MEMORANDUM

TO:	Programs, Projects, and Operations Subcommittee
FROM:	Eric Williams, Natural Resources Planner
SUBJECT:	Urban Drainageway Program Application
	Douglas County, Ponca Creek at 36 th Street
DATE:	May 6, 2021

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.

In January 2021, a sudden catastrophic failure occurred at a culvert along Ponca Creek at 36th Street. This location is the responsibility of Douglas County, and designs for a new bridge to replace the culvert have been completed. Channel stabilization work, including grade control, will help to protect the public infrastructure in this location.

This project was originally submitted during the annual cost share program application cycle. District staff requested that Douglas County resubmit additional documentation and the project was considered under various potential programs. Given the type of work being conducted, and the updates to the plans according to comments from District staff, it has been determined that the Urban Drainageway Program is appropriate for this project. Douglas County has requested cost share assistance for the portion of this project which meets the program guidelines.

• It is recommended that the Subcommittee recommend to the Board of Directors that the Urban Drainageway Program application from Douglas County for \$ 66,968 be approved, subject to funding in the FY 2022 Budget.



Urban Drainageway Program – Application Form

Project name		36th Street over Ponca Creek					
Project location (attach locatio	n map)	36th Street, 0.0	5 miles S	outh of Po	onca Ro	ad
Sponsor organiza	tion Do	ouglas Cou	nty				
Sponsor address		5505 West M	Maple Road				
•	v 0	maha		State	NE	ZIP	68116
·		an Kutilek				-	
roject location (attac ponsor organization ponsor address City ontact person itle	Er	ngineering a	and Planning Ma	anager			
Email address	dan.kutilek@	douglasco	unty-ne.gov	Daytime	phone	402-4	444-6460

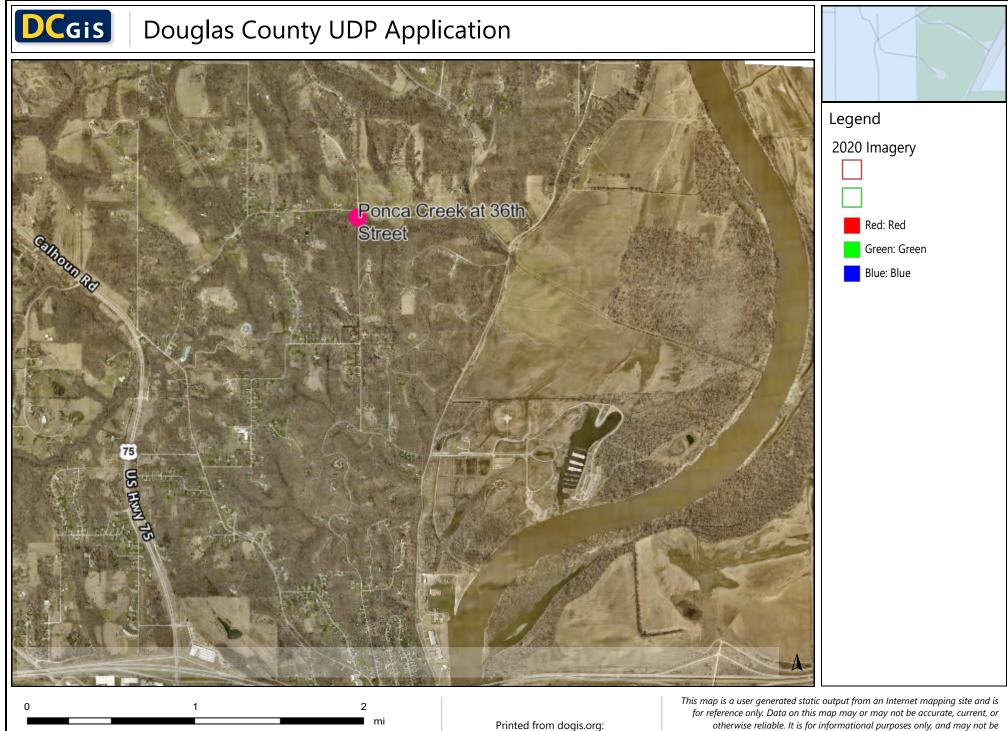
Description of problem (attach additional sheets as needed)

Existing steel plate culvert collapsed. Structure will be replaced with a single span concrete beam bridge. Previous concrete apron controlled approximately 7' of channel grade, 80' downstream.

Proposed solution (attach additional sheets as needed)

Construct a steel sheet pile weir, grade control structure. Line channel and channel banks with riprap. (Plans Attached)

Level of Design Total estimated cost	Level 1 2 \$ <u>167,420</u>	Level 2	Level 3 equest \$	66,968
Generature	25	5/3 Date	121	-
Ense. Man Title	<u>nget</u>			



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

05/06/2021 00:00:00

otherwise reliable. It is for informational purposes only, and may not be suitable for legal, engineering, or surveying purposes. Do NOT use property lines from this website for plan submissions.

Douglas County - Grade Control Structure 36th Street over Ponca Creek Douglas County Project No. SP-2021(02) Steel Sheet Pile Weir HGM Project #760021 Projected Letting Date: TBD Engineers Opinion of Probable Cost

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	COST/UNIT		ITEM COST	
1	GENERAL CLEARING AND GRUBBING	LS	1	\$	5,000	\$	5,000
2	SEEDING, TYPE B	AC	0.2	\$	2,000	\$	400
3	MULCH	TON	0.2	\$	500	\$	100
4	TEMPORARY SILT FENCE	LF	200	\$	5.00	\$	1,000
5	TEMPORARY SILT CHECK	LF	20	\$	5.00	\$	100
6	MOBILIZATION	LS	1	\$	25,000	\$	25,000
7	EXCAVATION (ESTABLISHED QUANTITY)	CY	200	\$	20	\$	4,000
8	STEEL SHEET PILING	SF	1,580	\$	30	\$	47,400
9	ROCK RIPRAP, TYPE B	TON	605	\$	100	\$	60,500
10	RIPRAP FILTER FABRIC	SY	480	\$	4	\$	1,920
			Total Est	Total Estimated Cost =			145,420

ITEM NO.	ITEM DESCRIPTION		
1	DESIGN ENGINEERING	\$	12,000
2	CONSTRUCTION OBSERVATION	\$	10,000
	Total Estimated Cost =	\$	22,000

Total Project Cost = \$

167,420

