



243 High Street Room 110  
Morgantown, WV 26505  
(304) 291-9571  
[www.plantgether.org](http://www.plantgether.org)

### Agenda

MPO Policy Board Meeting  
City of Morgantown  
389 High Street  
October 20, 2016  
6:00 PM

1. Call To Order
2. Public Comment
3. Approval of Minutes
4. Reports
  - a. Citizens Advisory Committee Report
  - b. Finance Report
  - c. Executive Directors Report
    - i. Metropolitan Transportation Plan Update
    - ii. MPO Office Move
    - iii. Travel Activities
5. Transportation Improvement Program Amendments
6. I-79 Access Study Update
7. Other Business
8. Meeting Adjournment



243 High Street Room 110  
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### Memorandum

Date: October 13, 2016  
To: Policy Board Members  
From: Bill Austin, AICP  
Subject: October 20, 2016 Policy Board Agenda

Policy Board members please find below a short description of the items to be considered at the Policy Board meeting to be held October 20<sup>th</sup> in the City of Morgantown's Council Chambers 389 Spruce Street at 6 pm.

**-Finance Report-**Please find enclosed with the agenda the finance reports for the months of August and September 2016. The MPO had expenditures of \$58,233 during those two months.

**-TIP Amendments-**The Division of Highways has requested that the TIP be amended to include the following projects:

#### **FY 2017 Add**

-North Central Rail Trail Map Update-Update and print Trail Brochure-Federal Project Number NRT (FHWA Trails program) NRT2015244D Total Cost \$26,000 Federal Funds \$20,800

-Mon River Trail Map-Develop and Print Trail Map-Federal Project Number NRT2015250D Total Cost \$26,800 Federal Funds \$21,440

The TTAC unanimously respectfully recommended approval of this TIP Amendments to the MPO's Policy Board.

**-I-79 Access Study Update-**Please find enclosed for your information the handout for the October 11<sup>th</sup> I-79 Access Study public meeting. There were approximately 54 attendees at this public meeting. Staff should be able to provide a synopsis of the comments received from the public at the Policy Board meeting.

**MORGANTOWN MONONGALIA**  
**METROPOLITAN PLANNING ORGANIZATION POLICY BOARD**  
**AUGUST 18, 2016 MINUTES**

**Members Present:** Chairman Eldon Callen-Monongalia County, Vice Chairman Mayor Herman Reid-Star City, Brian Carr-WV DOH, Mayor Marti Shamberger-City of Morgantown, Commissioner Tom Bloom-Monongalia County, Mike Kelly-Board of Education, Dave Bruffy-Mountain Line, Councilperson Jennifer Selin-City of Morgantown, Treasurer Mayor Patricia Lewis-Granville, Randy Hudak-WVU, Councilperson Wesley Nugent-City of Morgantown, Commissioner Edward Hawkins-Monongalia County, Councilperson Janice Goodwin-City of Westover

**Members Absent:** Delegate Joe Statler-Blacksville

**MPO Director:** Bill Austin

**1. Call to Order**

Without a quorum present, Mayor Lewis called the meeting to order at 6:02 PM.

**2. Public Comment**

None

**3. Approval of Minutes**

Chairman Callen introduced the approval of the Minutes for the June meeting. Mayor Reid moved approval of the minutes; seconded by Mayor Shamberger. With no discussion, the motion unanimously passed.

**4. Reports**

*a. Citizens Advisory Committee Report*

Bill Rice, the Chairman of the Citizens Advisory Committee, noted that the CAC did not have a quorum in the last meeting. The committee discussed the proposed TIP Amendments, Metropolitan Transportation Plan Update project, and the status of the I-79 access study. Mr. Rice then commended the video of University Ave Complete Street Study, which illustrates many of the projects recommended by the Study. Speaking as a member of the Morgantown Utility Board, Mr. Rice noted that the Van Voorhis drainage project was completed ahead of schedule and under the budget. He praised the close collaboration among the City, DOH, and MUB, and encouraged a continuing partnership among relevant entities to solve drainage issues across the region. Chairman Callen concurred with Mr. Rice.

*b. Finance Report*

Mayor Lewis presented the MPO's activities as the following:

-- Beginning balance in June \$36,739.93 with expenditures of \$44,947 and two deposits of \$28,089.30, leaving a balance of \$19,881.75 at the beginning of July.

-- Beginning balance in June \$19,881.75 with expenditures of \$44,947 and three deposits of \$59,298.81, leaving a balance of \$59,321 at the beginning of August.

Mr. Bruffy moved to accept the April and May Finance Report; seconded by Mayor Shamberger. With no discussion, the motion unanimously passed.

*c. Executive Directors Report*

i. I-79 Access Study Update

Mr. Austin noted that the consultant has completed travel demand modeling update and identified 13 alternatives to address traffic congestion across the region. The consultants eliminated 4 alternatives due to obvious inefficacy. Mr. Austin then noted that the consultants and MPO staff conducted a detailed technical assessment, evaluating each viable alternative based on criteria developed by the steering committee. Mr. Austin expressed his appreciation to Mr. Bruffy for his valuable inputs to this technical assessment. Mr. Bruffy noted that the evaluation process had been very thorough. Mr. Austin then noted that the results will be reviewed by the steering committee and stakeholder's committee in September. A public meeting will be held in October.

ii. Transportation Plan Update

Mr. Austin noted that the steering committee the 2016 Metropolitan Transportation Plan Update includes members from the TTAC and CAC. It also include representatives for the interest of low-income population, minority population, environmental protection, and local businesses. The MPO staff is preparing for community outreach in September and October for this project.

Mr. Austin then noted that due to a budget surplus for the project, the DOH is exploring the possibility of adding more amenities to the Van Voorhis project. Mr. Austin also noted that the DOH has completed 30% of of the design for the intersection improvement project at Greenbag Rd and WV 7. The DOH is actively seeking input from the community on the Collins Ferry/University Ave intersection project.

Mr. Austin noted that he plans to take a vacation from September 9 to 13 and to attend the 2016 WV DOH/MPO/FHWA planning conference from September 19 to 22.

Councilperson Selin asked if the chamber of commerce was invited to participate in the Transportation Plan Update process. Mr. Austin noted the chamber of commerce was invited. Selin also expressed her appreciation to the DOH on the Van Voorhis project.

**5. Informational Update on University Avenue and Collins Ferry Intersection Project**

Mr. Austin noted that the project at University Ave-Collins Ferry Rd intersection was originally recommended in 2013. DOH staff then presented five alternatives to improve the intersection. The Board members were informed about the advantages and disadvantages of each alternative.

**6. Resolution of Support for WV Association of MPO**

Mr. Austin noted that the West Virginia Association of MPO recently held a visioning session in Morgantown to determine the steps it would like to take over the next five years. In developing the Association's Action Plan, each MPO's representatives agreed that they would request a Resolution of Support for the Association from their Policy Board's. It is respectfully requested that the Board adopt the enclosed Resolution to be forwarded to the MPO Association's Chairman. Mayor Reid moved to adopt the Resolution of Support for the Association; seconded by Councilperson Selin. With no discussion, the motion unanimously passed.

## **7. MPO Office Move**

Chairmen Callen noted that the MPO is planning to move to the Court House on High Street. The MPO will continue to be collocated with the County's Planning office and Floodplain Administrator's office. Chairmen Callen noted that these agencies have been sharing a lot of resources for years. Commissioner Bloom moved to approve the MPO's move, seconded by Councilperson Selin. With no discussion, the motion unanimously passed.

## **8. University Avenue Complete Streets Study Video**

Jing Zhang, a transportation planner of the MPO, presented a video developed by the consultants of the University Ave Complete Street Study. The video illustrates many projects proposed by the study. Mr. Zhang also presented the new MPO website that is to be publicized in September. The website includes enhanced graphics and transportation planning related information that was not provided before.

## **9. Other Business**

Commissioner Bloom asked about the role of the MPO in the Falling Run Senior Housing project. Mr. Austin noted that the project is proposing a senior housing development with an access to WV 705 at the west of the roundabout on Mileground Rd. The project manager approached the MPO for comments on this development. Mr. Austin then noted that the DOH is considering a right-in-right-out three-way intersection for the new access, which will minimize the potential interference to the traffic flow on WV 705. Mr. Austin noted that he agrees with the DOH and added that from the perspective of a transportation professional, the project will have minimal impact on WV 705 only if the left-turns are prohibited to/from the WV 705. Mr. Austin also noted that the project could provide additional connections between Stewarts Street and N. Willey Street.

Commissioner Bloom noted that this is a major development in the area and he is very concerned with the traffic burden that the development may impose on the adjacent streets, particularly when left-turns are prohibited to/from the WV 705. He suggested that this transportation problem be resolved before any decisions to be made in Charleston. He also noted that the Board should consider if this project will have a long term impact on the transportation system in the region.

Chairman Callen noted that the Board could proceed to discuss this issue unless there is any rejection.

Councilperson Selin noted that the Board should be provided with more information on this issue before any discussion. Mayor Reid and Mayor Shamberger concurred. Mr. Kelly noted that more information is needed on this issue and the Board should first decide if the issue is within the purview of the MPO.

Councilperson Selin then noted that the Board should be aware of the MPO's scope of authority when handling this issue. Mr. Bruffy noted that even if this project does not involve any federal funding, it makes no harm to discuss it and to send a letter to the DOH, stating the concerns from the MPO and suggesting that the MPO is capable of providing them with input from the community. Mr. Carr noted that discussing the traffic impact of the development will set an undesirable precedent that the MPO be directly involved with a DOH's site impact analysis of a site development for a housing project. Mr. Rice noted that if this issue moves to the next meeting, the CAC and TTAC will have the opportunity to provide their inputs. He also noted that the project is complicated as it involves several property owners.

Chairman Callen asked if there is any other business.

Mr. Carr noted that the TIP Amendment was not included in the agenda of this meeting. Mr. Austin noted that he forgot to put the TIP Amendment on the agenda. The TIP Amendment was duly advertised and it is the pleasure of the Board to decide if an approval of this amendment should be considered at this meeting. Mr. Kelly suggested to move the TIP Amendment item to the next Policy Board meeting to avoid any potential confusion.

## **10. Meeting Adjournment**

Meeting adjourned at 7:36 PM

Type	Date	Num	Name	Memo	Class	Clr	Split	Amount	Balance
<b>Centra-Checking (voucher checks)</b>									<b>860.95</b>
Depos	09/15/2016		WVDOH	Deposit		√	PL Funds (Funds)	51,171.09	52,032.04
Check	09/16/2016	8821	Brickstreet Mutual Insurance Company			√	Administrative Overhead	-266.00	51,766.04
Check	09/16/2016	8822	Centra Bank - Mastercard			√	Administrative Overhead	-224.00	51,542.04
Check	09/16/2016	8823	Comcast			√	Administrative Overhead	-309.37	51,232.67
Check	09/16/2016	8824	Fringe Benefits Management Company			√	Salary	-282.36	50,950.31
Check	09/16/2016	8825	Fringe Benefits Management Company			√	Salary	-282.36	50,667.95
Check	09/16/2016	8826	Morgantown Municipal Airport	AUGUST		√	Administrative Overhead	-720.00	49,947.95
Check	09/16/2016	8827	Morgantown Municipal Airport	SEPTEMBER		√	Administrative Overhead	-720.00	49,227.95
Check	09/16/2016	8828	Public Employees Insurance Agency			√	Salary	-1,667.06	47,560.89
Check	09/16/2016	8829	Retiree Health Benefit Trust Fund			√	Salary	-392.00	47,168.89
Check	09/16/2016	8830	Stantec Consulting Service	UNIVERSITY AVENUE		√	Consulting (Consulting Expense)	-12,500.00	34,668.89
Check	09/16/2016	5474	J. William B. Austin	Electronic Transfer		√	Salary	-1,933.33	32,735.56
Check	09/16/2016	5475	Jing Zhang	Electronic Transfer		√	Salary	-1,407.25	31,328.31
Check	09/16/2016	5476	ICMA. Retirement Corp			√	Salary	-1,606.05	29,722.26
Check	09/16/2016	941	IRS	Electronic Transfer		√	Salary	-1,259.98	28,462.28
Depos	09/22/2016		WVDOH	Deposit		√	PL Funds (Funds)	17,245.81	45,708.09
Check	09/30/2016	8831	HDR Engineering	I-79 Access			Consulting (Consulting Expense)	-9,000.00	36,708.09
Check	09/30/2016	5477	J. William B. Austin	Electronic Transfer		√	Salary	-1,933.33	34,774.76
Check	09/30/2016	5478	Jing Zhang	Electronic Transfer		√	Salary	-1,407.25	33,367.51
Check	09/30/2016	5479	ICMA. Retirement Corp				Salary	-1,606.05	31,761.46
Check	09/30/2016	9301	WV Dept of Tax and Revenue	Electronic Transfer			Salary	-452.00	31,309.46
Check	09/30/2016	941	Internal Revenue Service	Electronic Transfer			Salary	-1,259.98	<u>30,049.48</u>
Total Centra-Checking (voucher checks)									30,049.48
<b>TOTAL</b>									

Type	Date	Num	Name	Memo	Class	Clr	Split	Amount	Balance
<b>Centra-Checking (voucher checks)</b>									<b>19,868.33</b>
Depos	08/01/2016		Monongalia County Planning Commission	Deposit		√	Telephone (Telephone)	154.64	20,022.97
Check	08/11/2016	8813	Comcast			√	Administrative Overhea	-309.37	19,713.60
Check	08/11/2016	8814	Public Employees Insurance Agency			√	Salary	-1,667.06	18,046.54
Check	08/11/2016	8815	Retiree Health Benefit Trust Fund			√	Salary	-392.00	17,654.54
Check	08/11/2016	8816	Service Plus			√	Accounting (Accounting	-109.76	17,544.78
Check	08/11/2016	8817	Calvin Sun	Immigration Service		√	Professional Fees (Prof	-2,660.00	14,884.78
Check	08/11/2016	8818	WV Newspaper Publishing Co.	TIP Notice		√	Administrative Overhea	-129.74	14,755.04
Check	08/15/2016	5468	J. William B. Austin	Electronic Transfer		√	Salary	-1,933.33	12,821.71
Check	08/15/2016	5469	Jing Zhang	Electronic Transfer		√	Salary	-1,407.25	11,414.46
Check	08/15/2016	5470	ICMA, Retirement Corp			√	Salary	-1,606.05	9,808.41
Check	08/15/2016	941	Internal Revenue Service	Electronic Transfer		√	Salary	-1,259.98	8,548.43
Check	08/29/2016	8819	Centra Bank - Mastercard			√	Administrative Overhea	-182.55	8,365.88
Check	08/29/2016	8820	WV Board of Risk & Insurance Management			√	Administrative Overhea	-1,001.00	7,364.88
Depos	08/30/2016		Monongalia County Planning Commission	Deposit		√	Internet	154.68	7,519.56
Check	08/31/2016	5471	J. William B. Austin	Electronic Deposit		√	Salary	-1,933.33	5,586.23
Check	08/31/2016	5472	Jing Zhang	Electronic Deposit		√	Salary	-1,407.26	4,178.97
Check	08/31/2016	5473	ICMA, Retirement Corp			√	Salary	-1,606.05	2,572.92
Check	08/31/2016	941	Internal Revenue Service	Electronic Deposit		√	Salary	-1,259.97	1,312.95
Check	08/31/2016	83116	WV Dept of Tax and Revenue	Electronic Deposit		√	Salary	-452.00	<u>860.95</u>
Total Centra-Checking (voucher checks)									860.95
<b>TOTAL</b>									<b>860.95</b>



## I-79 Access Study

# Morgantown Monongalia Metropolitan Planning Organization (MMMPO)

Morgantown, WV

October 11, 2016



## Public Meeting #2

### Welcome

At our first Public Meeting in December 2015, we presented the findings of the Existing and Future Conditions Report. This report demonstrated the need to enhance traffic flow and safety in the Morgantown area, particularly along the corridors that connect to I-79. Since that time, the Project Team has worked with the Steering Committee and Stakeholder Committee to develop project goals, identify alternatives, and assess their impacts. The main objectives of this Public Meeting include:

- Present the findings of the Draft I-79 Access Study.
- Discuss the Project Purpose and Need.
- Present the Alternatives and their impacts.
- Present the criteria and rankings in the Alternative Evaluation Matrix.
- Get your input on the Alternatives.

Public meetings allow stakeholders to engage with the Project Team to learn about the project scope and progress, as well as, provide valuable feedback and local insight that will assist in making recommendations for improved access in Morgantown.

This public meeting is from 4:00 pm to 7:00 pm and **there will be no formal presentation**. This meeting is intended to be informal to maximize the interaction between the citizens and Project Team. We invite you to browse the displays, participate in the map activities, and encourage dialogues with the Project Team.

Throughout this project, we have engaged a Steering Committee to guide the process and assist in decision-making. A Stakeholder Committee, made up of local representatives from the community, businesses, and special interest groups also represented your voice in the project.

Our Project Team extends a special thank you to these folks for their time, dedication, and input. Members of the Steering and Stakeholder Committees are wearing special nametags tonight. Please feel free to talk with them about the project and thank them for their dedication to the Morgantown community.

## Background

The I-79 Access Study is an initiative of the MMMPO in response to recommendations set forth by the *2040 Long Range Transportation Plan* (LRTP).

The first step in this study was to develop the **Vision** for the project. This included understanding the existing and future conditions of the study area. The Existing and Future Conditions Report demonstrated a need for improved connections to enhance mobility and safety. This improved connection could be a series of improvements to an existing corridor, such as a transportation system management (TSM) project, or a new corridor alternative. If determined to be technically feasible, a new bridge over the Monongahela River and roadway connection to I-79 in Morgantown would serve multiple purposes, but most significantly would provide a safe, sustainable, and resilient transportation system that will support continued growth in the Morgantown area.

The current step in this study is the **Alternatives Evaluation**. This process includes identifying and evaluating alternatives under the direction of the Steering Committee with input from the Stakeholder Committee. During this step, twelve alternatives were developed to connect Morgantown to I-79. Five of these alternatives were eliminated from further consideration. The seven remaining alternatives will address the project's Purpose and Need in fulfilling the study's **Vision**.

## Purpose and Need

The Project Team studied the existing conditions, defined issues/problems to be addressed, and ultimately developed a Purpose and Need. The Purpose and Need serves as a benchmark to measure alternatives and in some cases eliminate alternatives that do not meet these guiding principles for the project.

- Improve mobility and access to major transportation facilities and key employment centers in northern Morgantown.
- Improve traffic operations and safety.

- Support on-going and projected growth areas.
- Enhance multi-modal opportunities to reduce single-occupancy trips.

## Alternatives Considered

Multiple alternatives were developed and are presented at this meeting. Please note the alternatives are shown in concept with wide corridors and are not intended to illustrate specific impacts to residences, businesses, parks, etc. The specific impacts will be defined as the project moves forward into more detailed studies during future phases. Below is a brief summary of each alternative.

**Alternative 1 (Eliminated)** connects US 119 to WV 100, and ultimately WV 7/US 19. This alternative was eliminated from further consideration as it does not meet the project's Purpose and Need because of a low cost/benefit ratio of minimal traffic reductions on key corridors.

**Alternative 2** connects US 119 to a new interchange at Pursglove.

**Alternative 3** connects US 119 to a new interchange at Pursglove (same as Alternative 2) and includes a connection from US 19 at Patteson Drive, over the Core Arboretum and Granville, to the new Exit 153 interchange. This alternative is a combination of Alternatives 2 and 7. There would be two new river crossings for the alternative.

**Alternative 4 (Eliminated)** connects Van Voorhis Road at West Run Road to WV 100, and ultimately WV 7/US 19. This alternative was eliminated from further consideration as it does not meet the project's Purpose and Need because of a low cost/benefit ratio of minimal traffic reductions on key corridors.

**Alternative 5 (Eliminated)** connects Van Voorhis Road to WV 100, and ultimately WV 7/US 19. This alternative was eliminated from further consideration as it does not meet the project's Purpose and Need because of a

low cost/benefit ratio of minimal traffic reductions on key corridors.

**Alternative 6** is a combination of Alternatives 1 and 5 and connects US 119 to WV 100, and ultimately WV 7/US 19. It also includes a connection to Van Voorhis Road.

**Alternative 7** connects US 19 at Patteson Drive, over the Core Arboretum and Granville, to the new Exit 153 interchange.

**Alternative 8 (Eliminated)** connects Beechurst Avenue near 8th Street, through Westover, to the new Exit 153 interchange. This alternative was eliminated from further study as it does not meet the project's Purpose and Need because of disproportionate property and connectivity impacts to the Westover community, as well as a low cost/benefit ratio of minimal traffic reductions on key corridors.

**Alternative 9 (Eliminated)** connects Beechurst Avenue near 8th Street, through Westover on US 19, to the Exit 152 interchange. This alternative was eliminated from further study as it does not meet the project's Purpose and Need because of disproportionate property and connectivity impacts to the Westover community, as well as a low cost/benefit ratio of minimal traffic reductions on key corridors.

**Alternative 10** connects Van Voorhis/West Run and Collins Ferry Roads to WV 100, and ultimately to a new interchange at Pursglove.

**Alternative 11** is a combination of Alternatives 2 and 9 and connects US 119 to a new interchange at Pursglove. Also, it connects Beechurst Avenue near 8th Street, through Westover on US 19, to the Exit 152 interchange. There would be two new river crossings for the alternative.

**Alternative 12** is a combination of Alternatives 2 and 10 and includes a connection from US 119 to a new interchange at Pursglove. There is also a connection from Van Voorhis/West Run and Collins Ferry Roads.

## Preliminary Cost Estimates

Preliminary cost estimates were prepared to compare the anticipated construction costs for each alternative. As these concepts are still preliminary, these do not include the costs of future design phases, construction inspection, utility relocation, or major earthwork. The cost estimates are shown as a range to reflect this.

Alternative	Total
No-Build	\$0
TSM	\$10-15M
1	Eliminated
2	\$115-125M
3	\$175-185M
4	Eliminated
5	Eliminated
6	\$125-135M
7	\$135-145M
8	Eliminated
9	Eliminated
10	\$110-120M
11	\$200-210M
12	\$135-145M

The combination of alternatives does not result in a linear addition of individual alternative estimates to obtain the combined estimate.

## Project Next Steps

Following this Public Meeting, all feedback and comments submitted will be reviewed and discussed amongst the Project Team. Using your questions and concerns as a guide, the I-79 Access Study will be finalized and include a recommendation for alternative(s) to be carried forward to the next phases. The future phases include the preparation of National Environmental Policy Act (NEPA) documentation, detailed design, and eventual construction. The recommendations will also be included in the MMMPO's *Long Range Transportation Plan* which is currently being updated.

## Why should you be involved in the project?

Comments on this project and its potential impacts are requested from the public to assist in the selection of a preferred alternative(s) to be carried forward into future phases of the project. The comments and suggestions you provide are essential so that the agencies involved can hear the concerns of the people who live and work in the area. Your input will be used to guide the project team as the project moves forward.

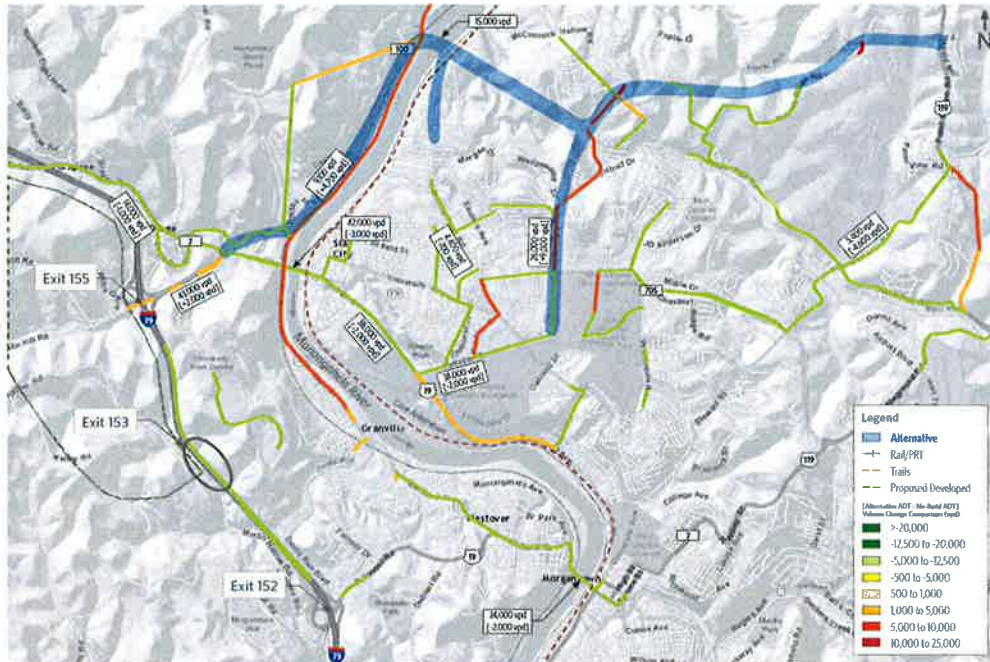
## Project Schedule

Milestone	Date
Notice to Proceed	April 1, 2015
Existing and Future Conditions Report	October 2015
Public Meeting #1	December 2015
Receive comments (Report & Public Meeting)	January 2016
Draft I-79 Access Study Report	October 2016
Public Meeting #2	October 2016
Receive comments (Report & Public Meeting)	November 2, 2016
Final I-79 Access Study Report	January 2017
Public Meeting #3	January 2017

**Comments are due by November 2, 2016 and should be sent to MMMPO or submitted online from our project website ([www.i79accessstudywv.com](http://www.i79accessstudywv.com)):**

Mr. Bill Austin, AICP  
Executive Director  
Morgantown Monongalia MPO  
243 High Street Room 110  
Morgantown, WV 26505

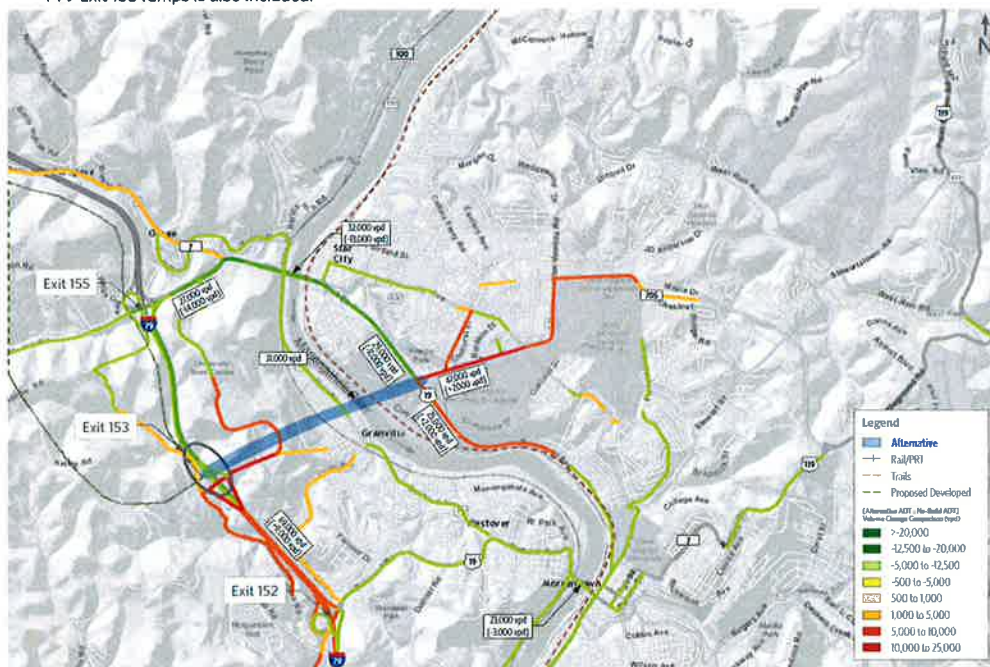




### ▲ ALTERNATIVE 6

**Cost:** \$125-135M

- The main corridor will be four-lanes. Van Voorhis Road will be widened to four-lanes and the connection to Collins Ferry Road will be three-lanes.
- Additional ancillary improvements include the addition of turn lanes and signalization at the intersection with US 119. The signals along Chaplin Hill Road and US 19 will be optimized and additional turn lanes will be added to the new intersection with Chaplin Hill Road. Additional turn lanes at the new intersection with Van Voorhis Road will also be added. Signalization at the I-79 Exit 155 ramps is also included.



### ▲ ALTERNATIVE 7

**Cost:** \$135-145M

- The Patten Drive to Exit 153 corridor will be four-lanes
- Additional ancillary improvements include optimizing the signals on Patten Drive and WV 705. Additional turn lanes at the new intersection with Mon Boulevard will also be added.



# Alternatives

## Projected 2040 Traffic Volume Impact



### ▲ ALTERNATIVE 2

**Cost:** \$115-125M

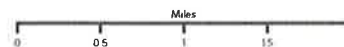
- The main corridor will be four-lanes. The connection to Collins Ferry Road will be three-lanes.
- Additional ancillary improvements include widening of Stewartstown Road to three-lanes and the addition of turn lanes and signalization at the intersection with US 119.

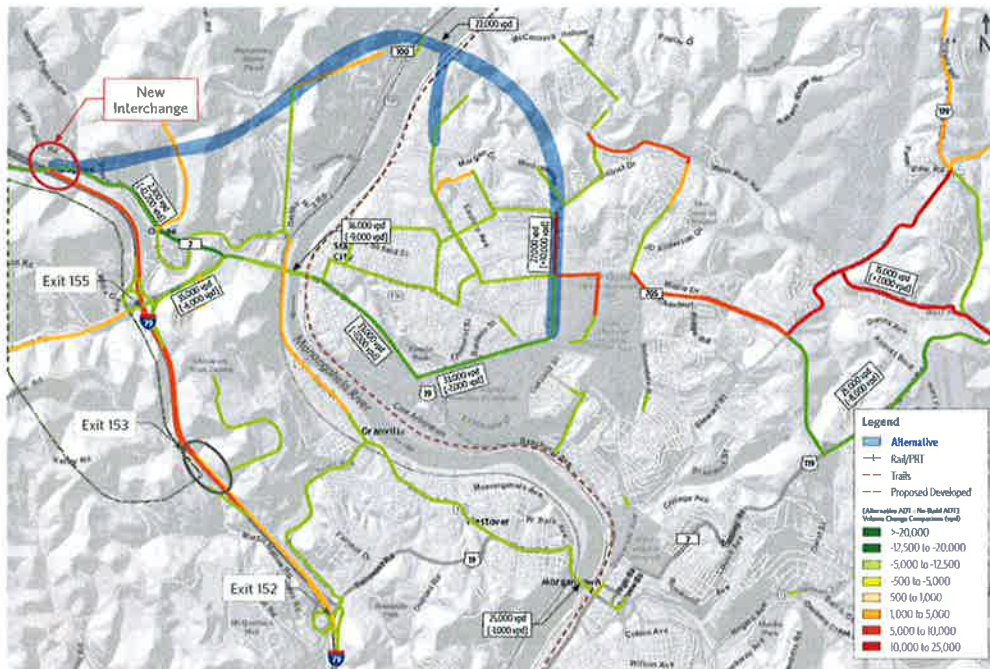


### ▲ ALTERNATIVE 3

**Cost:** \$175-185M

- The northern corridor will be four-lanes. The connection to Collins Ferry Road will be three-lanes.
- The Patterson Drive to Exit 153 corridor will be four-lanes.
- There will be two new river crossings.
- Additional ancillary improvements include widening of Stewartstown Road to three-lanes and the addition of turn lanes and signalization at the intersection with US 119. The signals along Patterson Drive will be optimized and additional turn lanes will be added to the new intersection with Mon Boulevard.

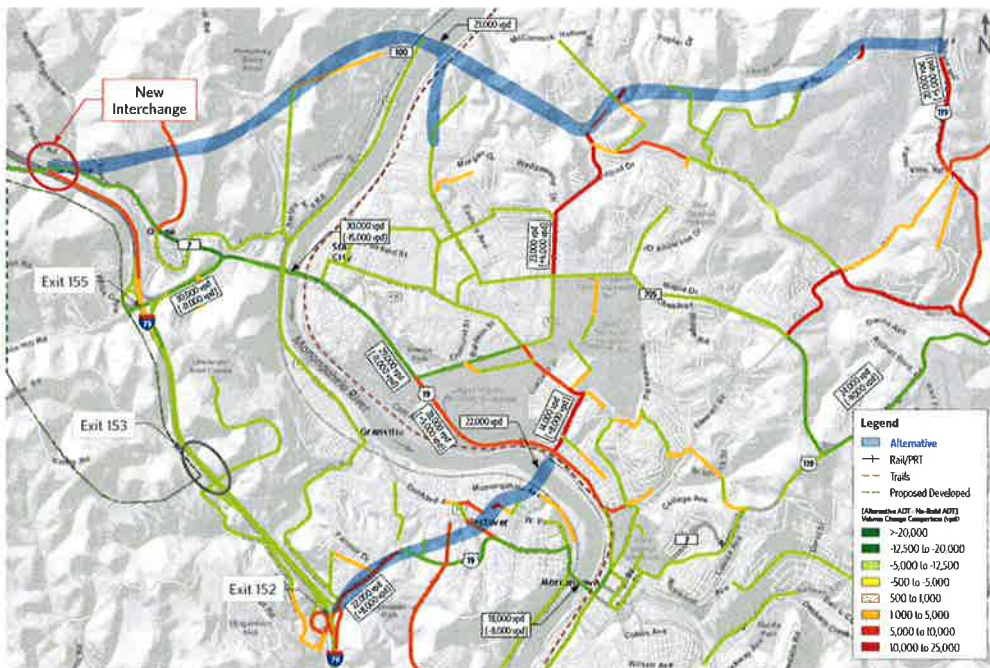




### ▲ ALTERNATIVE 10

Cost: \$110-120M

- The main corridor, including Van Voorhis Road, will be four-lanes. The connection to Collins Ferry Road will be three-lanes.
- Additional ancillary improvements include optimizing the signals on Pattenon Drive and WV 705. Additional turn lanes at the new intersection with Van Voorhis Road will also be added.

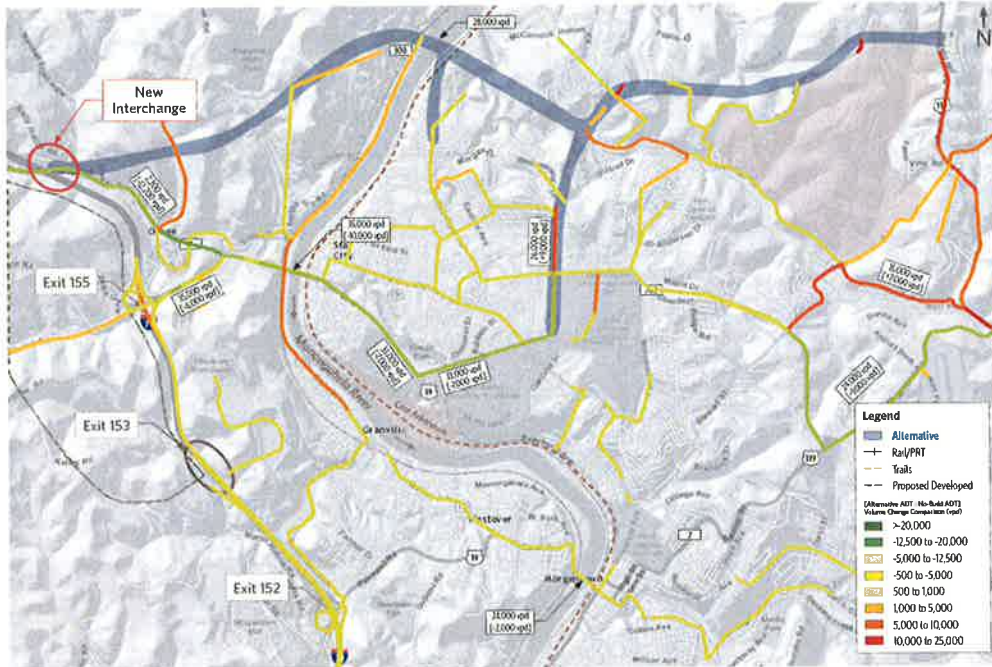


### ▲ ALTERNATIVE 11

Cost: \$200-210M

- The main corridor will be four-lanes. Van Voorhis Road will be widened to four-lanes and the connection to Collins Ferry Road will be three-lanes.
- There will be two new river crossings.
- Additional ancillary improvements include the addition of turn lanes and signalization at the intersection with US 119. Additional turn lanes will be added at the 8th Street connection and I-79 Exit 152 interchange. The signals on US 19 will be optimized.





### ▲ ALTERNATIVE 12

**Cost:** \$135-145M

- The main corridor will be four-lanes. Van Voorhis Road will be widened to four-lanes and the connection to Collins Ferry Road will be three-lanes.
- Additional ancillary improvements include the addition of turn lanes and signalization at the intersection with US 119.
- Additional turn lanes at the new intersection with Van Voorhis Road will also be added. The signals on Pattenon Drive and WV 705 will be optimized.



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