

CITY OF MAPLETON  
GRANT APPLICATION

(Brandon Oye)

SUGGESTED MOTION:

Move to authorize the City of Mapleton to list Cass County as the project sponsor on a grant application for a proposed shared use path for Transportation Alternative Program (TAP) funding through the North Dakota Department of Transportation.

## Worden, Heather

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**From:** Brandon Oye <BOye@mooreengineeringinc.com>  
**Sent:** Wednesday, November 25, 2015 12:39 PM  
**To:** Worden, Heather  
**Cc:** Benson, Jason; Edwards, Brielle; Justin Hall; City Of Mapleton  
**Subject:** RE: Transportation Alternative Program (TAP) FY 2017 Application - Project Sponsor  
**Attachments:** 17909 COMPLETE NDDOT TAP App.pdf

Heather:

The City of Mapleton is respectfully requesting Cass County to be the Project Sponsor for their proposed Shared-Use Path project along First Street. MetroCOG encourages Project Owners to request the County to be the sponsor when submitting applications for grant funding through the NDDOT Transportation Alternative Program (TAP). Attached is the TAP Application for this project which explains the project in detail, including maps and preliminary drawings of the proposed shared-use path improvements. The City intends to complete the design in 2016, with construction being started by 2017.

Can you add this request to the agenda for the County Commission meeting for December 7<sup>th</sup>? Please let me know if you have any other questions.

Thanks!

**Brandon Oye, PE**  
Project Manager  
**moore engineering, inc.**

Phone 701.282.4692 | Cell 701.306.3951  
925 10<sup>th</sup> Ave E, West Fargo, ND 58078  
[boye@mooreengineeringinc.com](mailto:boye@mooreengineeringinc.com) | [www.mooreengineeringinc.com](http://www.mooreengineeringinc.com)

**From:** Benson, Jason [mailto:BensonJ@casscountynd.gov]  
**Sent:** Wednesday, November 25, 2015 12:06 PM  
**To:** Brandon Oye <BOye@mooreengineeringinc.com>  
**Subject:** RE: Transportation Alternative Program (TAP) FY 2017 solicitation

Brandon,

The Commission Secretary is Heather Worden at [WordenH@casscountynd.gov](mailto:WordenH@casscountynd.gov)  
The alternate is Brielle Edwards at [EdwardsB@casscountynd.gov](mailto:EdwardsB@casscountynd.gov)

*Jason Benson*  
*County Engineer*  
*Cass County Highway Department*  
*1201 Main Ave West*  
*West Fargo, ND 58078*  
*701-298-2372*

**From:** Brandon Oye [mailto:BOye@mooreengineeringinc.com]  
**Sent:** Tuesday, November 24, 2015 5:27 PM

## Worden, Heather

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**From:** Benson, Jason  
**Sent:** Wednesday, November 25, 2015 12:16 PM  
**To:** Worden, Heather  
**Cc:** Edwards, Brielle  
**Subject:** FW: Transportation Alternative Program (TAP) FY 2017 solicitation  
**Attachments:** 17909 COMPLETE NDDOT TAP App.pdf

Heather,

I spoke with Brandon Oye of Moore Engineering about an application for the City of Mapleton. This is for a shared use path they are requesting funds for from the NDDOT. We would just be approving this to serve as the local sponsor. This is a good project and I'm in favor of them submitting it for funding.

Brandon will be sending you a letter to get on the December 7<sup>th</sup> meeting and will most likely be sending an updated copy of the TAP application.

Let me know if you have any questions.

*Jason Benson  
County Engineer  
Cass County Highway Department  
1201 Main Ave West  
West Fargo, ND 58078  
701-298-2372*

**From:** Brandon Oye [mailto:BOye@mooreengineeringinc.com]  
**Sent:** Tuesday, November 24, 2015 5:27 PM  
**To:** Benson, Jason <BensonJ@casscountynd.gov>  
**Cc:** David Roedel <DRoedel@mooreengineeringinc.com>; Justin Hall <JHall@mooreengineeringinc.com>  
**Subject:** RE: Transportation Alternative Program (TAP) FY 2017 solicitation

Jason:

Attached is our draft for the TAP Application for the Mapleton shared use path project. Please let me know what things need to be done to request Cass County to sponsor the project. There's a couple tweaks we need to make, including adding you as the "Sponsoring Official" under the 17. Signatures section.

MetroCOG is looking at receiving the application by December 2<sup>nd</sup>, but said they can move that back a little bit if needed. We plan to present this at the Mapleton City Council Meeting on December 1<sup>st</sup> for approval.

Thanks!

**Brandon Oye, PE**  
Project Manager  
**moore engineering, inc.**

Phone 701.282.4692 | Cell 701.306.3951  
925 10<sup>th</sup> Ave E, West Fargo, ND 58078

[boye@mooreengineeringinc.com](mailto:boye@mooreengineeringinc.com) | [www.mooreengineeringinc.com](http://www.mooreengineeringinc.com)

**City of Mapleton, North Dakota**



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**Sewer, Water and Street Improvements  
First Street Shared-Use Path**

*North Dakota Department of Transportation  
Transportation Alternative Program (TAP)*

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**1. Project Name**

Sewer, Water and Street Improvements  
First Street Shared-Use Path

**2. Project Location**

The City of Mapleton is located in the central region of Cass County, North Dakota in Sections 1 and 6, Township 139N, and Range 51W and Sections 36 and 31, Township 140N and Range 50W. Mapleton is served by Interstate 94 and is located approximately 10 miles west of West Fargo, ND and 10 miles east of Casselton, ND. A state and county map can be found in Appendix A.

**3. Project Contact**

Eric Hillman, Mayor  
(701) 282-6992  
[eric.hillman@midco.net](mailto:eric.hillman@midco.net)  
City of Mapleton  
PO Box 9  
651 2<sup>nd</sup> St  
Mapleton, ND 58059

**4. Contact Person**

Brandon Oye, City Engineer  
(701) 282-4962  
[boye@mooreengineeringinc.com](mailto:boye@mooreengineeringinc.com)  
Moore Engineering, Inc.  
925 10<sup>th</sup> Avenue East  
West Fargo, ND 58078

**5. Project Sponsor**

Cass County  
1201 Main Ave W  
West Fargo, ND 58078

**6. Sponsoring Official**

Jason Benson, County Engineer  
(701) 298-2372  
[bensonj@casscountynnd.gov](mailto:bensonj@casscountynnd.gov)  
1201 Main Ave W  
West Fargo, ND 58078-1301

**7. Project Background**

The City of Mapleton is currently studying the cost and scope of improving the infrastructure located in and around the original townsite area. The existing sewer and water system was installed in the early 1960s, and for the most part has not been upgraded since that time. Nearly all the existing asphalt streets in the original townsite area are in disrepair, requiring

complete reconstruction. The current Engineer's Opinion of Probable Cost for all improvements is estimated at \$3,925,000. The size of the residential lots within the original townsite area typically range from 50' wide to 100' wide. The cost for the proposed improvements for a 100' wide lot is estimated to range from \$20,000 to \$30,000. Based on these figures the City is looking for funding sources to assist with the overall cost of the project, and possibly complete the project in phases depending on funding source availability.

## **8. Project Description**

As a smaller part of the overall improvement project, the City is proposing to expand on their existing shared-use paths that meander throughout the City, providing alternatives to using local streets or existing sidewalks. As part of a 2011 County Highway project, a shared-use path was installed on the east side of County Highway 11, also known as Meridian Road. The path started on the north side of the railroad tracks and continued south along the east side of Meridian Road. This section of shared-use path ends at the intersection of Meridian Road and Carl Olson Street, indicated as Location F on the attached maps in Appendix A. In 2015, Meridian Gove Second Addition, a single and multi-family development was constructed. Within the scope of this project, a shared-use path was completed, which connected to the existing path at Location F. The shared-use path continues to the east along the north side of Carl Olson Street serving the new development and then turns north and continues until ending at the south side of First Street indicated as Location B.

For this proposed project, the new shared-use path will connect into the existing path at the northeast corner of the intersection at Meridian Road and First Street, designated as Location A. The path will continue to the east along the north side of First Street, and connect back into the shared-use path on the south side of First Street, designated as Location B, which was part of the Meridian Grove Second Addition development. The new shared-use path will provide additional access to the City's cemetery, baseball fields, parks and existing sidewalks. It will also provide a loop for all of the shared-use paths combined. This particular section of roadway on First Street will soon experience a considerable increase of vehicle traffic since the Park District is looking to make substantial improvements to the Park. The Park District is currently constructing a sledding hill to be used through the winter months. The City is working on removing their wastewater treatment ponds adjacent to the park, which will allow the Park District to add additional baseball fields. The Park District also plans to construct a new playground within the park to serve the new developments being constructed nearby. Overall, it will be critical that the City improve and enhance the overall layout of the shared-use paths to better accommodate pedestrians and bicyclists. A more detailed map of the existing conditions and proposed improvements can be found in Appendix A.

As part of the proposed shared-use path improvements, the City is proposing to install a smaller section of new shared-use path connecting into the existing path on Meridian Road and Main Street as shown as Location C. This section of shared-use path will run along the south side of Main Avenue and cross Sixth Street, ending approximately 50 feet on the east side of Sixth Street. For the future, the City is planning on installing a shared-use path that would connect at this point, Location D, and continue along the north side of Maplewood

First and Second Addition. It would then curve around to the south connecting into the proposed shared-use path, indicated as Location E. This future shared-use path would provide residents on the north side of the tracks a more direct route to travel to the parks, playground, baseball fields and cemetery, as well as provide a more scenic path way.

The existing and proposed shared-use paths are 10 feet wide, which accommodates both pedestrians and bicyclists very well. The shared-use paths will be 6 inches thick reinforced concrete. The shared-use paths will be able to be maintained effectively in the winter times using larger machinery such as a power broom or skid-steer. ADA accessible ramps and pedestrian signage will be installed at all street crossings along the new shared-use paths.

## 9. Project Cost

The costs for the proposed shared-use path improvements are outlined in the Engineer's Opinion of Probable Cost which can be found in Appendix B. The total construction cost for the proposed shared-use path improvements are \$268,000. The City of Mapleton is requesting the maximum allowable financial participation amount of \$200,000.

The Engineers Opinion of Probable Cost was prepared by:

Brandon Oye, City Engineer

(701) 282-4962

[boye@mooreengineeringinc.com](mailto:boye@mooreengineeringinc.com)

Moore Engineering, Inc.

925 10<sup>th</sup> Avenue East

West Fargo, ND 58078

## 10. TAP Category Best Fits Proposed Project

"A" - Construction of on-road and off-road trail facilities for pedestrians, bicyclists, and other non-motorized forms of transportation, including sidewalks, bicycle infrastructure, pedestrians and bicycle signals, traffic calming technics, lighting and other safety-related infrastructure, and transportation projects to achieve compliance with the Americans with Disabilities Act of 1990.

## 11. Supporting Data

The City of Mapleton is currently developing approximately 126 single family lots and 6 multi-family lots located just south of First Street. With the City of Mapleton's increasing growth, the traffic volume will continue to increase on this street. The City of Mapleton has already applied for a grant through the NDDOT Special Road Fund (SRF) program, which would include converting First Street, an existing gravel street, into a 33' wide street with 2 ½' concrete curb and gutters and two 14' asphalt driving lanes.

The City of Mapleton's rapid growth is exciting, but brings with it many challenges, that include a financial burden that many existing residents are unable to handle. This grant will help the City keep up with many of the needs that a growing community experiences.



The City is extremely proactive when it comes to maintaining and improving infrastructure to build a stronger community. The proposed shared-use path improvements are a crucial part to the City's overall improvement plan.

## **12. Public Accessibility**

The owner of the proposed shared-use path improvement project will be the City of Mapleton. The proposed improvements will be in existing street right-of-way and will be accessible to the public.

## **13. Matching Funds Provided By**

- 13.1. Finance construction costs by Improvement and Revenue Bonds
- 13.2. Repayment by Special Assessment

## **14. Right-of-Way Needed**

All permanent improvements will be located in existing street right-of-way and City owned property. The City may need to acquire temporary construction easements adjacent to the path to allow adequate space for construction activities and installation.

## **15. Maintenance of This Project will be provided by**

City of Mapleton  
Duane Klatt, Public Works Superintendent  
701-630-5076  
PO Box 9  
651 2<sup>nd</sup> St  
Mapleton, ND 58059

## **16. Environmental Impacts**

- 16.1. Land Use: No changes or potential changes regarding land use in the vicinity will take place with this project.
- 16.2. Farmland: No farmlands are to be used for this project.
- 16.3. Social: By completing the proposed project, which includes expanding the shared-use paths throughout the community, this will strengthen the bond within the community, increase community involvement and offer more access possibilities to different areas of the growing city. The shared-use paths encourage the use of the City's parks, recreation areas, and generate a welcoming environment for new and current residents.
- 16.4. Economic: The proposed shared-use path improvements will have a positive impact on the economy. New businesses will develop to accommodate the future growth and will also entice new residents to become established in the City. As surrounding cities become established and options for new home building decreases in those areas, Mapleton is determined to provide an accommodating community with similar recreational features, such as shared-use paths.

- 16.5. Relocation: The proposed project will not require any relocation or displacement of and people or businesses.
- 16.6. Wetlands: The proposed project will not result in fill material being placed in any known wetlands.
- 16.7. Floodplain: The proposed project is not within a flood plain.
- 16.8. Threatened or Endangered Species: There are no threatened or endangered species known to be in the project vicinity.
- 16.9. Cultural Resources: There are no properties on or eligible to be on the National Register of Historic Places in the project vicinity.
- 16.10. Hazardous Waste: There are no hazardous waste sites known to be located in the proposed project area.

**17. Signatures**

\_\_\_\_\_  
 Project Contact (Item 3)  
 Eric Hillman, Mayor  
 City of Mapleton

\_\_\_\_\_  
 Contact Person (Item 4)  
 Brandon Oye, City Engineer  
 Moore Engineering, Inc.

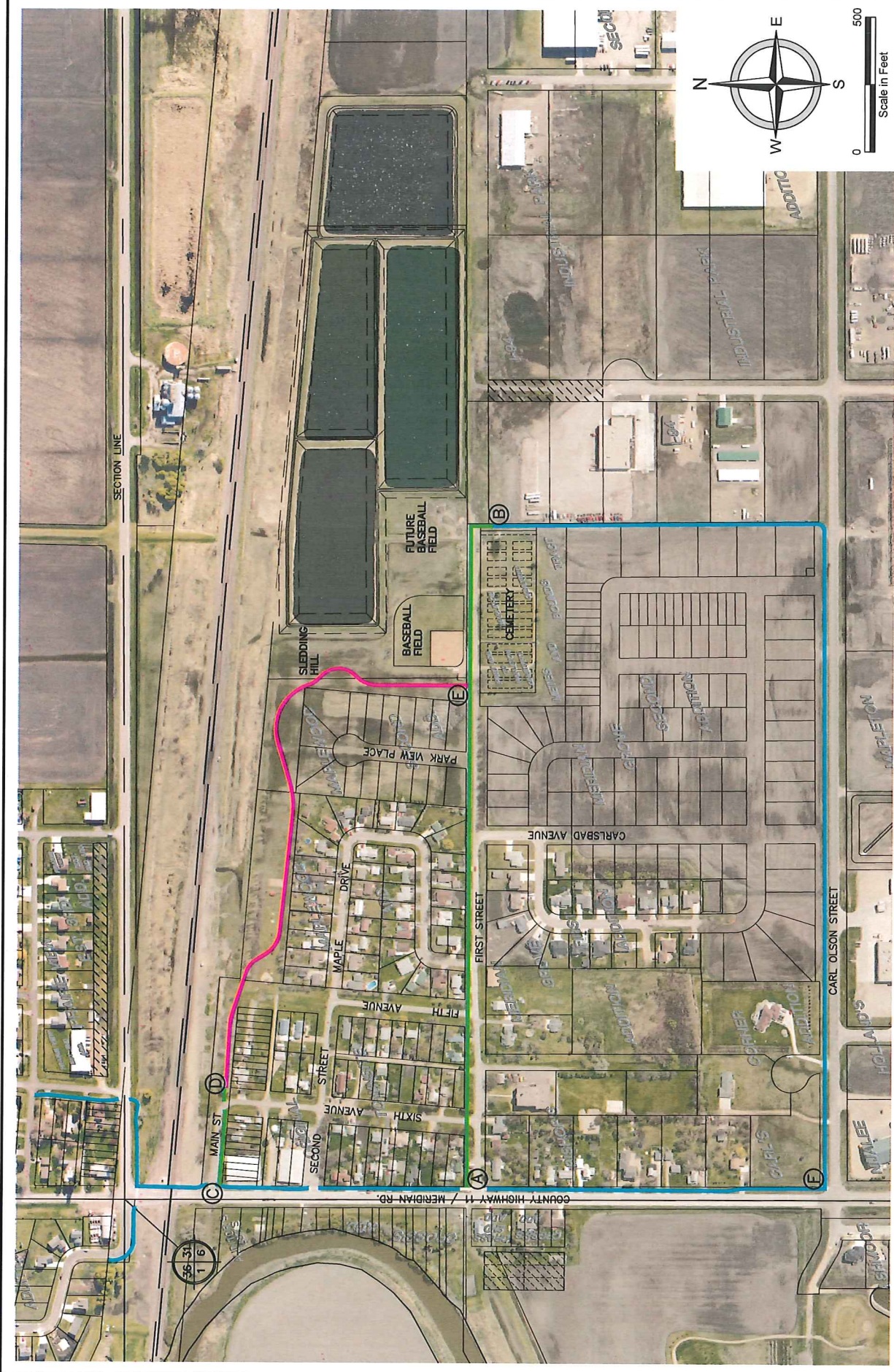
\_\_\_\_\_  
 Sponsoring Official (Item 6)  
 Jason Benson, County Engineer  
 Cass County

\_\_\_\_\_  
 MPO Director  
 Bill Christian, Executive Director  
 F-M Metropolitan Council of Governments

**18. Attachments**

# Appendix A: Maps

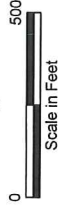
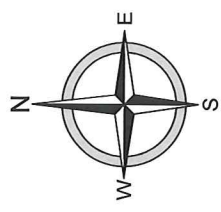




**AERIAL MAP - SCOPE OF WORK**  
**SEWER, WATER & STREET IMPROVEMENTS**  
**FIRST STREET SHARED-USE PATH**  
**TRANSPORTATION ALTERNATIVES PROGRAM (TAP)**  
**MAPLETON, NORTH DAKOTA**

- █ EXISTING SHARED-USE PATH
- █ NEW SHARED-USE PATH
- █ FUTURE SHARED-USE PATH
- A LOCATIONS REFERENCED IN REPORT

PROJECT No.	17909
DATE:	11.24.15
REVISED:	
DRAWN BY:	JRH
CHECKED BY:	BLO
SHEET	1 OF 5





PROPOSED SCOPE OF WORK - FIRST STREET  
 SEWER, WATER & STREET IMPROVEMENTS  
 FIRST STREET SHARED-USE PATH  
 TRANSPORTATION ALTERNATIVES PROGRAM (TAP)  
 MAPLETON, NORTH DAKOTA

NEW SHARED-USE PATH  
 EXISTING SHARED-USE PATH  
 LOCATIONS REFERENCED  
 IN REPORT

PROJECT No. 17909  
 DATE: 11.24.15  
 REVISED:  
 DRAWN BY: JRH  
 CHECKED BY: BLO  
 SHEET 2 OF 5



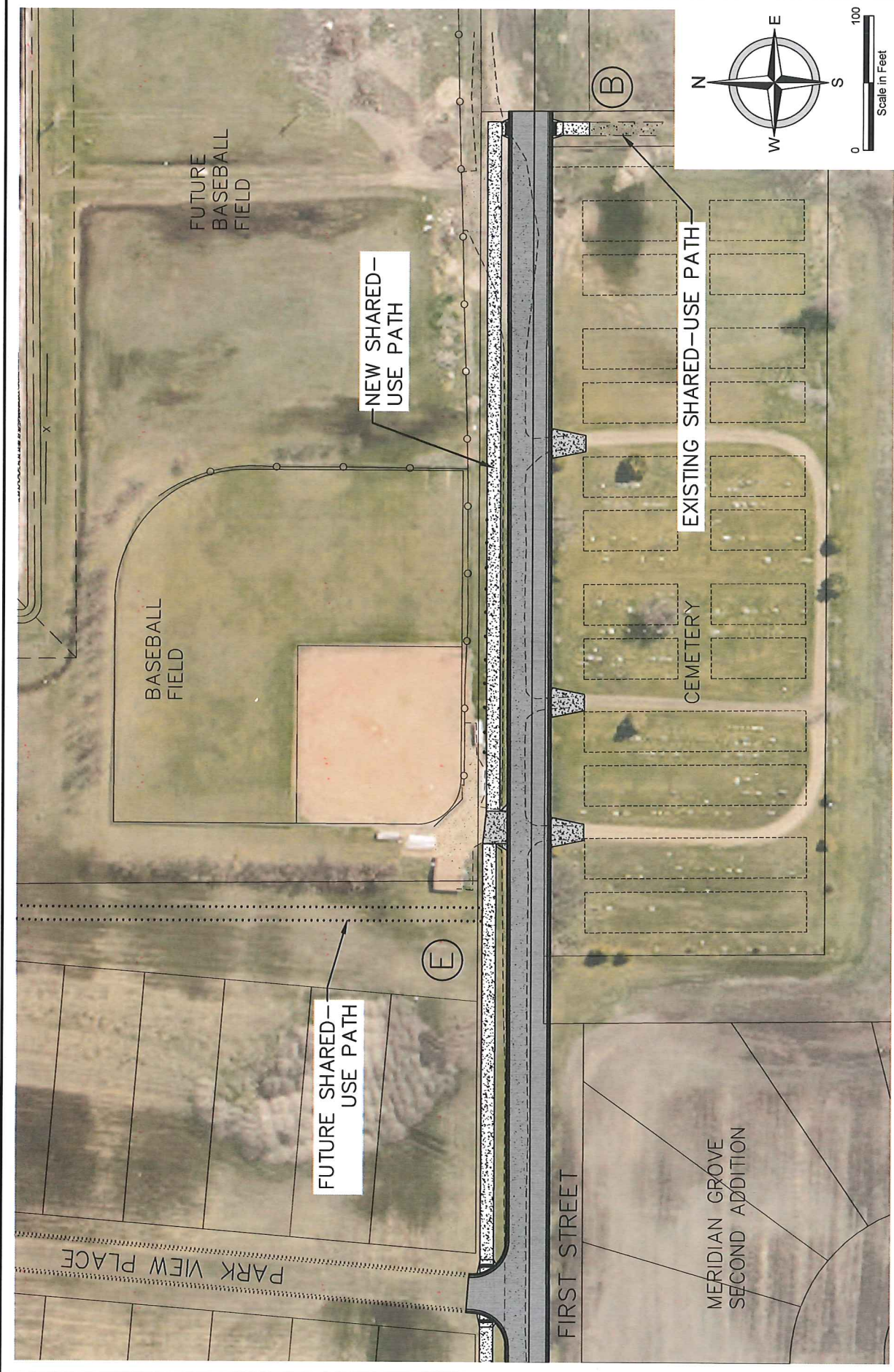


**PROPOSED SCOPE OF WORK - FIRST STREET  
 SEWER, WATER & STREET IMPROVEMENTS  
 FIRST STREET SHARED-USE PATH  
 TRANSPORTATION ALTERNATIVES PROGRAM (TAP)  
 MAPLETON, NORTH DAKOTA**

-  NEW SHARED-USE PATH
-  EXISTING SHARED-USE PATH
-  LOCATIONS REFERENCED IN REPORT

PROJECT No.	17909
DATE:	11.24.15
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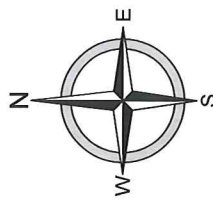
PROPOSED SCOPE OF WORK - FIRST STREET  
 SEWER, WATER & STREET IMPROVEMENTS  
 FIRST STREET SHARED-USE PATH  
 TRANSPORTATION ALTERNATIVES PROGRAM (TAP)  
 MAPLETON, NORTH DAKOTA

- NEW SHARED-USE PATH
- FUTURE SHARED-USE PATH
- EXISTING SHARED-USE PATH
- LOCATIONS REFERENCED IN REPORT

PROJECT No.	17909
DATE:	11.24.15
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PROPOSED SCOPE OF WORK - MAIN STREET  
 SEWER, WATER & STREET IMPROVEMENTS  
 FIRST STREET SHARED-USE PATH  
 TRANSPORTATION ALTERNATIVES PROGRAM (TAP)  
 MAPLETON, NORTH DAKOTA

- NEW SHARED-USE PATH
- FUTURE SHARED-USE PATH
- EXISTING SHARED-USE PATH
- LOCATIONS REFERENCED IN REPORT

PROJECT No.	17909
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# Appendix B: Project Cost

**SEWER, WATER AND STREET IMPROVEMENTS**  
**First Street Shared-Use Path**  
**City of Mapleton, North Dakota**

*Engineer's Opinion of Probable Cost*

<u>BID ITEM NO. &amp; DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
<b><u>BASE BID</u></b>				
1. Curb & Gutter - Remove	LF	15	\$10.00	\$150.00
2. Concrete Pavement - Remove	SF	40	\$3.00	\$120.00
3. Sidewalk - Remove	SF	300	\$2.00	\$600.00
4. Shared-Use Path - Remove	SF	160	\$2.00	\$320.00
5. Culvert - Remove - All Types & Sizes	LF	60	\$10.00	\$600.00
6. Aggregate Surface - Remove & Salvage	CY	55	\$5.00	\$275.00
7. Excavation & Embankment	CY	1,000	\$10.00	\$10,000.00
8. Curb & Gutter - 30"	LF	15	\$25.00	\$375.00
9. Sidewalk - 4" Concrete	SY	10	\$45.00	\$450.00
10. Shared-Use Path - 6" Concrete	SY	2,865	\$67.00	\$191,955.00
11. ADA Ramp - 6" Concrete	SY	126	\$75.00	\$9,450.00
12. Detectable Warning Panels	SF	256	\$60.00	\$15,360.00
13. Sign - Remove & Salvage	EA	7	\$35.00	\$245.00
14. Sign - Reinstall	EA	7	\$80.00	\$560.00
15. Signing	SF	40	\$30.00	\$1,200.00
16. Signing Post	LF	155	\$22.00	\$3,410.00
17. Striping - 24" White Grooved Plastic	LF	125	\$25.00	\$3,125.00
18. Sedimentation Control Wattle - 9"	LF	250	\$4.00	\$1,000.00
19. Tree - Remove	EA	5	\$425.00	\$2,125.00
20. Tree - Replace	EA	5	\$400.00	\$2,000.00
21. Utility Pole - Relocate	EA	1	\$2,500.00	\$2,500.00
22. Topsoil Stripping - 4"	CY	984	\$5.00	\$4,920.00
23. Topsoil Replacement - 4"	CY	200	\$4.00	\$800.00
24. Mailbox - Remove & Salvage	EA	1	\$30.00	\$30.00
25. Mailbox - Reinstall	EA	1	\$180.00	\$180.00
26. Seed - Type II	SY	1,800	\$2.00	\$3,600.00
27. Mulch - Type B - Hydromulch	SY	1,800	\$0.50	\$900.00
28. Watering	MG	50	\$75.00	\$3,750.00
29. Material Testing	ALL	1	\$5,000.00	\$5,000.00
30. Stormwater Management	LS	1	\$1,500.00	\$1,500.00
31. Traffic Control	LS	1	\$1,500.00	\$1,500.00
<b>Total Construction - Base Bid</b>				<b>\$268,000.00</b>