

State of Utah Monument Replacement and Restoration Committee 1 State Office Building, Room 5130 Salt Lake City, UT 84114

For Committee Use Only	
Application No.	
Date Filed:	

GRANT APPLICATION								
Applicant Informa	tion							
Applicant agency	Cache County							
Street	179 N. Main S	t						
City	Logan		State	UT	Zip	84321		
Contact person	Cary Jenkins				•			
Phone	435-755-1644			Fax				
Email	cary.jenkins@e	cachecounty.c	org					
Presiding official	Matt Phillips							
Title	Public Works D	irector						
-	435-755-1639							
Email <u>I</u>	matt.phillips@d	cachecounty.c	org					
Proposed Funding								
Total project cost		\$12,000.00	16,000.00					
Total MRRC funds	requested	\$10,000.00	14,000.00					
Other project fund	ling (specify)	\$2,000.00 in k	ind,					
Attachment checklist 1. Description o		or situation to	be addressed a	nd how the pi	ropos	ed project will		
	•		lescription will th	noroughly add	lress (each category of the		
	Evaluation Crit	eria.						
 Map of the project area. Cost estimate. Itemization of expenditures is encouraged. Include cost sharing if applicable. 								
3. Cost estimate	. recriment of	л ехрепакате	.s is effectively ear	merade cost .	J. 101 11	. В п аррпсавле.		
Presiding official sign	<u>ature</u>							
I, Matt Phillips , the Public Works Director								
(type	d name)	(typed title)						
of Cache County Cor	p.							
			me of applicant					
do hereby certify the and this application h				id correct to t	he be	est of my knowledge		
Matt Phi	llips		2	/25/2022				
	(signature)				(dat	-e)		



BUILDING | SURVEYING | ENGINEERING | GIS | PLANNING & ZONING | ROADS | WEEDS

CACHE COUNTY SECTION CORNER PROJECT

A GRANT PROPOSAL TO: State of Utah Monument

Replacement and Restoration Committee (MRRC)

APPLICANT: Cache County, Utah

DATE: 2/25/2022

CACHE COUNTY SECTION CORNER PROJECT

SUMMARY

Cache County developed a monument preservation program where valley floor monuments are given the highest priority. The valley floor reflects where most of our growth is occurring. However after a few years of working on monument preservation, we are now looking at the corners that are requiring more research and near development projects which are taking place in our "Priority 1A and 2A". See attachment: *Image 1: Cache County Section Corner Summary Map.* With the help of monies from the Survey Monument Replacement and Restoration County Grant Program, Cache County would be able to accomplish significant monument preservation and locating in our Priority 1A and 2A areas.

THE PROBLEM

Many section corners have not been preserved, monumented or located within Priority 1A and 2A. Multiple surveys in the Priority 1A and 2A areas call out to stones and other corner locations that have not been verified by the county. Our focus, with this grant, is mainly within valley floor with a few in the mountainous area where original stones have been found. Locating and verifying these corners will allow us to properly monument and produce tie sheets with measured latitudes and longitudes preserving the corners in the long term. Capturing this valuable information provides clarity and reduces the risk of the corners being disturbed in the future.

THE WORKFLOW

Jeff Nielson P.L.S. of Foresight Surveying will turn in corner data, set forth in "Attachment C Field Procedures" of the Public Land Survey System (PLSS) Grant Program to the County's GIS division. The GIS division will be responsible for creating the corner tie sheets See: Image 2: Tie Sheet 574. Corner tie sheets meet and will continue to meet tie sheet standards set forth in "Attachment D" of the Public Land Survey System (PLSS) Grant Program. Corner tie sheets are then published to the public via the County's Section Corner & Survey Web Mapping Application (https://gis.cachecounty.org/websites/surveyviewer/).

OUR GOALS

Cache County has already made significant improvements on perpetuation and preservation within the valley floor. The challenge going forward will become locating corners with little to no information. Through the 2022-2023 year, Cache County has used its own funds to complete perpetuation of monuments already existing on the valley floor. Once existing corners have been perpetuated, the focus will shift to locating corners with limited to no data and/or tie sheet within our Priority Areas 1A and 2A.

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1. Complete Priority 1A - Existing section corners on the valley floor in need of perpetuation

- a. Perpetuation Completed = 805
- b. Needs to be Perpetuated = 191*
- 2. Priority 1B General area of the valley floor where section corners have not as of yet been located and limited to no data exists. Unknown count of section corners that can be reasonably placed (limitations of data, accessibility and usefulness)
- 3. Priority 2A Existing section corners in the mountainous areas in need of perpetuation
 - a. Perpetuation Completed = 148
 - b. Needs to be Perpetuated = 287*
- 4. Priority 2B General area of the mountainous areas where section corners have not been located and limited to no data exists. Unknown count of section corners that can be reasonably placed (limitations of data, accessibility, and usefulness)

*note: the above "needs to be perpetuated" numbers will fluctuate as more once unknown/missing corners are included.

OUR GOAL FOR THE 2021/2022 GRANT

- 1. Priority 2A Existing section corners in the mountainous areas in need of perpetuation
 - a. Perpetuation Completed = 148
 - b. Needs to be Perpetuated = 287
 - c. Perpetuate with 2022-2023 grant = 23

BUDGET

It is estimated that 16 section corners within Priority 1A and 2A can be perpetuated. The County estimates this can be accomplished at a cost near \$12,000.00.

Priority 2A: Existing damaged/missing corners requiring additional repairs

Materials

- 1. 4 Rebar Reference Points \$1.67 each (\$6.68)
- 2. 4 plastic caps \$0.26 each (\$1.04)
- 3. Aluminum survey caps \$9.80 each

Materials Total - \$17.52 per corner.

Labor

1. Surveying work, data compilation and record of surveys tied to corners research ≈ 5 hours each = \$750.00

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Materials and Labor Total = \$767.52 per corner.

This project is scalable to the amount of funding made available (more section corners can be added with additional funding and/or less corners with less funding).

County Resources/Match

The County is also putting financial and in kind effort into this project and request. While Cache County is seeking funds to finalize perpetuation of monuments in Priority 1A and 2A, the County has allocated funding to 1) pay unique material costs for Priority 1A/2A (concrete, flowable fill, etc.) and 2) in kind staff time for tie sheet creation and 3) cash match.

- 1. Tie sheet preparation 23 $@\approx 1$ hour each @\$40.00 per hour = \$920.00 (in kind)
- 2. Cash contribution \$1080.00 + out of pocket expense for unique materials

Match Total = \$2,000.00

For this round of funding Cache County is hoping to repair/perpetuate 16 section corners (*See Image 3: Section Corner Project Area Map*)

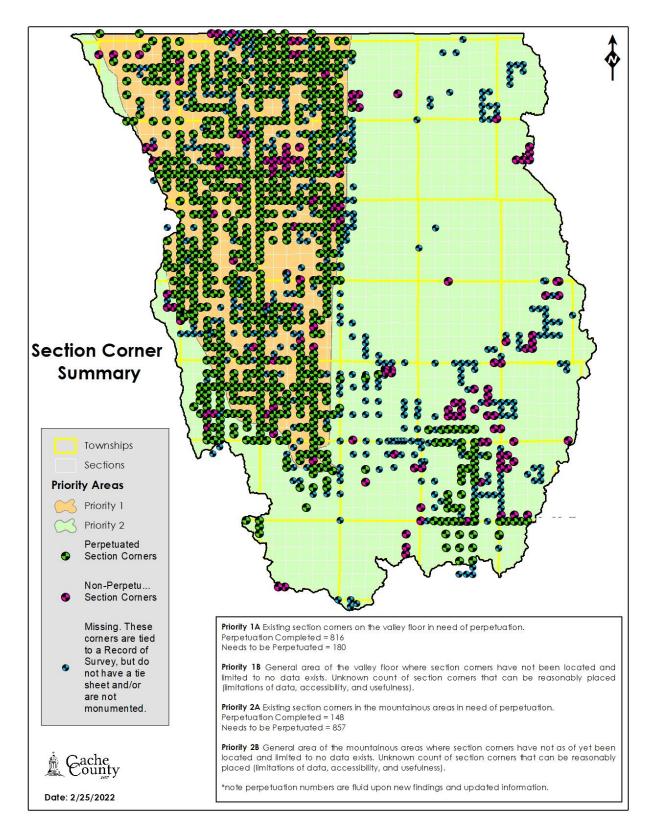
The estimated total cost to complete repairs and/or perpetuation on these 16 section corners is \approx \$16,000.

CONCLUSION

Cache County has made significant improvements to existing section corner data and tie sheets among the valley floor. The *Cache County Section Corner & Survey Web Mapping Application* is one of the County's most popular and useful tools to surveyors, realtors, title companies, cities, and the general public. As the County transitions into a more financially burdensome phase of the project the requested financial assistance will greatly improve the project's success. The County hopes to provide the PLSS with better quality section corner data as well as create an environment to receive higher quality land surveys and avoid property disputes.

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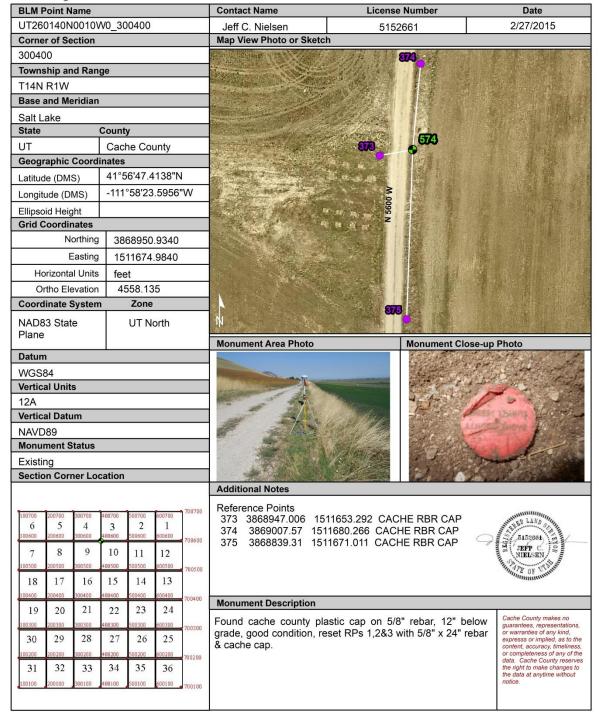
Image 1: Cache County Section Corner Summary Map



Cache County

Cache County Corner ID # 574

Monument Record Sheet

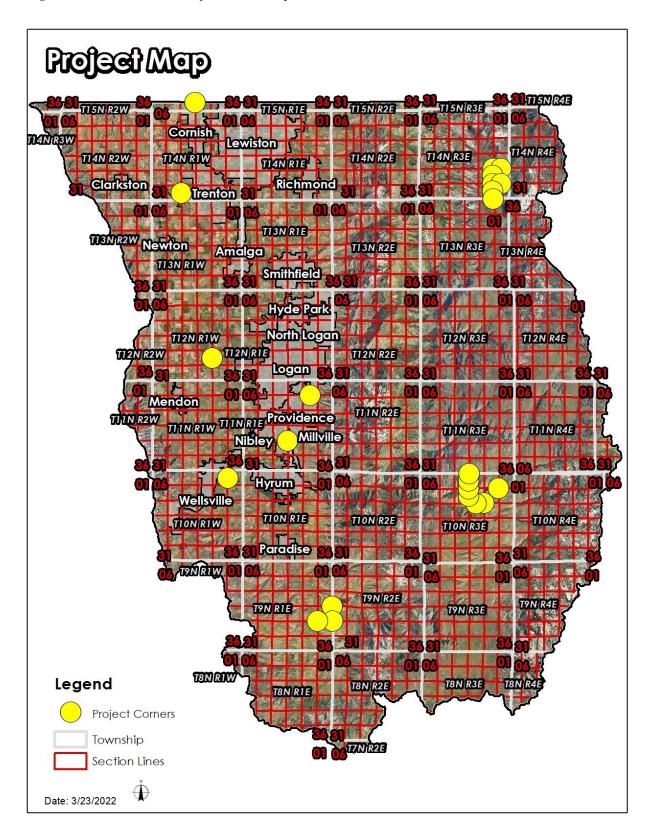


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Image 2: Tie Sheet 574

Image 3: Section Corner Project Area Map



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