Marystown Road Corridor

City Council Work Session May 4, 2021

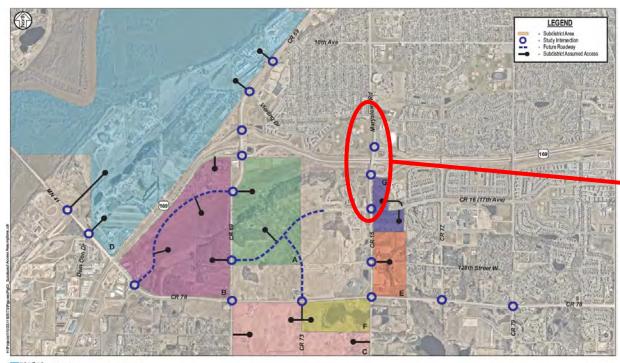


OUTLINE

- Issues Review the issues.
- History Past studies, plans, CIP projects (place holders), funding applications
- Marytown Road Corridor Study
- Consensus?
- Next steps



Marystown Road Corridor

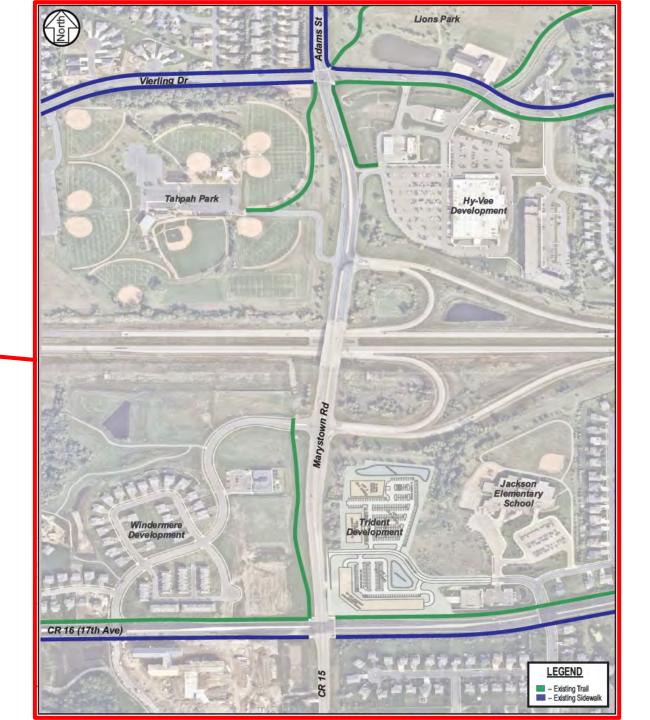




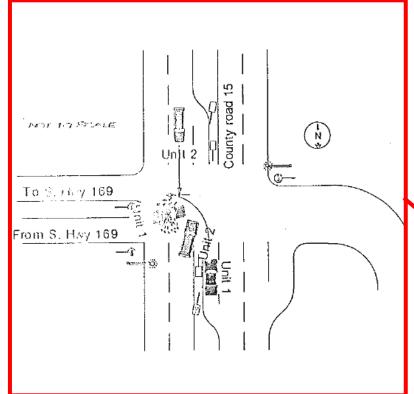
Subdistrict Access Assumptions
Shakopee AUAR Transportation Analysis

Figure

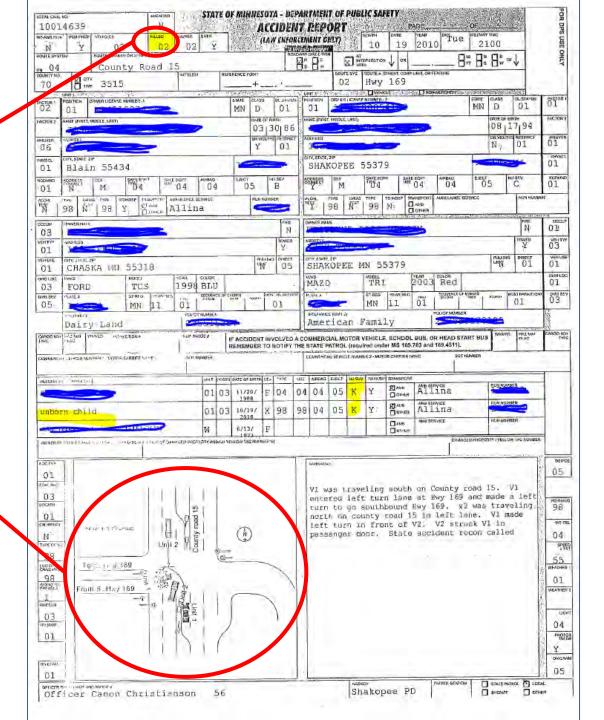




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ROUTE SYSTEM ROUT	TE HUIZBER OR STREET HAM	1E			ROADWAY DIRECTION	
_{en} 04 C	county Road	d 15				X.
		Lace Compa	bee	THING SOUTH	,	ROUTES







Hy-Vee Development:

Traffic Impact Study
 Recommendations and
 Conclusions

Current Issues:

- Illegal left turns
- U-turns
- turn around in adjacent neighborhoods



As the proposed West End development progresses, impacts from that traffic will start to cause capacity issues at the study intersections. The traffic impact analysis provided an analysis that reviewed signalization and roundabout control at the study intersections. Based on that analysis, both options will provide an acceptable level of service, with roundabouts providing overall better operations. A more thorough review of West End traffic impacts should be performed to provide more refinement to future improvements in the study area.

The proposed development is recommended to provide a dedicated northbound right-turn lane at the project access driveway on Marystown Road. The right-in/right-out driveway along Marystown Road is anticipated to operate at LOS A at build out.





	HY-VEE	336
BLDG. S.F. 95,800 S.F.	NO. OF SPACES 517	RATIO 5.40/1.000 S.F.
	C-STORE	
BLDG. S.F. 4,342 S.F.	NO. OF SPACES	RATIO 5.30 / 1,000 S.F.
	TOTAL	
BLDG, S.F. 100.141 S.F.	NO. OF SPACES 540	RATIO 5.39 / 2,000 S.F.

Z3.84 ACRES

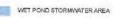


ORNAMENTAL TREES



TURF

DRY POND STORMWATER AREA



SITE PLAN: PHASE II SHAKOPEE, MN JUNE 2016





STOR WHITENEY AND REST DATES ST. PARL VIOLESCH 2014 TEL NO. (SDIT BAD 4 BY TAY NO. (SDIT BAD AND

Multi-jurisdictions:

- MnDOT at interchange with access control
- County all 4 legs of CR 15/16 intersection
- City
- Conflicting and overlapping interests between <u>mobility</u> (MnDOT and County) and <u>access</u> (City)
- → City goal: Maintain <u>balance</u> (between mobility and access)





County Road 15 – "Turnback"

SHAKOPEE

Consent Business

5. C. 2.

TO: Mayor and City Council

FROM: Bruce Loney, Public Works Director

DATE: 08/16/2016

SUBJECT: *Approve a Turnback Agreement with Scott County for County Road 15 (D,E)

Action Sought

Authorize the appropriate city officials to execute the Scott County Turnback Agreement associated with County Highway 15 from 760 feet north of CH 16 to 6th Avenue.

Background

On March 22, 2016, the City Council of Shakopee and Scott County commissioners met on various items concerning the west end study and transportation projects. At the meeting, it was decided to turn back CH 15 from CH 16 to 6th Avenue to the city. Also, the county wants to extend CH 16 from CH 15 to CH 69 as shown in the west end study. From that meeting, the county has decided to keep CH 15 760 feet north of CSAH 16 as a county road and turn back the rest of CH 15 to 6th Avenue.

Attached to this memo is the County Turnback Agreement from County Highway No. 15. The agreement contains the conditions of the turnback with the county performing maintenance of CH 15 prior to turnback. Also, a condition on working on the extension of CH 16 through the west end study.



CP 15-12 Turnback Agreement County of Scott City of Shakopee

CITY OF SHAKOPEE SCOTT COUNTY

TURNBACK AGREEMENT COUNTY HIGHWAY NO. 15

THIS AGREEMENT, made and entered into this day of 2016, by and between the City of Shakopee, a body politic and corporate under the laws of the State of Minnesota, hereinafter referred to as the "City" and the County of Scott, a body politic and corporate existing under the laws of the State of Minnesota, hereinafter referred to as the "County," both hereinafter collectively referred to as the "Parties."

WITNESSETH:

WHEREAS, the County seeks to reconvey to the City, County Highway (CH) 15, from 760 feet north of the north right-of-way line of CH 16 to 6th Avenue West in the City of Shakopee, including all County owned right-of-way, as shown on Attachment 1.

WHEREAS, the County Board of Commissioners has the authority under Minnesota Statute 163.11 to turnback County roads to Cities; and

WHEREAS, CH 15 no longer serves a County highway function north of CH 16 as discussed at the joint workshop of the City Council and County Board. The roadway primarily provides local collector and B minor arterial access within the City of Shakopee to the north of CH 16 and serves less of a mobility function and, thereby, being better suited to be on the City roadway system; and

WHEREAS, the County needs to maintain control of the influence area of the CH 16 and CH15 intersection to ensure proper function of the operations of this intersection in the future; and

WHEREAS, the Parties desire to transfer jurisdiction of a portion of CH 15 in an orderly fashion and have therefore set forth their respective obligations to accomplish this objective; and

WHEREAS, the City has prepared a West End Study and has developers considering subdivision of property which includes extending CH16 from its current termini at CH 15 to the west concluding at CH 69.

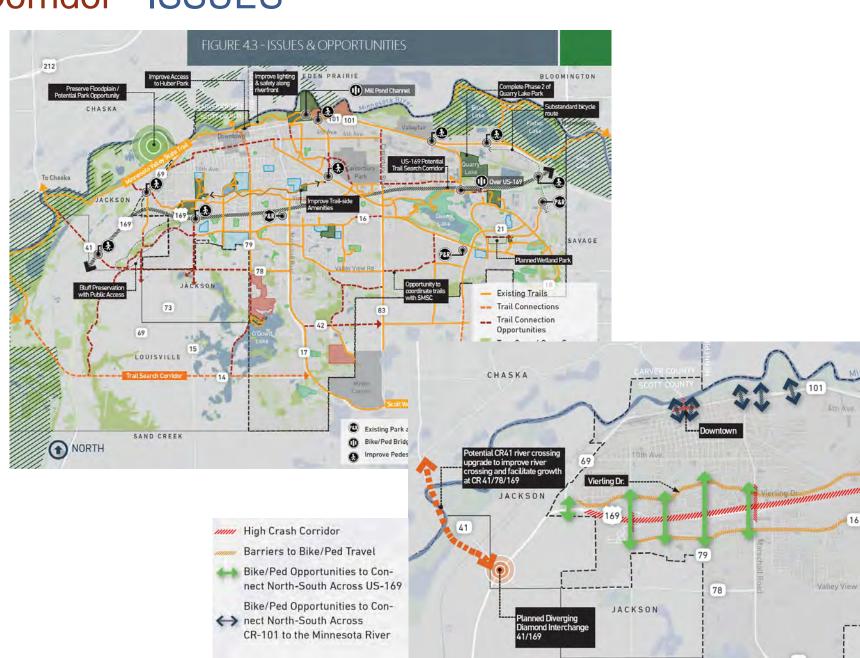


2019 Comprehensive Plan (Envision Shakopee)

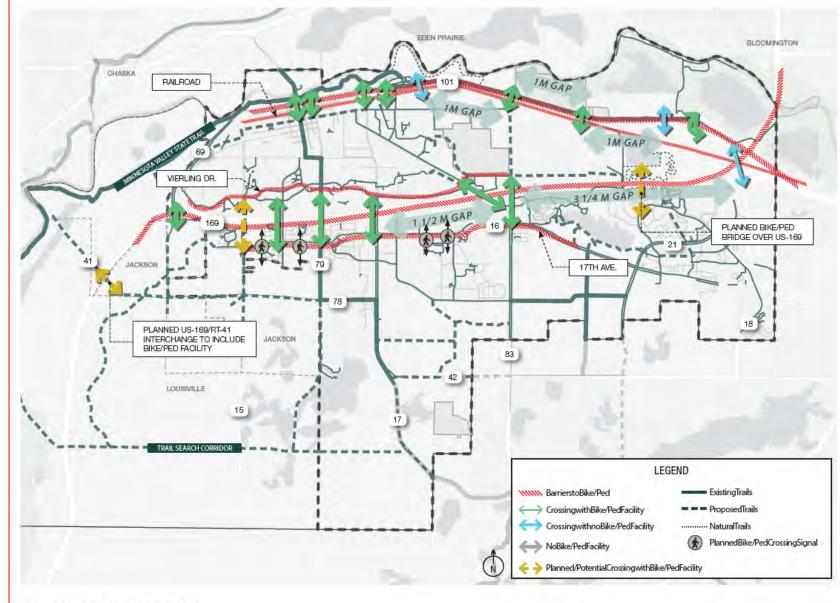
Marystown Road:

- Identified as a "High Crash Corridor)
- TH 169 barrier identified (pedestrians)





2019 Parks/Rec Master Plan





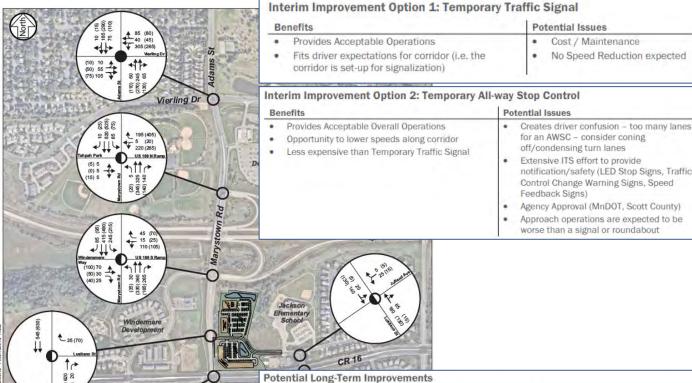
2019 Parks/Rec Master Plan

- Regional Ped gap (Vierling Greenway connection and continuance through Windermere and the bluff and city park system to the west
- TH 169 → barrier between residential/school on the south side and the parks and HyVee on the north





Trident Development – traffic



Access Alternative 1: Right-in/Right-out on CR 15



Access Alternative 2: Right-in/Right-out on CR 16



Potential Long-Term Improvements

To address the future capacity and safety issues identified, the following improvements are offered:

- Construct roundabouts or traffic signals at the Marystown Road/US 169 North Ramp, Marystown Road/US 169 South Ramp, and CR 15/CR 16 intersections prior to year 2025.
- 2) Consider constructing a roundabout at the Adams Street/Vierling Drive intersection to eliminate a multi-lane all-way stop condition and to help reduce any potential improper maneuvers that are occurring along the corridor from the Hv-Vee Access.

These improvements and traffic controls are being evaluated in more detail as part of the on-going Marystown Road Corridor Study to determine the optimal design for the area.



Traffic Safety Committee:

- Since 2018, Corridor complaints consistent (10 Traffic Safety Committee "cases")
- Short-Term: Identified the issues, some interim strategies implemented
- Long-Term: Marystown Rd **Corridor Implementation**



Meeting Minutes Traffic Safety Committee (TSC) October 8, 2020

Traffic Safety Committee (TSC) members present: Public Works Director/City Engineer-Steve Lillehaug, Assistant City Engineer-Ryan Halverson, Police Captain-Chris Dellwo, Project Engineer-Micah Heckman, Public Works Superintendent-Bill Egan, Administrative Assistant-Carmela Nascene, Graduate Engineer-Adam Bentson

TSC member raised a concern that the fog line striping was not modified during construction Old Business A. Adams Street/Hy-Vee – Striping & Way Finding Plan of the new Hy-Vee. In addition, the city has received complaints from neighbors on Quincy Circle regarding vehicles exiting Hy-Vee and using their driveways to turn around. The city has also received complaints regarding exiting vehicles making U-turns on Adams Street on the north end of the existing median.

A traffic study was completed prior to Hy-Vee being built but it did not identify any potential issues. However, it is evident that access control issues occur, and mitigation measures and

The TSC determined that the striping along Adams Street at the right-in access to Hy-Vee improvements are needed. needed to be restriped (this was completed with the city's 2019 annual striping project). In addition, the city hired a consultant to evaluate the intersection of Adams Street and Vierling Drive. The TSC also identified possible internal wayfinding improvements on the Hy-

Action: A corridor study along Adams Street/Marystown Road was completed by a consultant and the report indicated a roundabout is recommended at the intersection of Adams Street and Vierling Drive and the existing median on Adams Street should be extended north to Vierling Drive to channelize traffic. Public Works has also been in contact with Hy-Vee to implement onsite wayfinding signage to properly access southbound Adams Street via Vierling Drive. Hy-Vee will implement internal wayfinding signage. Public Works will provide follow-up information to the inquirers.

Traffic conditions:

- existing (50 MPH +)
- uncontrolled intersections
- large/wide pavement areas at intersections
- sight line issues with vertical curvature of roadways
- transition from rural to urban
- interchange
- no ped facilities
- accidents on the rise





Marystown Road Corridor - HISTORY

History of studies and initiatives

- West End Study (2015)
- Hy-Vee Traffic Impact Study (2016)
- Turnback Agreement with County (2016)
- Trident Traffic Impact Study (2019)
- Jackson Township AUAR (2019-20)
- Comprehensive Plan Transportation (2019)
- Parks and Rec Master Plan Trails (2019)
- Marystown Road Corridor Study (2020)



RESOLUTION NO. R2020-036

A RESOLUTION OF THE CITY OF SHAKOPEE, MINNESOTA AUTHORIZING THE ADOPTION OF THE ALTERNATIVE URBAN AREAWIDE REVIEW (AUAR) FOR JACKSON TOWNSHIP

WHEREAS, the City of Shakopee, as the responsible governmental unit (RGU), prepared a draft AUAR and Mitigation Plan which identifies and assesses the environmental impacts and mitigation measures associated with the Jackson Township area, and distributed this plan for comments, with notice published in the EQB Monitor, consistent with Minnesota Rule 4410.3610; and

WHEREAS, the City of Shakopee prepared a revised/final AUAR and Mitigation Plan which included responses to agency comments received in connection with the draft AUAR and Mitigation Plan and distributed final documents to state agencies and the Met Council; and

WHEREAS, the comments received and the City's responses to these comments are included in the public record for the AUAR; and

WHEREAS, no objections to the revised/final AUAR and Mitigation Plan have been received; and

WHEREAS, the revised/final AUAR and Mitigation Plan is an informational document that will assist the City of Shakopee in guiding development of the subject area.

NOW, THEREFORE, BE IT RESOLVED THAT the City Council of the City of Shakopee hereby adopts the revised/final AUAR and Mitigation Plan for Jackson Township.

Adopted in regular session of the City	Council of the City	of Shakopee, Minnesota.
held the May of March	, 2020.	

Mayor

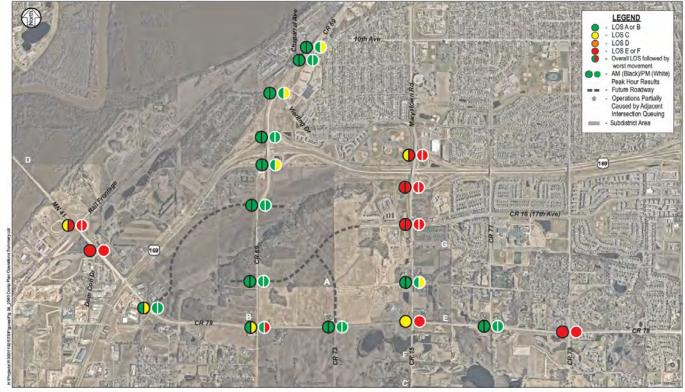
ATTEST:

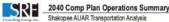
Louis Denun

City Clerk

Marystown Road Corridor - HISTORY

Jackson Township AUAR (2019-20)





Figure

Table 15: 2040 Comprehensive Plan Scenario – Intersection Capacity Analysis

Table 201 20 10 Compressions 1 Interest	you							
Intersection	A.M. F	Peak Hour	P.M. Peak Hour					
mtersection	LOS Delay LOS Delay C/F 51 sec. F/F >3 min							
Marystown Road/CR 15								
Marystown Road/US 169 North Ramp (1)	C/F	51 sec.	F/F	>3 min				
Marystown Road/US 169 South Ramp (1)	F/F	>3 min	F/F	>3 min				
CR 15/CR 16 (1)	F/F	>3 min	E/F	~2.5 min				

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Adopted in re	gular session of the C	ity Council of the City	of Shakopee, Minnesota,
held the //	day of Mark	. 2020.	

Mayor

ATTEST:

Lorif Henry

City Clerk

Table 16: Max Build Scenario – Intersection Capacity Analysis

Intersection	A.M. F	Peak Hour	P.M. Peak Hour		
intersection	LOS	Delay	LOS	Delay	
Marystown Road/CR 15 ⁽³⁾					
Marystown Road/US 169 North Ramp (3)	Α	6 sec.	А	10 sec.	
Marystown Road/US 169 South Ramp (3)	А	9 sec.	Α	10 sec.	
CR 15/CR 16 (3)	С	22 sec.	В	17 sec.	



Memorandum

SRF No. 13195.00

To: Steve Lillehaug, PE, PTOE, Public Works Director/City Engineer

City of Shakopee

From: Brent Clark, PE, Senior Engineer

Matt Pacyna, PE, Principal

Date: June 24, 2020

Subject: Marystown Road Corridor Study

Introduction

The City of Shakopee, in partnership with Scott County and the Minnesota Department of Transportation (MnDOT), developed the future vision for County Road (CR) 15/Marystown Road/Adams Street from Vierling Drive to CR 16 (17th Avenue W) in Shakopee, Minnesota. The development and operations along the corridor have been discussed and evaluated in the following studies that were completed in 2019:

- Shakopee AUAR Transportation Analysis, SRF Consulting (September 2019)
- Trident Development Transportation Study, SRF Consulting (December 2019)

These previous studies identified that the current traffic control along the corridor is not expected to sufficiently accommodate future growth and planned development in the area by the year 2025. In addition, there are safety concerns at the intersections, as CR 15/Marystown Road is a high-speed corridor (45 to 55 mph) and there has been a recent increase in crashes since construction of the Hy-Vee and Windermere developments (along with the addition of the west approaches at the US 169 South Ramp and CR 16 intersections to accommodate the Windermere development). The City also has a desire to repurpose the US 169 Bridge to provide a multi-use trail on both sides, thus connecting a gap in the City's trail system. Therefore, this study was completed to determine the current and future traffic control/corridor needs of CR 15/Marystown Road that will inform the anticipated reconstruction project from Vierling Drive to CR 16 planned for the year 2022. This study summarizes the technical evaluation completed for the project.





Shakopee City Council November 6, 2019

FROM: Steve Lillehaug, City Engineer/Public Works Director

TO: Mayor and Council Members

Subject:

Professional Services Agreement with SRF Consulting Group, Inc., for the Marystown Road/Adams Street Corridor Study

Policy/Action Requested:

Authorize the execution of a professional services agreement with SRF Consulting Group, Inc., for corridor study services for the Marystown Road/Adams Street Corridor Improvement Project CIF-TBD-007.

Recommendation:

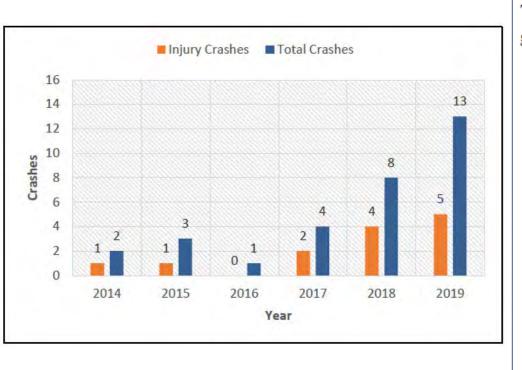
Authorize execution of the agreement.

Discussion:

The Capital Improvement Plan (CIP) identifies the future Marystown Road/Adams Street Improvement Project CIF-TBD-007. The project is categorized as a "pending" project in the CIP, indicating that the priority and funding are yet to be determined. Subsequent to approving the CIP on September 17, 2019, a developer is now proceeding with the development approval process for the quadrant of land located east of Marystown Road between Trunk Highway 169 and County Road 16 (17th Avenue, located just west of the Jackson Elementary School), referenced as the Trident Development. Additionally, the traffic study portion of the Alternative Urban Areawide Review plan for the west end of Shakopee and Jackson Township that is underway identifies the four intersections included in this CIP project as needing intersection control improvements (e.g. roundabouts) in the coming future once the traffic, level of service and safety conditions warrant implementation.

Based on the current traffic conditions including the safety and access complaints surrounding the Hy-Vee development, the substantial development of the Windermere area and now the proposed Trident Development, the advancement of the Marystown Road/Adams Street Improvement Project is warranted to ensure transportation safety is maintained within the corridor. With City Council approval, city staff is prepared to immediately proceed with the preliminary design and study necessary to advance the actual design and construction of the project, which is anticipated to be advanced to a 2021-22 construction.

The project is a complex, multi-jurisdictional project that will involve key transportation planning and approval measures including substantial agency coordination, data collection, traffic analysis and reporting, four intersection control evaluations (ICE Reports), complex concept layout design that coordinates with the Trunk Highway Interchange and the existing bridge, bridge concept layout, cost estimating and a formal Interchange Revision Request. Additionally, applications for state and federal funding are included as part of the scope of work through the Highway Safety Improvement Fund and through the Regional Federal Solicitation. City staff needs assistance from a design consultant to complete the corridor study based on current and expected workload. City staff has worked with SRF Consulting Group, Inc. to develop a scope of work needed to deliver the project. SRF Consulting Group, Inc., has the experience, technical skill, and capacity to provide the needed services and is a firm in the city's approved consultant pool. The attached Professional Services Agreement authorizes and describes the scope and fee for their work on this project.



The latest three-year period (2017-2019) was used for the crash analysis per MnDOT ICE report guidance and is summarized below:

- 25 intersection crashes were reported at the study intersections; Approximately 70 percent of the crashes were right-angle crashes.
- No fatal or incapacitating injury crashes occurred along the corridor; there were six (6) non-incapacitating injury crashes, five (5) possible injury crashes, and 14 property damage only (PDO) crashes.
 - O There was a right-angle crash that resulted in two fatalities at the Marystown Road/ US 169 North Ramp intersection in 2010.
- All four study intersections have crash rates higher than the average rate; the CR 15/CR 16 intersection has a crash rate higher than the critical crash rate.
 - All eight (8) CR 15/CR 16 intersection crashes occurred after the west leg of the intersection was constructed in 2018.
 - o Six (6) of the eight (8) crashes were right-angle crashes; five (5) of which resulted in injury.



Analysis → Evaluations → Conclusions and Recommendations

Future Operations Analysis (Appendix E)

A year 2025 and year 2040 intersection capacity analysis was completed to evaluate how the study intersections are expected to operate in the future if no geometric or traffic control changes are made. The intersections were evaluated with the existing geometry and traffic control, with forecasted turning movements. Results of the analysis identified the following:

- Under year 2025 conditions, the CR 15/CR 16 and Marystown Road/US 169 ramp intersections are expected to have failing side-street operations during the peak hours. The US 169 ramps are expected to have queues that extend over 50 percent of the off-ramp, which may cause safety issues as vehicles coming from US 169 may not expect these queues. Furthermore, as side-street operations begin to fail, drivers will begin to accept smaller gaps, which could present additional safety risks.
- Under year 2040 conditions, the CR 15/CR 16 and Marystown Road/US 169 ramp
 intersections are expected to operate at an overall LOS F during the peak hours, with delays
 greater than three (3) minutes. These intersections had model failure, meaning the full demand
 at these intersections was not able to enter the network.
 - o The Adams Street/Vierling Drive intersection is expected to operate at a LOS D during the p.m. peak hour, with the westbound approach operating at LOS E; the improper movements at the Hy-Vee right-in/right-out access identified under existing conditions are expected to continue.

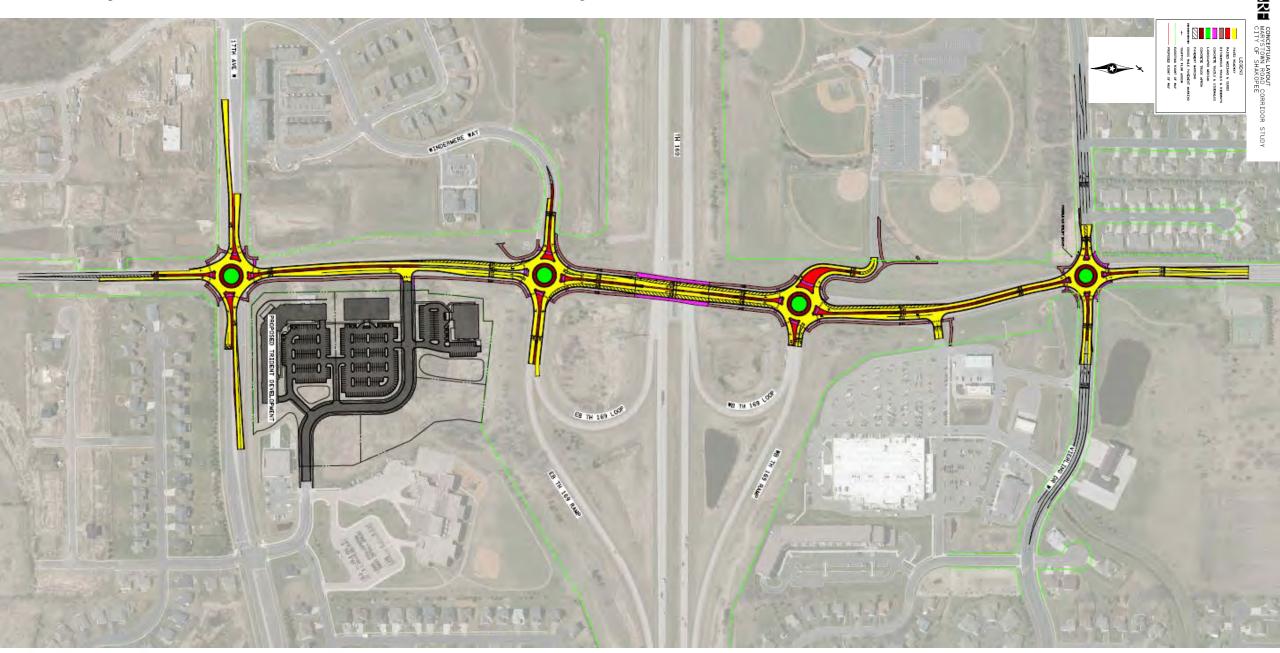
To address operational and safety issues, the CR 15/CR 16 and Marystown Road/US 169 ramp intersections traffic controls were evaluated to be converted to a traffic signal or roundabout. A roundabout, traffic signal, and reconfigured all-way stop control was evaluated at the Adams Street/Vierling Drive intersection to eliminate the existing multi-lane all-way stop condition and reduce improper movements along the corridor.

Intersection Control Evaluations (Appendix F)

As part of the Intersection Control Evaluations, the following analyses/factors were considered to determine the long-term preferred intersection control:

- Capacity Analysis: The future operations of the traffic control alternatives were evaluated using a combination of Synchro/SimTraffic, HCS 7, and Rodel.
- Safety Analysis: The Highway Safety Manual (HSM) Predictive Method was used to predict crash frequency and severity at the study intersections based on traffic volumes and traffic controls.
- Pedestrian Considerations: Pedestrian connectivity and safety were discussed for the traffic
 control alternatives; this was particularly important due to the corridor's close proximity to
 area schools and regional parks.
- Transportation System Considerations: Traffic control continuity was discussed along with other alternative considerations.
- Site Access: Traffic control alternatives and their impacts to the Hy-Vee and Trident development access were discussed.
- Cost Analysis: An incremental benefit-cost analysis was performed to determine the
 economic benefit of an alternative; construction cost estimates for recent construction
 improvements were also discussed.
- . Right-of-Way: Potential impacts to right-of-way were evaluated and discussed.

Based on the results of the ICE, a roundabout control is recommended at the four study intersections along the corridor. This alternative performed better in all categories measured.



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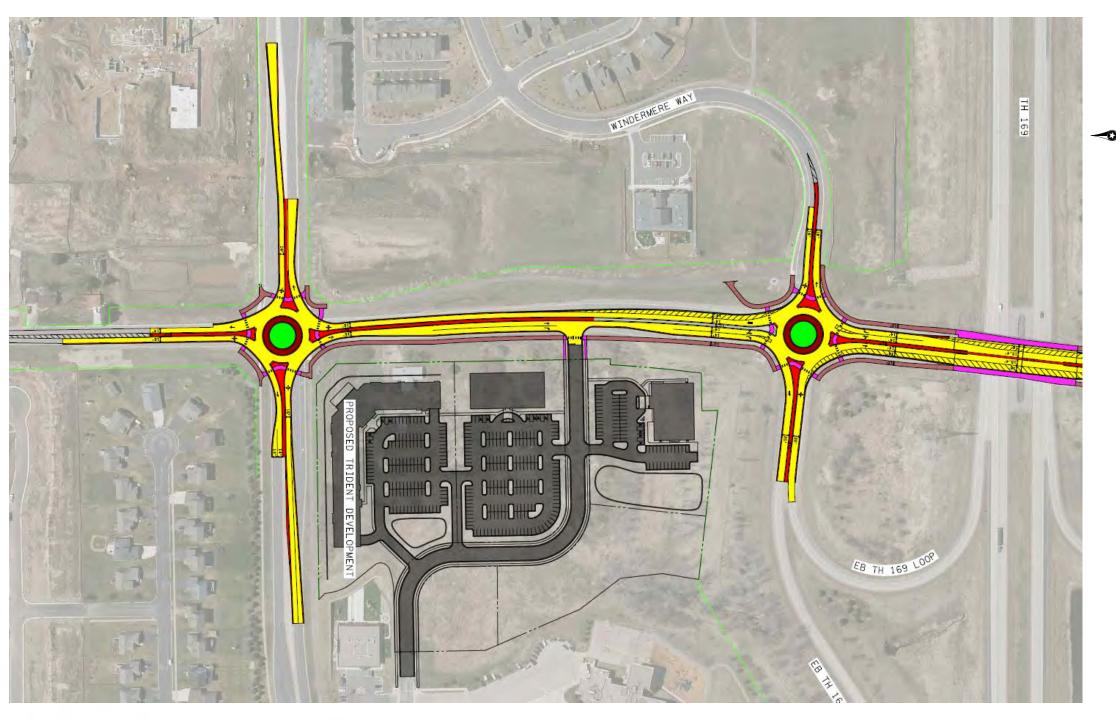
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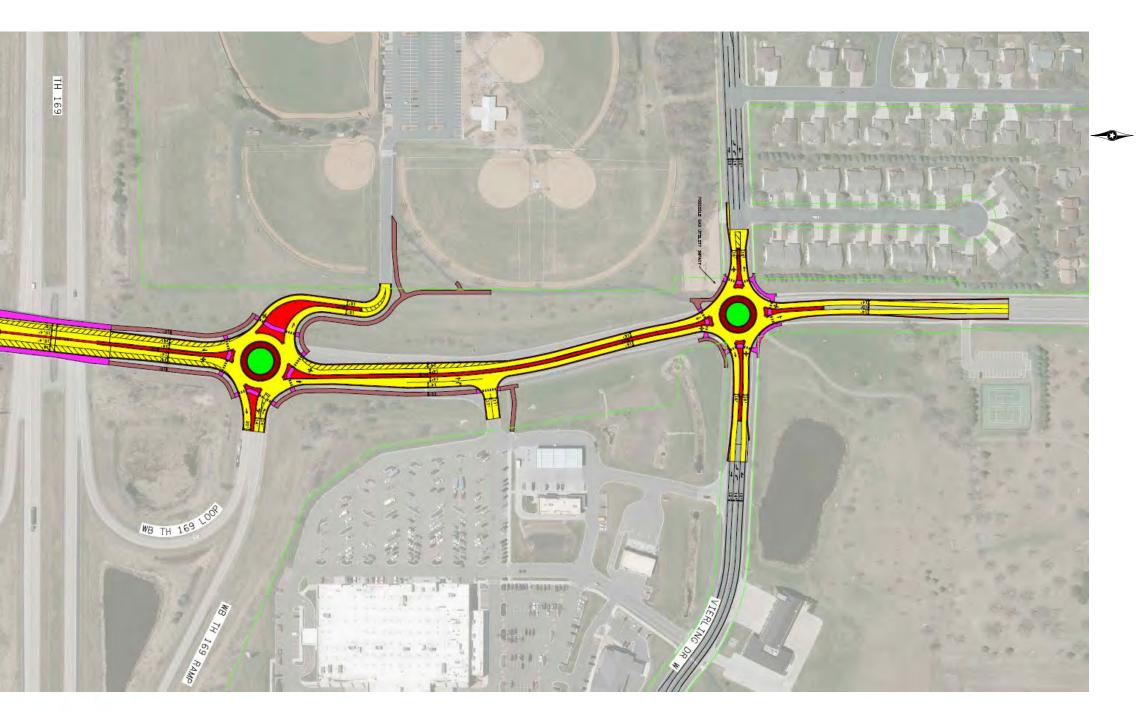
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Marystown Road Corridor - CIP projects

2015 CIP

 Interchange and trail connection improvements

City of Shakor	pee Capital Ir	nprovement Pro	ogram 2015-2019

	oject Manager: uce Loney	Project Type: Street Construction	1	Project Title: CR 15 Interchange 8 Improvements	Trail	Total Project Cost: \$2,500,000	
A.	Expenditure Items:	2015	2016	2017	2018	2019	FUTURE
	Land & ROW Construction Improvements Engineering/Admin.						2,200,000
	Total			***		1.5	2,500,000
В.	Funding Source:						
	General Fund Capital Improvement Fund Park Reserve Fund Grants (specify) Donations (specify) State Aid Assessments Sanitary Sewer Fund-Base Sanitary Sewer Fund-Trunk Storm Drainage Fund-Trunk Tax Levy					Federal Scott County Grant	1,000,000 1,100,000 400,000
5 =	Total					1	2,500,000



Description:

Interchange improvements to improve safety and construct trail connectors along CR 15 from 17th Avenue to Vierling Drive.

Justification:

Improvements to the Interchange is for safety and to provide safe pedestrian crossings of the CR 15 bridge over TH 169.

Other Comments:

Would need Federal Grant selection to receive federal funds.



Operating Costs:

Marystown Road Corridor - CIP projects

2019 CIP

 Interchange, Roundabout, and trail connection improvements



Capital Improvement Plan

2019 thru 2023

City of Shakopee, Minnesota

CIF-TBD-007

*Marystown Rd/TH 169 Interchange & Trail Imp

Type Improvement

Useful Life 30

Category Street Construction

Department Capital Improvements Fund

Contact Public Works Director

Priority 2 Important-Provide Efficience

Fund Capital Improvement Fund Total Project Cost: \$3,638,000

Interchange improvements to improve safety and construct trail connections along Marystown Road from 17th Avenue to Vierling Drive.

Justification

Description

Accounting Code

Improvements to the Interchange are for vehicle safety and to provide safe pedestrian crossings of the Marystown Road bridge over TH 169. Project timing is dependent upon further need and successfully receiving state/federal funding support for the project. A 2018 funding application was unsuccessful in receiving federal Local Road Improvement Funding from the state.

Expenditures	2019	2020	2021	2022	2023	Total	Future
Construction/Maintenance					0	.0	3,638,000
Tot	al				0	0	Total

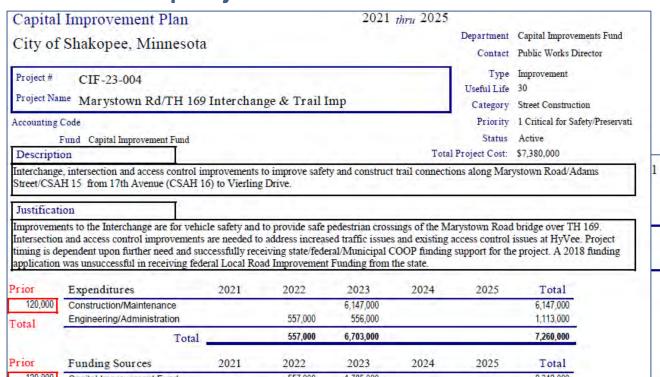
Funding Sources	2019	2020	2021	2022	2023	Total	Future
Capital Improvement Fund					0	0	3,638,000
Tota	1				0	0	Total



Marystown Road Corridor – CIP projects

2021 CIP

 Expanded to all 4 intersections per Corridor Study



Capital Improvement Fund 1,785,000 2.342.000 Cost Sharing, MnDOT/Federal 4.918.000 4.918.000 557,000 6,703,000 7,260,000 Total

Budget Impact/Other

It is anticipated that this project would be prioritized once successful state/federal grant selection. Portions of this section has been turned back to the City by the County; the southerly section south of the south ramp including the CSAH 16 intersection is under the county jurisdiction



Department Capital Improvements Fund Contact Public Works Director





Marystown Road Corridor – Funding Need

H:Projects\13000\13195\Design\Cost Estimates\Conceptual Cost Estimate\SRF-Cost-Est-Tool_13195\ConceptCostEst_SpecYr_2018.xtsx

PRINTED: 4/30/2020 8:47 AM



PROJECT: MARYSTOWN CORRIDOR STUDY

Concept Cost Estimate

Prepared By: SRF Consulting Group, Inc., 04/30/2020

			ROUNDABOUT STREET/VIER		MARYSTOWN	BOUT #2 - ROAD/US 169 I RAMP	ROUNDAE MARYSTOWN SOUTH	ROAD/US 169	ROUNDABOUT #	4 - CR 15/CR 16	TRIDENT DEV		тот	TAL
Agent Law School and	1111111111111	UNIT	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.
ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
PAVING AND GRADING COSTS										-				****
GrP 1a 2106 Excavation - common & subgrade GrP 1d 2106 Subgrade Preparation	road sta.	\$500.00	3,300 20,72	\$26,400 \$10,380	2,000 28,27 2,580 7,525	\$32,000 \$14,135	3750 25.58 2.300 7.250	\$30,000 \$12,790	4,850 30,23	\$37,200	1.20	\$2,800	16.050	\$128.40 \$53.00
GrP 2e 2211 Appregate Base Class 5 (CV)	Cu. VC.	\$15.00	1.800	\$27,000	2.560	\$38,400	2.300	\$34,500	2.250	\$33,750	190	\$2,850	9,100	\$136.50
GrP 2e 2211 Appregate Base Class 5 (CV) GrP 3a Mainline Pavement - 5" HMA	sa. vd.	\$15.00 \$21,00	1,800 6,450	\$27,000 \$135,450	7.525	\$38,400 \$158,025	7.250	\$34,500 \$152,250	2,250 7,650	\$33,750 \$160,650	800	\$2,850 \$16,800	29,675	\$136,500 \$623,17
GrP 3b Mainline - Truck Apron - 10" Concrete	sq. yd.	\$100.00	350	\$35,000	3/5	337.500	375	\$37.500	375	\$37,500	- 100		1,475	\$147,500
GrP 4a Concrete Walk / Trail / Median GrP 4b Bituminous Walk / Trail	90. VC.	\$125.00 \$25.00 \$80.00	1,140	\$142,500	1,760 2,215 144	\$220,000 \$55,375 \$8,640	1,325	\$165,625 \$44,500 \$7,200	1.775 755 130	\$221.875 \$18,875 \$7,800 \$110,040	55	38,875	6,055 4,750	\$756.87
GrP 4b Bituminous Walk / Trail	sq. yd,	\$25,00		0.00	2,215	\$55,375	1,780	\$44,500	755	\$18,875	75.	-	4,750	\$756.87 \$118.75 \$32.40
GrP 4c IADA Pedestrian Curb Ramp - Truncated Domes	sq.ft.	\$80.00	130	\$7,800 \$108,717	144	\$8,640	120 3,553	\$7,200	130	\$7,800	16	\$960	540	\$32,400
GrP 5 Concrete Curb and Gutter	in. ft.	\$21.00	5,177	\$108,717	3,870	\$81,270		\$74,613	5,240	\$110,040	110	\$2,310	17,950	\$376,950
GrP 8a Removals - Pavement (Bituminous)	sq. yd.	\$4.00	10,700	\$42,800	11,850	\$47,400	11,300	\$45,200	15,850	\$62,600			49,500	\$198,000
GrP 8d Removals - Pavement (Concrete) GrP 8e Removals - Curb 8 Gutter	sa. vd.	\$4,00 \$18,00 \$3,50	3,430	\$12,005	11,850 300 2,300	\$47,400 \$5,400 \$8,050	1300 350	\$45,200 \$23,400 \$1,225	2,420	\$8,470			49,500 1,600 8,500	\$198,000 \$28,80 \$29,75
GrP 8f Removals - Concrete Walk	sq.ft.	\$1.50	7 700	\$3,300	2,300	30,000	150	\$225	1,650	\$2,475			4.000	\$8.00
GrP 8g Removals - Concrete Median	50. ft.	\$5.00	2,200 1,150	\$5,750	12,525	\$62,625	8 675	\$43,375	5,350	\$28,750			27,700	
GrP Sh Removals - Bituminous Walk	50 T	\$5.00 \$1.00	1,575	\$5,750 \$1,575	12,020	402,020	8,675 200	\$43,375 \$200	0,000	920,100	1 125	\$1,125	2,900	\$138,500 \$2,900
SUBTOTAL PAVING AND GRADING COSTS:	24 (91.00	1,070	\$558,657		\$768,820	200	\$672,603		\$743,100	1,1400	\$34,320	2,000	\$2,777,500
DRAINAGE, UTILITIES AND EROSION CONTROL				4000,001		4,00,020		4012,000		\$140,100		404,020		44,111,04
	T 1	2 2 7 2 70 TOTAL		200.00		2170.773		*****		2175771		25.005		F475 800
Dr 5 Drainage - urban	lump sum	\$478,000		\$93,041 \$48,866		\$126,974		\$114,866		\$135,724 \$71,283		\$2,834	1	\$476,000
Dr 7 Turf Establishment & Erosion Control SUBTOTAL DRAINAGE, UTILITIES AND EROSION	CONTROL	\$250,000				\$66,688		\$175,195,000						\$250,000 \$726,000
	CONTROL			\$141,907.000		\$193,662.000		\$175,135.000		\$207,007.000		\$8,229,000		\$726,000
BRIDGE COSTS														
Br.1 Bridge - No. 70011 Modification	umo sum	\$900,000				\$450,000		\$450,000				-		\$900,000
SUBTOTAL BRIDGE COSTS:						\$450,000		\$450,000			-		-	\$900,000
SIGNAL AND LIGHTING COSTS														
SGL 4 [Mainline Lighting (permanent)	lump sum	\$125,000		\$24,433		\$33,344		\$30,164		\$35,642		31,417		\$125,000
SUBTOTAL SIGNAL AND LIGHTING COSTS:	1.10119-0011			\$24,433		\$33,344		\$30,164		\$35,642		\$1,417		\$125,000
SIGNING & STRIPING COSTS				12.0		400,000		*******				******		
	T tumo even													
SGN 1 Mainline Signing (C&D) SGN 2 Mainline Striping	lump sum	\$84,000		\$16,419		\$22,407		\$20,270		\$23,952		\$952	1	\$84,000
	lump sum			\$16,419		\$22,407		\$20,270		\$23,952		\$952		\$84,000
SUBTOTAL SIGNING & STRIPING COSTS:				\$15,419		\$22,407		\$20,270		\$23,902		\$902		\$84,000
SUBTOTAL CONSTRUCTION COSTS:		_	-	\$741,416		\$1,468,233		\$1,348,232		\$1,009,701		\$44,918		\$4,612,500
MISCELLANEOUS COSTS														
M 1 Mobilization	4%	\$190,000		\$37,138		\$50,683		\$45,850 \$168,921		\$54,176		\$2,154	1	\$190,000
M 2 Non Quantified Minor Items	20%	\$700,000		\$136,824 \$16,419		\$50,683 \$186,726 \$22,407		\$168,921		\$199,594		\$7,935	1	\$700,000 \$84,000
M 8 1 Traffic Control	3%	384,000				\$22,407		\$20,270		\$23,951		\$952	1	
SUBTOTAL MISCELLANEOUS COSTS:	7			\$190,381		\$259,816		\$235,041		\$277,721		\$11,041		\$974,000
ESTIMATED TOTAL CONSTRUCTION COSTS without Conting	gency:			\$931,797		\$1,728,049		\$1,583,273		\$1,287,422		\$55,959		\$5,586,500
1 Contingency or "risk"	10%			\$94,000		\$173,000		\$159,000	1	\$129,000		\$6,000		\$561,000
ESTIMATED TOTAL CONSTRUCTION COSTS PLUS CONTING	GENCY:		L	\$1,025,797		\$1,901,049		\$1,742,273		\$1,416,422		\$61,959		\$6,147,500
OTHER PROJECT COSTS:													1	
DESIGN ENG. & CONSTRUCTION ADMIN.	Lump Sum	20%		\$208,000		\$381,000		\$349,000		\$284,000		\$13,000		\$1,233,00
SUBTOTAL OTHER PROJECT COSTS	camp sant	2011		\$206,000		\$381,000		\$349,000		\$284,000		\$13,000		\$1,233,00
TOTAL PROJECT COST						\$2,282,049		\$2,091,273	-	\$1,700,422	7	\$74,959	1	\$7,380,50
TOTAL PROJECT COST				\$1,231,797		\$2,262,049		22,031,2/3		\$1,700,422		3/4,909		\$7,380,50

NOTES No right of way costs assumed.

Mnimal impacts assumed to the the gas facility in the SW quadrant of the Adams St/Vierling Dr roundabout, therefore no cost estimate was included.

Assumed existing subbase would be able to be reused with minimal modifications. Assumed 5" of HMA to match as-built plans for the corridor.

Marystown Road Corridor – Funding Need

Funding Requests:

- 2017 LRIP (MnDOT)
- 2020 Federal Regional Solicitation (Federal)
- 2020 Highway Safety Improvement Program (Federal/State)
- 2020 Local Partnership Program (MnDOT)
- 2020 Local Road Improvement Program (MnDOT) TBD
- 2021 Local Trail Connections (Mn DNR) TBD



Marystown Road Corridor – WHAT, WHO, HOW and WHEN

Strategy and Approach Consensus?

- 1. Agree on issues.
- 2. Agreement on on Needed Improvements
 - 1. Interim (possible temp/wood pole traffic signal system at CR 16/15)
 - 2. Ultimate (Corridor Study layout with roundabouts and trail)
- 3. City lead the charge
- 4. Funding and partner seeking
- 5. Keep working on delivering the project now keep priority...



Marystown Road Corridor - WHAT, WHO, HOW and WHEN

Next Steps:

- 1. Short Term (2021-22)
 - a) Public Outreach Marystown Road Corridor Study Concept (4 roundabouts/trails)
 - b) CIP Prioritize this project in CIP as "1" (safety issue, must have)
 - c) County Outreach City to present Corridor Study directly to County Commission
 - d) County Road 15/16 intersection
 - Request County to perform Traffic Signal Warrant Analysis
 - If warrants met, install temporary wood-pole traffic signal system (interim only)

2. Long Term (+1 years...)

- a) Continue funding seeking
- b) Turnback Agreement Amendment City vs. County jurisdictional termini of Marystown vs. CR 15. Revise to interchange location OR to CR 16.
- c) Promote and keep this project high priority



Marystown Road Corridor – Why?



