

# **Rapid City Area Transportation Improvement Program**

**(Fiscal Years 2019-2022)**

**Draft  
June 2018**

**Prepared By:**

The Cities of Rapid City, Box Elder, Summerset and Piedmont,  
Meade County and Pennington County,  
Rapid City Regional Airport,  
Ellsworth Air Force Base  
Rapid City Area School District,  
the Rapid City Long Range Planning Division, and the  
South Dakota Department of Transportation

**In Cooperation With:**

Rapid City Public Works Department  
Pennington County Highway Department  
Meade County Highway Department  
City of Box Elder  
South Dakota Department of Transportation  
Federal Highway Administration and the  
Federal Transit Administration  
of the United States Department of Transportation

**Adopted by:**

The Executive Policy Committee  
of the Rapid City Area Metropolitan Planning Organization

*The Rapid City Area Metropolitan Planning Organization (MPO) provides services without regard to race, color gender, religion, national origin, age or disability, according to the provisions contained in SDCL 20-13, Title VI of the Civil Rights Act of 1964, the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990 and Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, 1994.*

*Any person who has questions concerning this policy or who believes they have been discriminated against should contact the Rapid City Area MPO at 605-394-4120.*

*"The preparation of this report has been financed in part through grant[s] from the Federal Highway Administration and Federal Transit Administration, U.S. Department of Transportation, under State Planning and Research Program, Section 505 [or Metropolitan Planning Program, Section 104(f)] of Title 23, U.S. Code. The contents of this report do not necessarily reflect the official views or policy of the U.S. Department of Transportation."*



# RAPID CITY AREA TRANSPORTATION IMPROVEMENT PROGRAM

(Fiscal Years 2019 - 2022)

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## **RAPID CITY AREA TRANSPORTATION IMPROVEMENTS PROGRAM**

**(Fiscal Years 2018 - 2021)**

### **- ABBREVIATIONS USED IN THIS DOCUMENT -**

<b>AC</b>	Asphalt Concrete
<b>ADA</b>	Americans with Disabilities Act of 1990. Mandates changes in building codes, transportation, and hiring practices to prevent discrimination against persons with disabilities. This act affects all existing and new public places, conveyances, and employers. The significance of ADA in transportation will be most obvious in transit operations, capital improvements, and hiring practices.
<b>AIP</b>	Airport Improvement Program
<b>C &amp; G</b>	Curb and Gutter
<b>CIP</b>	Capital Improvement Plan
<b>CY</b>	Calendar Year
<b>DOT</b>	United States Department of Transportation
<b>FAST Act</b>	Fixing America's Surface Transportation Act
<b>FHWA</b>	Federal Highway Administration
<b>FTA</b>	Federal Transit Administration
<b>FY</b>	Fiscal Year
<b>IM</b>	Relates to either the interstate maintenance project funding category or the state system structure funding category (Resurfacing, Restoration and Rehabilitation) provided by the DOT under the terms of the ISTEA of 1991.
<b>MPO</b>	Metropolitan Planning Organization
<b>PCC</b>	Portland Cement Concrete
<b>PE</b>	Preliminary Engineering
<b>PL</b>	Metropolitan Planning Funds. Highway Trust Funds which have been set aside for transportation planning activities in Urbanized Areas. Funding is on an 81.95% - 18.05% federal/local basis.
<b>RCATPP</b>	Rapid City Area Transportation Planning Process. The local cooperative transportation planning program.

## **ABBREVIATIONS USED IN THIS DOCUMENT (Cont.)**

<b>RCP&amp;E</b>	Rapid City, Pierre, and Eastern Railroad
<b>RCRA</b>	Rapid City Regional Airport
<b>ROW</b>	Right-Of-Way
<b>SEC 5307</b>	Federal Program for capital improvements, i.e. terminals, shelters, mechanical equipment other than buses, computers, office equipment, etc. These funds, formerly known as Section 9 funds, have been available since FY 1984 through the Urban Mass Transportation Act of 1964 as amended by the Federal Transit Act of 1991. They provide resources for planning, capital and operating assistance. The match on planning and capital is 80% federal and 20% local; while the operating subsidy is 50% federal and 50% local.
<b>SEC 5310</b>	These funds, formerly known as Section 16 funds, are available through the Urban Mass Transportation Act of 1964 as amended. This authorizes capital grants to non-profit organizations to assist in providing transportation for the elderly and the handicapped. FTA provides 80% of the costs for equipment, and the 20% match must come from other than federal funds.
<b>SEC 5339</b>	A formula program that provides funding for capital projects to replace, rehabilitate, and purchase buses and bus-related equipment, and to construct bus-related facilities. This program was established under Moving Ahead for Progress in the 21st Century (MAP-21), replacing the previous Section 5309 discretionary program established under the Safe, Accountable, Flexible, and Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU).
<b>SDDOT</b>	South Dakota Department of Transportation
<b>STIP</b>	State Transportation Improvement Program
<b>STP</b>	Surface Transportation Program
<b>TIP</b>	Transportation Improvement Program

**METROPOLITAN TRANSPORTATION PLANNING PROCESS SELF-CERTIFICATION STATEMENT**

In accordance with 23 CFR 450.336, the **South Dakota Department of Transportation** and the **Rapid City Area Metropolitan Planning Organization** for the **Rapid City, South Dakota urbanized area** hereby certify that the transportation planning process is addressing the major issues in the metropolitan planning area and is being conducted in accordance with all applicable requirements of:

- (1) [23 U.S.C. 134](#), [49 U.S.C. 5303](#), and this subpart;
- (2) Title VI of the Civil Rights Act of 1964, as amended ([42 U.S.C. 2000d-1](#)) and [49 CFR part 21](#);
- (3) [49 U.S.C. 5332](#), prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- (4) Section 1101(b) of the FAST Act ([Pub. L. 114-357](#)) and [49 CFR part 26](#) regarding the involvement of disadvantaged business enterprises in DOT funded projects;
- (5) [23 CFR part 230](#), regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;
- (6) The provisions of the Americans with Disabilities Act of 1990 ([42 U.S.C. 12101 et seq.](#)) and [49 CFR parts 27](#), 37, and 38;
- (7) The Older Americans Act, as amended ([42 U.S.C. 6101](#)), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- (8) Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender; and
- (9) Section 504 of the Rehabilitation Act of 1973 ([29 U.S.C. 794](#)) and [49 CFR part 27](#) regarding discrimination against individuals with disabilities.

Rapid City, South Dakota MPO  
Metropolitan Planning Organization

South Dakota Department of Transportation  
State Department of Transportation

\_\_\_\_\_  
Signature

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Signature

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Title

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Title

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Date

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Date





**RAPID CITY AREA TRANSPORTATION IMPROVEMENT PROGRAM  
(Fiscal Years 2019 - 2022)**

**I. INTRODUCTION**

**A. The Transportation Improvement Program**

A Transportation Improvement Program (TIP) is a staged, multi-year program of transportation improvements including highway and transit projects. The TIP is a four (4) year priority list, including a financial plan. The Metropolitan Planning Organization (MPO) and the State Department of Transportation (SDDOT) cooperate in project selection. All projects funded by the Fixing America's Surface Transportation Act (FAST Act) must be included in the TIP.

The TIP should contain at least the following basic elements:

1. Identification of the project;
2. Estimated total cost and amount of federal funds proposed to be obligated during the program period;
3. Proposed source of federal and non-federal matching funds;
4. Identification of the recipient and, state and local agencies responsible for carrying-out the project;
5. A priority list of projects and project segments; and,
6. A financial plan.

The TIP is a "living" document. It can be amended with the approval of the Executive Policy Committee. The TIP focuses on projects that will require four (4) or less years to implement. Within the first four (4) years of the TIP, projects may be delayed or accelerated according to present needs, without requiring an amendment. This flexibility provides coordination among local and state agencies, saves money and decreases disruptions to the transportation system. The TIP is evaluated at year-end, and an annual increment of improvements is added to maintain a full multi-year program.

The TIP does not constitute an appropriation of funds, nor does it replace the normal funding program. The TIP is intended to serve as a fiscal management tool to assist state and local agencies in matching needs with resources. All major projects eligible for placement in the TIP must be selected from an approved Long Range Transportation Plan.

In developing the program, the MPO shall provide citizens, affected public agencies, representatives of transportation agency employees, other affected employee representatives, private transportation providers, and other interested parties a reasonable opportunity to comment on the proposed program. Because public involvement is a very important component of the TIP process, the public is given several opportunities to comment. The TIP is brought before the Rapid City Planning Commission, the Rapid City Council, and the Metropolitan Planning Organization committees. Public notices are printed in the local newspaper for all of the above meetings, and special public meeting notices are printed specifically for review of the TIP before the Metropolitan Planning Organization committees. The public is given the opportunity to comment in person at the meetings or submit comments during a specified comment period. Responses are made in reply to any comment received, and significant comments are discussed between the Staff involved in the TIP process and ultimately the MPO committees for further discussion as identified in 23 CFR 450.316 (a)(2).

A public hearing is scheduled in Rapid City on a date to be determined.

## **B. The Transportation Improvement Program In Perspective**

FAST Act projects in urbanized areas must be included in a TIP that is based on a continuing, comprehensive planning process carried on cooperatively by the state and local communities. The rationale for requiring a TIP can be summarized in three (3) key points.

1. Transportation issues should be approached in a comprehensive fashion with participation from all affected parties;
2. A systematic, comprehensive approach to planning and initiating transportation improvements assists decision-makers in determining the location, timing and financing of needed improvements; and,
3. A cooperatively developed program of transportation improvements should facilitate the coordination of public and private improvements thereby eliminating duplication of effort and expense. The TIP development provides local officials and the general public the opportunity to identify, evaluate, and select short-range community transportation improvements.

The Rapid City Area TIP includes all identifiable transportation related improvement projects that may be undertaken in the planning area over the next four (4) years. Emphasis has been on area needs stated in RapidTRIP 2040, the Long Range Transportation Plan. The guiding principle used in developing the Rapid City Area TIP was that: "the document should be a comprehensive transportation planning and fiscal management tool designed to assist state and local officials in the task of matching needed transportation improvements with available resources to accomplish the community's transportation goals as efficiently and effectively as possible".

## **II. IDENTIFYING, EVALUATING AND SELECTING CANDIDATE PROJECTS**

### **A. Project Selection And Prioritization**

The 2019-2022 Rapid City Area Transportation Improvement Program (TIP) represents a prioritized program of transportation improvements in the following multi-modal areas: streets and highways, public transportation, bicycles, and pedestrian. Projects are prioritized within each program year by funding category. The Rapid City Area Transportation Improvement Program is developed cooperatively by the South Dakota Department of Transportation (SDDOT), the local participating units of government, agencies, and the committees of the Metropolitan Planning Organization (MPO). The development of the Rapid City Area Transportation Improvement Program is a result of a series of meetings between state and local transportation officials in which the transportation-related needs, concerns, and priorities of each participant are discussed and evaluated. Project-oriented solutions have been developed and initiated into the Rapid City Area Transportation Improvement Program by the governmental entity having jurisdiction.

State projects included within the TIP are also found in SDDOT's Statewide Transportation Improvement Program (STIP). The projects identified in the Statewide Transportation Improvement Program have been prioritized based on overall needs at the State level and the availability of funds for each the regions in South Dakota. The South Dakota Transportation Commission approves the Statewide Transportation Improvement Program after the Metropolitan Planning Organization Acts on the Transportation Improvement Program. Projects located within the cities are drawn from either the city's Capital Improvements Program (CIP), as in the case of Rapid City, or developed internally through other planning and budgeting processes. County projects are developed internally and funding sources are included in the annual provisional budget for the Highway Departments.

The improvement projects listed in the Transportation Improvement Program must conform to the Long Range Transportation Plan (LRTP) for the Rapid City Area Metropolitan Planning Organization. The most recent Long Range Transportation Plan was approved in September 2015. RapidTRIP 2040 the Long-Range Transportation Plan, can be found on the Rapid City website at <http://www.rcgov.org/departments/community-planning-development/transportation-planning.html>. Only major projects identified in the approved Long Range Transportation Plan are selected as potential TIP projects. Currently, projects within the TIP are considered to be in compliance with the LRTP.

Consistent with the project prioritization and evaluation criteria noted in the Long Range Transportation Plan, the TIP projects are prioritized in accordance with the policies and strategies that guide the Activities of the Rapid City Area Metropolitan Planning Organization process, including the Fixing America's Surface Transportation Act (FAST Act) Planning Factors. The Planning Factors found in the FAST Act include:

- Support the economic vitality of the metropolitan area by enabling global competitiveness, productivity, and efficiency;
- Increase the safety and security of the transportation system for motorized and non-motorized users;
- Increase the ability of the transportation system to support homeland security and safeguard the personal security of all motorized and non-motorized users;
- Increase the accessibility and mobility options available to people and freight;
- Protect and enhance the environment, promote energy conservation, and improve quality of life;
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
- Promote efficient system management and operation;
- Emphasize the preservation of the existing transportation system;
- Improve resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation; and
- Enhance travel and tourism.

In terms of selecting a project for construction, the FAST Act provides additional flexibility within the period of the first four (4) years. Any projects identified within the initial four (4) year period may be accelerated or moved back based on current funds, needs or priorities. If a newly identified project is to be considered for placement in the TIP, then it must be presented to the transportation planning committees for approval. If approved, an amendment is then placed on the existing TIP to identify the new project. See Appendix A.

## **B. Financial Constraint**

The FAST Act requires that Metropolitan Planning Organization (MPO) Transportation Improvement Program be financially constrained and include a financial plan which demonstrates that funding is available for programmed projects. The Rapid City Area Transportation Improvement Program has been developed to meet this requirement, and outlines the available funding in the respective project categories. The following funding sources have been identified for funding street projects.

1. **Assessments** – Cost recoveries levied against real property based upon the cost of improvements made by the city.

2. **Bond funds** – Funds derived from the issuance of general obligation or revenue bonds by the City. These bonds constitute an obligation of the City to repay principal and interest over a specified number of years from general or other revenues of the City.
3. **Enterprise Funds** – Cost recoveries from user fees or surcharges against real property based upon the cost of improvement by the City. These costs are charged within a specific enterprise fund (water, wastewater, landfill, etc.).
4. **Federal Funds** – Grants or loans from the federal government which are required to be used for specific purposes or projects.
5. **General Fund** – The fund used to account for all financial resources, except those required to be accounted for in another fund. The City's general fund accounts for revenues and expenditures of general property taxes, first penny sales tax, licenses and permits, etc.
6. **Other Funds** – Special revenue or trust funds that account for revenues restricted for specific purposes.
7. **State Funds** – Grants or loans from the State of South Dakota for specific purposes or projects.
8. **Sales Tax (2<sup>nd</sup> Penny)** – An additional one percent tax levied on gross receipts of retail business and service within the City's jurisdiction that may be used for specific purposes, primarily capital improvement projects and debt retirement.
9. **Tax Increment Financing** – Financing used to fund public investments in an area by capturing, for a time, all of the increased property tax revenue that results when public investment stimulates private investment.
10. **State Fuel Revenue Tax**
11. **Motor Vehicle Excise Tax**
12. **User Fees** – Fees charged for goods and services to recover the costs associated with providing those goods and services, including transit fares and bus advertising.

Figure 1 below depicts the project annual construction totals for the federally funded projects, and the entity responsible for paying the match. The South Dakota Department of Transportation has committed the State and Federal funds for the expenditures in Figure 1. State match is funded from the State Highway Trust Fund. The State Highway Trust fund generates most of its revenue from the state gas tax. City and County governments have committed funding for required local match.

The South Dakota Department of Transportation has dedicated Federal funding and will provide the match using State Fuel Tax Revenue and Motor Vehicle Excise Tax. The South Dakota Transportation Improvement Program for 2019-2022 is included on pages 11 – 22.

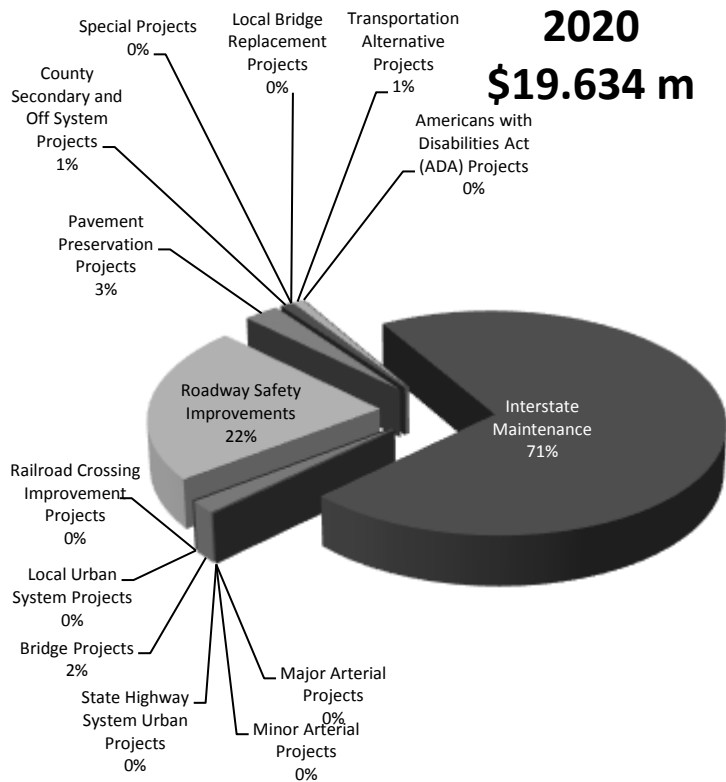
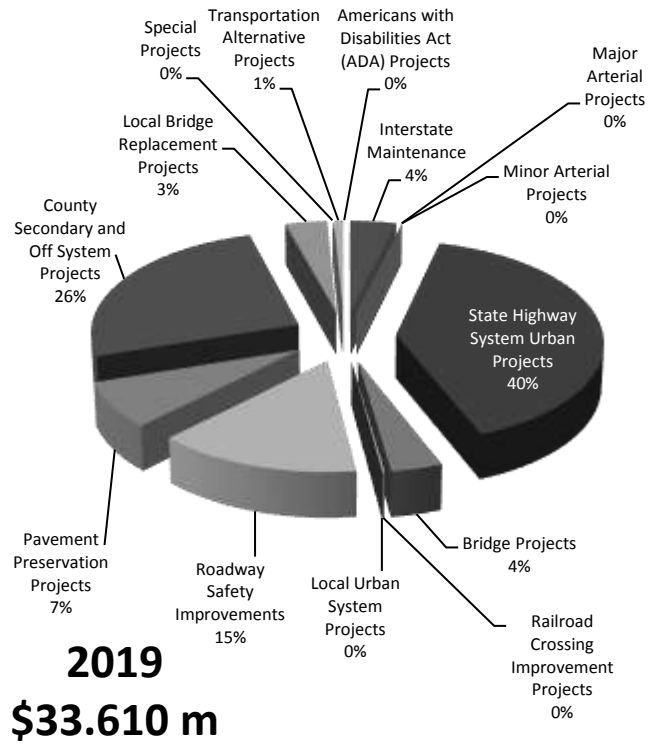
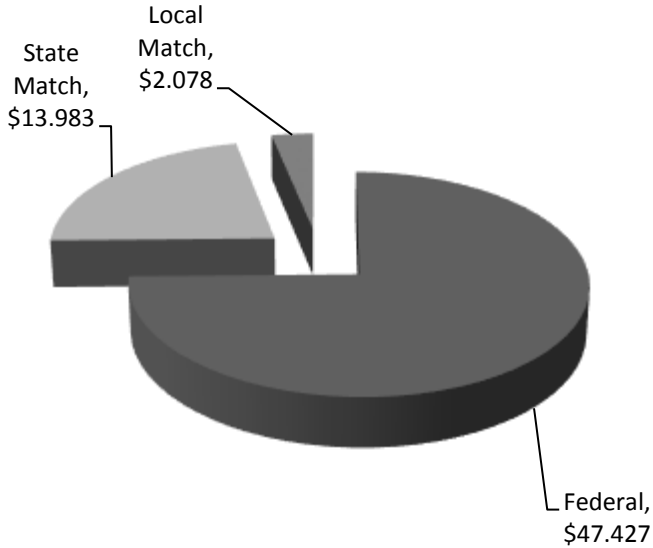
Figure 1 - Federal Funds Programmed in the Metropolitan Planning Area

	2019	2020	2021	2022	Total
<b>Interstate Maintenance</b>					
Federal	\$1,183,000	\$12,061,000	\$1,559,000	\$2,095,000	\$16,898,000
State Match	\$118,000	\$1,908,000	\$154,000	\$208,000	\$2,388,000
Interstate Maintenance	\$1,301,000	\$13,969,000	\$1,713,000	\$2,303,000	\$19,286,000
<b>Major Arterial Projects</b>					
Federal	\$0	\$0	\$0	\$0	\$0
State Match	\$0	\$0	\$0	\$0	\$0
Major Arterial Projects	\$0	\$0	\$0	\$0	\$0
<b>Minor Arterial Projects</b>					
Federal	\$0	\$0	\$0	\$0	\$0
State Match	\$0	\$0	\$0	\$0	\$0
Minor Arterial Projects	\$0	\$0	\$0	\$0	\$0
<b>State Highway System Urban Projects</b>					
Federal	\$10,317,000	\$0	\$0	\$0	\$10,317,000
State Match	\$3,171,000	\$0	\$0	\$0	\$3,171,000
State Highway System Urban Projects	\$13,488,000	\$0	\$0	\$0	\$13,488,000
<b>Bridge Projects</b>					
Federal	\$0	\$291,000	\$0	\$0	\$291,000
State Match	\$1,248,000	\$63,000	\$0	\$0	\$1,311,000
Bridge Projects	\$1,248,000	\$354,000	\$0	\$0	\$1,602,000
<b>Railroad Crossing Improvement Projects</b>					
Federal	\$45,000	\$0	\$0	\$0	\$45,000
State Match	\$5,000	\$0	\$0	\$0	\$5,000
Railroad Crossing Improvement Projects	\$50,000	\$0	\$0	\$0	\$50,000
<b>Local Urban System Projects</b>					
Federal	\$0	\$0	\$0	\$0	\$0
State Match	\$0	\$0	\$0	\$0	\$0
Local Match	\$0	\$0	\$0	\$0	\$0
Local Urban System Projects	\$0	\$0	\$0	\$0	\$0
<b>Roadway Safety Improvements</b>					
Federal	\$4,462,000	\$3,731,000	\$0	\$0	\$8,193,000
State Match	\$435,000	\$724,000	\$0	\$0	\$1,159,000
Local Match	\$0	\$0	\$0	\$0	\$0
Roadway Safety Improvements	\$4,897,000	\$4,455,000	\$0	\$0	\$9,352,000

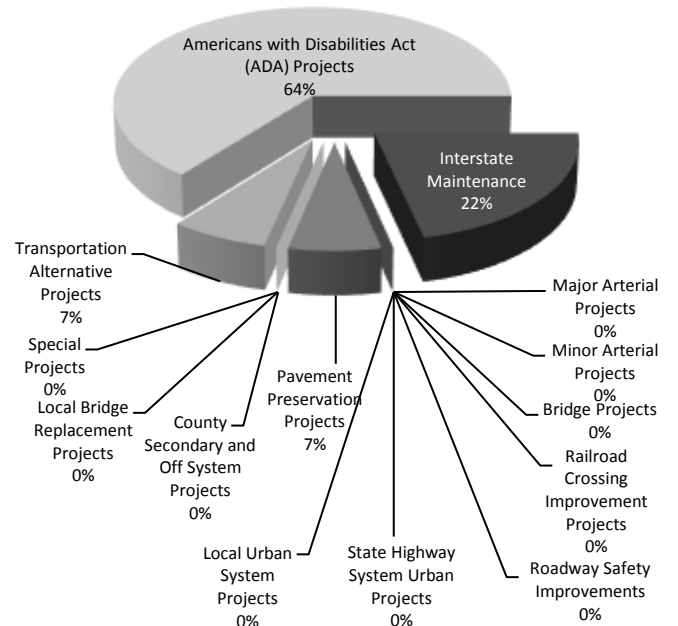
Figure 1 - Federal Funds Programmed in the Metropolitan Planning Area (continued)					
	2019	2020	2021	2022	Total
<b>Pavement Preservation Projects</b>					
Federal	\$2,069,000	\$435,000	\$444,000	\$0	\$2,948,000
State Match	\$454,000	\$96,000	\$97,000	\$0	\$647,000
Pavement Preservation Projects	\$2,523,000	\$531,000	\$541,000	\$0	\$3,595,000
<b>County Secondary and Off System Projects</b>					
Federal	\$6,965,000	\$0	\$0	\$0	\$6,965,000
Local Match	\$1,597,000	\$62,000	\$0	\$0	\$1,659,000
State Match	\$94,000	\$94,000	\$0	\$0	\$188,000
County Secondary and Off System Projects	\$8,656,000	\$156,000	\$0	\$0	\$8,812,000
<b>Local Bridge Replacement Projects</b>					
Federal	\$946,000	\$0	\$0	\$0	\$946,000
Bridge Improvement Grant Funds	\$0	\$0	\$0	\$0	\$0
Local Match	\$237,000	\$0	\$0	\$0	\$237,000
Local Bridge Replacement Projects	\$1,183,000	\$0	\$0	\$0	\$1,183,000
<b>Special Projects</b>					
Federal	\$0	\$0	\$0	\$0	\$0
Local Match	\$0	\$0	\$0	\$0	\$0
Special Projects	\$0	\$0	\$0	\$0	\$0
<b>Transportation Alternative Projects</b>					
Federal	\$216,000	\$138,000	\$207,000	\$0	\$561,000
Local Match	\$48,000	\$31,000	\$366,000	\$0	\$445,000
Transportation Alternative Projects	\$264,000	\$169,000	\$573,000	\$0	\$1,006,000
<b>Americans with Disabilities Act (ADA) Projects</b>					
Federal	\$0	\$0	\$0	\$0	\$0
State Match	\$0	\$0	\$5,114,000	\$0	\$5,114,000
Americans with Disabilities Act (ADA) Projects	\$0	\$0	\$5,114,000	\$0	\$5,114,000
<b>Highway Total for Fiscal Year</b>					
	\$33,610,000	\$19,634,000	\$7,941,000	\$2,303,000	\$63,488,000
<b>Public Transportation Projects</b>					
Federal	\$1,447,515	\$1,472,098	\$1,497,172	\$1,522,748	\$5,939,533
State Match	\$37,837	\$37,837	\$37,837	\$37,837	\$151,348
Local (Rapid City)	\$1,045,827	\$1,065,817	\$1,086,106	\$1,106,852	\$4,304,602
Public Transportation Projects	\$2,531,179	\$2,575,752	\$2,621,115	\$2,667,437	\$10,395,483
<b>Total Funding for Fiscal Year</b>					
	\$36,141,179	\$22,209,752	\$10,562,115	\$4,970,437	\$73,883,483

**Figure 2 - Federally Funded Projects in the Metropolitan Planning Area**  
(Dollars in Millions)

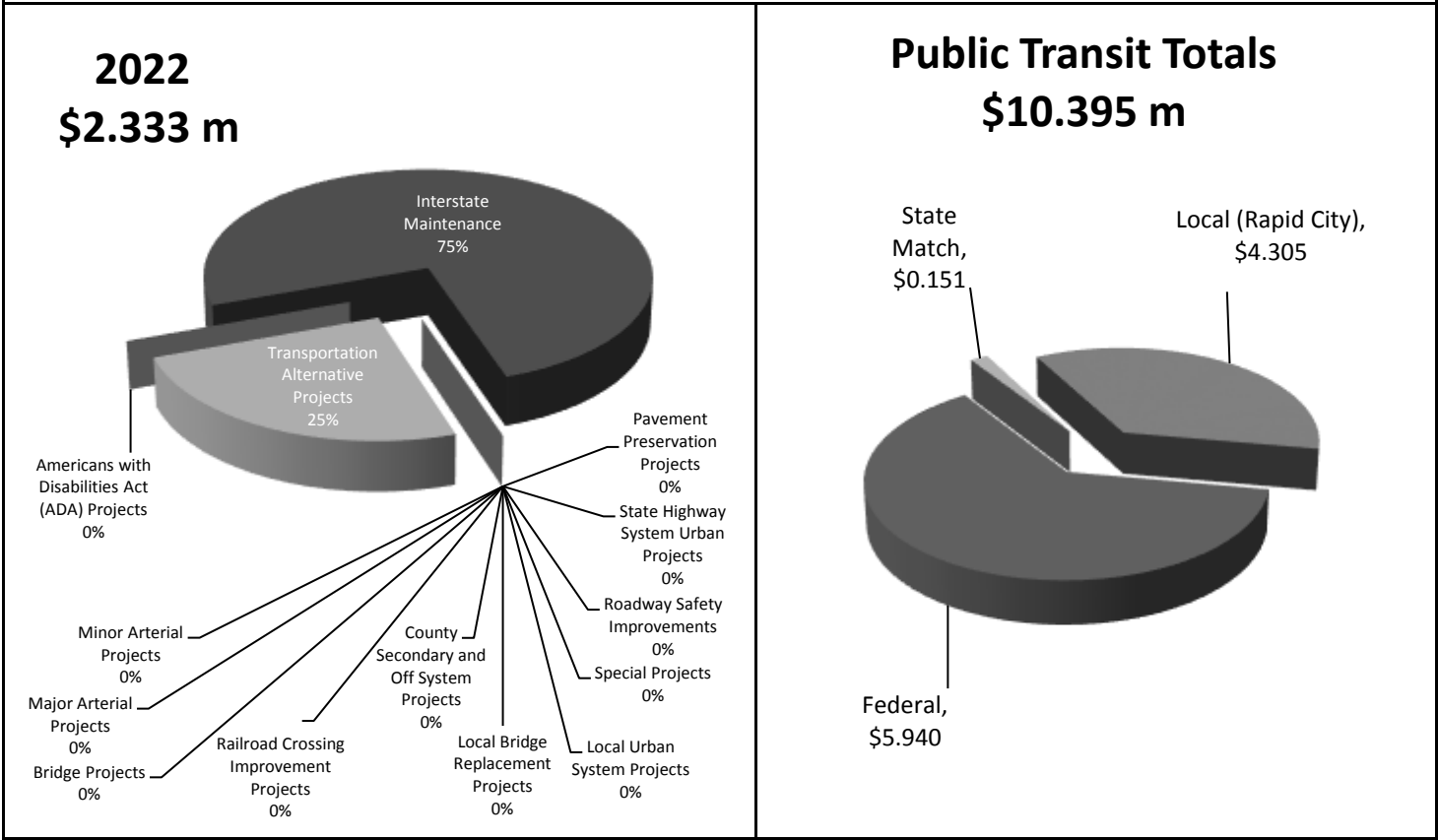
**Funding Sources**  
Dollars in Millions



**2021**  
**\$7.941 m**



**Figure 2 - Federally Funded Projects in the Metropolitan Planning Area**  
(Dollars in Millions)



**Figure 3 – Regionally Significant Non-Federally Funded Projects in the Metropolitan Planning Area**

FISCAL YEAR	2019	2020	2021	2022	Total
<b>Rapid City Regional Airport Improvements Program</b>					
Local	\$0	\$0	\$0	\$0	\$0
<b>Box Elder Capital Improvements Program</b>					
Local	\$3,200,000	\$0	\$0	\$0	\$3,200,000
<b>Rapid City Capital Improvements Program</b>					
Local	\$3,200,000	\$0	\$7,700,000	\$0	\$10,900,000
<b>Meade County Road and Bridge Fund</b>					
Local	\$2,500,000	\$2,200,000	\$0	\$0	\$4,700,000
<b>Pennington County Road and Bridge Fund</b>					
Local	\$1,200,000	\$7,000,000	\$0	\$0	\$8,200,000

The South Dakota Department of Transportation will provide the match for State sponsored federally funded projects using State Fuel Tax Revenue and Motor Vehicle Excise Tax. The South Dakota Transportation Improvement Program for 2019-2022 is included on pages 11 - 22.



All projects sponsored by the City of Rapid City are excerpts from the City's Capital Improvement Program (CIP). The CIP is a five-year plan for construction and infrastructure improvements. The five-year plan is revised and updated annually. The CIP Committee reviews the proposed projects and formulates the five-year plan based on available funding and priority. The plan is then presented to the Mayor, Planning Commission and City Council for approval. Projects programmed for the upcoming year (2019) will be adopted as a part of the City budget. Projects scheduled for subsequent years (2020-2023) are tentatively programmed for implementation in those respective years. All projects beyond the current year are subject to annual review. Local funding will be provided by developer contributions, tax increment financing and other local sources. Adequate funds have been committed to fund the City's local match for transportation projects. The City of Rapid City's Capital Improvements Projects are found on pages 23 - 26.

Rapid City Public Transit receives funding from the Federal Transit Administration, the South Dakota Department of Transportation and the City of Rapid City. The breakdown of these funds and the Transit Program for 2019-2022 is included on page 27. Rapid City Public Transit also receives funds to assist with programming expenditures from fare box and bus advertising revenues.

Rapid City Regional Airport receives funding from the Federal Aviation Administration, the State of South Dakota, and the Airport Enterprise Fund. The Airport Improvement Projects for 2019-2021 are listed on page 28.

The City of Box Elder presently receives funding from the City's general fund and The State of South Dakota. The City of Box Elder Five-Year Construction Program for 2019-2023 is included on pages 29-30.

Meade County presently receives funding from the County's general fund. The Meade County Five-Year Construction Program for 2019-2023 is included on pages 31-32.

Pennington County presently receives funding from the County's general fund. Pennington County has committed funds to those County Secondary and Off System Projects (SDDOT) listed within this TIP. The Pennington County Five-Year Construction Program for 2019-2023 is included on page 33.

FAST Act directs MPOs to consider operation and maintenance (O&M) of the system as part of fiscal constraint, in addition to capital projects. O&M costs represent what is required to operate and maintain existing transportation facilities. To support this assessment, MPOs are charged with providing credible cost estimates in the TIP. The table below was developed in consultation with SDDOT and the local governments. The total O&M costs for the MPO area are greater than \$23 million per year. The O&M costs are included in each entity's budget and are fiscally constrained.

Figure 4 – Projected Operations and Maintenance Costs in the Metropolitan Planning Area

Entity	2019	2020	2021	2022	Total
SDDOT	\$2,100,000	\$2,100,000	\$2,100,000	\$2,100,000	\$8,400,000
Box Elder	\$950,000	\$950,000	\$950,000	\$950,000	\$3,800,000
Rapid City	\$6,119,587	\$6,119,587	\$6,119,587	\$6,119,587	\$24,478,348
Summerset	\$75,000	\$75,000	\$75,000	\$75,000	\$300,000
Meade County	\$5,086,366	\$5,086,366	\$5,086,366	\$5,086,366	\$20,345,464
Pennington County	\$8,673,603	\$8,673,603	\$8,673,603	\$8,673,603	\$34,694,412
Total Projected O&M Costs	\$23,004,556	\$23,004,556	\$23,004,556	\$23,004,556	\$92,018,224

### III. RECOMMENDED PROJECTS AND PROGRAMS

A listing of projects, programs, and funding sources during Fiscal Years 2019 – 2022 follows. The projects are listed in order of priority as designated by private citizens, the Citizen's Advisory Committee, the Technical Coordinating Committee, the Executive Policy Committee, Planning Staff, and the South Dakota Department of Transportation (SDDOT). The recommended projects and programs have been grouped into "System or Functional Element" categories.

### IV. LIST OF PROJECTS

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**South Dakota Transportation Improvement Program**  
Tentative 2019 - 2022  
Report Date 05/30/2018

By Category										Interstate Maintenance Projects		
Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥	
906.00	IM 0901(194)36	05W7	Brookings Meade Moody	17.0	I29N I29S I90E I90W	I-90 - Fm Exit 37 to 2 miles south of Tilford, I-29 - Fm Exit 121 north to Brookings	Dynamic Advisory Speed Signs	1.183	2019	1.301		
								2019	17.0	<b>Miles</b>	1.301	
43.00	* IM 0902(112)59	6568	Pennington	0.0	I90E I90W	I90 - Exit 59, (LaCrosse Street) in Rapid City	Interchange Reconstruction, PCC Surfacing, Aux. Lane Addition (WB & EB), Str Widening, Deck Overlay, Approach Slabs	11.163	2020	12.960		
Construction planned for 2020 & 2021.												
44.00	IM 0901(181)0	04NH	Jackson Lawrence Meade Pennington	131.5	I90E I90W	I-90 - Rapid City Region	Crossroad Improvements	0.898	2020	1.009		
								2020	131.5	<b>Miles</b>	13.969	
58.00	IM-P 0901(193)7	04W4	Lawrence Meade	0.0	I90E I90W SD34	I90 - Strs, Over Co Rd & Over Spearfish Creek, 3.0 W & 0.3 W of the US85N Interchange; Co Rd over I90, 2.2 W of the SD34N Interchange; Over RR, 0.8 W of SD34N Interchange; SD34 Interchange; Over Whitewood Crk, 1.0 E of SD34N Interchange; Over RR, 0.2 SE of US14A Interchange; Co Rd Over I90, 3.2 NW of the Tilford Interchange; The Tilford Interchange; Co Rd over I90, 3.1 NW of the SD231 Interchange	Zone Painting, Diaphragm Weld Repair	1.559	2021	1.713		
								2021	0.0	<b>Miles</b>	1.713	

¥ Costs reflect anticipated inflation

By Category

Interstate Maintenance Projects

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥
70.00	IM-NH-P 0040(234)	04W7	Jackson Pennington	0.0	I90E I90W SD240 US14E	I90 - Strs, 1.5 W of Exit 67 Over S Gate Road & a Crk; 1.4 W of Exit 67 over RR Track; 4.0 E of the Box Elder Interchange over 154th Ave; 0.5 W of SD240 Over RR; 0.3 E of Wasta Over the Cheyenne River; 1.9 NW of the W Wall Interchange Under Cedar Butte Road; 6.3 NW of the SD240 S Interchange Over Whitewater Crk; On the US014 WB Off ramp at the I90 Interchange; US14 – Str, US14 & I 90 Interchange; SD240 – Str, At the W Wall Interchange Over I90	Zone Painting	2.095	2022	2.303	
							2022	0.0 Miles	2.303		

¥ Costs reflect anticipated inflation

By Category

State Highway System Urban Projects

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥
9.00	* NH 0044(167)44 P 0231(13)79	027K 03CP	Pennington	1.2	SD231 SD231N SD231S SD44 SD44E SD44W	SD231 (W Chicago/W Omaha) - Fm Sheffer St to Mt View Rd (SD44) in Rapid City; SD44 (W Omaha St) - Fm Mt. View Rd to the start of the divided lanes Near 12th St	Urban Grading, Storm Sewer, Curb & Gutter, Sidewalk, Traffic Signals, PCC Surfacing, Str Repair & Widening Over Rapid Creek, Lighting	10.317	2019	13.168	
11.10	P 0445(00)74	06WX	Pennington	0.2	SD445	SD445 - Deadwood Ave and Krebs Drive	Install Left Turn Lane at Deadwood Ave & Krebs Dr	0.000	2019	0.320	
								2019	1.4 Miles	13.488	

¥ Costs reflect anticipated inflation

By Category

Bridge Projects

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥	
20.00	P 0040(00)18	04UY	Regionwide	0.0		Regionwide	Rapid City Region Bridge Rehabilitation	0.000	2019	1.248		
								2019	0.0	<b>Miles</b>	1.248	
62.00	NH 0044(203)39	05Q8	Pennington	0.0	SD44	SD44 - Str 4.1 SW of Jct SD231 Over Rapid Creek	Zone Painting, Replace Open Joints, Repair Spalling at Barrier Joints and Edge of Slab, Deck Overlay	0.291	2020	0.354		
								2020	0.0	<b>Miles</b>	0.354	

¥ Costs reflect anticipated inflation

By Category

Railroad Crossing Improvement Projects

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥
73.00	PH-PS 3230(05)	01DJ	Pennington	0.0		Box Elder - Pennington Co Rd 14-16 - Radar Hill Rd Intersection and Commercial Gate Road Intersection; Radar Hill Road, S of Hwy1416 Intersection, DOT#190122B, RCP&E Railroad	Intersection Reconstruction, Add Turn Lanes; Crossing Surface Rehabilitation, Approach Work & Relocate Existing Signals	0.045	2019	0.050	
Also Funded In:										Total Project Cost	
	Item	Category								3.433	
	43.00	Roadway Safety Improvement						3.383			
Coordinate with PCN 05RH											
.....											
							2019	0.0	<b>Miles</b>	0.050	

¥ Costs reflect anticipated inflation

By Category

Roadway Safety Improvement

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds	Fiscal Year	Total Cost(Mil \$)	¥
43.00	PH-PS 3230(05)	01DJ	Pennington	0.0		Box Elder - Pennington Co Rd 14-16 - Radar Hill Rd Intersection and Commercial Gate Road Intersection; Radar Hill Road, S of Hwy1416 Intersection, DOT#190122B, RCP&E Railroad	Intersection Reconstruction, Add Turn Lanes; Crossing Surface Rehabilitation, Approach Work & Relocate Existing Signals	3.045	2019	3.383	
Also Funded In:								Total Project Cost			
	Item	Category						3.433			
	73.00	Railroad Crossing Improvement Projects				0.050					
	Coordinate with PCN 05RH										
50.00	PH 0040(220)	04HW	Regionwide	0.0		Various locations on the State System in the Rapid City Region	Cold Plastics Durable Pavement Marking	0.208	2019	0.208	
51.00	PH 0040(221)	04HX	Regionwide	0.0		Various locations on the State System in the Rapid City Region	Sprayable Durable Pavement Marking	0.338	2019	0.338	
60.00	* PH 0040(334)	05W5	Lawrence Meade Pennington	1.8	I190S I90E I90W US14A US16E	Various Locations on the state and local systems in the Rapid City Region	High Friction Surface Treatment	0.871	2019	0.968	
								2019	1.8 Miles	4.897	
68.00	PH 0040(317)	062J	Regionwide	0.0		Various Locations in the Rapid City Region	Interstate Median Protection for Rapid City Region	1.061	2020	1.061	
73.00	PH 8052(71)	04L4	Pennington	0.0		Various County, City, & Township Roads in Pennington County	Signing & Delineation	1.540	2020	2.200	
81.00	PH 0040(222)	04JP	Regionwide	0.0		Various locations on the State System in the Rapid City Region	Cold Plastics Pavement Marking	0.212	2020	0.212	
82.00	PH 0040(223)	04JQ	Regionwide	0.0		Various locations on the State System in the Rapid City Region	Sprayable Pavement Marking	0.345	2020	0.345	

¥ Costs reflect anticipated inflation



By Category

Roadway Safety Improvement

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥
104.00	PH 0040(332)	06K3	Butte Fall River Lawrence Pennington	0.0	SD34 SD79S US18	Various Locations in the Rapid City Region	Turn Lane Construction	0.573	2020	0.637	
							2020	0.0	<b>Miles</b>	4.455	

¥ Costs reflect anticipated inflation

By Category

Pavement Preservation Projects

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥
75.00	NH-P 0040(315)	05YE	Custer Fall River Lawrence Pennington	21.1	SD36 SD79N US16A US16AE US16AW US18 US385 US85	Various Routes in the Rapid City Region	Pavement Restoration	1.642	2019	2.003	
.....											
91.00	NH-P 0041(162)	06FJ	Areawide	0.0		Various Locations Throughout the Rapid City Area	2019 Areawide Pipe Work Projects	0.427	2019	0.520	
.....											
								2019	21.1 Miles	2.523	
104.00	NH-P 0041(163)	06FK	Areawide	0.0		Various Locations Throughout the Rapid City Area	2020 Areawide Pipe Work Projects	0.435	2020	0.531	
.....											
								2020	0.0 Miles	0.531	
121.00	NH-P 0041(168)	06FL	Areawide	0.0		Various Locations Throughout the Rapid City Area	2021 Areawide Pipe Work Projects	0.444	2021	0.541	
.....											
								2021	0.0 Miles	0.541	

¥ Costs reflect anticipated inflation

By Category

County Secondary and Off System Projects

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥	
12.00	P 000S(00)219	04LU	Regionwide	0.0		Various Locations in the Rapid City Region	County Pavement Marking	0.000	2019	0.156		
<p style="text-align: center;">\$0.156 - State funds at 60/40 (State - \$0.094, County - \$0.062)</p>												
.....												
999.00	P 6480(04)	5777	Pennington	9.7		Sheridan Lake Road from Jct. of US385 to Alberta Road	Grading, Base Course, C&G, AC Surfacing	6.965	2019	8.500		
.....												
								2019	9.7	<b>Miles</b>	8.656	
.....												
16.00	P 000S(00)221	04LY	Regionwide	0.0		Various Locations in the Rapid City Region	County Pavement Marking	0.000	2020	0.156		
<p style="text-align: center;">\$0.156 - State funds at 60/40 (State - \$0.094, County - \$0.062)</p>												
.....												
								2020	0.0	<b>Miles</b>	0.156	

¥ Costs reflect anticipated inflation

By Category

Local Bridge Replacement Projects

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥
999.00	BRO 8058(00) BRO 8052(00)16-2	05LY 05R2	Pennington Spink	0.2		Structure 2.2N & 0.1E of Athol over Snake Creek (162 St.) SN 58-061-140; Structure Cherry & E St. James (Cherry Ave.) in Rapid City over Rapid Creek SN 52-427-308	Structure & Approach Grading; Structure Preservation - Bridge Improvement Grant (BIG) Projects	0.554	2019	0.693	
999.00	BRO 8052(00)16-2	05R2	Pennington	0.0		Structure Cherry & E St. James (Cherry Ave.) in Rapid City over Rapid Creek SN 52-427-308	Structure Preservation - Bridge Improvement Grant (BIG) Projects	0.000	2019	0.000	
999.00	BRO 8052(00)16-1	05R1	Pennington	0.0		Structure 0.1N of 12th & Omaha on Twelfth St. in Rapid City over Rapid Creek SN 52-408-298	Structure Preservation - Bridge Improvement Grant (BIG) Projects	0.392	2019	0.490	
								2019	0.2 Miles	1.183	

¥ Costs reflect anticipated inflation

By Category

Transportation Alternative Projects

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥
21.00	P TAPU(20)	062L	Meade	0.0		In Piedmont N 2nd St from City Hall to Piedmont Valley Elementary School and 3rd St from Chestnut St to Main St.	PE, CE and Construction of Sidewalk	0.216	2019	0.264	
								2019	0.0 Miles	0.264	
23.00	P TAPU(15)	05CC	Pennington	0.5		Rapid City - Along I-190 and SD44 / Omaha St., from approximately 850 feet North of the Rapid Creek Bridge along I190, to N. Mount Rushmore Rd.	PE, CE and Construction of Shared Use Path	0.138	2020	0.169	
								2020	0.5 Miles	0.169	
25.00	P TAPU(09)	04UA	Pennington	0.9		Rapid City - On the east side of Cambell St. from the end of the side path south of Rocker Dr., N to E. Omaha St./Hwy. 44.	PE, CE and Construction of Shared Use Path	0.470	2021	0.573	
								2021	0.9 Miles	0.573	

¥ Costs reflect anticipated inflation

By Category

Americans with Disabilities Act (ADA)

Item	Project Number	PC #	County	Length	Route	Location of Project	Type of Improvement	Federal Funds ¥	Fiscal Year	Total Cost(Mil \$)	¥
9.00	NH 0044(00)46	04PD	Pennington	3.4	SD44	SD44 - Fm LaCrosse St to Covington St in Rapid City	ADA Curb Ramp Upgrades, Intersection Improvement, Sidewalk	0.000	2021	5.114	
							2021	3.4 Miles	5.114		

¥ Costs reflect anticipated inflation

City of Rapid City CIP 2018-2023

May 17, 2018

Description Legend: Streets-ST, Water-W, Sanitary Sewer-S, Stormwater Drainage-SD

Line No	Project Name/CIP #	Description	Estimated Cost	Year
1	38th Street Reconstruction/ 50716	Reconstruction of 38th Street from Clifton to Range. ST,W,S,SD	\$2,010,145	2018
2	Catron Blvd Widening Project/51115	Widening of Catron Blvd from Nugget Gulch to Les Hollers to two lanes in each direction and roadway lighting. Minor water and Sanitary Sewer improvements. ST,W,S	\$1,418,723	2018
3	Downtown Water Valve Repair/50705	Repair and cathodic protection installation for water valves in St. Joe Street from E Blvd to 3rd St. W, ST	\$278,753	2018
4	East Blvd/E North St. Reconstruction/50866	Reconstruction of E Blvd and E North St from St. Joseph Street to Herman Street. ST, W, S, SD	\$10,130,000	2018
5	Omaha Trunk Sewer Replacement/50878.1	Replacement of Trunk Sewer Main along Omaha Street from 1st Street to Maple, S,W	\$1,099,467	2018
6	Reservoir Road Trunk Sewer Extension/50328.1	Installation of Trunk Sewer in Reservoir Road from South Side Drive north to Future Minnesota Street. S	\$2,199,049	2018
7	San Marco Street Reconstruction/50429	Reconstruction of San Marco St. from S Canyon to W Chicago. Pavement inlay, ADA improvements and San Sewer replacement. ST, S	\$300,000	2018
8	Sturgis Road Area Utility Reconstruction/50824	Reconstruct City utilities along Sturgis Rd and Trailsview Drive primarily south of W Chicago St. W, S, SD, ST	\$1,572,379	2018
9	Concrete Repair Project, Sheridan Lake Road/50445	Spall repair and panel replacement from Corral Drive to Arrowhead Drainage crossing. ST	\$277,318	2018
10	W Chicago Street Utility Reconstruction/50448	Reconstruction of City Utilities and landscaping with DOT project on West Chicago from Sturgis Rd. to Sheffer St. W, S, ST, Parks	\$1,287,670	2018

Line No	Project Name/CIP #	Description	Estimated Cost	Year
11	Sanitary Sewer Reconstruction Alley south of Kansas City Street/50827	Reconstruct sanitary sewer in alley south of Kansas City Street between 2nd and 4th Streets. S	\$352,398	2018
12	Deadwood Avenue resurfacing/50437	Project in conjunction with Pennington County to resurface with areas of regrading from I-90 to County Line. ST	\$3,250,000	2019
13	Disk Dr. and Haines Ave. Intersection improvements/51121	Concrete panel replacement and ADA improvements with utility adjustments. ST, W, S	\$383,000	2019
14	La Crosse Street Interchange Utility Improvements/51108	Utility adjustments and improvements in coordination with DOT Lacrosse St. interchange. S, W, SD, St	\$480,000	2019
15	Omaha Street Utilities, Sheffer St. to 12th St./50904	Utility adjustments and improvements in coordination with DOT Omaha St. project from Sheffer to 12th ST. S, W, SD, St	\$810,000	2019
16	Robbinsdale-Ivy, Fairlane, Willow, Nevada, E. Idaho/50421.3.1C	Reconstruction of Robbinsdale area streets and utilities. ST, W, S, SD	\$3,900,000	2019
17	Woodlawn Dr. Sanitary Sewer Replacement/50623	Replacement of Sanitary sewer in Woodlawn and Downing St between Anamosa and Herman. ST, S, W	\$1,220,000	2019
18	Dakota Drive Water Main Reconstruction/50399	Reconstruct water main on Dakota Drive and West Main Street to Harter Dr. ST, S, W	\$1,800,000	2020
19	East Anamosa Storm Sewer Repair/51153	Repair storm sewer that has become disconnected at riser pipe located between Luna Dr. and Railroad Bridge. SD	\$60,000	2020
20	Idlewild Box Culvert/50715	Replace existing box culvert in compliance with Red Dale Drainage Basin Design Plan to prevent roadway overtopping. SD	\$450,000	2020
21	12th Street Reconstruction/50927	Reconstruction of 12th Street between St. Joe and Fulton St. and installation of stormwater drainage infrastructure. ST, W, S, SD	\$2,715,000	2021
22	Downtown Water Valve Repair/50705	Repair and cathodic protection installation for water valves on Main or St. Joe between E and W Blvds. Phased project. W, ST	\$300,000	2021



Line No	Project Name/CIP #	Description	Estimated Cost	Year
23	Jackson Blvd./W Main St. Intersection Reconstruction/50858	Reconstruction of Jackson Blvd. and W Main Street intersection. ST, S, W, SD	\$2,920,000	2021
24	Sheridan Lake Road Reconstruction/51122	Roadway capacity improvements between Corral Dr. and Catron Blvd. ST, W, S	\$4,800,000	2021
25	Sunburst Drive Reconstruction/51004	Reconstruction of Sunburst Drive and utility expansion. ST, S	\$2,100,000	2021
26	Downtown Water Valve Repair/50705	Repair and cathodic protection installation for water valves on Main or St. Joe between E and W Blvds. Phased project. W, ST	\$300,000	2022
27	E Watertown St. Water Main Replacement/51076	Replace existing water main in E Watertown St. W	\$200,000	2022
28	Elmhurst Dr. Reconstruction/51098.1	Reconstruction of Elmhurst Drive and utility replacement. ST, S, W, SD	\$1,100,000	2022
29	Forest and Juniper Reconstruction/51098.2	Reconstruction of Forest and Juniper Drives and utility replacement. ST, S, W, SD	\$1,200,000	2022
30	Meade Street Water Main Reconstruction/51077	Replacement of water main in Meade St. W	\$405,000	2022
31	Red Dale Drainage Basin Improvements/50987	Drainage improvements in the Red Dale Drainage Basin as determined by the Drainage Basin Design Plan. SD, W	\$935,000	2022
32	Robbinsdale-Ivy, Iowa, Tallent/50389.4-1	Reconstruction of Robbinsdale area streets and utilities. ST, W, S, SD	\$2,100,000	2022
33	Southeast Area Trunk Sewer Reconstruction Elm-Prairie/50829	Reconstruction of Sanitary Sewer Trunk between Elm and Prairie. S	\$1,750,000	2022
34	St. Cloud St. Reconstruction/51174	Reconstruction of St. Cloud St. between W Blvd and 9th St. ST, W, S	\$500,000	2022

Line No	Project Name/CIP #	Description	Estimated Cost	Year
35	44th St. Reconstruction/50719	Reconstruction of 44th Street between W Chicago and W Main St. ST, W, S, SD	\$1,570,000	2023
36	Centre St. Reconstruction/50141	Reconstruction of Centre St. from Lacrosse St. to Campbell St. ST, W, S, SD	\$3,835,000	2023
37	E Blvd Water Transmission Main/50463	Replacement of existing large diameter water transmission main located south of St. Joe on E Blvd. W	\$2,600,000	2023
38	Kansas City St. and West St. Water Booster Station Replacement/TBD	Replace existing water booster station and associated water mains at Kansas City St. and West St. ST, W	\$2,300,000	2023
37	Kellogg Pl. Sanitary Sewer Replacement/51173	Replacement of sanitary sewer and water mains in Kellogg Pl. ST, S, W	\$1,360,000	2023
38	Silverleaf Reconstruction/50837	Reconstruction of Silverleaf Street. ST, W, S, SD	\$1,560,000	2023
37	Wentworth Drive Reconstruction/51039	Reconstruction of Wentworth Dr. ST, W, S, SD	\$1,350,000	2023

## Public Transit

Fiscal Year	Funding Category	County	Location	Type	Federal Funds	State Funds	Local Funds	Total
2019	Federal (Sec 5307)	Pennington	Rapid Transit System	Operating and Capital Assistance for Fixed Route and ADA paratransit service	\$1,229,125.00	\$37,837.00	\$997,004.00	\$2,263,966.00
2019	Federal (Sec 5310)	Pennington / Meade	Various agencies in the Rapid City Metropolitan Planning Area	Passenger vehicles for non-profit agencies that provide services to Seniors and Persons with Disabilities	\$100,916.00	\$0.00	\$20,183.20	\$121,099.20
2019	Federal (Sec 5339)	Pennington	Rapid City Metro	Capital Assistance	\$117,474.00	\$0.00	\$28,640.00	\$146,114.00

2020	Federal (Sec 5307)	Pennington	Rapid Transit System	Operating and Capital Assistance for Fixed Route and ADA paratransit service	\$1,253,708.00	\$37,837.00	\$1,016,994.00	\$2,308,539.00
2020	Federal (Sec 5310)	Pennington / Meade	Various agencies in the Rapid City Metropolitan Planning Area	Passenger vehicles for non-profit agencies that provide services to Seniors and Persons with Disabilities	\$100,916.00	\$0.00	\$20,183.20	\$121,099.20
2020	Federal (Sec 5339)	Pennington	Rapid City Metro	Capital Assistance	\$117,474.00	\$0.00	\$28,640.00	\$146,114.00

2021	Federal (Sec 5307)	Pennington	Rapid Transit System	Operating and Capital Assistance for Fixed Route and ADA paratransit service	\$1,278,782.00	\$37,837.00	\$1,037,283.00	\$2,353,902.00
2021	Federal (Sec 5310)	Pennington / Meade	Various agencies in the Rapid City Metropolitan Planning Area	Passenger vehicles for non-profit agencies that provide services to Seniors and Persons with Disabilities	\$100,916.00	\$0.00	\$20,183.20	\$121,099.20
2021	Federal (Sec 5339)	Pennington	Rapid City Metro	Capital Assistance	\$117,474.00	\$0.00	\$28,640.00	\$146,114.00

2022	Federal (Sec 5307)	Pennington	Rapid Transit System	Operating and Capital Assistance for Fixed Route and ADA paratransit service	\$1,304,358.00	\$37,837.00	\$1,058,029.00	\$2,400,224.00
2022	Federal (Sec 5310)	Pennington / Meade	Various agencies in the Rapid City Metropolitan Planning Area	Passenger vehicles for non-profit agencies that provide services to Seniors and Persons with Disabilities	\$100,916.00	\$0.00	\$20,183.20	\$121,099.20
2022	Federal (Sec 5339)	Pennington	Rapid City Metro	Capital Assistance	\$117,474.00	\$0.00	\$28,640.00	\$146,114.00

5/3/2017

FAA AIP - 90%

			2016 Projects - AIP 47 CARRYOVER & AIP 48							
TOTAL AIP \$:			CARRY	AIP 48 ENTITLE	DISCRETIONARY	STATE47CARRY	STATE AIP48 5%	STATE DISCRET	AIRPORT	
<b>2016</b>	Proj #	\$	<b>2,776,944</b>	<b>2,776,944</b>			<b>154,275</b>		<b>378,234</b>	
Old Terminal Apron Rehab (Ph 1)	5249	\$	1,867,960	1,681,164			93,398		93,398	
Commercial Apron Rehab	5252	\$	503,504	251,590			13,978		237,936	
SRE Procurement Loader (replace #9)	5246	\$	394,800	355,320			19,740		19,740	
Old Terminal Apron & Commercial Apron CA/CO	5249/5252	\$	242,302	218,072			12,115		12,115	
Old Terminal Apron/Commercial Apron AGIS 18B Survey	5249/5252	\$	27,863	25,077			1,393		1,393	
Old Terminal Apron & Commercial Apron Prelim GeoTech	5249/5252	\$	4,671	4,203			234		234	
Old Terminal Apron & Commercial Apron PostTech	5249/5252	\$	16,497	14,847			825		825	
Terminal Study - Baggage System/Sanitary Sewer	5261	\$	216,413	194,771			10,821		10,821	
SRE Procurement Services	5246/5247	\$	24,386	21,947			1,219		1,219	
Administration	na	\$	11,058	9,952			553		553	
<b>Total Projects</b>		\$	<b>3,309,454</b>	\$ -	\$ <b>2,776,944</b>	\$ -	\$ -	\$ <b>154,275</b>	\$ -	\$ <b>378,234</b>

			2017 Projects - AIP 49							
TOTAL AIP \$:			AIP 49			State 49 5%		AIRPORT		
<b>2017</b>	Proj #	\$	<b>2,152,103</b>				<b>119,561</b>	<b>119,561</b>		
Old Terminal Apron Rehab (Ph 2) Westjet Area	5253	\$	1,306,225	1,175,603			65,311	65,311		
SRE Sander (replace #5)	5248	\$	375,000	337,500			18,750	18,750		
Terminal Design	5265	\$	400,000	360,000			20,000	20,000		
Old Terminal Apron Rehab (Ph 2) CACO/Testing/AGIS	5253	\$	150,000	135,000			7,500	7,500		
Grant Administration, legal, advertise, etc.	NA	\$	10,000	9,000			500	500		
<b>Total Projects</b>		\$	<b>2,241,225</b>	\$ -	\$ <b>2,017,103</b>	\$ -	\$ -	\$ <b>112,061</b>	\$ -	\$ <b>112,061</b>
<b>Carryover</b>				\$ <b>135,001</b>			\$ <b>7,500</b>			

			2018 Projects - AIP 50							
TOTAL AIP \$:			AIP 50+Carry	DISCRETIONARY		State 50 5%+Carry	STATE DISCRET	AIRPORT		
<b>2018</b>	Proj #	\$	<b>10,355,958</b>	<b>2,301,441</b>	<b>8,054,517</b>		<b>127,858</b>	<b>447,473</b>	<b>555,500</b>	
Terminal-Baggage, Escalators, Sewer-Construction	5262-5264	\$	10,000,000	2,166,440	6,833,560		108,027	391,973	500,000	
Terminal-Baggage, Escalators, Sewer-CACA/AGIS	5262-5264	\$	500,000		450,000			25,000	25,000	
Rehabilitate Hangar Taxilanes	5244	\$	150,000	135,000			7,500		7,500	
Grant Administration, legal, advertise, etc.	5262-5264	\$	10,000		9,000			500	500	
<b>Total Projects</b>		\$	<b>10,660,000</b>	\$ -	\$ <b>2,301,440</b>	\$ <b>7,292,560</b>	\$ -	\$ <b>115,527</b>	\$ <b>417,473</b>	\$ <b>533,000</b>
<b>Carryover:</b>		\$	\$ -	\$ -	\$ <b>761,957</b>	\$ -	\$ -	\$ <b>30,000</b>	\$ <b>22,500</b>	

			2019 Projects - AIP 51							
TOTAL AIP \$:			AIP 51			State 51 5%		AIRPORT		
<b>2019</b>	Proj #	\$	<b>2,166,440</b>	<b>2,166,440</b>			<b>120,358</b>	<b>120,358</b>		
GA Access Road	5226	\$	1,191,400	1,072,260			59,570	59,570		
Re-Align Longview Road (Precision App. Rwy 14)	5227	\$	1,737,000	1,563,300			86,850	86,850		
Taxiway A Rehabilitation	5228	\$	600,000	540,000			30,000	30,000		
Grant Administration, legal, advertise, etc.	NA	\$	10,000	9,000			500	500		
<b>Total Projects</b>		\$	<b>3,538,400</b>	\$ -	\$ <b>3,184,560</b>	\$ -	\$ -	\$ <b>176,920</b>	\$ -	\$ <b>176,920</b>
<b>Carryover:</b>		\$	\$ -	\$ <b>(1,018,120)</b>	\$ -	\$ -	\$ <b>(56,562)</b>	\$ -	\$ <b>(56,562)</b>	

			2020 Projects - AIP 52						
TOTAL AIP \$:			AIP 52	DISCRETIONARY		State 52 5%	STATE DISCRET	AIRPORT	
<b>2020</b>	Proj #	\$	<b>3,691,120</b>	<b>2,166,440</b>	<b>1,524,680</b>		<b>120,358</b>	<b>120,358</b>	
Carryover From 2017				<b>(1,018,120)</b>			<b>(56,562)</b>	<b>(56,562)</b>	
Precision Instrument Approach Runway 14	5229	\$	2,960,000	1,139,320	1,524,680		63,296	84,704	
Grant Administration, legal, advertise, etc.	NA	\$	10,000	9,000			500	500	
<b>Total Projects</b>		\$	<b>2,970,000</b>	\$ -	\$ <b>1,148,320</b>	\$ -	\$ <b>63,796</b>	\$ <b>84,704</b>	\$ <b>148,500</b>
<b>Carryover:</b>		\$	\$ -	\$ <b>(70)</b>	\$ -	\$ -	\$ -	\$ <b>(84,704)</b>	\$ <b>(84,704)</b>

**City of Box Elder 2018 - 2023 CIP**

**5/1/2018**

Project Name			Project Year	Total Estimated Project Cost
1	PWS-4-2018	East Mall Drive	2018-2019	\$7,595,000.00
2	PWP-1-2018	Memorial Park Baseball Field Upgrades	2018	\$250,000.00
3	PWW-1-2018	Water System Upgrades, VRC Water	2018	\$405,000.00
4	PWSS-1-2018	Sewer System Upgrades: VRC Sewer Extension	2018	\$150,000.00
5	PWSS-2-2018	Westgate Sanitary Sewer Lift Station upgrade	2018	\$100,000.00
6		Elk Vale Road Study	2018	\$11,000.00
7	PWS-2-2018	Gravel Street Project	2018	\$180,000.00
8	PWS-3-2018	Chip Seal Radar Hill Road and re-stripe	2018	\$140,000.00
9	PWS-1-2018	Fillets and pans - Prairie View Sub.	2018	\$75,000.00
10	PWS-5-2018	Street striping (other than Radar Hill Road)	2018	\$15,000.00
11		Ellsworth Rd./Prairie Rd./225th-Liberty Traffic Study	2018	\$50,000.00
12	PWW-2-2018	Water Connection (Main Loop) 150th and Radial	2018	\$20,000.00
13	PWS-1-2019	City Hall Parking Lot Expansion	2019	\$400,000.00
14	PWS-2-2019	Degeest Rail Crossing	2019	\$1,500,000.00
15	PWSS-1-2019	Camera all Sanitary Sewer Lines/north of Box Elder Rd.	2019	\$200,000.00
16	PWS-3-2019	Concrete street repair Creekside/Thunderbird Sub.	2019	\$50,000.00
17	PWS-4-2019	Crack sealing (City wide)	2019	\$20,000.00
18	PWW-1-2019	New Well	2019	\$2,500,000.00
19	PWS-5-2019	Gravel Street Reconstruction	2019	\$150,000.00
20	PWSS-2-2019	Jet Vac. Sewer Mains	2019	\$25,000.00
21	PWST-1-2018	Thunderbird Drainage Engineering Design/Construction	2018-2019	\$280,000.00
22	PWP-1-2019	Parks Master Plan Study	2019	\$40,000.00
23	PWP-2-2019	Memorial Park Baseball Fields Upgrade, Phase 2	2019	\$250,000.00
24	PWB-1-2019	City Hall Upgrades/Remodel Project(S)	2018-2019	\$800,000.00
25	PWS-6-2019	Traffic Study/Design/Construction School system	2018-2019	\$400,000.00
26	PWS-6-2019	Patching and Chip Seal Bennet Road	2019	\$175,000.00

**5/1/2018**

Project Name			Project Year	Total Estimated Project Cost
27	PWS-7-2019	Chip Seal Res. Streets Thunderbird Sub.	2019	\$150,000.00
28	PWS-8-2019	Street striping	2019	\$20,000.00
29	PWSS-2-2020	Camera Thunderbird Sub. Sewer Mains	2020	\$180,000.00
30	PWW-1-2020	Tower Road Water Main Extension	2020	\$1,200,000.00
31	PWW-2-2020	Water Booster Pump/PRV Relocation to Liberty	2020	\$618,000.00
32	PWS-1-2020	Radar Hill Road Rebuild (Bridge 2020)	2020-2021	\$10,000,000.00
33	PWSS-1-2020	Sanitary Sewer I & I Repair	2020	\$500,000.00
34	PW-1-2020	New Public Works Building, Equipment Storage	2020	\$1,800,000.00
35	PWS-2-2020	Chip Seal residential streets (TBD)	2020	\$175,000.00
36	PWS-3-2020	Crack sealing (City wide)	2020	\$15,000.00
37	PWSS-1-2020	Thunderbird Sewer upgrades after cameraing results	2020	??
38	PWS-4-2020	Street striping	2020	\$16,000.00
39	PWP 1-2020	Memorial Park Baseball Field Upgrades, Phase 3	2020	\$250,000.00
40	PWSS-1-2021	East Sanitary Sewer Collector (Westgate to 151st Ave)	2021	\$2,000,000.00
41	PWS-1-2021	Chip sealing residential streets	2021	\$175,000.00

42	PWS-2-2021	Crack sealing (City wide)	2021	\$17,000.00
43	PWW-1-2021	Radar Hill Road Water Main replacement	2021	\$3,108,000.00
44	PWSS-2-2021	Jet Vac Sewer Mains	2021	\$25,000.00
45	PWSS-2-2021	Upsize 14/16 Sewer Main to East Mall (Phase 1)	2021	\$4,200,000.00
46	PWP-1-2021	Memorial Park Baseball Fields Upgrade, Phase 4	2021	\$300,000.00
47	PWS-1-2022	150th, Liberty to 225th	2022	\$2,000,000.00
48	PWW-1-2022	Complete Creekside to Prairie Main upsizing	2022	\$920,000.00
49	PWSS-1-2022	Upsize 14/16 Sewer Main to East Mall (Phase 2)	2022	\$4,200,000.00
<b>5/1/2018</b>				
<b>Project Name</b>			<b>Project Year</b>	<b>Total Estimated Project Cost</b>
50	PWSS-1-2023	Upsize 14/16 Sewer Main to East Mall (Phase 3)	2023	\$2,700,000.00
51	PWS-1-2023	Radar Hill Road Reconstruction	2023	\$7,000,000.00
			<b>Grand Total of Projects Listed</b>	<b>\$50,350,000.00</b>

**MEADE COUNTY FIVE-YEAR PROGRAMMED PROJECT LISTING**

Project Location	Project Description	Year	Proposed Five-Year Project Funding Information (in thousands of dollars)						Total Project Cost
			(All Dollars in Thousands)						
			Local Funding	Federal Funding	State Funding	Unfunded	Anticipated Grant	Total Funding	
Elk Vale Rd from 225th St at S Co line, N 6 mi to Elk Creek Rd	AC Surfacing	2019	\$ 2,517,000.00					\$ 2,517,000.00	\$ 2,517,000.00
New Underwood Rd from Hwy 34 South 22.5 miles	Chip Seal	2019	\$ 700,000.00					\$ 700,000.00	\$ 700,000.00
Structure No. 47-460-128, 11.8 mi S of Hwy 212 on Stoneville Rd.	Design Engineering	2019	\$ 40,000.00					\$ 40,000.00	\$ 40,000.00
Structure No. 47-549-149, 21.1 mi W & 13.9 mi S of Faith (Pine Creek Rd)	Replace Structure	2019	\$ 400,000.00					\$ 400,000.00	\$ 400,000.00
Erickson Ranch Rd	Full Depth Process in place new 6" base course and 4" asphalt	2020	\$ 2,200,000.00					\$ 2,200,000.00	\$ 2,200,000.00
Alkali Rd from Ft. Meade Way East 5 mi to Titan Rd	2" overlay of existing asphalt	2020	\$ 1,100,000.00					\$ 1,100,000.00	\$ 1,100,000.00
High Meadows Rd Bottom 1 mile	Fix Drainage and replace culverts	2020	\$ 170,000.00					\$ 170,000.00	\$ 170,000.00
Structure No. 47-460-128, 11.8 mi S of Hwy 212 on Stoneville Rd.	Replace Bridge	2020	\$ 80,000.00				\$ 320,000.00	\$ 400,000.00	\$ 400,000.00
New Underwood Rd from Pennington Co. line N 3.1 miles	Reconstruct & New AC Surfacing	2021	\$ 3,750,000.00					\$ 3,750,000.00	\$ 3,750,000.00
Rolling Hills Rd From Nemo Road North 2 mi.	Fix Drainage	2021	\$ 34,000.00					\$ 34,000.00	\$ 34,000.00
Avalanch Rd from Lazelle St to Alder Place	Chip Seal	2021	\$ 30,000.00					\$ 30,000.00	\$ 30,000.00
Whitewood Service Rd from Sturgis City limits to Lawerance County Line	Chip Seal	2021	\$ 16,000.00					\$ 16,000.00	\$ 16,000.00
Blucksburg Rd from Service Rd to Blucksburg entrance	Chip Seal	2021	\$ 17,000.00					\$ 17,000.00	\$ 17,000.00
Pleasant Valley Rd. from Service Rd to I-90	Chip Seal	2021	\$ 60,000.00					\$ 60,000.00	\$ 60,000.00
Stage Stop Rd from I-90 to end of asphalt	Chip Seal	2021	\$ 16,000.00					\$ 16,000.00	\$ 16,000.00
Anderson Rd from Service Rd to end of asphalt	Chip Seal	2021	\$ 30,000.00					\$ 30,000.00	\$ 30,000.00
Peaceful Pines West of I-90, from the Service Rd to end of asphalt	Chip Seal	2021	\$ 65,000.00					\$ 65,000.00	\$ 65,000.00
West Elm and Seaire St. in Black Hawk	Chip Seal	2021	\$ 37,000.00					\$ 37,000.00	\$ 37,000.00
Vanocker Canyon Rd. from Sturgis City limits to Lawerance Co. line	Chip Seal	2021	\$ 350,000.00					\$ 350,000.00	\$ 350,000.00
Engineer North 2.4 miles Ft. Meade Way	PE Engineering	2021	\$ 35,000.00					\$ 35,000.00	\$ 35,000.00
Structure No. 47-370-587, on the New Underwood Rd 3.2 mi N of the Pennington Co. line	Epoxy Chip -Seal	2022	\$ 50,000.00				\$ 200,000.00	\$ 250,000.00	\$ 250,000.00
Structure No. 47-378-444, 5 mile East of Hereford	Epoxy Chip -Seal	2022	\$ 56,000.00				\$ 224,000.00	\$ 280,000.00	\$ 280,000.00
Mnt. Shadows Rd. off of 2nd Street in Piedmont	Chip Seal	2022	\$ 31,000.00					\$ 31,000.00	\$ 31,000.00

Norman Ave. from Peaceful Pines N to end of county asphalt	Chip Seal	2022	\$ 78,000.00					\$ 78,000.00	\$ 78,000.00
Deadwood Ave and Peaceful Pines east of I-90 to Pennington County Line	Chip Seal	2022	\$ 67,000.00					\$ 67,000.00	\$ 67,000.00
Sidney Stage Rd	Full depth reclamation and AS Surfacing	2022	\$ 1,100,000.00					\$ 1,100,000.00	\$ 1,100,000.00
New Underwood Rd form Elk Creek Rd South 4.3 miles	Reconstruct & New AC Surfacing	2022	\$ 3,750,000.00					\$ 3,750,000.00	\$ 3,750,000.00
Avalanch Rd from Alder Pl. N 3 mi to Eden Rd	Reconstruct & New AC Surfacing	2023	\$ 3,200,000.00					\$ 3,200,000.00	\$ 3,200,000.00
Ft. Meade Way from Hwy 34 2.4 miles South	Regrade	2023	\$ 1,000,000.00					\$ 1,000,000.00	\$ 1,000,000.00
Structure No. 47-060-305, 3 mi. E & 12.5 mi. N of Sturgis (130th Ave)	Replace Bridge	2023	\$ 100,000.00				\$ 400,000.00	\$ 500,000.00	\$ 500,000.00
Structure No. 47-110-518, 8 mi. E & 8.8 mi. S of Sturgis (Morris Creek Pl.)	Replace Bridge	2023	\$ 100,000.00				\$ 400,000.00	\$ 500,000.00	\$ 500,000.00
	<b>TOTALS</b>		\$ 21,179,000.00	\$ -	\$ -	\$ -	\$ 1,544,000.00	\$ 22,723,000.00	\$ 22,723,000.00

**Local Funding Includes:** Match on BIG funding, traditional BRO & BRF projects, TAP projects, etc., and some shortfalls/balances on misc. projects. Also STP Payout funds.

**Federal Funding Includes:** 100% of Signing & Delineation projects, and approx. 80% of STP, BRO, BRF, and TAP projects. Federal portion of ER/FEMA projects.

**State Funding Includes:** 80% of awarded BIG projects and approx. 20% match on STP projects.

**Anticipated Grant (BIG):** 80% of total



**TRANSPORTATION IMPROVEMENT PLAN  
FOR PENNINGTON COUNTY  
2019-2023**

Year	Project	PCEMS	Length	Location	Type of Improvement	Estimated Cost	Unorg Road Reserves	Rd & Brdg Unobligated Reserves	Federal Bridge Funds	Federal Priority or Safety Funds	STP Funds	Rd & Brdg	Total Funding
2019	BRF 6403(09) SN 52-162-272	02JT	0.2	Structure 0.6W & 0.1S of Rochford over Rapid Creek SN 52-162-272	30' Concrete Arch, MSE End Walls, New Alignment	\$400,000			\$320,000			\$80,000	\$400,000
2019	17-2375 / CIP 50437		1.0	Deadwood Ave. from Meade County line to the Rapid City Limits	Reconstruction and removal of a curve. Joint project with the City of Rapid City	\$1,200,000						\$1,200,000	\$1,200,000
2019	PH 6730(01)	01DJ	2.7	Box Elder-Pennington Co Rd 14-16, from exit 63 East to end of the divided section East of Ellsworth Rd	Reconstruct intersection of 1416 and Gumbo Road (Radar Hill Road) Grading and Asphalt Surfacing and Light	\$3,366,000		\$337,000		\$3,029,000			\$3,366,000
2020	PH8041(20)	05F8	0.6	Nemo Rd - Pennington and Meade County	Curve correction from broken-back curve to simple curve - Safety Project - Guardrail updates and signing	\$3,482,000		\$348,200		\$3,133,800			\$3,482,000
2020 - 2021	EM-BRF 6403(6)	00CL	9.5	South Rochford Road from Rochford south to end of Deerfield Road asphalt	PE, Grading, Base Course, & Asphalt Concrete, (Total = \$10.4; EM 85% = 7.65 Local Funds = \$2.75	\$12,000,000		\$3,040,000		\$8,960,000			\$12,000,000
2020 - 2021	P 6480(4)	5777	9.7	Sheridan Lake Road from Jct US385 to Alberta Drive	PE, Grading, Base Course, C&G, AC Surfacing (Total = \$8.5; STP/State = \$3.0; Local Funds = \$5.5)	\$20,000,000		\$7,000,000			\$13,000,000		\$20,000,000
2022	STRUCTURE REPLACEMENT			Structure 51-837-220 Trask Road	Bridge replacement	\$400,000						\$400,000	\$400,000
2022	STRUCTURE REPLACEMENT			Structures 51-953340 and 51-952-341 Paulson Road	Bridge replacements	\$900,000						\$900,000	\$900,000
2023	NEW UNDERWOOD ROAD RECON.		0.6	On CR 160 starting at Meade County Line going South 0.6 miles	Realignment and removal of curves in the road. Grading and Asphalt surfacing. Joint Project with Meade County	\$800,000						\$800,000	\$800,000
Totals:						\$42,548,000	\$0	\$10,725,200	\$320,000	\$15,122,800	\$13,000,000	\$3,380,000	\$41,748,000



# Attachment 2 Rapid City Area Metropolitan Planning Organization

## CERTIFICATION














I hereby certify and approve that the Rapid City Area Transportation Study Area Boundary depicted hereon was established by the Executive Policy Committee of the Rapid City Area Metropolitan Planning Organization and local officials in cooperation with each other pursuant to the Moving Ahead for Progress in the 21st Century (MAP-21) of July 2012.

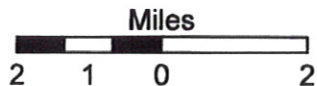
*W. Bryant* 7/10/12  
Secretary SD Department of Transportation Date

## APPROVAL

*Nancy J. Trautman* 6/13/13  
Executive Policy Committee Chair Date  
Rapid City Area Metropolitan Planning Organization

## Legend

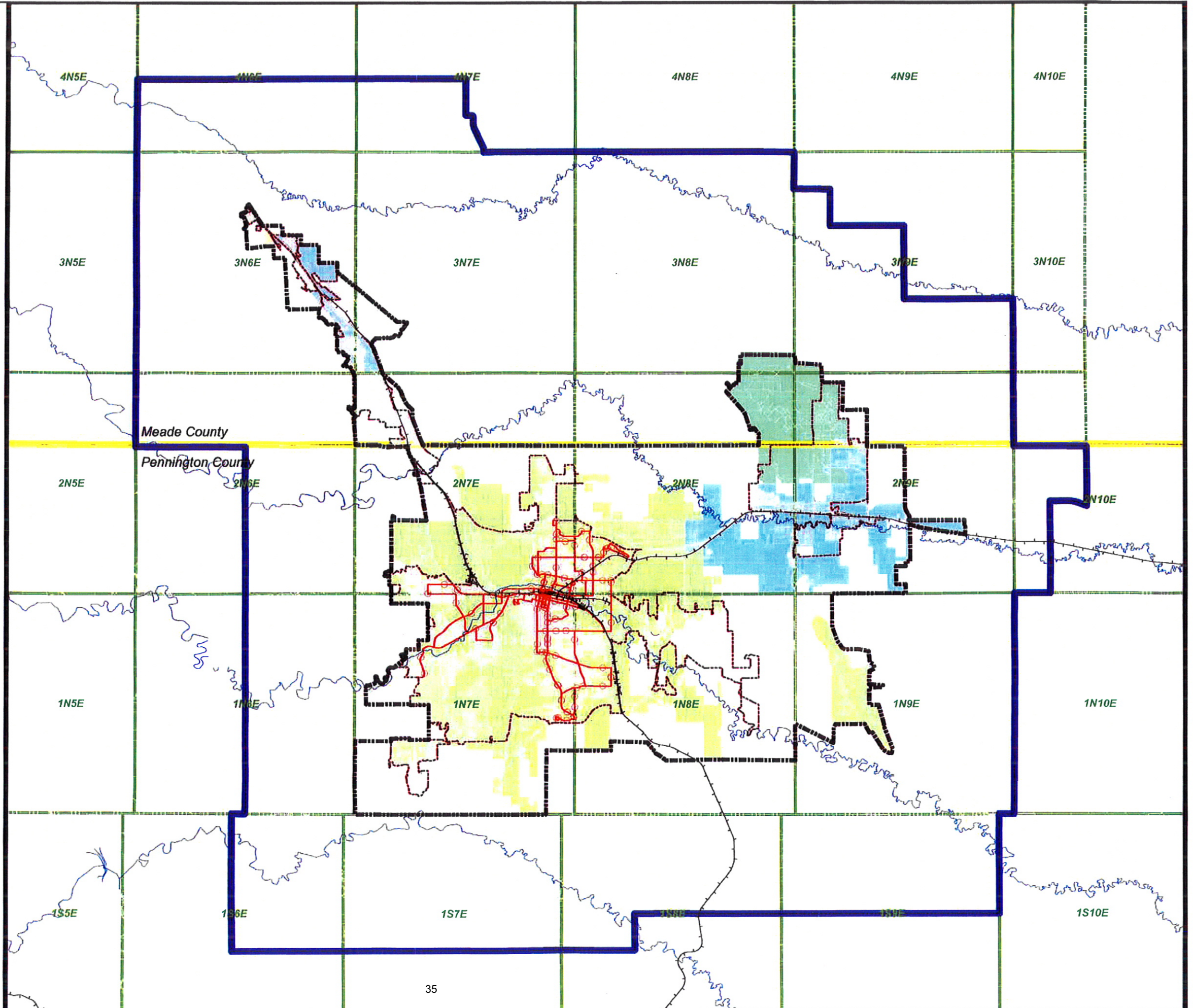
-  MPO Boundary 2013
-  FHWA Urbanized Area 2013
-  Census Urban Boundaries 2010
-  Box Elder City Limits
-  Ellsworth AFB Limits
-  Piedmont City Limits
-  Rapid City Limits
-  Summerset City Limits
-  Townships
-  Roads
-  Transit Routes
-  Railroads
-  Rivers



June 2013

## Disclaimer

This GIS Data is provided "as is" without warranty of any representation of accuracy, timeliness, or completeness. The burden for determining accuracy, completeness, timeliness, merchantability, and fitness for or the appropriateness for use rests solely on the user. Rapid City, Pennington County and Meade County make no warranties, express or implied, as to the use of the Data. There are no implied warranties of merchantability or fitness for a particular purpose. The user acknowledges and accepts the limitations of the Data, including the fact that the data is dynamic and is in a constant state of maintenance, correction, and update.





**Rapid City Metropolitan Planning Organization  
Guidelines for Non-Transit Administrative Amendments and Revisions to  
The Rapid City MPO Transportation Improvement Program (TIP)**

**Revising an Approved TIP:**

The TIP may be revised at any time. A formal TIP revision will be required for any new projects added during the course of the year, project limit changes, change in type of work, etc. Projects within the Metropolitan Planning Organizations (MPO) established Metropolitan Planning Area Boundaries require both a TIP and STIP revision. A TIP revision is any change to the project listings, and/or funding tables in an existing TIP. Revisions require federal approval. A major STIP/TIP revision will require additional public involvement prior to FHWA approval. The MPO's public involvement process will be sufficient for metropolitan area TIP revisions. SDDOT will e-mail a STIP/TIP revision to FHWA requesting approval of the addition or change made and stating the source of funding to maintain a balanced STIP/TIP. Cost changes made to the second, third and fourth year of the TIP will be balanced during the TIP update process.

A revision to the TIP is:

- a. Adding a new project or phase(s) to the TIP, not programmed in the previously approved TIP
- b. Increasing the Federal Funds by more than 100% of the total project cost (minimum of \$100,000 change). Any cost increase over \$3.0 million requires a TIP revision.
- c. A change in funding source from 100% non-federal funds to partial or fully-funded with Federal funds.
- d. A change in funding sources across modes for existing projects in the TIP (the funding for a project change from transit to STP or vice versa).
- e. A major scope change for a project including: major changes in type of work, length, or project termini that changes the intent of the project.

**Administrative Amendments to an Approved TIP:**

An administrative amendment to the TIP does not require public involvement or FHWA approval. The TIP administrative amendment process consists of notification to all involved parties of the latest changes to the TIP. SDDOT Project Development staff will notify the FHWA by e-mail showing the change made.

An Administrative Amendment to the TIP is:

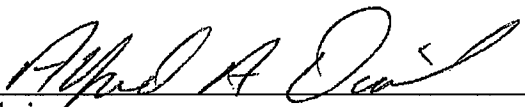
- a. Shifting funds within TIP project categories or Federal funding categories without a change in total program TIP funding amounts.

## APPENDIX A

- b. Increases in the Federal funds less than \$100,000 and cost increases less than 100% of the total project cost. Any cost increase over \$3.0 million requires a TIP revision.
- c. Obvious data entry errors.
- d. Splitting or combining projects already in the program, with no change in overall project schedule or funding.
- e. Changes or clarifying elements of a project description, with no change in project funding. This change would not alter the original project intent.
- f. Movement of a project or phase thereof within the first four years of the approved TIP.
- g. A change in funding source from partial or fully-funded with Federal funds to 100% non-federal funds.
- h. Cost increases for 100% state or local funded projects do not require an amendment, regardless of the State/local source.

Modification of existing STIP/TIP projects in order to make STIP/TIP documents match, provided the modification involves minor changes in the scope or funding of a project as provided by this section.

The STATE and the MPO share the right to terminate these guidelines upon a thirty (30) day written notice by either party to the other party.

Approved by:   
Chairman  
Executive Policy Committee  
Rapid City Metropolitan Planning Organization

Date: 7-9-2009

Approved by:   
Joel Jundt  
Division of Planning and Engineering  
South Dakota Department of Transportation

Date: 8/7/09

**Appendix B**  
**Metropolitan Transportation Planning Self-Certification**  
**For the Rapid City Area Metropolitan Planning Organization (RCAMPO)**  
**Fiscal Year 2019-2022**

The following is to demonstrate and resolve that the Rapid City Area Metropolitan Planning Organization's transportation planning process meets all applicable requirements of Self Certification Process (23 CFR 450.334).

**1. Metropolitan Planning Organization (MPO)** (*Ref: 23 USC 134(b) and 23 CFR 450.306*)

Describe the Entity Designated as the MPO

The Rapid City Area Metropolitan Planning Organization is an association of local and state governments made up the City of Rapid City, the City of Box Elder, Pennington County and Meade County. The South Dakota Department of Transportation (SDDOT), Ellsworth Air Force Base, the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA) and the local school districts also participate. The hosting agency that provides staff and all administrative support to the Metropolitan Planning Organization is the City of Rapid City.

**2. Geographic Scope** (*Ref: 23 USC 134(c) and 23 CFR 450.308*)

Describe the Physical Boundaries/Provide a Map

The Rapid City Urbanized Area includes the lands within the City of Rapid City urban growth boundary and the densely populated adjoining areas of Pennington and Meade Counties. The area is shown in the attached map.

**3. Agreements** (*Ref: 23 USC 134(d) and 23 CFR 450.310*)

*A. Agreements in force among the participating agencies relative to the transportation planning process include:*

1. Intergovernmental Agreement for the Purpose of Establishing the Rapid City Area Metropolitan Planning Organization and Specifying MPO Cooperation with the State Department of Transportation signed in December 2007 by the South Dakota Department of Transportation and the parties in the Rapid City Area Metropolitan Planning Organization;
2. Operations Plan was adopted in December 2016. The Operations Plan outlines the procedures and requirements for adopting transportation products and plans for the Metropolitan Planning Organization.

*B. Agreements between the State and the MPO include:*

1. Annual FHWA and FTA planning funds agreement between SDDOT and City of Rapid City acting as the Rapid City Area Metropolitan Planning Organization;

*C. Agreements between the MPO and other entities include:*

1. Intergovernmental/Interagency Agreement between the Rapid City Area Metropolitan Planning Organization and the City of Box Elder.
2. Intergovernmental/Interagency Agreement between the Rapid City Area Metropolitan Planning Organization and Meade County.

#### **4. Responsibilities, Cooperation and Coordination (Ref: 23 CFR 450.312)**

##### **A. Cooperative Metropolitan Planning Process**

The Rapid City Area Metropolitan Planning Organization member entities, including SDDOT, collaborate in carrying out the requirements of the Metropolitan Transportation Planning Process. The Rapid Transit system is owned by the City of Rapid City, a member of the Rapid City Area Metropolitan Planning Organization. This cooperative process includes city and state participation in the decision-making processes of the Rapid City Area Metropolitan Planning Organization Executive Policy Board, Technical Coordinating Committee (TCC), and the Citizen Advisory Committee (CAC). Rapid Transit is represented on the TCC. SDDOT, FHWA and FTA designate staff to serve on the TCC.

The metropolitan transportation planning process includes:

1. Development and maintenance of a Long Range Transportation Plan (RapidTRIP2040 adopted September 2015)
2. Development and maintenance of a Transportation Improvement Program (TIP)
3. Review of specific transportation and development proposals for consistency with RapidTRIP2040
4. Coordination of transportation decisions among local jurisdictions and state agencies
5. Development of an annual work program

##### **B. Agreed Responsibilities for Development of UPWP, Long Range Transportation Plan, and Transportation Improvement Program**

1. Rapid City staff currently provides Travel Demand Modeling Services for all Rapid City Area Metropolitan Planning Organization related work.
2. The Rapid City Area Metropolitan Planning Organization leads development and maintenance of the Unified Planning Work Program, RapidTRIP2040, and Transportation Improvement Program. This work is coordinated with all of the Rapid City Area Metropolitan Planning Organization agencies.

#### **5. Metropolitan Transportation Planning Products**

##### **A. Unified Planning Work Program (Ref: 23 CFR 450.314)**

The purpose of the Unified Planning Work Program is to describe the annual activities, planning studies, and products to be developed by the Metropolitan Planning Organization over a year time. The Unified Planning Work Program identifies who will be involved with the work tasks and the anticipated product or outcome. The Unified Planning Work Program also identifies funding for these tasks which includes total programmed expenditures for each one. The Metropolitan Planning Organization and its coordinating agencies work together to define work activities which will be performed over the year. The City of Rapid City oversees this work program in accordance with the agreements among the City of Rapid City, the City of Box Elder, Pennington County and Meade County. The South Dakota Department of Transportation (SDDOT), Ellsworth Air Force Base, the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA) and the local school districts also participate in the development of the Unified Planning Work Program as members of the Technical Coordinating Committee.



The tasks in the FY2018 UPWP for the Rapid City Area Metropolitan Planning Organization were developed with input from local entities to ensure all transportation issues within the Rapid City Metropolitan Planning Organization's boundaries were considered.

**B. Long Range Transportation Plan (Ref: 23 USC 134(g) and 23 CFR 450.322)**

The federally compliant RapidTRIP2040 Long Range Transportation Plan was adopted in September 2015.

**C. Transportation Improvement Program (TIP) (Ref: 23 USC 134(h) and 23CFR 450.23 & 26)**

The Rapid City Area Metropolitan Planning Organization develops the Transportation Improvement Program in cooperation and coordination with all of the members of the Rapid City Area Metropolitan Planning Organization. The Rapid City Area Metropolitan Planning Organization will coordinate its prioritization process and its list of transportation project priorities with SDDOT.

**6. Planning Emphasis Areas**

The Rapid City Area Metropolitan Planning Organization planning process addresses the FHWA/FTA planning emphasis areas in all projects and policies. The following is a description of these considerations, and a brief explanation of how the factors will be addressed.

**A. *Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency***

It is among the goals of the Rapid City Area Metropolitan Planning Organization's transportation planning activities to support the economic vitality of the Rapid City Urbanized Area and beyond. The Rapid City Urbanized Area is the economic hub of the Black Hills region. Rapid City Area Metropolitan Planning Organization's transportation planning activities are to facilitate the movement of people and goods which is the key in promoting economic activities.

**B. *Increase the safety of the transportation system for motorized and non-motorized users***

The safety of the transportation system was among the criteria used by the Rapid City Area Metropolitan Planning Organization in prioritizing transportation projects for funding. The Rapid City Area Metropolitan Planning Organization prepares an annual Pedestrian/Bicycle Crash Report to identify high crash areas for pedestrians and bicyclist. The Rapid City Area Metropolitan Planning Organization also developed an Arterial Street Safety Study, which included a review of street segment crash statistics, identification of street segments exceeding the statistical critical rate, and recommendations to reduce crashes based on analysis of crash types. Some of the recommendations have been implemented since the completion of the study.

**C. *Increase the security of the transportation system for motorized and non-motorized users***

The security of the transportation system was among the criteria used by the Rapid City Area Metropolitan Planning Organization in prioritizing transportation projects for funding.

- D. Increase the accessibility and mobility options available to people and for freight**  
It is among the goals of the Rapid City Area Metropolitan Planning Organization's transportation planning activities to increase the accessibility and mobility options of people and freight in the Rapid City Urbanized Area. The Rapid City Area Metropolitan Planning Organization will continue working with local mobility advocacy groups, the cities, and counties to identify opportunities for increasing the accessibility and mobility options of all people in the Rapid City Urbanized Area. Rapid City Area Metropolitan Planning Organization staff has in the Coordinated Human Services Public Transportation Plans.
- E. Protect and enhance the environment, promote energy conservation, and improve quality of life**  
The Rapid City Area Metropolitan Planning Organization transportation planning activities include full consideration of environmental issues.
- F. Enhance the integration and connectivity of the transportation system, across and between modes for people and freight**  
The Rapid City Area Metropolitan Planning Organization transportation planning process is comprehensive and includes all modes of transportation and the mobility needs of all people. Multi-modal and intermodal transportation planning will help provide connectivity across all modes and for all users of the system.
- G. Promote efficient system management and operations**  
The Rapid City Metropolitan Planning Organization approved the ITS Master Plan for Integration Strategies in November 2003. The Rapid City Area Metropolitan Planning Organization will continue to use ITS measures as a means of enhancing the efficiency of existing transportation system and operations.
- The Metropolitan Plan promotes a multi-modal transportation system. This approach will help to maximize transportation efficiency by providing multiple travel options. The ultimate goal will be to reduce the demand on the highway system, which will increase roadway capacity and reduce maintenance costs.
- H. Emphasize the preservation of the existing transportation system**  
Preservation of the existing transportation system is a priority in the Long Range Transportation Plan. Preservation of the existing system was a key consideration while identify future revenues. The estimated costs of preservation were taken "off the top" of the overall funding forecasts. The remaining funds were then allocated to capacity improvements and other non-preservation projects. The Long Range Transportation Plan devotes a large portion of available funds to the maintenance and preservation of existing transportation system.
- I. Coordinate with State DOT consultation efforts with non-metropolitan local officials**  
The adopted Rapid City Area Metropolitan Planning Organization Unified Planning Work Program contains tasks to coordinate transportation issues and activities with SDDOT.
- J. Enhance the technical capability of the transportation planning processes**  
The Rapid City Area Metropolitan Planning Organization programs funds in the Unified Planning Work Program and Transportation Improvement Program to upgrade the travel

demand model, update the underlying travel data by participating in joint surveys, and provide training opportunities for staff.

**K. *Linking the NEPA and planning processes***

The RapidTRIP 2040 Long Range Transportation Plan includes environmental considerations that identify known historical, cultural, archeological, and natural resources. This amendment also identifies potential mitigation activities. The data in this amendment will help improve the project development process and hopefully speed project delivery.

**L. *Coordination and provision of Human Service and Transportation Disadvantaged Services (ADA, Elderly, and Disabled)***

Metropolitan Planning Organization staff and local transit service providers began working in 2007 to develop a coordinated human services transportation plan. A plan was completed in October 2007, updated in 2013, and is currently being updated for 2018. The goal of this project was to develop and implement a public transportation plan for the Rapid City Urbanized Area with a particular focus on providing access to critical services for lower income residents, seniors, and other special needs populations. The Rapid City Area Metropolitan Planning Organization has been involved in that effort to ensure the continued availability of federal transportation funds.

**7. *Public Involvement (Ref: 23 CFR 450.316(b))***

**Rapid City Area Metropolitan Planning Organization Public Participation Plan**

The Rapid City Area Metropolitan Planning Organization adopted a MAP-21 compliant public participation plan in November 2016. This plan serves as the statement of transportation public participation policies adopted by the Rapid City Area Metropolitan Planning Organization. Participation of the public in transportation planning activities is vitally important to the Rapid City Area Metropolitan Planning Organization. The emphasis of the adopted policies in this report is on regional system planning products regularly produced in the transportation planning process. Various techniques will selectively be used to provide information and solicit public comment. Some examples of public participation activities are briefly described below.

- A. Newspaper Advertisements
- B. Web Site
- C. Articles
- D. Press Releases
- E. Flyers
- F. TV/Radio
- G. Public Service Announcements
- H. Interviews
- I. Community Forums
- J. Public Meetings
- K. Public Hearings
- L. Group Presentations
- M. Advisory Committee

**8. *Title VI (Ref: Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21)***

Title VI of the Civil Rights Act of 1964 states that “no person in the United States shall, on the grounds of race, color or national origin be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal

financial assistance” [42 USC 2000d]. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority and Low-Income Populations, was signed by President Clinton on Feb. 11, 1994 and published in the Feb. 16, 1994 Federal Register, Vol. 59, No. 32. The Executive Order and accompanying memorandum reinforced the requirements of Title VI of the Civil Rights Act of 1964 that focus federal attention on the environmental and human health condition in minority and low-income communities. Together these two laws promote non-discrimination in federal programs affecting human health and the environment, and provide minority and low income communities access to public information and an opportunity to participate in matters relating to transportation and the environment.

Through the regional planning process, the Metropolitan Planning Organization and partner agencies will thoroughly analyze the three fundamental environmental justice principles. The principles are:

- To avoid, minimize or mitigate disproportionately high and adverse human health or environmental effects, including social and economic effects of programs, policies and activities on minority populations and low-income populations;
- To ensure full and fair participation by all potentially affected communities in the transportation decision-making process; and
- To prevent the denial of, reduction of, or significant delay in the receipt of transportation benefits by minority and low-income populations.

The Metropolitan Planning Organization staff developed a Title VI Policy that was adopted in 2012 to ensure compliance with the Civil Rights Act of 1964 and to provide the public with procedures to request assistance in addressing any issues that may surface. Additionally, the Metropolitan Planning Organization’s public participation plan addresses the full and fair participation of all populations.

**9. Disadvantage Business Enterprise (DBE)** (*Ref: Section 1101(b) of Pub. L. 109-59, 49 CFR part 26*)

The Rapid City Area Metropolitan Planning Organization shows a good faith effort to solicit Disadvantage Business Enterprises (DBEs) when procuring assistance from private contractors. The Rapid City Area Metropolitan Planning Organization awards an additional five points out of 100 points to private contractors who are DBEs or have a DBE subcontractor. It is the policy of Rapid City Area Metropolitan Planning Organization to ensure no discrimination on the basis of race, color, creed, national origin, sex, or age in any employment or business opportunity.

**10. Americans with Disabilities Act (ADA)** (*Ref: Americans with Disabilities Act of 1990, Pub. L. 101-366, 104 Stat. 327, as amended, and 49 CFR 27, 37, and 38*)

The Americans with Disabilities Act of 1990 (ADA) requires involving persons with disabilities in the development and improvement of transportation services. Planners, engineers, and builders must provide access for the disabled at sidewalks and ramps, street crossings, and in parking or transit access facilities. Persons with disabilities must also be able to access the sites where public participation activities occur as well as the information presented. The Metropolitan Planning Organization’s public participation plan addresses the Americans with Disabilities Act.

Rapid City Area Metropolitan Planning Organization public meetings are held in places accessible to people with disabilities. The Rapid City Area Metropolitan Planning Organization office is located in an accessible building.

- 11. Air Quality** (*Ref: 40 CFR 51; OAR 340-2-710 through 340-20-1080*)
- A. Regional Air Quality Status of the Rapid City Area Metropolitan Planning Organization Area  
 The Rapid City Urbanized Area is not in violation of EPA’s National Ambient Air Quality Standards (NAAQS). The area, therefore, is not designated nonattainment for any of the Air Quality Criteria Pollutants.
- B. Describe Conformity Status of the Rapid City Area Metropolitan Planning Organization Plan and TIP  
 According to the Clean Air Act Amendments (CAAA) of 1990, the Rapid City Urbanized Area is not required to demonstrate Air Quality Conformity of its transportation plans, programs and projects to the State Implementation Plan.
- 12. Lobbying Prohibition** (*Ref. 49 CFR 20*)  
 The funding agreement and all contracts with the Rapid City Area Metropolitan Planning Organization include language regarding breach of any federal statutes, rules, program requirements and grant provisions applicable to the federal funds. Through approval of that agreement, the Rapid City Area Metropolitan Planning Organization agrees to follow all applicable rules.
- 13. Employment & Business Opportunity Discrimination** (*Ref. 49 USC 5332*)  
 The federal code states: A person may not be excluded from participating in, denied a benefit of, or discriminated against under, a project, program, or activity receiving financial assistance under this chapter because of race, color, creed, national origin, sex, or age.
- It is the policy of Rapid City Area Metropolitan Planning Organization to ensure no discrimination on the basis of race, color, creed, national origin, sex, or age in any employment or business opportunity.
- 14. Equal Employment Opportunity - Federal Aid Construction Projects** (*Ref. 23 CFR part 230*)  
 This requirement is not applicable to the Rapid City Area Metropolitan Planning Organization. The Rapid City Area Metropolitan Planning Organization is a planning organization and does not construct projects.
- 15. Older Americans Act** (*Ref. 42 USC 6101*)  
 The federal code states: It is the purpose of this chapter to prohibit discrimination on the basis of age in programs or activities receiving Federal financial assistance.
- It is the policy of Rapid City Area Metropolitan Planning Organization to ensure no discrimination on the basis of age. The Metropolitan Planning Organization’s public participation plan addresses the full and fair participation of all populations.
- 16. Gender Discrimination** (*Ref. Section 324 of title 23 USC*)  
 The federal code states: No person shall on the ground of sex be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal assistance under this title or carried on under this title.
- It is the policy of Rapid City Area Metropolitan Planning Organization to ensure no discrimination on the basis of sex. The Metropolitan Planning Organization’s public participation plan addresses the full and fair participation of all populations.

**17. Discrimination Against Individuals with Disabilities** *(Ref. 29 USC 794 and 49 CFR part 27)*

The federal code states: No otherwise qualified individual with a disability in the United States, as defined in section 705 (20) of this title, shall, solely by reason of her or his disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance or under any program or activity conducted by any Executive agency or by the United States Postal Service.

It is the policy of Rapid City Area Metropolitan Planning Organization to ensure no discrimination occurs on the basis of disability. The Metropolitan Planning Organization's public participation plan addresses the full and fair participation of all populations.