



## Local Municipal Initiatives

November 30<sup>th</sup>, 2018

Dave Winch, Grants Technologist  
PO Box 4596, 4312 – 62<sup>nd</sup> Avenue  
Barrhead, AB  
T7N 1A5

Re: TWP Rd. 582 & RGE Rd. 95 Grading & Base-Paving STIP Funding Request

To Whom It May Concern,

On behalf of the County of St. Paul No. 19 and the Town of St. Paul, funding is requested under the Local Municipal Initiatives Program (LMI).

We hereby certify that the information contained in the enclosed application is correct and complete at the date of submission. We also certify that no amounts for Goods and Services Tax are included in the cost estimates for the project.

We understand that this project must comply with all applicable legislation and with all of the guidelines for the Program. We understand that any change to the scope or the intended expenditures indicated in the enclosed application will require an amendment approved by the department.

Please feel free to contact me/us if you have any questions or concerns.

Sincerely,

Maureen Miller, Mayor  
Town of St. Paul

Steve Upham, Reeve  
County of St. Paul No. 19



Local Municipal Initiatives  
TWP Rd. 582 & RGE Rd. 95 Grading & Base-Paving

<b>BASIC INFORMATION</b>											
Application Date (the date the application is made)	November 30 <sup>th</sup> , 2018										
Name of Project: (the name used to describe the project)	TWP Rd. 582 & RGE Rd. 95 Grading & Base-Paving										
Project Location: (the legal description indicating the location of the project)	S-16 & S-17-58-9-W4, and W-NW-8-58-9-W4										
Map	See Appendix A										
Applicant	Town of St. Paul jointly with the County of St. Paul No. 19										
Address (the mailing address of the applicant)	<table border="0"> <tr> <td>Town of St. Paul</td> <td>County of St. Paul No. 19</td> </tr> <tr> <td>5101-50<sup>th</sup> Street</td> <td>5015-49<sup>th</sup> Avenue</td> </tr> <tr> <td>St. Paul, AB</td> <td>St. Paul, AB</td> </tr> <tr> <td>T0A 3A0</td> <td>T0A 3A1</td> </tr> </table>	Town of St. Paul	County of St. Paul No. 19	5101-50 <sup>th</sup> Street	5015-49 <sup>th</sup> Avenue	St. Paul, AB	St. Paul, AB	T0A 3A0	T0A 3A1		
Town of St. Paul	County of St. Paul No. 19										
5101-50 <sup>th</sup> Street	5015-49 <sup>th</sup> Avenue										
St. Paul, AB	St. Paul, AB										
T0A 3A0	T0A 3A1										
Contact Information (the name, position, telephone, email and fax numbers of the person taking the lead on the project)	<table border="0"> <tr> <td>Kim Heyman</td> <td>Sheila Kitz</td> </tr> <tr> <td>CAO</td> <td>CAO</td> </tr> <tr> <td>PH: 780-645-1764</td> <td>PH: 780-645-3301</td> </tr> <tr> <td>Fax: 780-645-5076</td> <td>Fax : 780-645-3104</td> </tr> <tr> <td><a href="mailto:kheyman@town.stpaul.ab.ca">kheyman@town.stpaul.ab.ca</a></td> <td><a href="mailto:skitz@county.stpaul.ab.ca">skitz@county.stpaul.ab.ca</a></td> </tr> </table>	Kim Heyman	Sheila Kitz	CAO	CAO	PH: 780-645-1764	PH: 780-645-3301	Fax: 780-645-5076	Fax : 780-645-3104	<a href="mailto:kheyman@town.stpaul.ab.ca">kheyman@town.stpaul.ab.ca</a>	<a href="mailto:skitz@county.stpaul.ab.ca">skitz@county.stpaul.ab.ca</a>
Kim Heyman	Sheila Kitz										
CAO	CAO										
PH: 780-645-1764	PH: 780-645-3301										
Fax: 780-645-5076	Fax : 780-645-3104										
<a href="mailto:kheyman@town.stpaul.ab.ca">kheyman@town.stpaul.ab.ca</a>	<a href="mailto:skitz@county.stpaul.ab.ca">skitz@county.stpaul.ab.ca</a>										
Engineer (the name of the individual and/or firm providing professional engineering services as well as included reports)	WSP Canada Inc. Doug Lunde, C.E.T., PL.(ENG) 11446 Winterburn Road Edmonton, AB T5S 2C4 PH: 587-756-4066 <a href="mailto:doug.lunde@wsp.com">doug.lunde@wsp.com</a>										
Total Project Cost: (the total estimated cost of the project, excluding GST)	\$7,219,703.00										
LMI Funding Requested (the amount of LMI funding which the applicant is requesting)	\$3,559,548.00										
Sources of Balance Funding (how the applicant expects to raise its share of the funding)	The Town and the County will fund the project through their 2019 capital budget.										
Estimated Completion Date (the date by which the project is expected to be completed)	October 15, 2019										



## PROJECT BENEFITS

### Project Rationale:

(a description of the significance of the project, how it will address the needs of users. Detailed impacts should the project not be completed)

Under this application, the Town of St. Paul and the County of St. Paul No. 19 and are jointly applying for funding under the Local Municipal Initiatives to:

1. Upgrade Range Road 95 (which transitions into 57<sup>th</sup> Street in the Town of St. Paul) from an 8m gravel road to a 10.4 metre paved road for approximately 800 metres from south of Alberta's Iron Horse Trail, north to Township Road 582
2. Upgrade and widen Township Road 582 from an 8 metre oiled/gravel road to a 10.4 metre paved road for approximately 3.2 km between Range Road 95 and Highway 881
3. Upgrade the intersection of Township Road 582 and Highway 881 from a Type I intersection to a Type IIc intersection in accordance with Alberta Transportation's Highway Geometric Design Guide.

Growth pressures in the region have resulted in noticeable increases in traffic along Township Road 582 and Range Road 95/57<sup>th</sup> Street. The County and Town of St. Paul have experienced regular requests for serviced industrial property for many years. An Area Structure Plan was completed by WSP in 2017 to provide planning framework for industrial, residential and commercial development of lands adjacent to Township Road 582 and Range Road 95/57<sup>th</sup> Street. The County and Town of St. Paul are currently collaborating on several projects in the area that is outlined by the Area Structure Plan including a Storm Water Management plan and an Intermunicipal Development Plan. (Appendix D)

The existing roads are inadequate for the increasing traffic. The annual road ban placed by the Ministry of Transportation on Hwy 881 for spring seasonal weights, forces truck traffic north on Range Road 95/57<sup>th</sup> Street and east on Twp 582. This occurs during the busy season for trucks travelling to and from the seed and fertilizer plants as well as the County, as this time of year they are hauling more gravel and need to access Hwy 881 north of the banned area.

Range Road 95/57<sup>th</sup> Street was not built with adequate base and compaction. Nor was storm water management considered when the road was built. Despite ongoing maintenance, the road continues to be a challenge for both personal vehicles and heavy trucks with constantly developing potholes and standing water, as the road continues to breakdown.

The redevelopment of this road will allow us to align with the recommendations of our storm water management plan and at the same time preserve and protect the upgraded road for future years.

As is the case for Range Road 95/57<sup>th</sup> Street, Township Road 582, is not adequate for the increasing truck traffic forced down this route. At only 8 meters wide and with an oiled/gravel surface it is insufficient for current truck traffic levels. The County is hard pressed to keep up even minimally with required maintenance, as the road breaks down faster than it can be graded and patched. The amount of truck traffic also limits the amount of time it can be graded.





Local Municipal Initiatives  
TWP Rd. 582 & RGE Rd. 95 Grading & Base-Paving

Based on current AADT and development of adjacent lands, both RR 95/57<sup>th</sup> Street and Township Road 582 are strong candidates for upgrading to a paved roadway. This roadway can be considered for a RLU-209 designation according to Alberta Transportation's Highway Geometric Design Guide.

The scope of a joint project between the Town and County will allow an intersection treatment to be built that can handle turning of large vehicles. As noted below, heavy trucks turning at the intersection of Range Rd 95/57<sup>th</sup> Street and Township 582, can only navigate the turn if they swing out into the oncoming traffic lane. The planned intersection treatment will allow, safer turning without compromising oncoming traffic.

Additionally, the intersection of Township Road 582 and Highway 881 exists as a Type I intersection. Based on an Alberta Transportation intersection warrant analysis, a Type IIIb intersection treatment is currently warranted based upon 2017 background traffic volumes. With the consideration of future development and growth it was determined that a Type IIIc intersection treatment is warranted for the year 2019 and should be constructed simultaneously with the widening and upgrading of Township Road 582.

Presently a seed cleaning plant, herbicide and fertilizer plant, along with a joint solid waste transfer station that serves both the County and the Town are located northwest of the Township Road 582 and Highway 881 intersection. These businesses are all primarily serviced by Township Road 582 apart from the seed cleaning plant which has its access off Highway 881. Even though the Seed Cleaning plant is located on Hwy 881 many users hauling seed would typically avoid driving through the Town on a regular basis, thus, relying on Township Road 582 to access the cleaning plant. The solid waste transfer station sees an average of 25,500 vehicles yearly and, along with the seed cleaning and fertilizer plants, see a high number of seasonal vehicular traffic between the months of April and October. Consequently, Township Road 582 is currently the primary heavy haul route for farming, seeding, solid waste vehicles and local oil field service industry and serves as an informal northern bypass route around the Town.

Completing this project will be beneficial for industry (grain, seed cleaning, agriculture, oil field), as well as facilitating traffic between the County and the Town. Regionally this road also serves as a recreational link to the Blue Quills National Wildlife Area which is approximately 7 km west of St. Paul and serviced by Township Road 582.

Should this project not be completed, Range Road 95/57<sup>th</sup> Street and Township Road 582 will be subject to increasing traffic / heavy vehicle volumes resulting in an increased risk for public safety given the current road structure and width. The intersection of Township Road 582 and Highway 881 would also remain substandard in accordance with Alberta Transportation Highway Design Standards. Furthermore, development of lands adjacent to Range Road 95 and Township Road 582 may potentially come to a halt because of the township road and adjacent roadways (Highway 881 intersection & Range Road 95) not being able to safely handle the increase in vehicular traffic. Future growth and development would be stunted, resulting in the loss of potential jobs and businesses thus limiting the economic growth of the Town and County.

**Traffic Volume Information:**

(actual or estimated annual average daily traffic counts, including breakdown between truck traffic and passenger vehicle traffic)

1,066 (AADT). A breakdown between truck traffic and passenger vehicle traffic is shown in Appendix C.





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<p><b>Increased Travel Distance:</b> (the net increase in travel distance for the average vehicle should the project not proceed)</p>	<p>Should the project not proceed road users will have to commute an excess of 6.5 km through the Town of St. Paul to detour the road.</p>
<p><b>Safety Benefits:</b> (a description of how safety will be improved for all traffic)</p> <p>The intersection of Highway 881 and Township Road 582 is considered to have a high safety risk due to current AADT / TAADT volumes and substandard geometric conditions. As mentioned above, Highway 881 and Township Road 582 is a Type I intersection but background traffic volumes presently warrant a Type IIIb intersection treatment with future growth volumes warranting a Type IIIc intersection treatment by the year 2019. Upgrading this intersection will improve operational and geometric components, consequently, improving overall safety for the public. Warrants for Illumination at this intersection were conducted based on the AADT for the years 2015, 2020 and 2035. It was concluded that illumination is not warranted until 2035.</p> <p>The stretch of Township Road 582 between Highway 881 and Range Road 95/57<sup>th</sup> Street is currently subject to heavy vehicle and truck traffic. Upgrading this road to a paved structure with a 10.4 metre width will provide adequate spacing for all types of vehicles using this road in addition to improved rideability and a decrease in potential road structure failure. This project will improve the side slopes and ditch widths along the Township and Range Road, thus, making it safer for all vehicles. With future industrial, residential and commercial development expected to occur on lands adjacent to this roadway, vehicular traffic is projected to increase in the coming years. Therefore, it would be beneficial from a safety perspective to upgrade Township Road 582 before these developments are completed.</p> <p>Additional Safety Benefits will be observed by the Town of St. Paul as east-west heavy truck traffic would be removed from Hwy 29 (50<sup>th</sup> Avenue) that runs through the full length of the Town including a lengthy 30km/hr school zone.</p>	
<p><b>Economic Benefits:</b> (if appropriate, the impact on existing or proposed development(s) should be included, with reference to the number of new permanent jobs to be created, and the value of new investment)</p> <p>Range Road 95/57<sup>th</sup> Street and Township Road 582 will service proposed industrial and commercial developments resulting in job creation for residents in the St. Paul area. As mentioned above, the planning phases for portions of the development along these roads are already underway (Storm Water Management and Intermunicipal Development Plans). Upgrades to the proposed roads and intersections for this project will attract workers to travel to and from these work sites and allow for continued industrial, commercial and residential development of these lands.</p> <p>As stated in the Project Rationale section, users of the solid waste transfer station, seed cleaning and fertilization plants primarily use Township Road 582 to access their respective facilities. Upgrading this road will attract new users of these facilities, thus stimulating the growth of these businesses, and allow current users to continue conducting business in an efficient manner.</p> <p><b>Partnership:</b> (a description of how the proposed project links into the transportation system in the area, any cooperation with another municipality, and confirmation of any participation by industry/private sector involved in funding of the project)</p>	





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Township Road 582 and Range Road 95/57<sup>th</sup> Street are both public roadways which serve the Town and County of St. Paul. Range Road 95 acts as one of the north-south accesses between the Town and County. Township Road 582 is the sole east-west link that services businesses and facilities northwest of the Highway 881 and Township Road 582 intersection. It is the intent of both the Town and County of St. Paul to partner and submit a joint STIP funding application for this project.

**Outside Funding:**

(if a municipality has been able to leverage funding from another source, include the amount and source of funding as a benefit)

No outside funding has been obtained at this time. Presently, the County and Town of St. Paul are planning to jointly fund the non-grant component of this project through tax revenue.

**Supporting Documentation:**

(engineering reports, planning studies and/or condition surveys)

An Area Structure Plan and Traffic Analysis Memo were prepared for the Town and County of St. Paul regarding the project area and surrounding lands. These documents can be found in Appendix C and D

**Alignment with Government of Alberta's Four Priority Areas:**

(applications should outline how projects will exhibit economic, social, environmental and/or innovation benefits)

**Economic:** In the short term, it is expected that the project will be publicly tendered, providing economic opportunities to the Engineering Consultant and Construction Contractor. In the long run, the project will help maintain the economic development and growth of the Town and County by providing continued access for agricultural, industrial, commercial and residential activities.

**Social:** The intersection and roads to be upgraded through this project all play a significant role in connecting the Town and County of St. Paul as well as industrial, residential, agricultural and recreational areas. If not for Township Road 582 servicing the fertilizer plant and the solid waste transfer station, farmers and members of the public would not be able to access these facilities. If parts of the Range Road, Township Road, or intersection were out of commission, traffic would be rerouted a considerable distance (5-10km) to get to their desired location in the Town, County, or industrial / residential area. This would take its toll on other existing Town and County roads. Town residents living along Range Road 95/57<sup>th</sup> Street are concerned that this road, constantly in need of repair and the dust it produces in the summer are degrading their property values.

**Environmental:** The environmental benefit related to this project is realized through the reconstruction of these road segments to maintain them as vital arteries between the Town, County and local businesses. The benefit is realized by all local, agricultural and industrial traffic reducing kilometers travelled which equates to a reduction to the local carbon footprint. Once this route is paved there will be no need to apply oil to gravel roads, greatly reducing any damage this current necessary maintenance practice could incur. Higher quality road would provide an alternate route for hazardous and dangerous goods outside of the downtown area.

**Innovation:** During the detailed design phase of this project, innovative solutions will be considered, and utilized should they prove to be cost effective, and align with technical requirements and standards. An example of this will be constructing Township Road 582 within a smaller Right-of-Way to avoid a large utility line running parallel to the north of the road. Constructing the road within a smaller Right-of-Way, while still maintaining technical





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requirements and standards, will result in significant costs savings as the utility line will not be touched.

## PROJECT INFORMATION

### Project Description:

(a description of the standard of work to be undertaken, including any engineering surveys or other studies available)

Township Road 582 is an east-west link north of the Town of St. Paul. The section being applied for is 3.2 km in length and is located between Range Road 95 and Highway 881. Township Road 582 is an 8 metre wide two-way oiled gravel road that provides access to many rural residential, industrial and farm properties. This segment of road will be widened, paved and constructed to be consistent with an Alberta Transportation RLU-209 designation.

Range Road 95/57<sup>th</sup> Street is a north-south link that connects the town of St. Paul to Township Road 582. The section being applied for is 800 metres in length between; just south of Alberta's Iron Horse Trail and north to Township Road 582. This segment of road will be widened and paved to be consistent with Township Road 582.

The ultimate design of these two roads will include the following features:

- 3.7 m lanes and minimum 1.0 m shoulders
- 4:1 side slopes
- 3.0 m ditch bottom for TWP Rd. 582 and 1.0m ditch bottom for RGE Rd. 95/57<sup>th</sup> Street

The intersection of Highway 881 and Township Road 582 is currently a two-way stop-controlled intersection that is consistent with a Type I intersection as defined by Alberta Transportation's Highway Geometric Design Guide. Under this project, this intersection will be upgraded to a Type IIIc intersection as a result of an Alberta Transportation intersection warrant analysis and in accordance with the Highway Geometric Design Guide.

The County and Town of St. Paul have ranked this project as a high priority for 2019 and have begun discussions with utility companies regarding crossing agreements. Upon award of the Local Municipal Initiatives funding, the County and Town would complete the detailed design, tender work and undertake construction management through its engineering consultant to complete the project by October 15, 2019 as anticipated.

## Financial Information

### Costs

Total Estimated Expenditure Less Non-Eligible Costs	\$ 7,119,096.00
Non-Eligible Costs	\$ 100,607.00



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**Sources of Funds**

LMI Grant (49%)	\$ 3,559,548.00
County and Town of St. Paul (51%)	\$ 3,660,155.00

A detailed breakdown of the cost estimate can be found in Appendix B.