate
OPC-000 (Budget)
Reviewed by:
TS
DB 7.0
ENR 20 City CCI
9434.27

Notes

This is an Opinion of Probable Construction Cost only, as defined by the documents provided at the level of design indicated above. CDM Smith has no control over the cost of labor, materials, equipment, or services furnished, over schedules, over contractor's methods of determining prices, competitive bidding (at least 3 each - both prime bidders and major subcontractors), market conditions or negotiating terms. CDM Smith does not guarantee that this opinion will not vary from actual cost, or contractor's bids.

There are not any costs provided for: Change Orders, Design Engineering, Construction Oversight, Client Costs, Finance or Funding Costs, Legal Fees, Land Acquisition or Temporary/Permanent Easements, Operations, or any other costs associated with this project that are not specifically part of the bidding contractor's proposed scope.

This OFCC shall remain valid for 120 days. Beyond this date, CDM Constructors should be notified of design changes. The estimate will also be reviewed to reflect current market conditions.

Assumptions:

No rock excavation is required.
Only nominal dewatering is needed.
No consideration for contaminated soils or hazardous materials is included (i.e. asbestos, lead, etc).
Based on a normal 40 hour work week with no overtime.

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Amount
05 48" Sewer Outlet							
02450 Foundation & Load Bearing Elements							
02450.0500 Timber Piles							
Layout Piles							
Pile Cutoff	2 ea	58					
Haul & Dispose Pile Cut-off	2 ea	58					58
Mobilize & Demobilize	0 cy	3			30		88
Treated Wood Piles 12"	1 ea			35,000	5		35,000
Pile Bridging	50 vf	227	749		160		1,136
	1 ls	695	250				945
02450.0500 Timber Piles	1 ls	1,041	999	35,000	195		37,236
02600 Drainage & Containment							
02600.0500 48" RCP							
Layout & Stake Pipe Excavation	20 lf	4	2				
Trenching- Excavator C320-20MT- 140HP/1.25cy. Average Exc.	41 cy	37			51		88
Trench Bedding-Excavator C320-20MT- 140HP/1.25cy	2 cy	8			5		12
Trench Native Backfill- Loader C938 3cy	29 cy	66			33		99
Load & Haul Trenching Spoils to Stockpile-C446 Backhoe Loader- 85hp/1.37CY/Dump Truck 8cy (4ea)	12 cy	11			16		27
Pipe Detectable/Non-Detectable Taps	20 lf	3	1				4
EXCAVATION SPOILS-SOURCES OF FILL (Grand Total)	12 CY						
Trenching Spoils (Summary)	12 CY						
Load Spoils from Stockpile Cat 325 Excavator-32MT- 180hp	12 cy	4			7		10
Haul Spoils/Off Site 18cy Rear Dump 2 Load/Hour	11				25		36
Unload Care & Protect RCP & Fittings	20 lf	0			0		0
Layout Pipe & Fitting	20 lf	9					9
RCP Equipment- Cat. 325 Excavator	3 ch	114			217		332
RCP Class III Pipe 48"	20 lf	773	1,768				2,541
RCP Interior Grout Joint 48	5 ea	221	200				421
RCP Exterior Grout Joint (diaper) 48	442	250					692
RCP-Encase Closure 48	716						878
02600.0500 48" RCP	1 LS	2,418	2,383		354		5,155
02600 Drainage & Containment							
05 48" Sewer Outlet							
10 114" Sewer Outlet							
02220 Demolition							
02220.0500 Demo Existing Outfall							
Operator- Medium Equipment	16 mh	526					526
Concrete Demo	50 cy	7,303			1,086		8,339
Load Demo to Stockpile Cat 325 Excavator	1 cy	0					1
Haul Demo/On Site 8cy Rear Dump	1 cy	3			3		6
Load Off-site Haul Cat 325 Excavator 140hp	1 cy	0			1		1
Haul Demo/Off Site 20cy Rear Dump 2 Load/Hour	6 load	77			177		254
Demo/Tipping Fees- Concrete/Masonry	50 cy			3,131			3,131
Hydraulic Hoe Ram -Large	572				1,950		2,522
02220.0500 Demo Existing Outfall	1 LS	8,481	8,481	3,131	3,167		14,780
02220 Demolition							
02300 Earthwork							
02300.0500 Rip-Rap							
Rip Rap Machine Place	2,100 sf	1,502	4,725				9,079
Geotextile Fabric	250 sy	98	241		28		368
02300.0500 Rip-Rap	2,100 SF	1,601	4,966		2,881		9,447
02300.0501 Grading							
Mob / DeMob Earthwork Equip (8hr each way)	2 ea	818			2,055		2,874
EXCAVATION CUT TO STOCKPILE (Summary)	100 CY						
Cut to Stockpile- Loader C963-19MT-160HP-3.00cy	100 cy	19			32		52
FINE GRADE (Summary)	4,500 sf						

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Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Amount
02300.0501 Grading	4,500 sf	47	-	-	-	-	-
Fine Grader- Grader G12	2 ea	818	-	-	56	-	103
Mob / DeMob Earthwork Equip (8hr each way)	8 CY	-	-	-	2,055	-	2,874
EXCAVATION (Summary)							
Excav- Backhoe Loader C446 9MT-17+30" Bucket-1.5cy Loader	8 CY	9	-	-	-	-	-
Load & Haul Cut to Stockpile-C446 Backhoe Loader- 85hp/1.37CY/Dump Truck 8cy (4ea)	8 CY	7	-	-	11	-	20
Foundation Subgrade- Scarify & Recompact	70 sf	7	-	-	4	-	18
EXCAVATION SPOILS-SOURCES of FILL (Grand Total)							
Foundation Excavation Spoils (Summary)	8 CY	-	-	-	-	-	11
Load Spoils from Stockpile- Backhoe Loader C446 9MT-17+30" Bucket-1.5cy Loader	8 CY	2	-	-	-	-	5
Haul Spoils/Off Site 18cy Rear Dump 2 Load/Hour	8 CY	7	-	-	3	-	24
02300.0501 Grading	1 LS	1,736	-	-	4,242	-	5,979
02300 Earthwork	3,337	3,337	4,966	-	7,123	-	15,426
03000 CONCRETE							
03000.0500 Dissipator Base Slab							
Import Gravel Fill	30 CY	-	277	222	-	-	499
Total Formwork	367 csf	-	-	-	-	-	-
Slab-on-Grade Form Oil & Hdwr	367 sf	-	194	-	-	-	194
Slab-on-Grade Form Hoisting	367 sf	-	-	-	53	-	53
Hand Fine Grade SOG	823 sf	192	-	-	-	-	192
Slab-on-Grade < 36" 3 Form Uses	367 sf	2,428	437	-	-	-	2,865
Rebar Accessories/Unload & Store	12 ln	175	124	-	55	-	354
SOG Rebar	12 ln	7,964	11,714	-	-	-	19,699
Total SOG Concrete	99 CY	-	-	-	-	-	-
Pump Place Slab on Grade	99 CY	545	-	-	-	-	545
Float Finish @ SOG	823 sf	156	-	-	-	-	156
Water Base Non-Residual Cure	823 sf	39	32	-	-	-	71
SOG Concrete Pump- 92' Boom (28m)	99 CY	-	-	389	-	-	389
Total Concrete Pumping (Summary)	99 CY	-	-	-	-	193	582
Total Redi-Mix Concrete (Summary)	99 CY	-	-	-	-	-	-
4500 psi Concrete- Central Region	99 CY	-	9,892	-	-	-	9,892
03000.0500 Dissipator Base Slab	99 CY	11,519	22,669	611	108	-	35,100
03000.0501 Dissipator Head Wall							
Total Formwork	683 csf	-	-	-	-	-	-
Lumber Wall Form Oil & Hardware	683 sf	-	976	-	-	-	976
Lumber Wall Form Hoisting	683 sf	142	-	-	46	-	188
Wall-Lumber Formed 20 Ft- 3 Form Use	683 sf	3,063	1,056	-	-	-	4,139
Blast Clean Wall Construction Joints	35 sf	123	15	-	-	-	138
Boxout Contact Square Ft	0 sf	0	0	-	-	-	0
Chamfer Strip	74 lf	34	24	-	-	-	58
Rebar Accessories/Unload & Store	2 ln	1,567	2,300	-	11	-	3,877
Wall Rebar	2 ln	-	-	-	-	-	-
Total Wall Concrete	19 CY	-	-	-	-	-	-
Pump Place Walls	19 CY	460	-	-	-	-	460
Grout Bed for Horiz Const Joint	18 lf	21	10	-	-	-	31
Trowel Finish @ Wall Top	35 sf	12	-	-	-	-	12
Point & Patch Walls	683 sf	323	7	-	-	-	330
Water Base Non-Residual Cure	718 sf	34	28	-	-	-	62
Concrete Pump- 92' Boom (28m)	19 CY	-	-	318	-	-	318
Total Concrete Pumping (Summary)	19 CY	-	-	-	-	38	356
Total Redi-Mix Concrete (Summary)	19 CY	-	-	-	-	-	-
4500 psi Concrete- Central Region	19 CY	-	1,941	-	-	-	1,941
03000.0501 Dissipator Head Wall	19 CY	5,799	6,376	318	57	-	12,588
03000.0502 Dissipator Side Walls							
Total Formwork	2,457 csf	-	-	-	-	-	-
Lumber Wall Form Oil & Hardware	2,457 sf	-	3,514	-	-	-	3,514
Lumber Wall Form Hoisting	2,457 sf	512	-	-	166	-	678
Wall-Lumber Formed 16 Ft- 3 Form Use	2,397 sf	10,827	3,707	-	-	-	14,535

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Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Amount
03000.0502 Dissipator Side Walls							
Wall Plaster-Lumber Formed 8 Ft. 3 Form Use	83 sf	522	135	-	-	-	656
Blast Clean Wall Construction Joints	290 sf	1,019	122	-	-	-	1,141
Bulkheads/Construction Joints/Wall Ends	102 sf	1,152	355	-	-	-	1,508
Chamfer Strip	239 lf	66	66	-	-	-	66
Rebar Accessories/Unload & Store	11 ln	161	114	-	50	-	324
Wall Rebar	11 ln	7,828	10,751	-	-	-	18,079
Total Wall Concrete	91 cy						
Pump Place Walls	91 cy	2,151	-	-	-	-	2,151
Grout Bed for Horiz Const Joint	94 lf	111	53	-	-	-	164
Trowel Finish @ Wall Top	188 sf	67	-	-	-	-	67
Trowel Finish @ Wall Plaster/Haunch	11 sf	5	-	-	-	-	5
Point & Patch Walls	2,457 sf	1,162	25	-	-	-	1,186
Water Base Non-Residual Cure	2,645 sf	125	102	-	-	-	227
Concrete Pump- 92 Boom (28m)	91 cy	-	-	1,487	-	-	1,487
Total Concrete Pumping (Summary)	91 cy						
Total Redi-Mix Concrete (Summary)	91 cy						
4500 psi Concrete- Central Region	91 cy	-	9,079	-	-	-	9,079
03000.0502 Dissipator Side Walls	91 cy	25,141	28,023	1,487	216	177	55,045
03000.0503 Dissipator End Wall							
Total Formwork	76 csf						
Lumber Wall Form Oil & Hardware	76 sf	-	109	-	-	-	109
Lumber Wall Form Hoisting	76 sf	16	-	-	-	-	16
Wall-Lumber Formed 4 Ft. 3 Form Use	76 sf	345	128	-	5	-	478
Blast Clean Wall Construction Joints	38 sf	135	16	-	-	-	151
Bulkheads/Construction Joints/Wall Ends	11 sf	128	40	-	-	-	167
Chamfer Strip	27 lf	7	-	-	-	-	7
Rebar Accessories/Unload & Store	0 ln	5	4	-	2	-	10
Wall Rebar	0 ln	228	335	-	-	-	563
Total Wall Concrete	3 cy						
Pump Place Walls	3 cy	67	-	-	-	-	67
Grout Bed for Horiz Const Joint	14 lf	16	8	-	-	-	24
Trowel Finish @ Wall Top	27 sf	10	-	-	-	-	10
Point & Patch Walls	76 sf	36	1	-	-	-	37
Water Base Non-Residual Cure	103 sf	5	4	-	-	-	9
Concrete Pump- 92 Boom (28m)	3 cy	-	-	46	-	-	46
Total Concrete Pumping (Summary)	3 cy						
Total Redi-Mix Concrete (Summary)	3 cy						
4500 psi Concrete- Central Region	3 cy	-	282	-	-	-	282
03000.0503 Dissipator End Wall	3 cy	990	933	46	7	6	1,982
03000.0504 Center Dissipator Column							
Total Formwork	51 csf						
Column/Beam/Stair/Misc Form Oil & Hdwr	51 csf	-	17	-	-	-	17
Column/Beam/Stair/Misc Form Hoisting	51 sf	-	-	-	6	-	6
Column > 96" Girth- 3 Form Uses	51 csf	256	64	-	-	-	320
Chamfer Strip	23 lf	6	6	-	-	-	12
Rebar Accessories/Unload & Store	0 ln	2	1	-	1	-	4
Column Rebar	0 ln	84	124	-	-	-	208
Total Col/Beam/Stair/Misc. Concrete	1 cy						
Pump Place Columns	1 cy	14	-	-	-	-	14
Float Finish @ Column/Beam/Stair	5 sf	1	-	-	-	-	1
Point & Patch Column/Beam	24 sf	1	1	-	-	-	25
Water Base Non-Residual Cure	56 sf	3	2	-	-	-	5
Column/Beam/Stair/Misc. Concrete Pump- 92 Boom (28m)	1 cy	-	-	10	-	-	10
Total Concrete Pumping (Summary)	1 cy						
Total Redi-Mix Concrete (Summary)	1 cy						
4500 psi Concrete- Central Region	1 cy	-	105	-	-	-	105

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Amount
030000.0504 Center Dissipator Column	1 CY	384	320	10	6	2	722
030000.0505 Dissipator End Wing Walls							
Total Formwork	84 csf						
Lumber Wall Form Oil & Hardware	84 sf	-	120	-	-	-	120
Lumber Wall Form Hoisting	84 sf	18	-	-	-	-	18
Wall-Lumber Formed 4 Ft. 3 Form Use	84 sf	379	141	-	6	-	520
Blast Clean Wall Construction Joints	7 sf	25	3	-	-	-	28
Bulkheads/Construction Joints/Wall Ends	7 sf	79	24	-	-	-	104
Chamfer Strip	38 lf	-	10	-	-	-	10
Rebar Accessories/Unload & Store	0 ln	3	2	-	-	-	5
Wall Rebar	0 ln	150	221	-	1	-	371
Total Wall Concrete	2 cy						
Pump Place Walls	2 cy	37	-	-	-	-	37
Trowel Finish @ Wall Top	12 sf	4	-	-	-	-	4
Point & Patch Walls	84 sf	40	1	-	-	-	41
Water Base Non-Residual Cure	96 sf	5	4	-	-	-	9
Concrete Pump- 92' Boom (28m)	2 cy	-	-	25	-	-	25
Total Concrete Pumping (Summary)	2 cy						
Total Redi-Mix Concrete (Summary)	2 cy						
4500 psi Concrete- Central Region	2 cy	-	155	-	-	-	155
030000.0505 Dissipator End Wing Walls		739	681	25	7	3	1,456
030000 CONCRETE		44,572	59,003	2,497	401	419	106,892
10 114" Sewer Outlet		56,390	63,968	5,628	10,691	419	137,097

Estimate Totals

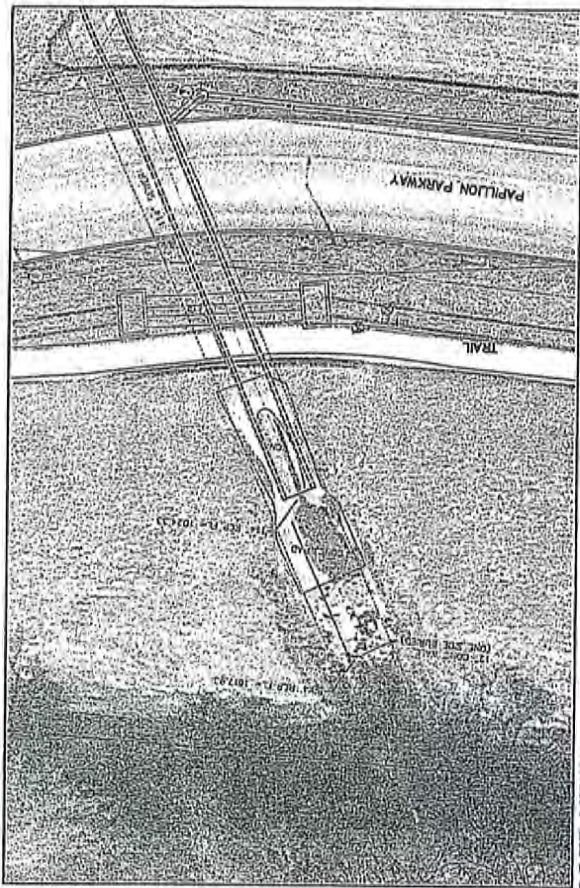
Description	Amount	Totals	Hours	Rate
Labor	59,849		2,012 hrs	
Material	67,350			
Subcontract	40,628			
Equipment	11,241		301 hrs	
Other	421			
	<u>179,489</u>	179,489		
Subtotal Direct Cost		179,489		
Permits	3,108			1.00 %
Sales Tax (Non-Permanent)	816			7.00 %
Sales Tax (Permanent Mat'l)				
Bldr's Risk Ins (% total cost)				
Gen Liab Ins (% total cost)	3,108			1.00 %
GC Bonds (% total cost)	4,662			1.50 %
	<u>11,694</u>	191,183		
Subtotal Prior to OH&P		191,183		
GC General Conditions	19,118			10.00 %
Contractor Total OH&P	31,077			10.00 %
	<u>50,195</u>	241,378		
Subtotal with OH&P		241,378		
Construction Contingency	60,344			25.00 %
	<u>60,344</u>	301,722		
Total Cost at:		301,722		
Escalation to Mid Point Constr	9,052			3.00 %
Based on 3% per year				
	<u>9,052</u>	310,774		
Total		310,774		

This Opinion of Probable Construction Cost is produced in accordance with CDM Smith's Firmwide Quality policies and best practices as described in CDM Smith's Estimating Manual Dated 01/03/12 Section 10 titled Quality Control. I hereby attest that the Cost Estimating policies and procedures were followed in preparation of the Opinion of Probable Cost.
Lead Estimator initials - TS Date 3/19/2013

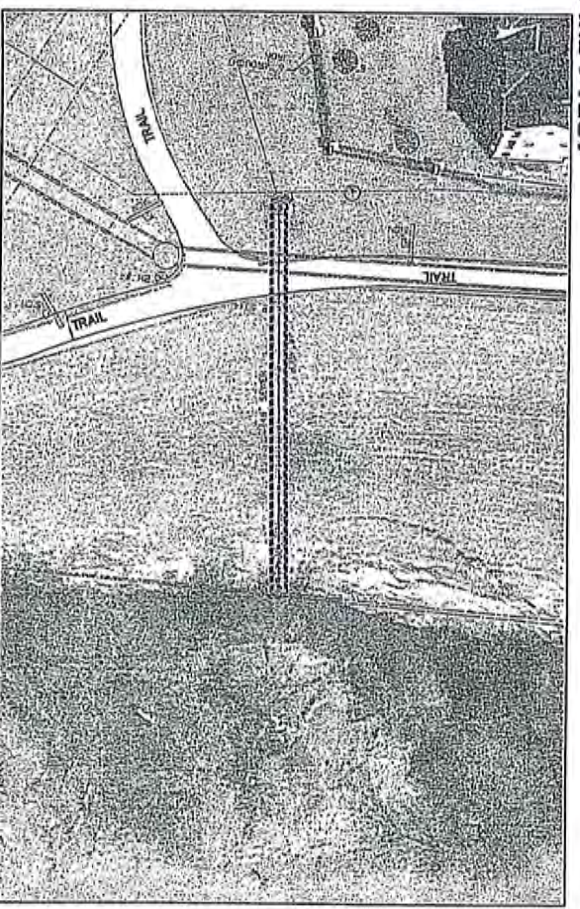


HORIZONTAL GRAPHIC SCALE IN FEET
0 10 20

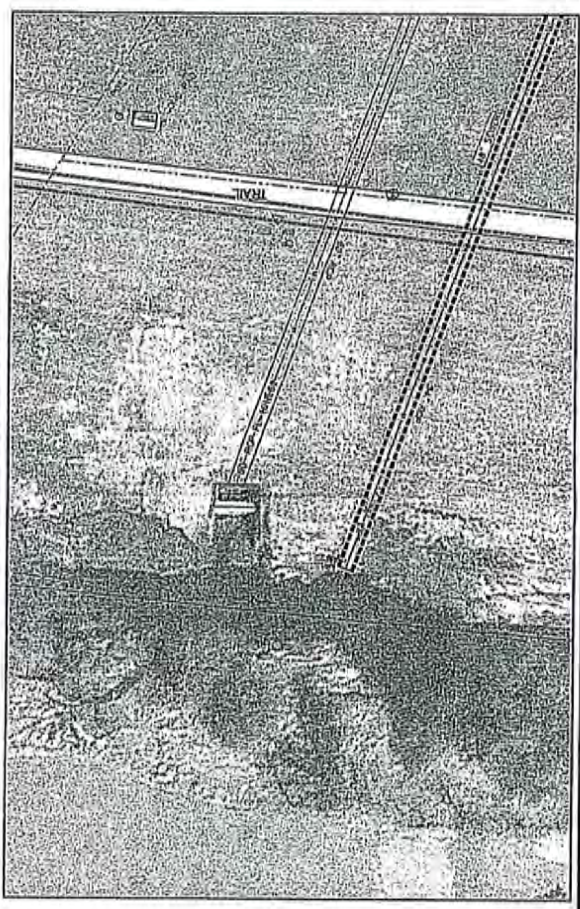
AREA 1 ENLARGED VIEW

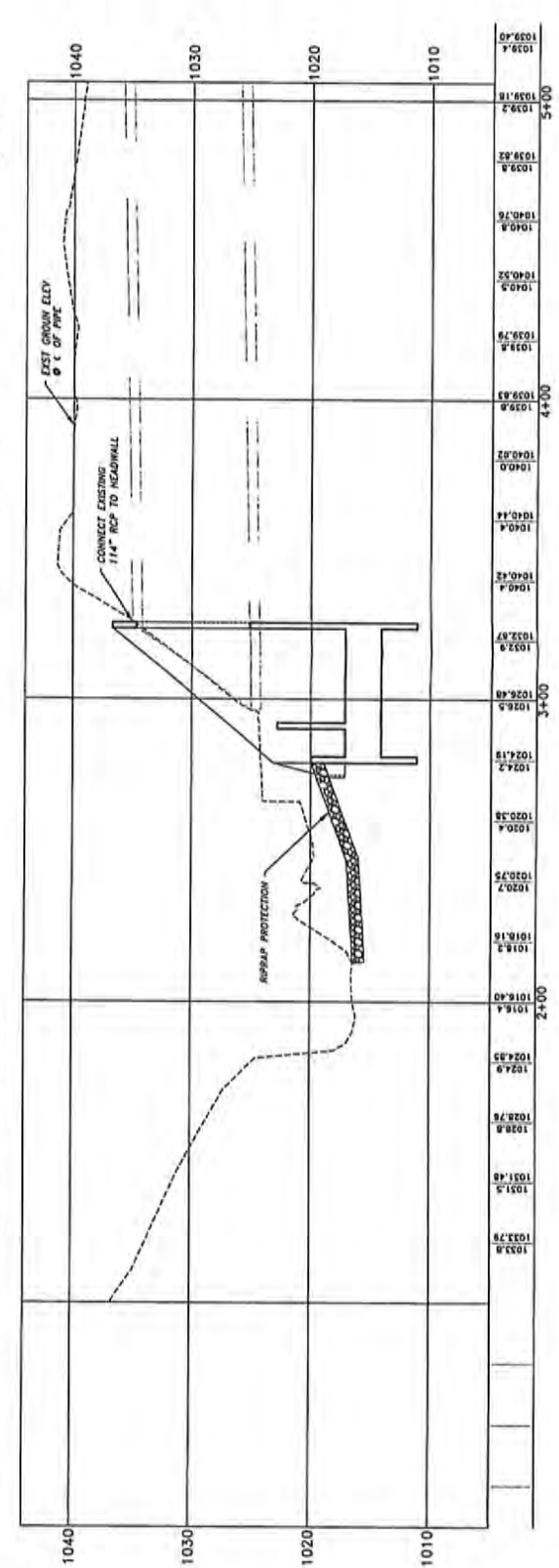
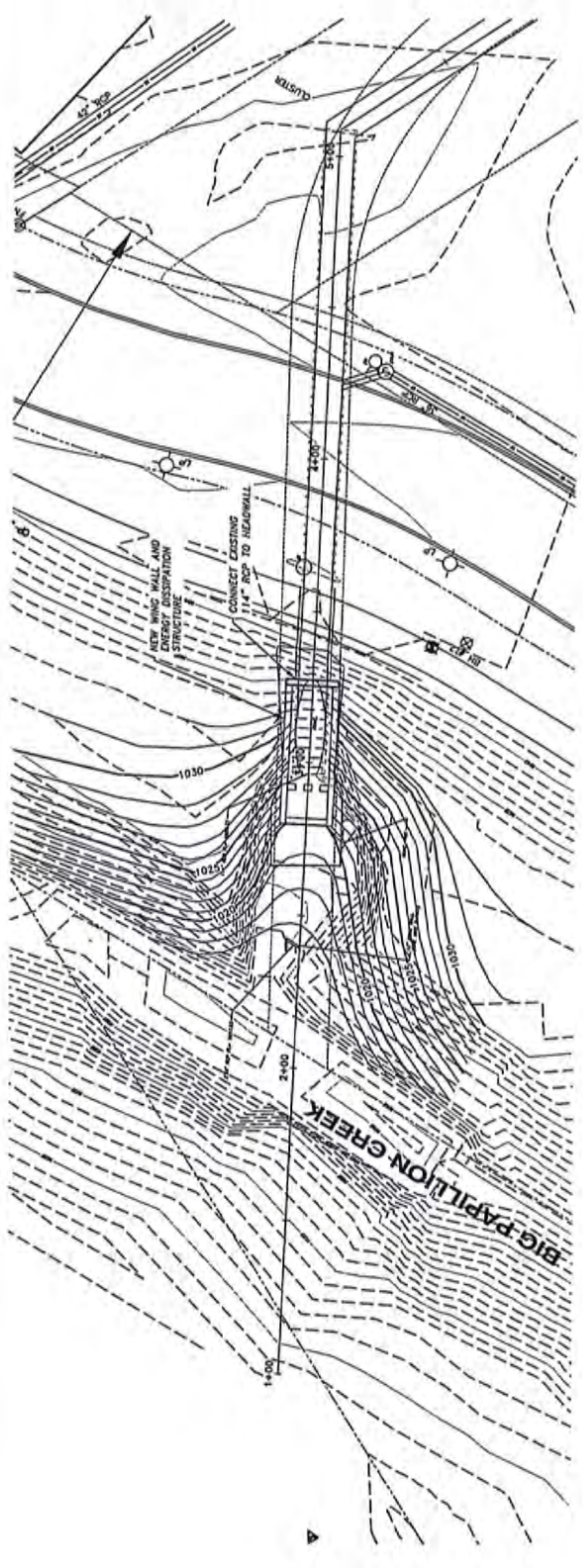


AREA 2 ENLARGED VIEW



AREA 3 ENLARGED VIEW



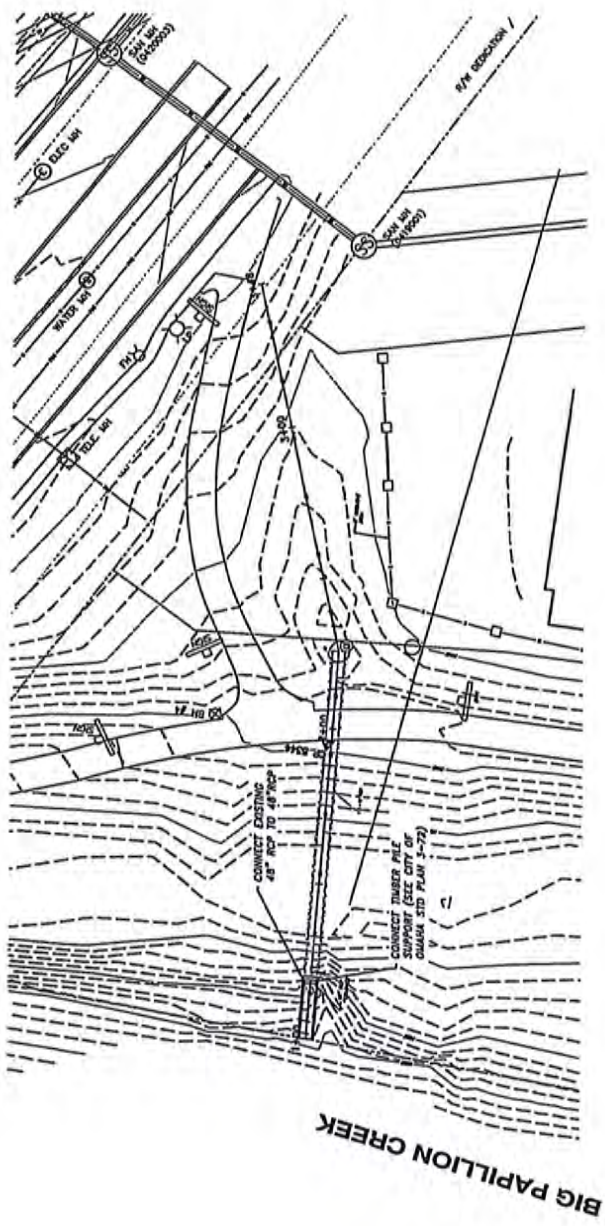


**AREA 1
PLAN & PROFILE**

CITY OF OMAHA
PUBLIC WORKS DEPARTMENT

OPW 52296

SHEET



PLAN VIEW
 PROPOSED AREA 2
 CITY OF OMAHA
 PUBLIC WORKS DEPARTMENT
 SHEET
 OPW 52296



URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: March 5, 2013

2. PROJECT NAME Thompson Creek Watershed Restoration

3. PROJECT SPONSOR: City of La Vista

ADDRESS: 9900 Portal Road
La Vista, NE 68128

4. CONTACT PERSON: John Kottmann

TITLE: City Engineer

5. TELEPHONE: 402-331-8927

6. E-MAIL jkottmann@cityoflavista.org

7. PROJECT LOCATION (attach location map):
Thompson Creek from La Vista Falls Golf Course to 72nd Street.

8. DESCRIPTION OF PROBLEM (attach additional sheets as needed):
Stream channel banks are eroding and encroaching onto adjacent private property that endangers utilities and private improvements. Also contributes to poor water quality due to sediment and phosphorous loading.

9. PROPOSED SOLUTION (attach additional sheets as needed):
Stabilize stream banks with primarily bio-engineering techniques, install grade controls, introduce meanders where possible to reduce velocity and implement watershed management program to reduce peak flows and reduce runoff volume.

10. PROJECT FUNDING LEVEL: LEVEL 1: LEVEL 2: X LEVEL 3:
(Attach justification for funding level selected - see program guidelines)

11. TOTAL ESTIMATED COST: \$ 1,989,750 (\$775,000 Yr 1)

12. COST SHARE REQUESTED: \$ 737,050 (\$ 71,300 Yr 1)

13. SIGNATURE/TITLE: John M. Kottmann, City Engineer

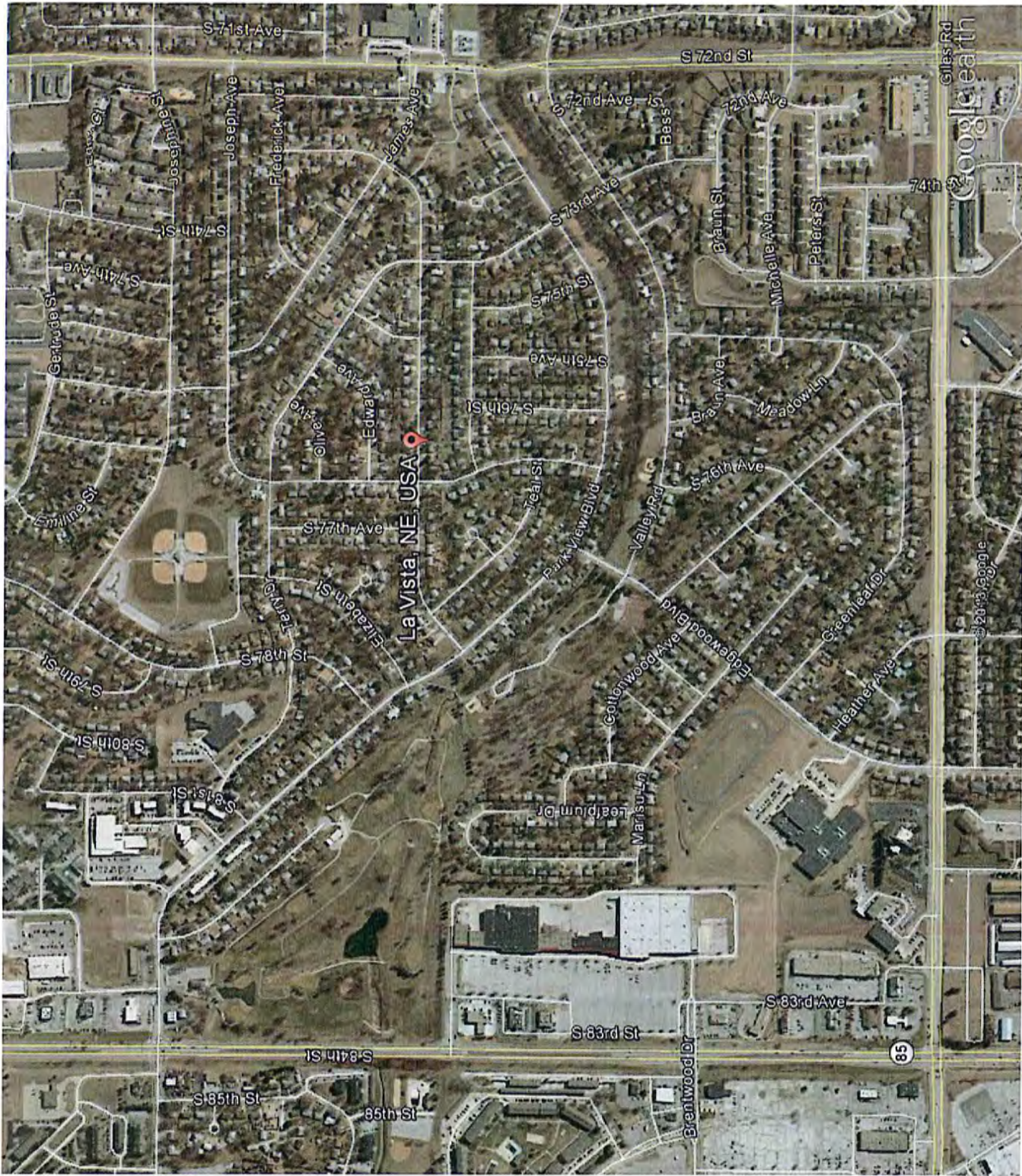
THOMPSON CREEK WATERSHED RESTORATION
CITY OF LA VISTA
URBAN DRAINAGEWAY GRANT APPLICATION
COST ALLOCATION BASED ON PRELIMINARY NDEQ/319 AND NET GRANT AWARDS FOR YEAR 1

PROJECT ACTIVITY	TOTAL COST	YEAR 1 COST	Fund Allocation	YEAR 2 COST	Fund Allocation	YEAR 3 COST	Fund Allocation
Education & Outreach	\$95,000	\$50,000	EPA 319 = \$50k	\$15,000	EPA = \$15k	\$30,000	EPA 319 = \$30k
Cost Shared Demonstration Projects	\$515,000	\$35,000	EPA 319 = \$35k				EPA 319 = \$170k
Reconst. Thompson Cr.-Pre Con Monitoring	\$50,000	\$50,000	EPA 319 = \$50k			\$330,000	NET = \$100k Local = \$60k
Reconst. Thompson Cr.-Design & Construction							
Phase Engineering *	\$274,000	\$179,000	EPA 319 = \$15k NET = \$164k	\$75,000	EPA = \$75k	\$20,000	Local = \$20k
Reconst. Thompson Cr.-Construction Costs*	\$1,715,750	\$461,000	NET = \$361k Local = \$100k				
Thompson Cr. Post Const. Monitoring *	\$40,000			\$1,214,750	Local = \$799,75k	\$40,000	Local = \$40k
TOTALS	\$2,689,750	\$775,000		\$1,454,750		\$460,000	
Funding from NDEQ-EPA 319 Funds	\$630,000	\$150,000		\$280,000		\$200,000	
Funding from Nebraska Env. Trust	\$1,000,000	\$525,000		\$375,000		\$100,000	
Funding from Local Sources	\$1,059,750	\$100,000		\$799,750		\$160,000	
TOTALS	\$2,689,750	\$775,000		\$1,454,750		\$460,000	
Funding from Papio-Mo. River NRD, 60% of Local Share	\$635,850.0	\$60,000.0		\$479,850.0		\$96,000.0	
Funding from City of La Vista	\$423,900.0	\$40,000.0		\$319,900.0		\$64,000.0	

NOTES:

- Funding proposed from NRD pertains only to engineering services and construction work for Thompson Creek stabilization. It does not include public education and outreach or demonstration projects.
- The allocation amongst agencies and years is based on best available information as of March 4, 2013.
- The Year 1 total of La Vista and NRD funds represents required local share match for NDEQ/319 Grant.
- All costs shown are in 2013 dollars.

* Items with asterisk are eligible for PMRNRD Urban Drainageway Funding



4000

1

feet
km

Google earth





March 5, 2013

Mr. Gerry Bowen
Natural Resources Planner
Papio-Missouri River NRD
8901 South 154th Street
Omaha, NE 68138-3621

RE: Thompson Creek Watershed Restoration
Urban Drainageway Project Request Application

Mr. Bowen:


On behalf of the City of La Vista, I am submitting herewith a Special Project Request Application to the Urban Drainageway Program for the purpose of stabilizing a portion of Thompson Creek from the La Vista Falls Golf Course downstream to 72nd Street. This stabilization is needed to protect adjacent public and private property, to improve water quality, to contribute to peak flow reductions, and to allow for future construction of a hiking/biking trail. Please find herewith the following items:

- Completed Application Form 17.17
- Updated Estimate of Total Costs including project elements and timing
- Copies of Grant Application transmittals to NDEQ (EPA 319) and NET
- Copy of grant award letter from the NDEQ
- Copy of 2013 Preliminary Rank Order project list from NET
- Environmental Acceptability Statement
- Copy of NET grant application containing preliminary plan and location map

We anticipate that this application will qualify for Level 2 project funding. Please note that this project is proposed for funding over 3 years with the majority of the funds requested in the second year. The timing of various activities is set forth in the copy of the NET grant application enclosed herewith.

Please contact the undersigned with any questions or if you need additional materials to support this request.

Submitted by:


John M. Kottmann, P.E.
City Engineer

Received
3-6-13
GB

City Hall
8116 Park View Blvd.
La Vista, NE 68128-2198
p: 402-331-4343
f: 402-331-4375

Community Development
8116 Park View Blvd.
p: 402-331-4343
f: 402-331-4375

Fire
8110 Park View Blvd.
p: 402-331-4748
f: 402-331-0410

Golf Course
8305 Park View Blvd.
p: 402-339-9147

Library
9110 Giles Rd.
p: 402-537-3900
f: 402-537-3902

Police
7701 South 96th St.
p: 402-331-1582
f: 402-331-7210

Public Works
9900 Portal Rd.
p: 402-331-8927
f: 402-331-1051

Recreation
8116 Park View Blvd.
p: 402-331-3455
f: 402-331-0299

80



Dave Heineman
Governor

STATE OF NEBRASKA

DEPARTMENT OF ENVIRONMENTAL QUALITY
Michael J. Linder

Director

Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402) 471-2909
website: www.deq.state.ne.us

10/24/2012

John Kottmann
City of LaVista
9900 Portal Street
LaVista Ne. 68128

John,

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

Thompson Creek Watershed Restoration

Funding Requested: \$780,000

Funding Recommended/Approved: \$150,000

Match Requirement for Approved Amount: \$100,000

If this reduction is acceptable, the \$150,000 awarded under this grant shall assist in the Phase I activities including Outreach, Residential BMP demos, pre-construction monitoring, Design and engineering of the streambank reconstruction, and watershed planning. Subsequent funding to further implement watershed restoration activities would be available through additional grants pending the development and approval of a 9 element watershed management plan.

Funding under this grant award is contingent upon your organization providing the match requirement outlined above and upon approval by EPA. The next step in the process is to work with your NDEQ project manager in the development of a detailed Project Implementation Plan (PIP), your project will contact you within the next two weeks to assist you in the development of this plan. The project manager assigned to your project is Mike Archer, should you have any questions please contact Mike directly at phone number 402-471-4224, or by E-mail at Mike.Archer@Nebraska.Gov.

Thanks again for your application.

Sincerely,

Marty Link
Acting Water Quality Division Administrator

Patrick Hartman
319 Non Point Source Coordinator

Project Number: 56-1286



NEBRASKA ENVIRONMENTAL TRUST FUND

NARRATIVE SECTION

H1. Project Sponsor: City of La Vista

H2. Project Name: Thompson Creek Watershed Restoration

PROJECT OVERVIEW

The 1,250-acre Thompson Creek Watershed Restoration is in the City of La Vista, Sarpy County, Nebraska. It is a significant natural resource in the City, with signature parks and proximity to City Hall. It is an urban watershed, largely residential, but with several large commercial areas. It flows east for 2 miles to a channelized section of Big Papillion Creek (HUC 12 Big Elk Creek-Big Papillion Creek 102300060205). Thompson Creek experiences typical urban issues/ stressors:

- Frequent and significant water level changes resulting from even small storms due to engineered collection and conveyance of stormwater runoff from impervious surfaces;
- Deeply-incised channel (7 to 15 ft in areas) experiencing severe bed and bank erosion from volatile flow rates, lack of floodplain storage below a detention basin, and lack of dense-rooting herbaceous vegetation on steep (2:1 horizontal:vertical) stream banks;
- Flooding above the detention basin (east of 84th Street) with >5 year storms, which reduces usability of the area;
- High phosphorus loading, eutrophication and algae blooms due to direct input of untreated stormwater runoff from residential and commercial areas, parking lots and streets;
- Poor in-stream aquatic life due to lack of riffle-run features and high frequency of bed and bank scouring events; and
- Infrastructure and public and private property damage due to the unstable flow regime of the stream.

The Thompson Creek Watershed Restoration extends from the western headwaters to 66th Street near Papillion Creek (Figure 1). The project addresses the issues and stressors through a holistic, sustainable design, building on past efforts and investments. Previous work includes Papio-Missouri River Natural Resources District (NRD) studies, a 2006 channel study of the creek, and a FEMA grant to acquire 24 flood-prone residences to provide room for stream improvements.

The Thompson Creek Watershed Restoration has the following goals:

- **Improve water quality** in Thompson Creek and downstream receiving waters by:
 - Improving stormwater management throughout the watershed. Expected to reduce volume, improve rate control, and reduce pollutant loading of nutrients and sediment.
 - Reducing erosion of the creek channel. Expected to reduce input and transport of nutrient-laden sediment.
- **Improve in-stream and riparian habitat** by:
 - Improving water quality;
 - Re-meandering the channel;
 - Stabilizing stream banks;
 - Constructing pools and riffles;
 - Reconstructing a floodplain bench.
- **Reduce flooding and damage to infrastructure and public and private property** by:
 - Improving stormwater management throughout the watershed;
 - Reconstructing the creek and floodplain.
- **Create public support for the project and its goals** by:
 - Increasing awareness of individual property contributions to non-point source pollution;
 - Increasing understanding of linkages between non-point source pollution, water quality, and stream health;
 - Implementing cooperative projects to demonstrate cost-effective means of improving stream health.

Implementing this stream restoration project will create a highly-visible community asset that will improve quality of life for La Vista residents and serve as a replicable model for other urban streams in the region.

PROJECT DESIGN CONSIDERATIONS

Watershed Characteristics

The 1,250-acre Thompson Creek Watershed is in the Big Papillion Creek Watershed. In 2009 the Papillion Creek Watershed Partnership completed a plan to address watershed pollution and volume control issues. The plan combines Low Impact Development practices for new construction with structural volume control measures. The Thompson Creek Watershed Restoration project complements the watershed plan by improving an already-developed urban stream and watershed.

H1. Project Sponsor: City of La Vista

H2. Project Name: Thompson Creek Watershed Restoration

Land use in the Thompson Creek Watershed is mixed, with different pollutant loadings and runoff patterns at different locations. The different locations require different education/outreach strategies and different stormwater Best Management Practices (BMPs). The watershed's land uses can be generalized into 3 classes: residential neighborhoods, commercial/institutional areas, and open space (Figure 1). These land use classes provide a useful framework to address stormwater impacts, education strategies, and appropriate stormwater BMPs. The watershed above 72nd street contains four subwatersheds defined by Thomson, Dreessen and Dorner, Inc. (Figure 1). Subwatershed 1 is primarily residential, with commercial/institutional and open space. At the downstream end of Subwatershed 1 is a dry dam that serves as a grade control structure for the creek and stormwater detention basin. Subwatershed 2 is also primarily residential, with commercial/institutional and open space land uses. Subwatersheds 3 and 4 are primarily residential; 4 continues east toward 66th Street. Subwatersheds 2, 3 and 4 have limited flood storage. As with all urban streams, runoff area disproportionately affects stream flow. On Thompson Creek, for example, an additional 50% in watershed area below Central Park/Edgewood Boulevard increases flow at 72nd Street by nearly 100% (1347 cfs to 2541 cfs).

Pollutants, Pollutant Sources & Pollutant Loads

Pollutants in the Thompson Creek Watershed are typical of urban watersheds, including nutrients (phosphorus, nitrogen species, etc.), suspended solids/ sediments, hydrocarbons, metals, and *E. coli* bacteria. The sources of pollutants are also typical of urban watersheds: a) diffuse and acute soil erosion, b) street and parking lot runoff, c) residential and commercial lawns, d) golf courses and manicured parkland, d) erosion of the stream channel itself, and e) pet and wildlife waste. Excess stormwater volume and greater runoff rates also significantly affect the watershed, contributing to poor water quality, erosion, and flooding. Inadequate stormwater management strategies and BMPs worsen volume and runoff rate problems. The volume and rate problem contributes directly to stream habitat degradation by a) burying and eroding spawning and feeding habitat for fish and macroinvertebrates, b) causing bank erosion and eliminating vegetated shoreline habitat, and c) creating hydrological conditions (frequent flood/drying cycles) that prevents colonization by aquatic animals and plants. Photos of Thompson Creek at the end of this proposal highlight these typical problems of urban streams.

Current pollutant loads have not been documented for the Thompson Creek Watershed. However, using land cover data and the model WinSLAMM, the watershed's land surface is estimated to contribute approximately one-half ton of total suspended solids (TSS) per acre per year, totaling 650 tons of TSS loading to Thompson Creek per year. While the detention basin below 84th Street is believed to capture some sediment, it does not capture fine or dissolved sediment and nutrients, and additional loading occurs downstream due to eroding banks. *E. coli* is not believed to represent significant loading, but the downstream receiving water, Big Papillion Creek, is listed as impaired for *E. coli* where Thompson Creek discharges.

Project Objectives

Based on the pollutants and estimated loadings in the Thompson Creek Watershed and the principles of Low Impact Development, the following measurable objectives are proposed for this project:

- Increase study reach's habitat condition per USEPA's Rapid Bioassessment Protocol (RBP);
- Capture and treat the first ½" of net runoff for all storms (this addresses approximately 90% of pollutant loadings and reduces runoff volume and rate for frequent storms; fully achieved in 10 years);
- Achieve a 25% reduction in peak flows from a 2-year, 24-hr storm (3") relative to existing baseline (this provides rate control for more significant storms, reducing pollutant transport, erosion, flooding, and habitat degradation);
- Achieve an 80% reduction in erodible bank;

Engage residents and students in order to build understanding of watershed management, stream restoration and water quality improvement.

SCOPE OF WORK

In order to achieve the above-listed goals and objectives, several coordinated projects will be implemented, following a prioritized/phased approach.

Phase 1

Task 1.1 Education/Outreach – An education/outreach program (Table 1) will be implemented throughout the Thompson Creek Watershed (Figure 1) to increase awareness among La Vista's residents, students and businesses regarding the

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H2. Project Name: Thompson Creek Watershed Restoration

importance of stormwater management and actions they can take to improve water quality and watershed and stream health. This project also offers an excellent opportunity to both educate about and promote the environmental mission of project partners. The City will engage the Papillion-La Vista School District in identifying educational opportunities in the Thompson Creek corridor. Programs will include as many age classes as possible and benefit students from both communities.

Table 1. Phase 1, 2 & 3 Education/Outreach Strategies for Thompson Creek Watershed Restoration

TOPICS	Urban Streams & Thompson Creek Issues	Watershed/Stream Health & Stewardship	Downspout Redirection	Rain Barrels	Rain Gardens	Fertilizer & Pesticide Use
PHASE 1 ACTIVITIES						
Brochure & Fact Sheets						
Newsletter Articles						
City Website & Partner Links						
Open Houses & Tours						
PHASE 2 ACTIVITIES						
Brochure & Fact Sheets						
Newsletter Articles						
City Website & Partner Links						
Open Houses & Tours						
Interpretive Signage on Stream						
Bioblitz - Annual Species Search						
Student/Teacher Engagement						
PHASE 3 ACTIVITIES						
Newsletter Articles						
City Website & Partner Links						
Bioblitz - Annual Species Search						
Student/Teacher Engagement						

Task 1.2 Cost-Share/Demonstration Projects – With support from the education/outreach activities above, the City will implement a voluntary cost-share program to incentivize demonstration projects that illustrate stormwater BMPs. Phase 1 focus is water quality improvement and runoff volume and rate reduction in Subwatersheds 2 and 3 (Figure 1). Initial BMPs are expected to focus on residential portions of the subwatersheds and include:

- Downspout redirection (single-family residential and apartments) – Prevent direct runoff discharge to storm sewer system; modify/add gutters and downspouts with minor grading to direct runoff to lawn, rain barrel, or rain garden.
- Rain barrels (single-family residential) – Simple, affordable means to capture and later discharge first flush of runoff from rooftops.
- Boulevard tree planters (public rights-of-way) – Where space allows, capture street runoff and clean polluted first flush, then release to storm sewer.

Task 1.3 Reconstruct Thompson Creek – Thompson Creek will be redesigned and reconstructed for approximately 4,575 lineal feet, from the detention basin east of 84th Street to 72nd Street (Figure 2). This reconstruction will entail re-meandering



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the channel, raising the streambed (where feasible), stabilizing banks (e.g., bioengineering techniques), installing grade controls, constructing pools and riffles (e.g., using cross vanes, J-hooks), reconstructing a floodplain bench, and restoring native vegetation on banks. Bank stabilization and the riffle-pool technique are depicted in Figures 2 and 3. Re-meandering and floodplain reconstruction will be designed to provide a cost-effective channel that is dynamically stable over the long-term and does not threaten public or private property or infrastructure. The upstream portion of this project offers more space and has less channel incision than segments farther downstream, allowing channel bed to be raised in conjunction with grade controls, and for wider meanders and floodplain wetlands. Current modeling and analysis suggest that less constrained sections may have the following average design parameters: 50 ft wide top of channel, meander length 567 ft, and radius of curvature 119.5 ft. The conceptual low-flow channel is expected to have the following average design parameters: 3 ft wide bottom, 10 ft wide top, average depth of 1.75 ft, 2:1 side slopes, meander length 112 ft, radius of curvature 20 ft, and meander amplitude 20 ft. The floodplain bench will be established at or near the 2-year storm stage to provide a release for channel energy during these higher flows. Groundcover vegetation installed along the riparian corridor will be hardy native perennials that establish dense, fibrous root systems, provide wildlife habitat, are attractive, and do not negatively affect public safety. Canopy cover will be largely eliminated on the side of the stream where 24 homes have been removed, and elsewhere, in order to promote vigorous development of the perennial groundcover. Large specimen trees, and selected other trees will be retained where that does not hinder stream restoration. Tree and shrub planting will be part of the installation in order to increase the project's attractiveness to adjacent landowners. A power distribution line will be moved away from the creek to provide room for bank stabilization work. The creek reconstruction design will be driven by cost-effective enhancements that use proven techniques and provide multiple benefits. This includes bioengineering to stabilize streambanks, using natural materials and vegetation. The project will reduce the stream's longitudinal slope, with a target of 0.5%, promote optimal stream and floodplain geometry, diffuse energy, and balance sediment transport. In turn this will reduce erosion, improve water quality, improve aquatic and riparian habitat, and protect public and private property/infrastructure.

Task 1.4 Outlet Treatments – Six to eight stormwater outlets along Thompson Creek in the reconstructed reach will be retrofitted and complemented with supporting BMPs. An appropriate design in areas with sufficient space (Figure 4) would entail installation of a "SAFL Baffle" (St. Anthony Falls Laboratory, <http://stormwater.safl.umn.edu/updates-december-2011>) at an existing storm sewer's final manhole before the creek. This cost-effective hydrodynamic separator promotes the settling of nutrient-laden sediments and allows easy access for cleaning/maintenance. The outlet would then discharge into a relatively small treatment wetland, integrated with the creek's new meanders. The treatment wetland would be designed to hold a volume of water sufficient to create hydraulic head and push water through an engineered filter to remove phosphorous (<http://stormwater.safl.umn.edu/updates-october-2010>), then into the creek. Local groundwater would be recharged, providing baseflow to the creek during dry periods.

Phase 2

Task 2.1 Continued Education/Outreach - Outreach activities in Phase 2 would continue those started in Phase 1 (Table 1) but add rain garden education, interpretive signage along the creek, and participation by schools and volunteers in monitoring the stream corridor and learning and teaching about watersheds, streams and water quality. One proposed event is a Bioblitz, a one-day intensive documentation of all life forms in the creek's stream, riparian zone and adjacent parks.

Task 2.2 Additional Cost-Share/Demonstration Projects – The program in Task 1.2 will continue, with the addition of rain gardens in residential areas and the construction of demonstration projects with commercial partners and on public land. Residential BMPs will be encouraged throughout the watershed. BMPs appropriate for commercial/institutional areas and open space are identified below.

- Rain gardens (single-family residential and apartments) – Effective landscaping technique to manage runoff, often from roof downspouts, but also from driveways and other hard surfaces where feasible.
- Commercial/Institutional Areas (large rooftop areas and extensive parking)
 - Stormwater treatment train – A series of engineered and naturalized surface elements that provide water quality treatment, flood storage, and peak flow reduction.
 - Below-ground opportunities – Infiltration systems or galleries under parking lots, or cisterns integrated with an irrigation system.



NEBRASKA ENVIRONMENTAL TRUST FUND

H1. Project Sponsor: City of La Vista

H2. Project Name: Thompson Creek Watershed Restoration

- Open Space at Civic Center Park (currently La Vista Falls Golf Course)
 - Outlet treatments;
 - Stormwater treatment train;
 - Stream and riparian corridor habitat improvement.

In addition to continuing cost-share for homes and apartments watershed-wide, Task 2.1 will fund two significant cost-share/demonstration projects in a commercial/institutional setting. One will be on public land and one on private land.

Phase 3

Task 3.1 Continued Education/Outreach

Outreach activities in Phase 3 would continue those started in Phase 1 and 2 (Table 1).

Task 3.2 Additional Cost-Share/Demonstration Projects – The project will fund one additional commercial cost-share/demonstration project (describe above), and one project on public open space, possibly at the public pool or a school. The cost-share in residential areas will continue.

Management Practices

Adaptive management will be practiced, ensuring that changing circumstances and unanticipated responses/events will be considered and management adapted dynamically to ensure project goals achieved most cost-effectively and as quickly as reasonably possible.

Evaluation Criteria

The Project Objectives listed above constitute the criteria by which the success of this project will be measured.

- Treatment of first half-inch net runoff for all storms. Phased over 3 years, the percent of watershed receiving treatment will be determined at the design development/construction document stage of the project. Anticipate a meaningful amount of the watershed to receive treatment by year 3, and the remaining watershed by year 10. Calculated as a percent of watershed area based on installed BMPs in storm sewer catchment areas.
- 25% reduction in peak flows from a 2-year, 24-hr storm (3") relative to existing baseline. Modeled based on new stream gauge on Thompson Creek and existing HEC-RAS model for detention pond below 84th Street.
- Achieve an 80% reduction in erodible banks. Bank condition will be mapped in a walking survey of the open channel.
- Improve habitat condition (USEPA RBP). In-stream sampling of benthic macroinvertebrates, primarily kick-samples, following USEPA protocol. Sampling will be done by students, teachers and volunteers in a teaching-learning environment. Complete in Years 1, 2, and 3. Bioblitz in Years 2 and 3 may be used to augment RBP by identifying aerial dragonflies, damselflies, etc.

Feature Bonus/Geopoint Bonus

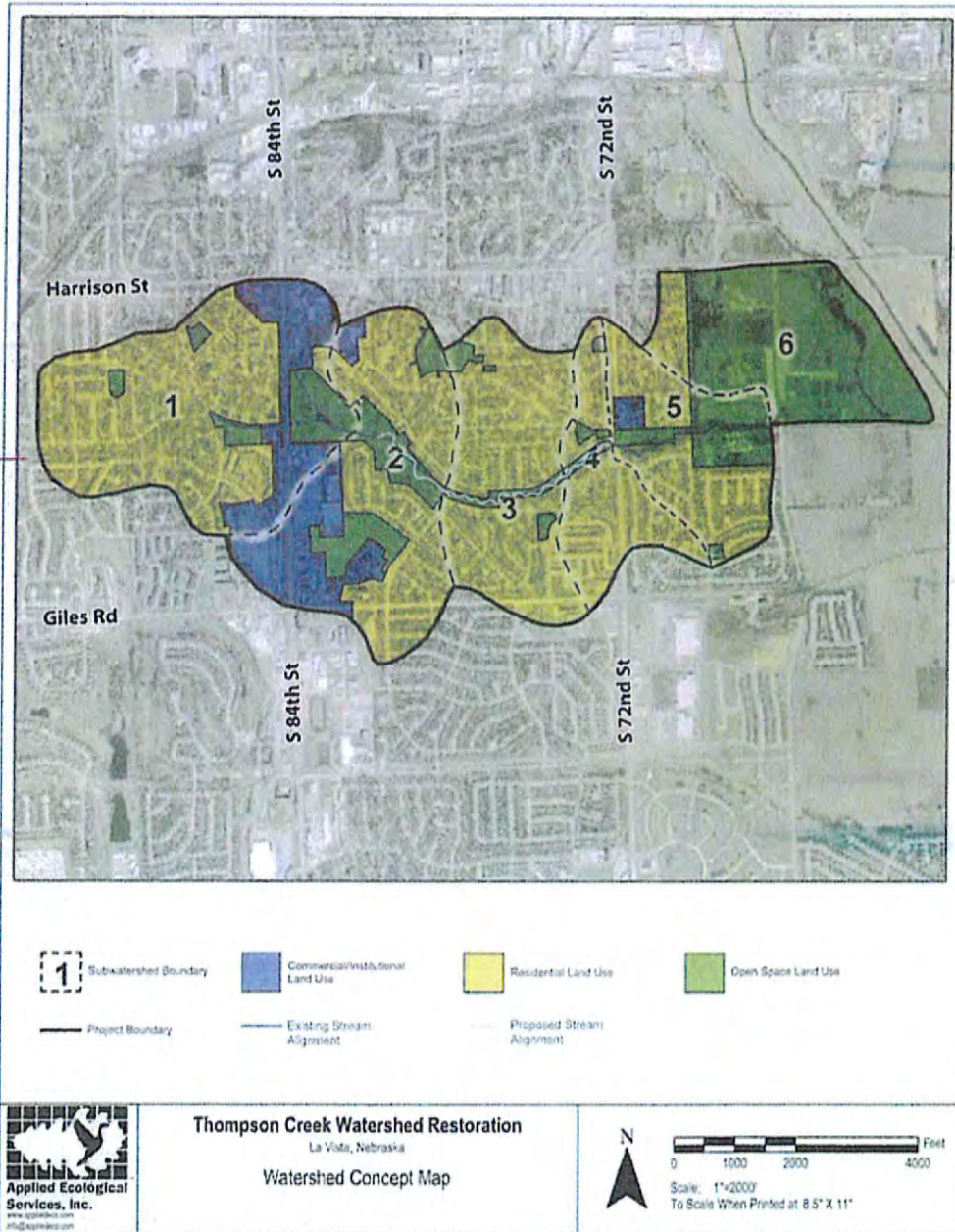
This proposed project may be eligible for feature bonus points because it proposes an holistic watershed approach to urban stream restoration that could become a model project for urban streams throughout Nebraska. Stormwater runoff and stream hydrology will be managed by mimicking ecological structures and processes of natural watersheds, to the extent possible in an urban setting. The project includes education and outreach in addition to physical restoration of the stream corridor. Community engagement on the topic of watershed restoration has already begun through park master planning in the watershed. To achieve success the project will build partnerships between the City, the Papio-Missouri Watershed District, the Papillion-La Vista School District, residents and land-owners, including private landowners who are willing to participate in demonstration projects. This includes projects on commercial properties. Collaboration will achieve improvements in stormwater volume and quality before the water enters the storm-drain system and stream, reducing the cost of improvements along the stream corridor itself. Cost-sharing programs will help incentivize and leverage individual action, and involvement by the local NRD will ensure integration with the goals of the NRD.

This project is in Sarpy County, a congressional district with limited past and recent expenditures of NET dollars, and should be eligible for the geopoint bonus.

H1. Project Sponsor: City of La Vista

H2. Project Name: Thompson Creek Watershed Restoration

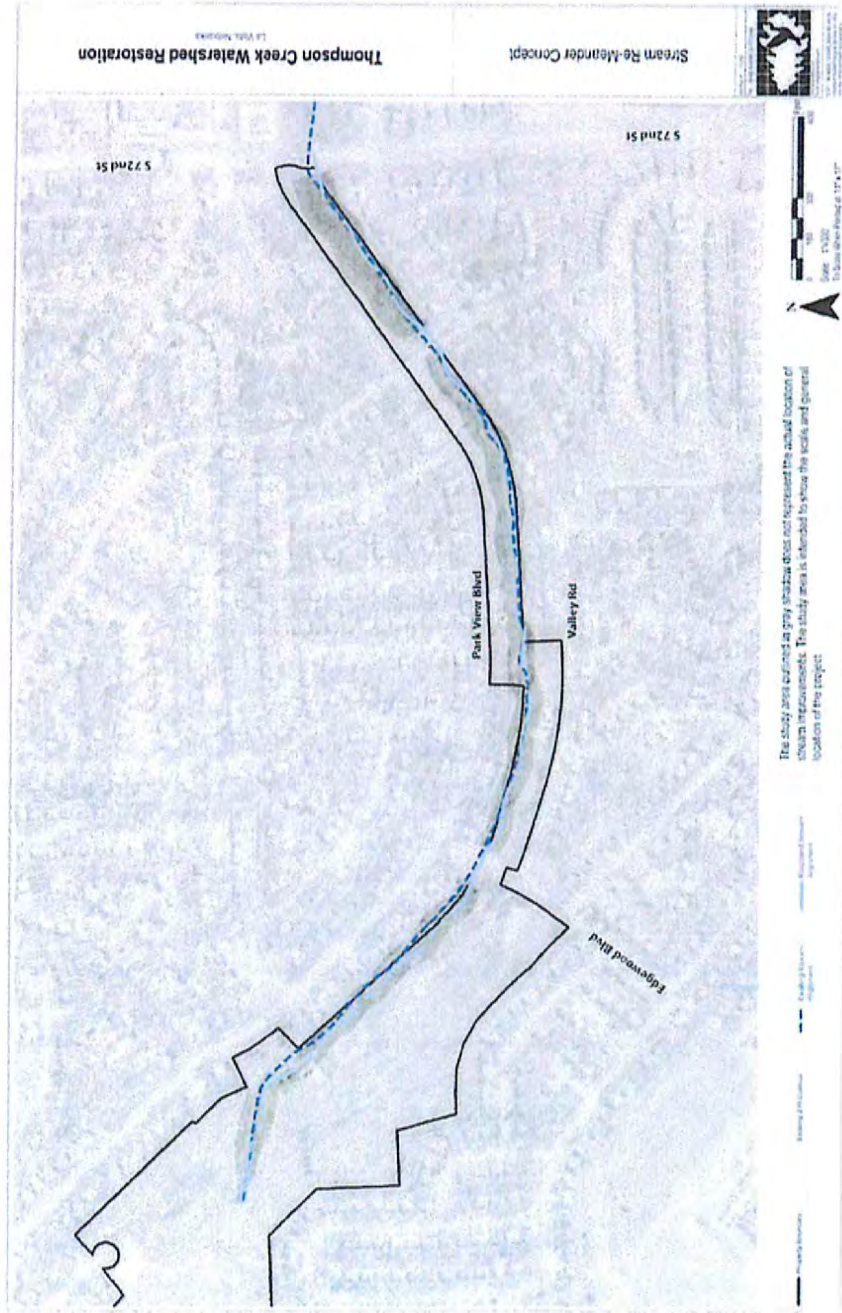
Figure 1. Thompson Creek Watershed Restoration



H1. Project Sponsor: City of La Vista

H2. Project Name: Thompson Creek Watershed Restoration

Figure 2. Thompson Creek potential project footprint, showing scale and potential extent. The final design will reflect the wishes of adjacent property owners and the City's park master planning process.



H1. Project Sponsor: City of La Vista

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Figure 3. Conceptual Riffle-Pool Sequence (with hypothetical trail)

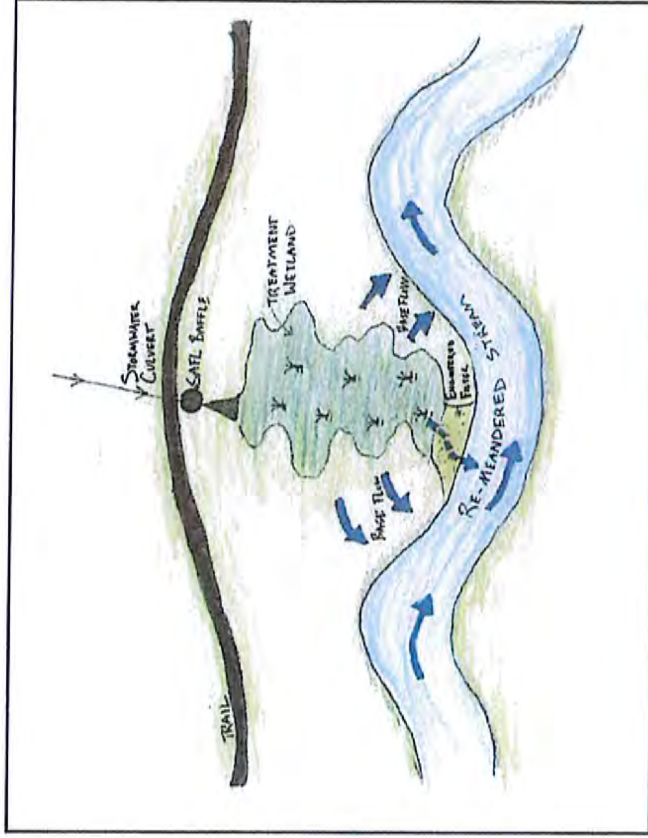
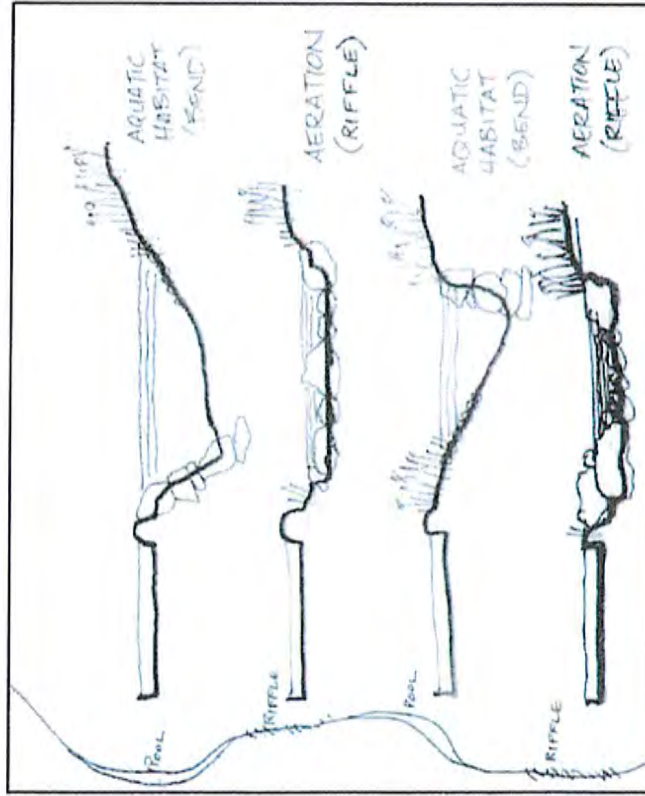
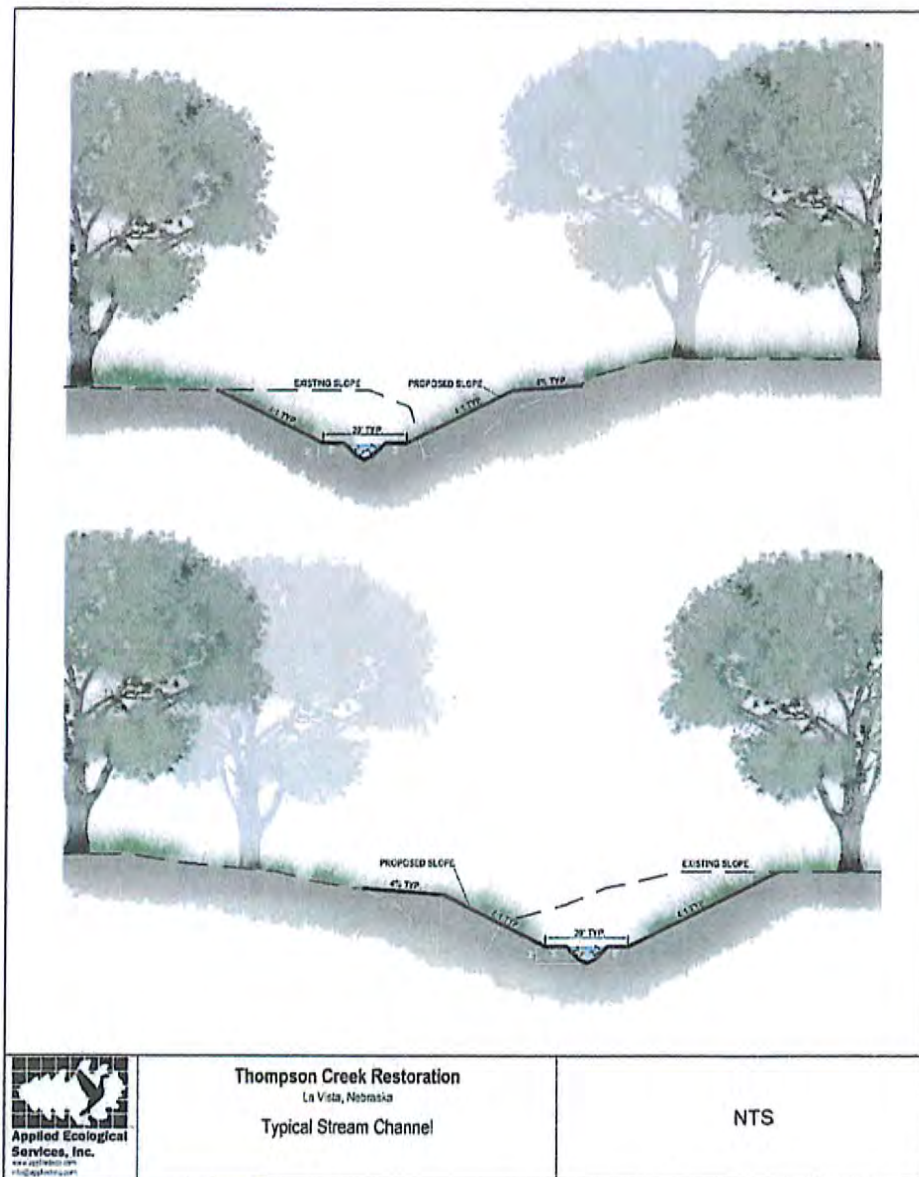


Figure 4. Conceptual Outlet Treatment

H1. Project Sponsor: City of La Vista

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Figure 5. Conceptual cross-sections of Thompson Creek. The existing stream is cutting into its bed, making its side slopes canyon-like. Natural streams have gentler slopes that allow vegetation to grow and help stabilize the banks, preventing erosion. The gentler slopes also protect private property and municipal parks and infrastructure, and allow people to safely walk down to the stream.





URBAN CONSERVATION ASSISTANCE PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: 3-18-13

2. PROJECT NAME: Walthill South Recreation Corading

3. PROJECT SPONSOR: Village of Walthill

ADDRESS: 224 Main Street
PO Box 246
Walthill NE 68067

4. CONTACT PERSON: Rita Dunn

TITLE: Planner/Developer

5. TELEPHONE: 402 846-5921

6. PROJECT LOCATION: Walthill Track and Baseball Area
Thurston County - 11-25-8

7. DESCRIPTION OF PROBLEM:
 Drainage way deterioration in two locations surrounding track area & draining towns Southern Rec Area. Area One: Inside track fence. Buildup of silt has caused water to stop flowing to storm drain creating standing water and minor flooding. Area 2: Outside track fence drainage way deteriorated flooding track area.

8. PROPOSED SOLUTION:
 Area 1: regrade 400 feet on west of track to redirect drainage water to existing storm sewer. Replant area.
 Area 2: regrade 900 feet of drainage way that has stepped flowing and direct it to 3 storm sewers and existing drainage disposal system. Reseed gravel area.

9. TOTAL ESTIMATED COST: \$ 7500.00

10. COST SHARE REQUESTED: \$ 4500.00

11. SIGNATURE/TITLE: Rita Dunn, Planner/Developer

FORM 17.0B

MAR 19 2013



COONEY FERTILIZER, INC.
1030 26TH ROAD
WALTHILL, NE 68067
Phone: 402-846-5969
Fax: 402-846-5999

March 15, 2013

Village of Walthill
Attention: Rita Dunn
P.O. Box 246
Walthill, NE 68067

Re: Drainage problems at athletic track

Re-grade south and west sides of track
Reseed disturbed area

\$7,500.00

*Price does not include TERO tax or sales tax, so tax would be in addition to bid if applicable.
A Nebraska Department of Revenue Form 17 would be needed if this project is exempt from sales tax.

ACCEPTANCE: This bid is valid if signed and returned within 30 days.

CONTRACTOR

OWNER

NAME: Cooney Fertilizer, Inc.

BY: Ray Cooney

DATE: 3/15/2013



URBAN CONSERVATION ASSISTANCE PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: 3/11/2013

2. PROJECT NAME: Omaha Fire Training Facility

3. PROJECT SPONSOR: City of Omaha

ADDRESS: 5600 S. 10 St.
Omaha, Ne 68107

4. CONTACT PERSON: Niha Cudany

TITLE: Environmental Quality Control Manager

5. TELEPHONE: 402-444-3915x229

6. PROJECT LOCATION: 11550 Rainwood Road, Omaha, Ne
Facility is located near Hwy 133 (Blair High Road)
and Rainwood Road.

7. DESCRIPTION OF PROBLEM:

See attachment A.

8. PROPOSED SOLUTION:

See attachment B and Plan Set

9. TOTAL ESTIMATED COST: \$ 127,325.75 (attachment C)

10. COST SHARE REQUESTED: \$ 30,000

11. SIGNATURE/TITLE: Niha Cudany, Env. Quality Control Manager

MAR 12 2013

ATTACHMENT A

Description of Problem:

When the Omaha Fire Training Area was constructed, the US Army Corps of Engineers (USACE) required detention basins to be installed to slow the flow rate of runoff before it is discharged in to the creek. The basins were designed with very steep side slopes. Vegetation did not get established properly and consequently the side slopes have been eroding over time. Ruts and rills formed soon after installation and have gotten worse over time. None of the basins are functioning the way the USACE had anticipated and need to be restored. Additionally, no pretreatment was installed where the stormwater flows from the fields and roads in the upper part of the drainage area. Currently, the system conveys a heavy sediment load to the creek and sediment has begun to fill in the drop structures. A baffle box is proposed west of the access road to trap sediment to improve water quality and extend the functional life of the basins.

ATTACHMENT B

Proposed Solution:

The proposed solution is to re-grade the side slopes to a 3:1 slope so that vegetation can be established and maintained. Once the slopes have been re-graded, a proprietary erosion control product (Flex-a-mat) will be installed to prevent any future erosion. Flex-a mat consists of concrete shapes tied together with high strength geogrid backing. The flex-a mat comes in rolls and can be laid on the base and the slopes of the basin. The ability to lay the product along the contours allows for good coverage and few weak points for erosion to take place. Vegetation will grow through the geogrid in the spaces between the concrete shapes and eventually covers the mat so very little concrete shows. Mowers can drive over the flex-a mat and native grasses can be mowed when needed. Flex-a-mat eliminates the difficult maintenance problems that rock rip rap presents and is often a less expensive solution. Assistance is requested for the baffle box and one basin identified on the plan set as the project site. At this time, only one basin is planned to be restored. Flex-a-mat is new to the area and although it shows great promise, we would like to evaluate its performance before restoring other features. Other features will be restored as budget allows.

Plan sets are under revision to incorporate the use of Flex-a-mat as discussed in the previous paragraph. Plan sets submitted at this time are conceptual. Final plan sets will be provided for your review when available.



Fire Training Site

Printed: Mar 19, 2013

maps.dogis.org/dogis



Opinion of Probable Cost
3/8/2013

Created by: Vireo & Ehrhart Griffin & Associates

Item	Description	Quantity	Unit	Unit Cost	Total	Costs Included in UCAP request
1	Mobilization/Permitting	1	LS	\$7,500.00	\$7,500.00	
2	Layout/Staking	1	LS	\$2,500.00	\$2,500.00	\$2,500.00
3	Clearing and Grubbing	12100	SY	\$0.60	\$7,260.00	\$7,260.00
5	EARTHWORK (EXCAVATION AND EXPORT)	2750	CY	\$11.00	\$30,250.00	
6	STABILIZED CONSTRUCTION ENTRANCE	1	EA	\$2,500.00	\$2,500.00	
7	WING WALLS	1	CY	\$800.00	\$800.00	
8	Raintree Baffle Box	1	EA	\$15,000.00	\$15,000.00	\$15,000.00
8	SILT FENCE	1200	LF	\$4.00	\$4,800.00	
9	SCOUR STOP (4' X 4' PADS)	89	EA	\$100.00	\$8,900.00	
10	ROLLED EROSION CONTROL BLANKET	2887	SY	\$1.50	\$4,330.50	
11	TURF REINFORCEMENT MAT	4311	SY	\$3.00	\$12,933.00	\$12,933.00
16	Flexamat	1500	SY	\$45.00	\$67,500.00	\$67,500.00
17	Soil Restoration (in areas not graded)	19331	SF	\$0.25	\$4,832.75	\$4,832.75
18	Short Grass Seeding	77000	SF	\$0.15	\$11,550.00	\$11,550.00
19	Wet-bottom mix	23000	SF	\$0.25	\$5,750.00	\$5,750.00
20	Lawn Restoration	2100	SF	\$0.12	\$252.00	
Subtotal					\$186,658.25	\$127,325.75
10% Contingency					\$0.10	
Total					\$186,658.35	



URBAN CONSERVATION ASSISTANCE PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: 2/12/2013

2. PROJECT NAME Blair Storm Water Detention Project

3. PROJECT SPONSOR: City of Blair

ADDRESS: 218 S 16th St
Blair NE 68008

4. CONTACT PERSON: Allen Schoemaker

TITLE: Director of Public Works

5. TELEPHONE: 402-426-4191

6. PROJECT LOCATION:
North west corner of Hwy 75 and Front Street intersection. Located between 20th Street & Hwy 75.

7. DESCRIPTION OF PROBLEM:
Storm water backs up during a 2 year storm event due to restrictions of the Union Pacific Railroad right-of-way. Property that storm water backs up on is private property.

8. PROPOSED SOLUTION:
Blair wants to acquire the property and construct storm water detention facility as shown as attachment to this application. This will allow the City to prevent development of the site and shift flooding to existing buildings. This project would also allow City to develop a facility that properly contains and manages storm water to prevent damage to existing property.

9. TOTAL ESTIMATED COST: \$ 240,000.00

10. COST SHARE REQUESTED: \$ 144,000.00

11. SIGNATURE/TITLE: _____



CITY OF BLAIR

FEB 20 2013

February 13, 2013

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

RE: Front Street Storm Water Detention Facility

Dear Mr. Bowen:

Enclosed please find an application requesting funding under the Urban Conservation Assistance Program for a new storm water detention facility to be located on the northwest corner of Highway 75 and Front Street in Blair, Nebraska.

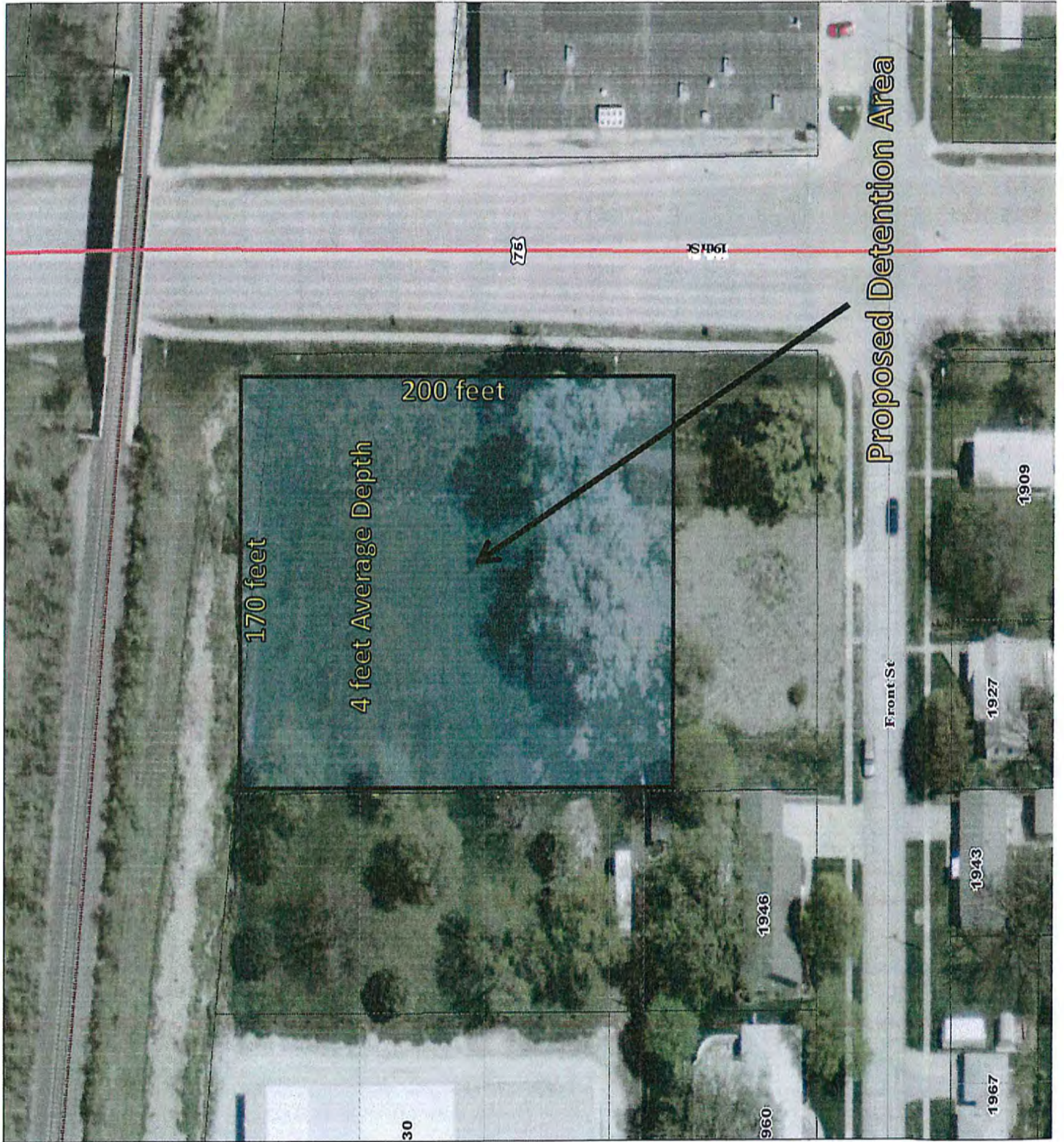
The property currently is privately owned but Blair is proposing to acquire the property for the purpose of constructing a storm water detention facility. Blair is currently taking bids to replace the existing storm sewer leading to this property which will replace and upgrade the existing storm sewer system. The existing storm sewer system can only carry a two year storm which causes street flooding with some frequency. The new storm sewer will adequately carry a ten year storm event which will significantly reduce the street flooding. This property currently floods during heavy rain events and the new storm sewer will only deliver the storm water quicker to the property increasing the amount of flooding the property experiences. The Union Pacific Railroad tracks are directly north of this property and contain only two 24 inch culverts to carry the storm water under their tracks. The option of boring a new larger pipe under the railroad tracks is not really an option as the flooding problem will only be moved to the north side of the railroad tracks. The existing storm sewer system to the north is sized based on the restriction contained with the existing culverts under the railroad tracks. In addition, the cost to bore a large enough culvert under the railroad tracks is much higher than the development of the storm water detention facility to the south of the tracks.

The City of Blair would like to thank the PMRNRD in advance for their time in considering the enclosed request for funding. If there are any questions, please do not hesitate to call me at 402-426-4191.

Sincerely,

Allen Schoemaker
Public Works Director





To: Koenig, Chris
Subject: RE: 20th Street Drainage

From: Koenig, Chris [mailto:Chris.Koenig@hdrinc.com]
Sent: Wednesday, May 23, 2012 10:42 AM
To: Allen Schoemaker
Subject: RE: 20th Street Drainage

Al,
The volume of storage necessary is approximately 5,000 cubic yards and an area of 170' x 200'. We assumed a 1% slope beginning at the UPRR culverts and 3:1 side slopes beginning at the property lines.

Topsoil removal and replacement:	4,000 sy @ \$4.00 = \$ 16,000
Excavation:	5,000 cy @ \$5.00 = \$ 25,000
Seeding:	4,000 sy @ \$1.25 = \$ 5,000
Fence:	740 LF @ \$10/LF = \$ 7400
Total:	\$ 53,400

Let me know if you have any questions.

CHRIS J. KOENIG
PE

HDR Engineering Inc.
Senior Project Manager

8404 Indian Hills Drive | Omaha, NE 68114
402.548.5112 | c: 402.676.9815
chris.koenig@hdrinc.com | hdrinc.com
Follow Us – Architizer | Facebook | Twitter | YouTube | Flickr

From: Allen Schoemaker [mailto:ars@ci.blair.ne.us]
Sent: Tuesday, May 22, 2012 10:24 AM
To: Koenig, Chris
Subject: 20th Street Drainage

Chris,

Could you give me some kind of rough estimate to construct the detention facility for the storm water coming off of 20th Street? I need to send the PMRNRD a letter making a request for funding but I would like to have some kind of idea as to what our cost will be before I send the letter.

Al Schoemaker
Director of Public Works
City of Blair
402-426-4191
ARS@ci.blair.ne.us



TRAILS ASSISTANCE PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: march 18, 2013

2. PROJECT NAME: Bennington Papio Creek Pedestrian Bridge + Trail

3. PROJECT SPONSOR: City of Bennington

ADDRESS: 15514 Warehouse St.
PO Box 221
Bennington, NE 68007

4. CONTACT PERSON: Mindi Laaker

TITLE: city clerk / responsible charge

5. TELEPHONE: 402-238-2375

6. E-MAIL: city@bennington.omhcoxmail.com

7. PROJECT LOCATION: Johns - Bohn Park and
Doug Nelson Youth Complex
11778 N. 158 Plz

8. DESCRIPTION OF PROJECT: The project includes the construction of a pedestrian bridge over the Papio Creek between Johns-Bohn Park and the Doug Nelson Youth Ball Field Complex. The bridge and trails will connect neighborhoods to an existing trail between an elementary and high school. It will also benefit event parking for the ball field complex to the north of the creek and soccer fields to the south of the creek.

9. TOTAL ESTIMATED COST: \$ 548,538

10. COST SHARE REQUESTED: \$ 54,855 *includes NEPA study

11. SIGNATURE/TITLE: Mindi Laaker, City Clerk/PC

FORM 1740A

The current project schedule anticipates a 90% plan in July with project letting in Oct/Nov. It is hoped that winter work ~~will~~ go into a spring build.
will

State of Nebraska
Department of Roads

Transportation Enhancement Improvement Request (FINAL)

1.	AGENCY NAME: City of Bennington	TYPE OF GOVERNMENT AGENCY (Check One): <input type="checkbox"/> Village <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> NRD <input type="checkbox"/> State <input type="checkbox"/> Other	
2.	CONTACT PERSON: Mindi Laaker	FAX NUMBER: 402-238-2470	
	MAILING ADDRESS: (Street) PO Box 221, 15514 Warehouse Street	CITY: Bennington	STATE: NE ZIP: 68007
	DAYTIME PHONE: 402-238-2375	E-MAIL: city@bennington.omhcoxml	
3.	CONTACT PERSON: (Print Name & Title) Mindi Laaker	SIGNATURE	DATE: 9-20-2007
4.	GOVERNMENT AGENCY: (Print Name & Title) C.C. Skip Wolf	SIGNATURE	DATE: 9-20-2007
5.	PROJECT NAME: (Example: Beatrice Big Blue Trail; Neligh Mill Bridge Renovation) Papio Creek Pedestrian Bridge and Trail		
6.	<p>PROJECT DESCRIPTION/LOCATION: (include location, work to be performed, and attach map)</p> <p>In the fall of 2005, a one-mile trail (Bennington Papio School Trail) was created to connect our community to a new Jr/Sr High School (HS). There are many outdoor facilities along the trail route including a public park, athletic facilities including football, soccer, tennis, track, basketball, sand volleyball, the elementary school and public parking lots. The northern boundary of the park is the Papillion Creek. The Bennington Park and Bennington Heights neighborhoods located northeast of the Jr/Sr HS house most of the children living in the city. The Papillion Creek is located on the south and west side of these neighborhoods and there is no direct walking route to the Jr/Sr HS. To reach the Jr/Sr HS, these students must walk east to 156th St., turn south along a busy 156th St., and then head west on the trail to the school. With the new school, these students have increased their walk to the Jr/Sr HS from .5 mile to 1.5 miles. Constructing a pedestrian bridge over the Papillion Creek with trails connecting the neighborhoods to the existing trail will keep them away from a very busy arterial 156th St. and sidewalks that are currently placed dangerously close to curbs. 156th St. will be widened in 2008 to accommodate a continuing increase in traffic. A pedestrian bridge would provide a safer route to school, and connect the trail to other outdoor features, both schools and neighborhoods as well as a large ball field complex and a basketball court on the north side of the Papillion Creek. Accessing parking lots on both sides of the bridge would eliminate overflow parking problems already in existence at the ball fields and soccer fields. The bridge would be approximately 120 feet long and at this time we prefer a single span bridge to eliminate the possibility of the supports catching debris. On the south, the bridge will connect to the existing Bennington Papio School Trail located in the park and along Bennington Road between the elementary school and the Jr/Sr HS. On the north, the bridge would connect to a trail that would branch off to the east and west. The east branch of the trail will tie into existing neighborhood sidewalks located at the 158th St. and North 2nd St. intersection.</p> <p>See attached...</p> <p>DESCRIBE HOW YOUR PROJECT RELATES TO TRANSPORTATION (AS DESCRIBED IN APPLICATION GUIDELINES):</p> <p>The trail will provide a safe walking and biking route for neighborhoods to access the parks and schools on the south side of the Papillion Creek. In addition it will allow participants and spectators to park on the south side of the creek and walk to the ball complex on the north. Currently when the ball field parking lot is full, they park on residential streets resulting in congested streets and low visibility for those using the streets. The pedestrian bridge will connect to an existing one-mile trail (Bennington Papio School Trail), joining our community with both public schools.</p>		

7.	TOTAL ESTIMATED PROJECT COST: 414,281	FEDERAL FUNDS REQUESTED: 331,425
8.	MATCHING FUNDS PROVIDED BY: City of Bennington	PERCENTAGE OF MATCH: <i>(Minimum 20% of total)</i> 20%
9.	PROJECT TYPE: <i>(Select One Category)</i> <input checked="" type="checkbox"/> Trails <input type="checkbox"/> Historic Preservation <input type="checkbox"/> Scenic or Historic Byways	
10.	HAVE YOU RECEIVED TRANSPORTATION ENHANCEMENT FUNDS IN THE PAST? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE LIST ALL PROJECTS FUNDED AND TOTAL DOLLARS RECEIVED: Bennington Papio Creek School Trail - \$370,628.00	
11.	IDENTIFY IF THIS PROJECT IS PART OF A OFFICIAL PLANNING DOCUMENT: The bridge plan can be found in Bennington's Comprehensive Development Plan and in Bennington Pathways, A Vision and Action Strategy.	
12.	PUBLIC BENEFITS OF THIS PROJECT: The Papio Creek Pedestrian Bridge and Trail would allow Bennington residents close proximity and access to a host of outdoor activities, entertainment and exercise avenues. Current proximity to most of the children living in the city is 1 mile. Placing a bridge across the Papio Creek opens up a mile of activities for those residents north of the Papio Creek. Crossing the Papio Creek by means of a pedestrain bridge will also be considerably safer than traveling the longer alternative route that includes high traffic areas. The pedestrian bridge will connect to the existing Bennington Papio Creek School Trail which in turn connects Bennington to many subdivisions including: Shiloh Ranches, Newport Hills, and Newport Landing. Other subdivisions that would benefit from opportunities to bike or hike off busy highways and travel safely though hills and along creeks include: Fawn Heights, Woodlands Crossing, Amaryllis Acres, Shannon Hills, Stratford Park, Meadow Ridge, Pine Creek, Shadowbrook and many other housing developments south of Bennington's city limits.	
13.	THIS PROJECT IS SUPPORTED BY: Bennington Public School, Bennington Athletic League (baseball/softball), Bennington Soccer Club, Papio-Missouri River Natural Resources District, Bennigton Jaycees, Bennington High School Engineering Team, Bennington Parent/Teacher Organization, Bennington Community Foundation	

Attach the following required items:

- **Budget (follow sample provided in Application Guidelines booklet)**
- **8 ½ x 11 map - include aerial image, project location/alignment, north arrow, street names, points of interest**
- **Resolution**
- **Environmental Impact Forms (DR275) provided at site visit**



**LAMP RYNEARSON
& ASSOCIATES**

14710 West Dodge Road, Suite 100
 Omaha, Nebraska 68154-2027
 www.LRA-Inc.com
 402.496.2498 | P
 402.496.2730 | F

drawn by ARJ
 designed by SWA
 reviewed by SWA
 project - task number 0109005.01-100
 date 10-23-12
 book and page
 revisions

TRAIL EXHIBIT



TRAILS ASSISTANCE PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: 2/12/2013

2. PROJECT NAME: Trail Connectors

3. PROJECT SPONSOR: City of Blair

ADDRESS: 218 S 16th St
Blair NE 68008

4. CONTACT PERSON: Allen Schoemaker

TITLE: Director of Public Works

5. TELEPHONE: 402-426-4191

6. E-MAIL: ars@ci.blair.ne.us

7. PROJECT LOCATION:

Two Locations. The first is just south of Hwy 75 from the east side of Cauble Creek west to the intersection of 23rd Ave. The second location is on the north side of Fairview Dr. from Marina Dr. intersection east to Optimist Park then through the park to the northeast corner of Park.

8. DESCRIPTION OF PROJECT:

The first trail connection will re-route the newly constructed Dana Trail along the south side of Hwy 75 from just east of Cauble Creek to west to the intersection of 23rd Ave. This trail will be constructed of PCC 10' wide by 6" thick. The second trail is the extension of Lincoln Trail along Fairview Dr. providing access to Optimist Park for pedestrians and bikers. This trail will be constructed of PCC 10' wide by 6" thick. Both trails will complete existing trails. These trail connectors have been approved for Federal Transportation Enhancement Funding.

9. TOTAL ESTIMATED COST: \$ ~~626,540.00~~ 531,509 (Dana Connector - \$142,210)
(Lincoln Connector - \$389,299)

10. COST SHARE REQUESTED: \$ ~~62,654.00~~ _____

11. SIGNATURE/TITLE: Allen Schoemaker Director of Public Works



CITY OF BLAIR

February 13, 2013

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

RE: Trail Connectors Funding Application

Dear Mr. Bowen:

Enclosed please find an application requesting funding for the Trail Connectors within Blair. The first project is the extension of the existing Dana Trail from the north end to the intersection of 23rd Avenue and Highway 75 all along the south side of Highway 75. This connector will allow the city to close the unregulated crossing at Highway 75 between 22nd Street and 23rd Avenue.

The second part of this project is the extension of the Lincoln Trail from Marina Drive to Optimist Park on the northeast corner of the park. This is the final segment for this trail that begins at 10th and Jackson Streets.

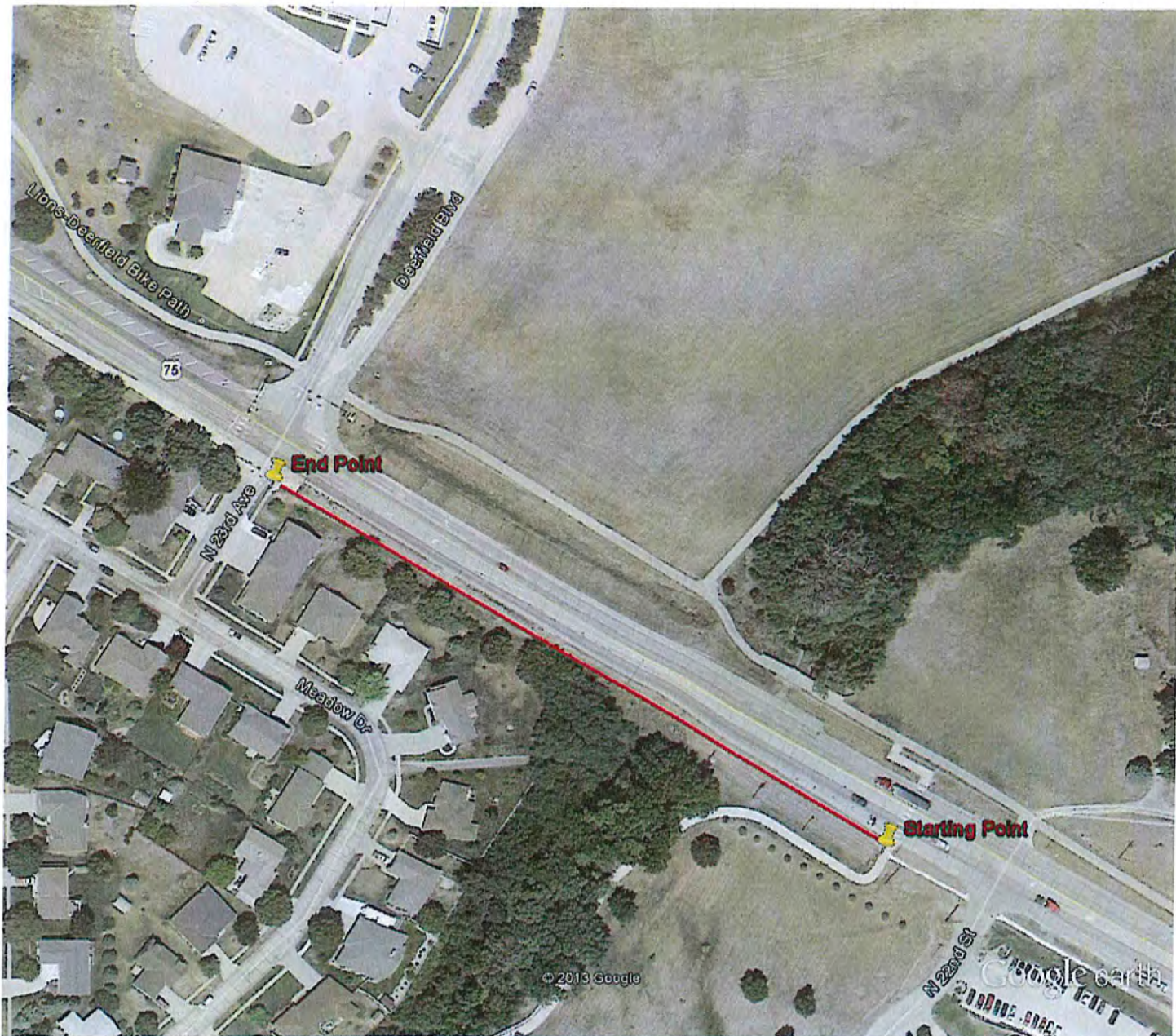
Both of these projects have been funded with Transportation Enhancement funding from NDOR. If there are any questions, please do not hesitate to call me at 402-426-4191.

Sincerely,

Allen Schoemaker
Public Works Director

FEB 20 2013





Google earth





Google earth





OPINIONS OF COST
Blair Connector Trails, ENH-89(3), CN 22547
JEO Project No. 120689
February 18, 2013

NDOR ITEM	ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
Dana Connector Trail						
0030.00	1	1	LS	Mobilization	\$8,300.00	\$8,300.00
1009.00	2	1	LS	General Clearing & Grubbing	\$2,500.00	\$2,500.00
1030.00	3	496	CY	Earthwork Measured in Embankment	\$10.00	\$4,960.00
1107.00	4	210	SY	Remove Walk	\$7.50	\$1,575.00
1119.05	5	1	Ea	Remove Area Inlet	\$700.00	\$700.00
4043.00	6	20	LF	Remove Culvert Pipe	\$10.00	\$200.00
4040.00	7	2	Ea	Remove Headwall from Culverts	\$250.00	\$500.00
3011.25	8	26	LF	Concrete Class 47B-3500 Curb, Type II	\$20.00	\$520.00
3016.03	9	62	SY	Concrete Class 47B-300 Sidewalk, 5"	\$35.00	\$2,170.00
3017.17	10	137	SY	6" Concrete Class 47B-3000 Imprinted Surfacing	\$85.00	\$11,645.00
3016.71	11	764	SY	6" Concrete Class 47B-3500 Bikeway	\$40.00	\$30,560.00
9173.20	12	901	SY	Subgrade Preparation	\$1.50	\$1,351.50
4094.03	13	243	LF	Modular Block Wall	\$100.00	\$24,300.00
6406.30	14	243	LF	Bikeway Handrail	\$30.00	\$7,290.00
4380.15	15	24	LF	15" Round Equivalent CMP	\$30.00	\$720.00
4510.15	16	2	Ea	15" Round Equivalent Metal FES	\$300.00	\$600.00
A700.75	17	1	Ea	Relocate Light Pole	\$900.00	\$900.00
4015.00	18	6	Ea	Adjust Manhole to Grade	\$525.00	\$2,887.50
W600.03	19	1	Ea	Adjust Valve Box to Grade	\$375.00	\$187.50
4015.75	20	11	VF	Manhole	\$550.00	\$6,050.00
L003.03	21	0.17	Acre	Seeding	\$750.00	\$125.25
4900.23	22	2	Ea	Curb Inlet Sediment Filter	\$100.00	\$200.00
	23	1	LS	Erosion Control Matting	\$500.00	\$500.00
L022.12	24	750	LF	Silt Fence - High Porosity	\$2.75	\$2,062.50
	25	1	LS	Temporary Traffic Control	\$1,500.00	\$1,500.00
<i>Subtotal Dana Connector Trail</i>						\$112,304.25

Design Engineering:
 Construction Engineering:

\$13,060.43
\$16,845.64

Project Total:

\$142,210.32



OPINIONS OF COST
Blair Connector Trails, ENH-89(3), CN 22547
JEO Project No. 120689
February 18, 2013

NDOR ITEM	ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
Lincoln Connector Trail						
0030.00	1	1	LS	Mobilization	\$22,800.00	\$22,800.00
1009.00	2	1	LS	General Clearing & Grubbing	\$5,000.00	\$5,000.00
1030.00	3	12,755	CY	Earthwork Measured in Embankment	\$10.00	\$127,550.00
4043.00	4	183	LF	Remove Culvert Pipe	\$10.00	\$1,830.00
4040.00	5	0	Ea	Remove Headwall from Culverts	\$250.00	\$0.00
3017.17	6	0	SY	6" Concrete Class 47B-3000 Imprinted Surfacing	\$85.00	\$0.00
3016.71	7	3,185	SY	6" Concrete Class 47B-3500 Bikeway	\$40.00	\$127,400.00
9173.20	8	3,185	SY	Subgrade Preparation	\$1.50	\$4,777.50
4380.15	9	0	LF	15" Round Equivalent CMP	\$30.00	\$0.00
4510.15	10	0	Ea	15" Round Equivalent Metal FES	\$300.00	\$0.00
4015.00	11	4	Ea	Adjust Manhole to Grade	\$525.00	\$2,100.00
W600.03	12	1	Ea	Adjust Valve Box to Grade	\$375.00	\$375.00
	13	1	Ea	Adjust Power Pull Box to Grade	\$2,500.00	\$2,500.00
L003.03	14	1.62	Acre	Seeding	\$750.00	\$1,215.75
4900.23	15	10	Ea	Curb Inlet Sediment Filter	\$100.00	\$1,000.00
	16	1	LS	Erosion Control Matting	\$2,500.00	\$2,500.00
L022.12	17	2,500	LF	Silt Fence - High Porosity	\$2.75	\$6,875.00
	18	1	LS	Temporary Traffic Control	\$1,500.00	\$1,500.00
<i>Subtotal Lincoln Connector Trail</i>						\$307,423.25

Design Engineering:	\$35,751.79
Construction Engineering:	<u>\$46,113.49</u>
Project Total:	\$389,298.53



TRAILS ASSISTANCE PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: 2/12/2013

2. PROJECT NAME: Lincoln Trail

3. PROJECT SPONSOR: City of Blair

ADDRESS: 218 S 16th St
Blair NE 68008

4. CONTACT PERSON: Allen Schoemaker

TITLE: Director of Public Works

5. TELEPHONE: 402-426-4191

6. E-MAIL: ars@ci.blair.ne.us

7. PROJECT LOCATION:

North side of Jackson Street and Blaine Street from 3rd Street to Marina Drive.

8. DESCRIPTION OF PROJECT:

This project will extend the existing trail along the north side of Jackson Street from 10th to 3rd Streets east to Marina Drive. This trail project is part of the Jackson & Blaine Streets improvement project that is federally funded with Surface Transportation Project and Emergency Relief funds. There will be a new box culvert constructed at Fish Creek to replace the existing arch plate culvert that was damaged during the 2011 flooding. This trail extension will cross the new box culvert and terminate at the intersection of Marina Drive and Blaine Street.

9. TOTAL ESTIMATED COST: \$ ~~250,000.00~~ 173,956

10. COST SHARE REQUESTED: \$ ~~25,000.00~~ \$ 17,396

11. SIGNATURE/TITLE: *Allen Schoemaker* Director of Public Works



CITY OF BLAIR

February 13, 2013

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

RE: Lincoln Trail Funding Application

Dear Mr. Bowen:

Enclosed please find an application requesting funding for the Lincoln Trail extension along the north side of Jackson Street from 3rd Street to Marina Drive. This project is federally funded with STP funds. This project is currently in design and is scheduled to be let late 2013 or early 2014.

If there are any questions, please do not hesitate to call me at 402-426-4191.

Sincerely,

Allen Schoemaker
Public Works Director

FEB 20 2013



Google earth



Form 17.42A



LAKE DREDGING PROGRAM
APPLICATION FORM

1. DATE: March 12, 2013
2. PROJECT NAME: SID 249, Savanna Shores
3. PROJECT SPONSOR: SID 249, Savanna Shores (Sarpy County)
(Address)
330 North 114th Street
Omaha, NE 68144
4. CONTACT PERSON: Mark Westergard TITLE: Engineer for SID 249
5. DAYTIME TELEPHONE: 402.895.4700
6. E-MAIL ADDRESS: mwestergard@eacg.com
7. PROJECT LOCATION¹: 96th & Schram Road
8. DESCRIPTION OF PROJECT²: Remove accumulative silt from Savanna Shores Permanent Detention Facility.
9. ORIGINAL CAPACITY OF LAKE/BASIN³: 11.4 ac-ft, water 15,535 cy sediment Ac.ft.
10. PROPOSED EXCAVATION AMOUNT: 2.07 (Average 135' depth) Ac.ft.
11. TOTAL ESTIMATED COST⁴: \$80,600.00
12. COST SHARE REQUEST: \$40,300.00
13. SIGNATURE/TITLE: *Mark Westergard*

¹ Attach location map of lake/basin and disposal area.

² Attach additional sheets as necessary.

³ Attach copy of original construction plans.

⁴ Attach detailed cost estimate.

PROPOSED SAVANNA SHORES DETENTION FACILITY CLEAN-OUT

OVERVIEW

SID 249 (Savanna Shores) desires to clean out a permanent detention facility located just upstream from Walnut Creek Lake. Many areas of the basin are now full of accumulated silt with some areas having silt levels equal to the normal pool elevation. This project will need to be completed by draining the facility, excavating the accumulated silt, and hauling the material.

COST ESTIMATE AND ALLOCATION

See attached detailed sheet. Generally, 50% participation is requested for the bid items related specifically to removal of silt and costs.

SCHEDULE

The intent is to let the project in July of 2013 and commence work as soon as basin material had dried significantly enough to allow loading and hauling.

ATTACHMENTS

1. Original basin plans (4 sheets)
2. Original grading plans (3 sheets)
3. Engineers Estimate
4. Aerial photograph with project approach narrative



Engineering Answers

E & A CONSULTING GROUP, INC.

Planning • Engineering • Environmental & Field Services

330 North 117th Street
Omaha, NE 68154-2509

www.eacg.com

Phone: 402.895.4700

Fax: 402.895.3599

File No. P2003.105.000
Sheet: 1 of 1
Date: 3/13/2013

ENGINEER'S ESTIMATE

Sanitary & Improvement District No. 249, Sarpy County, Nebraska

Project: Savanna Shores, Basin Cleanout

Item No.	ITEM:	APPROXIMATE QUANTITY:	UNIT:	UNIT PRICE:	AMOUNT:
1.	Mobilization	1	LS	2,000.00	\$ 2,000.00
2.	Silt Removal	9,200	CY	8.00	\$ 73,600.00

Permit Application 5,000.00
Total Construction Costs \$ 80,600.00



Sed. Pond Location

Existing basin to be drained and deposited sediment removed to approximately the elevations shown on the original construction plans (copy attached as part of this application). Material is to be trucked to Commercial Lots 3 and 4, Savanna Shores, allowed to dry and be used as material to fill the existing temporary sediment and erosion control basin located on Lot 9 and 10.