

## 1.0 | Project Summary Information

1.1 Project Name **5th North/6th East Roundabout**

1.2 Project Description (summary of project) **Construct a new roundabout at 5th North and 6th East in order to improve traffic flow through this busy intersection.**

1.3 Sponsor (jurisdiction) **Logan City**

### 1.4 Contact Information

Project Manager **Mike DeSimone**  
Office Phone **(435) 716-9022**  
Cell Phone **(435) 760-4734**  
Email **mike.desimone@loganutah.org**

### 1.5 Cost Estimate

Total Estimated Project Cost **\$750,746**  
CMAQ Funding Requested **\$698,194**  
Local Cash Match **\$52,552**  
Soft (or in-kind) Match proposed for project **0**

## 2.0 | General Project Scope

Please complete the following sections to help the CMPO better understand your project.

2.1 Describe purpose and need of project. **The construction of a roundabout at 5th North/6th East will replace a four way stop that experiences heavy traffic and stacking of vehicles during the USU school year and during special events. During peak travel times, traffic backs up for at least a block in each direction, while during significant events on campus, i.e., football/basketball games, 4th of July, etc., traffic backs up for several blocks.**

2.2 Describe existing service/conditions **This intersection has stop signs in all directions and has an average AADT of 10,000 - 12,000 vehicles.**

2.3 Describe the general air quality benefits of your project **On an annual basis, this project will eliminate approximately 80% of the vehicle delays, reduce vehicle emissions by almost 50%, substantially reduce fuel consumption, and save thousands of hours per year for motorists.**

### 3.0 | Roadway Congestion Mitigation Project Information

This section to be completed **ONLY** for projects with a roadway improvement elements to relieve congestion (i.e. intersection improvements and ITS projects).

3.1 Describe how the project will alleviate congestion on this or other facilities **This roundabout will replace a four way stopped intersection with approximately 10,000 - 12,000 vehicles stopping each time they move through the intersection.**

3.2 Describe any safety improvements for vehicular and bicycle/pedestrian traffic (i.e. raised medians, channelization of turn movements, barriers, parkway strips etc) **This roundabout will be constructed similar to the new roundabout at 5th North/2nd East with similar pedestrian safety features such as reduced crossing widths, pedestrian activated beacons, median refuges, etc.**

3.3 What additional right-of-way is needed for the project? **This project will require minimal right-of-way acquisition and generally any additional right-of-way acquisition will be limited to the corners of each of the four properties located on each street corner. We do not anticipate needing to remove any structures to install this roundabout.**

3.4 If phased or segmented, describe how the phase has independent utility and what future phases are anticipated? **Not a phased project.**

3.5 What is the reduced vehicle delay that would result from you project in 2016 (this information will most likely need to come from a traffic or warrant study based on existing traffic counts)?

Category	CMAQ Project Benefits
Estimated Reduced Vehicle Hours Traveled (VHT)	6,488 VHT Annually [80% x 10,000 (AADT) x 8 second avg delay +/- 60 seconds/minute +/- 60 minuts/hour x 365 days/yr = 6,488 VHT/year

### 4.0 |

**Alternative Transportation Mode Project (Bicycle, Pedestrian)** This section to be completed **ONLY** for bicycle and pedestrian trail related projects.

4.1 Length of project (if applicable) [Click here to enter text.](#)

4.2 Describe the expected use of the facility (bike/ped projects) [Click here to enter text.](#)

4.3 Describe any equipment to be purchased? [Click here to enter text.](#)

4.4 If phased or segmented, describe how the phase has independent utility and what future phases are anticipated? [Click here to enter text.](#)

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### 4.5 Facility usage information:

Estimating Method		Daily Users
<b>Method A:</b>	Estimated Daily Bicycle & Pedestrian Users (provide documentation)	<b>Enter Text</b>
<b>Method B:</b>	Estimated from Average Annual Daily Traffic (AADT) Walk trips (AADT value for nearest road x 3.8%) + Bike Trips (AADT value for nearest road x 4.3%) = total bike/walk trips – 20% (to account for recreation purpose trips that do not offset emissions)	<b>Enter Text</b>

## 5.0 | Construction Project Cost Estimate

At a minimum all projects (that include construction elements) are required to provide the cost estimate summary found below (section 5.1). Projects that include significant construction elements are also required to supply a more detailed cost breakdown that includes unit costs (should include inflation factor, right-of-way, contingency, etc). Although not required, applicants with projects that include construction activities are encouraged to use a project cost estimating excel spreadsheet tool developed by UDOT (can be easily customized for a non UDOT local project). This spreadsheet tool can be downloaded from the CMPO’s website at:

[http://cachempo.org/?page\\_id=1181](http://cachempo.org/?page_id=1181)

### 5.1 Cost Summary

Summarize the information from the Costs Estimate Excel form or other method. Enter NA for items that do not apply to the project.

- a) Preliminary Engineering **\$60,000**
- b) Environmental Work **0**
- c) Right of Way Purchase **\$50,000**
- d) Construction **\$584,746**
- e) Construction Engineering **\$56,000**
- f) Other costs (describe) **0**
- g) Total Cost **\$750,746**

## 6.0 | Demonstration of Air Quality Benefit

**THE CMPO WILL WORK WITH YOU TO COMPLETE THIS INFORMATION AFTER YOUR APPLICATION IS SUBMITTED**

Based in the information you have provided CMPO staff will calculate an estimated emission reduction benefit and an estimated emission reduction benefit/cost in

Pollutant	Reduced Annual Emissions (in tons)
<b>Direct PM 2.5</b>	<b>Enter Text</b>
<b>CO</b>	<b>Enter Text</b>
<b>NOx</b>	<b>Enter Text</b>

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VOC	Enter Text
PM10	Enter Text
Total	Enter Text

**Project's Emission Benefit/Cost** Enter Text

(Annual Kg of emissions reduced \* project life/\$1,000 cost)

## **7.0 | Supplemental Information**

Please submit any supporting documentation including concept plans, maps, diagrams, charts, cost estimates, etc. that will allow the CMPO to make an informed decision regarding your proposed project. **Keep Supplemental Information submittals to 5 pages total.**

## **8.0 | Application Submittal**

### **8.1 Application Submittal Instructions**

**APPLICATIONS ARE DUE BY 5:00 PM ON: SEPTEMBER 2, 2015**

Submit completed application(s) to:

CMPO

Cache Administration Building

179 N. Main, Suite 305

Logan UT 84321

**Applicants must submit one hard copy.** In order to facilitate the distribution of the applications and any supplemental information please also email a copy of your application to [jeff.gilbert@cachecounty.org](mailto:jeff.gilbert@cachecounty.org). Please email your application saved in word format. At your own risk, your application can be submitted only electronically. However allow enough time to receive confirmation of receipt from the CMPO.

Failure to submit an electronic copy of your application before the deadline will not disqualify your application (only hardcopy is required before the deadline).

### **8.2 Contacts, Questions**

For help with the application or questions, please contact:

Jeff Gilbert

179 N. Main, Suite 305, Logan

P 435-755-1634 C 435-994-1220

Email: [jeff.gilbert@cachecounty.org](mailto:jeff.gilbert@cachecounty.org)

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### 9.0 | 2015 CMAQ Project Funding Prioritization Schedule

<b>July 15, 2015</b>	<b>Notice of funding Availability:</b> Legal notice in Newspaper, CMPO Website and mailing to CMPO participating jurisdictions. Prospective applicants will be notified of the amount potentially available (set by board).
<b>August 6, 2015 by 5:00 PM to CMPO</b>	<b>One page project proposal due.</b> To the extent possible, potential applicants should describe the project, include major budget items and identify quantifiable reductions in mobile source emissions. Email proposals will be accepted at applicant's own risk (applicant's responsibility to confirm CMPO receipt by 5:00 PM).
<b>August 19, 2015 @ 3:30 PM 3<sup>rd</sup> floor Conf Room, County Admin Building</b>	<b>CMAQ Review Committee "short list" meeting (If needed).</b> Develop short list to be advanced to "Concept Report" phase. This meeting will be held only if needed. Depending on the number of proposals submitted, all projects could be advanced to "Concept Report" via email communication.
<b>August 19, 2015</b>	<b>Begin UDOT (Elden Bingham) and Federal Highway Administration (Steve Call) Eligibility Review (as necessary)</b>
<b>September 2, 2015 by 5:00 PM to CMPO</b>	<b>CMAQ "Concept Reports" due to CMPO.</b> Short listed projects must submit completed CMPO "Concept Report" forms to the CMPO office at 179 N. Main, Suite 300. Email applications will be accepted at applicant's own risk (applicant's responsibility to confirm CMPO receipt by 5:00 PM).
<b>September 9, 2015 @ 3:30 PM 3<sup>rd</sup> floor Conf Room, County Admin Building</b>	<b>CMAQ Review Committee Concept Review and Recommendation Meeting.</b> The committee will finalize the funding recommendation to the CMPO Executive Council.
<b>September 21, 2015 (tentative) Multipurpose Room, County Admin Building</b>	<b>CMPO Executive Council Meeting.</b> The Council will hold a public hearing and consider amending the 2015 CMPO Transportation Improvement Program (TIP) with projects to be funded with CMAQ.
<b>October 16, 2015 8:30 AM Provo Utah</b>	<b>Utah Transportation Commission Meeting</b> Considers ratifying the CMPO's TIP action and considers introducing the amendment the UDOT Statewide Transportation Improvement Program (STIP).
<b>October 17, 2015</b>	<b>Project Implementation</b> UDOT Region One Project Managers work with CMAQ grantees to establish project contracts and carry out the project.

Construction Costs for Roundabout

Description	Quantity	Unit	Unit Cost	Total Cost
Mobilization	1	LS	\$49,200.00	\$49,200
Traffic Control	1	LS	\$35,350.00	\$35,350
SWPPP	1	LS	\$6,420.00	\$6,420
Surveying	1	LS	\$5,900.00	\$5,900
Site Clearing	1	LS	\$17,000.00	\$17,000
Removal/Demolition	1	LS	\$23,290.00	\$23,290
Roadway Excavation	2400	CY	\$4.50	\$10,800
Adjust MH Covers/Valve Boxes	1	LS	\$1,575.00	\$1,575
Granular Borrow	1350	TON	\$20.20	\$27,270
Topsoil	7260	CY	\$0.90	\$6,534
Traffic Signage	21	EA	\$236.00	\$4,956
Untreated Base Course	600	TON	\$27.00	\$16,200
Hot Mix Asphalt	3205		\$26.10	\$83,651
4" Thick Decorated Concrete	2440		\$5.80	\$14,152
7" Thick Decorated Concrete	2380		\$7.50	\$17,850
Concrete Sidewalk	2650		\$3.30	\$8,745
Type Q Curb	737	LF	\$13.50	\$9,950
Type A Curb and Gutter	840	LF	\$13.00	\$10,920
24" Mountable Curb	270	LF	\$17.80	\$4,806
12" Barrier Curb	202	LF	\$17.50	\$3,535
6" Thick Flared Concrete Driveway	435		\$4.40	\$1,914
Approach Island Plowable Section	4		\$560.00	\$2,240
Pedestrian Curb Ramp	8	EA	\$860.00	\$6,880
Pavement Markings - 4" Paint	4410	LF	\$0.08	\$353
Pavement Markings - 8" Paint	365	LF	\$0.15	\$55
Pavement Markings - Thermoplastic	132	LF	\$6.92	\$913
Pavement Message - Thermoplastic	49	EA	\$124.20	\$6,086
Colored Pavement Markings - Thermoplastic	817		\$20.50	\$16,749
Crosswalk	4		\$1,550.00	\$6,200
Grass Sod	7258		\$0.48	\$3,484
Waterline Relocation	1	LS	\$63,300.00	\$63,300
Stormdrain Relocation	1	LS	\$87,600.00	\$87,600
2" Conduit	750	LF	\$9.40	\$7,050
4" Conduit	600	LF	\$13.75	\$8,250
6" Conduit	350	LF	\$16.80	\$5,880
Junction Box	17	EA	\$570.00	\$9,690
Subtotal				\$584,746

Construction Estimated Cost

\$584,746



USU  
Old Main Hill

700 E

700 E

600 N

600 E

500 N

New Roundabout  
Location

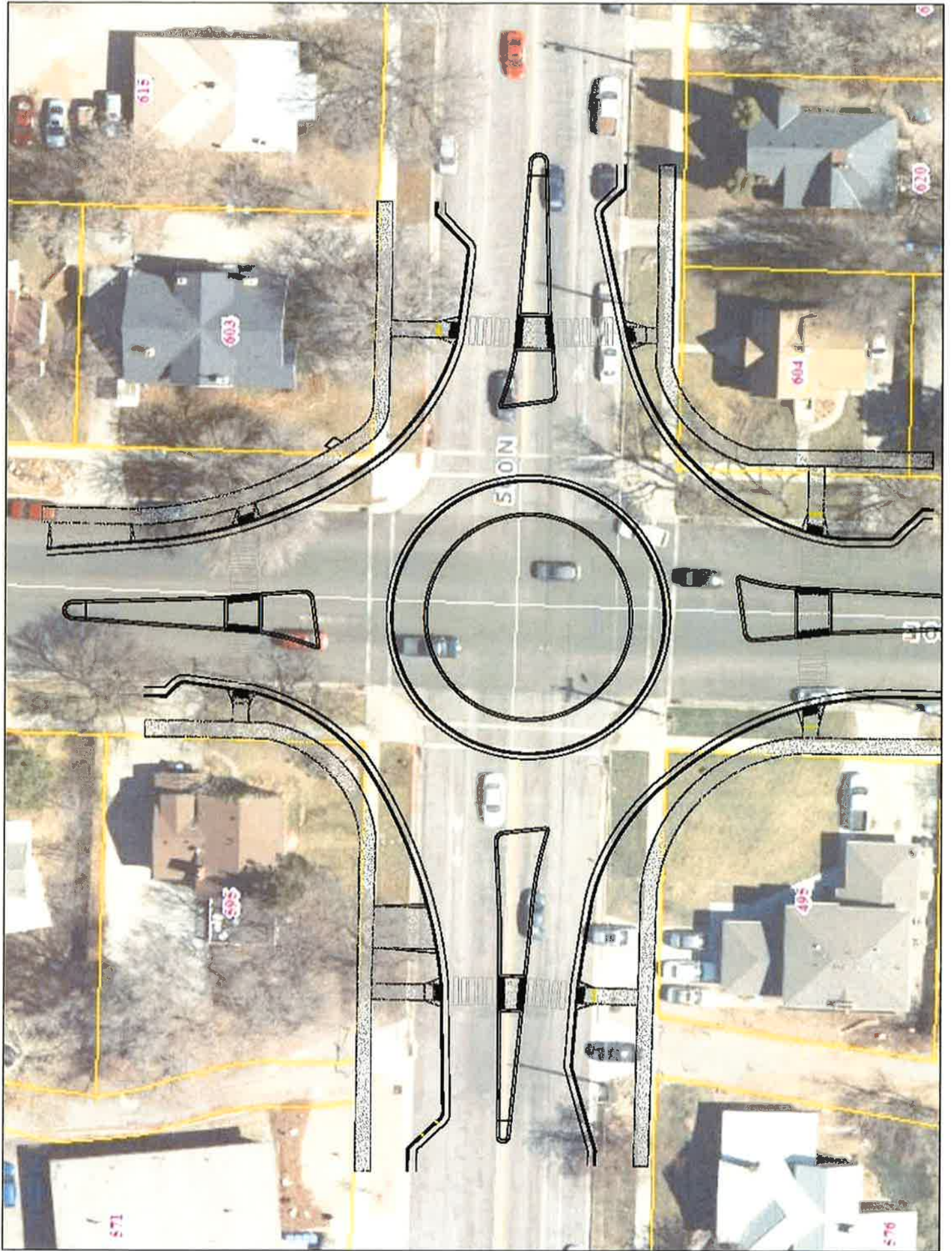
RAYMOND

400 N

500 E

Adams  
Park





5<sup>th</sup> North/2<sup>nd</sup> East Roundabout – Representational of Proposal at 5<sup>th</sup> North/6<sup>th</sup> East



## ROUND ABOUT 500 NORTH 600 EAST ESTIMATE

DESCRIPTION	QUANTITY	UNITS	UNIT COST	TOTAL COST
<b>ELECTRICAL/LIGHTING</b>				
2" Conduit	750	LF	\$9.40	\$7,050
4" Conduit	600	LF	\$13.75	\$8,250
6" Conduit	350	LF	\$16.80	\$5,880
Junction Boxes	17	EA	\$570.00	\$9,690
Lights	4	EA	\$4,850.00	\$19,400
RRFB Pedestrian Signals	8	EA	\$5,350.00	\$42,800
Total				\$93,070
<b>RIGHT WAY</b>				
Acquire Right of Way	1	LS	\$50,000.00	\$50,000
Total				\$50,000
<b>TOTAL ESTIMATED CONSTRUCTION COSTS</b>				<b>\$700,717</b>
<b>OTHER AND ENGINEERING</b>				
Design Engineering			16%	\$112,115
Environmental (Assume a Categorical Exclusion)			8%	\$56,057
Construction Engineering			16%	\$112,115
UDOT Oversight			4%	\$28,029
Aesthetics			0.75%	\$5,255
Change Order Contingency			9%	\$63,065
Items Not Estimated			10%	\$70,072
Total				\$446,707
<b>SUMMARY</b>				
<b>GENERAL SITE PREPARATION/DEMOLITION</b>				<b>\$148,520</b>
<b>SITE CONCRETE AND APHALT</b>				<b>\$241,509</b>
<b>UTILITY RELOCATION</b>				<b>\$152,600</b>
<b>LANDSCAPING</b>				<b>\$15,018</b>
<b>ELECTRICAL/LIGHTING</b>				<b>\$93,070</b>
<b>RIGHT WAY</b>				<b>\$50,000</b>
<b>OTHER AND ENGINEERING</b>				<b>\$446,707</b>
<b>TOTAL ESTIMATED PROJECT COST</b>				<b>\$1,147,424</b>