



State of Utah
Monument Replacement and
Restoration Committee
4315 South 2700 West
Taylorsville, UT 84129

For Committee Use Only

Application No. _____

Date Filed: _____

GRANT APPLICATION

Applicant Information

Applicant agency Cache County

Street 179 N. Main St

City Logan State UT Zip 84321

Contact person Cary Jenkins

Phone 435-755-1644 Fax _____

Email cary.jenkins@cachecounty.org

Presiding official Matt Phillips

Title Public Works Director

Phone 435-755-1639

Email matt.phillips@cachecounty.org

Project surveyor Jeff Nielson

Phone 435-753-1910

Email jeff@foresightsurvey.com

Proposed Funding

Total project cost \$30,000

Total MRRC funds requested \$25,000

Other project funding (specify) \$5,000 in-kind

Attachment checklist

1. Description of the problem or situation to be addressed and how the proposed project will remedy the problem. A superior project description will thoroughly address each category of the Committee's Evaluation Criteria.
2. Map of the project area.
3. Cost estimate. Itemization of expenditures is encouraged. Include cost sharing if applicable.

Presiding official signature

I, Matt Phillips, the Public Works Director
(typed name) (typed title)

of Cache County Corp.
(typed name of applicant agency)

do hereby certify the information in this application is accurate and correct to the best of my knowledge and this application has been authorized by the applicant agency.

Matt Phillips
(signature)

Digitally signed by Matt Phillips
DN: cn=Matt Phillips, o, ou,
email=matt.phillips@cachecounty.org, c=US
Date: 2023.05.26 11:47:30 -06'00'

5/26/2023
(date)



Cache
County
1857

DEVELOPMENT SERVICES DEPARTMENT

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: 5/25/2023

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. While in recent years past the County has worked heavily within Priority 2A (*Image 1*), our mountainous region, the County feels it's important to pay attention to the mountainous region once again due the development and growth we have has seen over the last few years. 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 2A (*Image 1*) area.

THE PROBLEM

Cache County has identified an area where private land exists within public lands/ forest service property. With continued development pressures and current development applications. The county needs to preserve and validate these corners to facilitate growth. Goals we hope to accomplish with this grant is to tie down monuments to facilitate future surveying of county roads within the private and Forest Service land holdings. Preserved monumented corners will also help to tied down a trail realignment project around private property in conjunction with the Forest Service.

Our focus with this grant is located in the mountainous area to the east of the valley floor. We anticipate growth in these particular areas due to recent development applications. It's in the County's best interest to get these corners established before more growth and larger disputes begin to happen. Researching, verifying and reestablishing these corners will allow us to properly monument and produce tie sheets with measured latitudes and longitudes preserving the corners in the long term.

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. 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 1B and 2B.

1. Complete Priority 1A - Existing section corners on the valley floor in need of perpetuation
 - a. Perpetuation Completed = 914
 - b. Needs to be Perpetuated = 201*
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 = 857*
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 2024 GRANT

1. Priority 2A – Existing section corners near private land holdings adjacent to public lands
 - a. Perpetuate with 2024 grant = 22

BUDGET

It is estimated that these 22 section corners within Priority 2A can be perpetuated. The County estimates this can be accomplished at a cost near \$30,000.00.

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
4. Aluminum survey Monument Domed Cap \$62.50 each

Materials total \approx \$80.02 per corner depending what cap is set.

Labor

1. Surveying work, data compilation and record of surveys tied to corners research \approx 10 hours each = \$1,283.61

Materials and Labor Total = \$1,363.63 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, the County has allocated funding to 1) pay unique material costs for Priority 1A (concrete, flow able fill, etc.) and 2) in kind staff time for tie sheet creation and 3) cash match.

1. Tie sheet preparation 22 @ \approx 1 hour each @ \$40.00 per hour = \$880.00 (in kind)
2. Cash contribution \$4,120 + out of pocket expense for unique materials

Match Total = \$5,000.00

For this round of funding Cache County is hoping to perpetuate 22 section corners (*See Image 3/4: Section Corner Project Area Map*)

The estimated total cost to complete perpetuation on these 22 section corners is \approx \$30,000.00.

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.

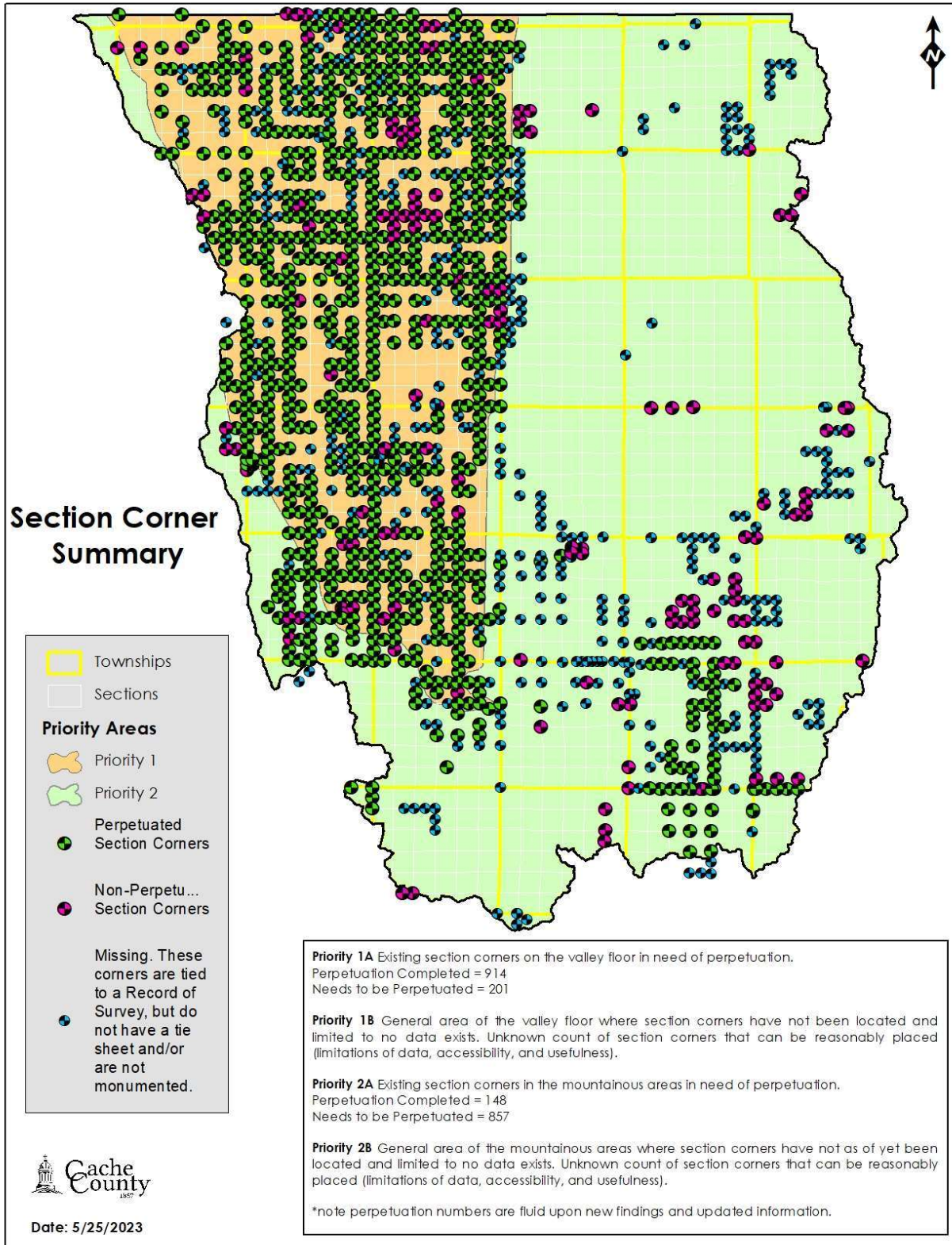


Image 1: Cache County Section Corner Summary Map



Cache County Monument Record Sheet

Cache County
Corner ID # **574**

BLM Point Name	Contact Name	License Number	Date																																																																																											
UT260140N0010W0_300400	Jeff C. Nielsen	5152661	2/27/2015																																																																																											
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300400																																																																																														
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State				County																																																																																										
UT				Cache County																																																																																										
Geographic Coordinates																																																																																														
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Longitude (DMS)				-111°58'23.5956"W																																																																																										
Ellipsoid Height																																																																																														
Grid Coordinates																																																																																														
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Easting				1511674.9840																																																																																										
Horizontal Units				feet																																																																																										
Ortho Elevation	4558.135																																																																																													
Coordinate System	Zone																																																																																													
NAD83 State Plane	UT North																																																																																													
Datum	WGS84																																																																																													
Vertical Units	12A																																																																																													
Vertical Datum	NAVD89																																																																																													
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Additional Notes	<p>Reference Points</p> <p>373 3868947.006 1511653.292 CACHE RBR CAP</p> <p>374 3869007.57 1511680.266 CACHE RBR CAP</p> <p>375 3868839.31 1511671.011 CACHE RBR CAP</p> <div style="text-align: right;"> </div>																																																																																													
Monument Description	<p>Found cache county plastic cap on 5/8" rebar, 12" below grade, good condition, reset RPs 1,2&3 with 5/8" x 24" rebar & cache cap.</p>		<p>Cache County makes no guarantees, representations, or warranties of any kind, express or implied, as to the content, accuracy, timeliness, or completeness of any of the data. Cache County reserves the right to make changes to the data at anytime without notice.</p>																																																																																											

Image 2: Tie Sheet 574

Image 3: Section Corner Project Area Map

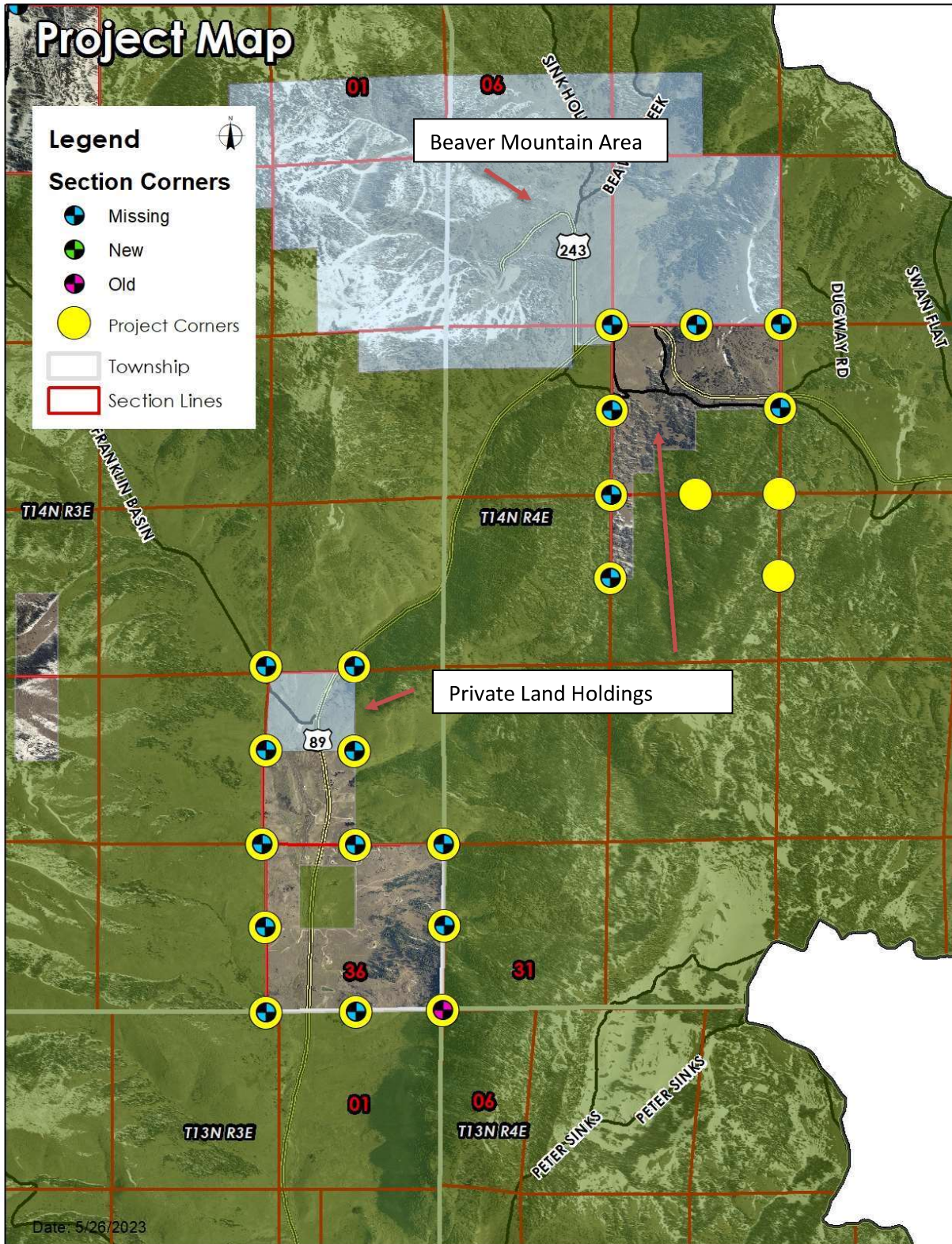


Image 4: Section Corner Project Area Map

