

**Central Maryland Regional Transit Plan  
Pilot Corridor Analysis  
Corridor 25: BWI Airport to Columbia Town Center  
Technical Deliverable #2**

**Alternative Alignment Development and Analysis Results**



## 1. Introduction

Task 2 of the Central Maryland Regional Transit Plan Pilot Corridor Analysis Corridor # 25: BWI to Columbia Town Center consisted of two key work steps. The first was a current conditions analysis that is documented in “Technical Deliverable #1 – Results: Collect and Evaluate Background Data”. The second work step is documented in this Technical Report and is focused on describing the analysis completed to:

- Identify potential alignments and routing alternatives to provide transit service between the BWI Business District and Columbia Town Center.
- Compare the alignments and routing alternatives to determine those that provide the greatest potential ridership and benefits.
- Identify six route alternatives (three to the BWI Business District and three to Fort Meade) to carry forward for more detailed analysis in the next steps of project development.

Each step of the alternative alignment identification and comparison analysis is outlined below.

## 2. Identify Alignment and Route Alternatives

The RTP Corridor #25 incorporates a dense roadway network that provides multiple potential pathways for transit service between Columbia Town Center and the BWI Business District and Fort Meade. The framework for identifying potential alignments and routing alternatives was this project area roadway network, with a specific focus on alternative east-west roadways that connect the major activity centers within the project area. As the first step in the alignment identification all potentially feasible alignments were identified for the purpose of evaluation through the alternatives analysis process. Further, because of the dense project area roadway network there were multiple routing options within each overall alignment alternative. This alignment alternative and routing option process yielded 14 overall alignment alternatives and 127 routing options within the overall alignments. Table 1 contains a list of the overall alignments along with the number of routing options associated with that alignment. Included in Appendix 1 is a master list of the routing options under each alignment alternative. Maps of each alignment alternative with all routing options are included in Appendix 2.

**Table 1 – Overall Alignments Identified and Number of Routing Alternatives within Each Alignment – Columbia Town Center to BWI Business District and Fort Meade**

Overall Alignment	Number of Routing Alternatives within Alignment
1. MD 100	6 routing options
2. MD 108/MD 175	14 routing options
3. MD 175	14 routing options
4. MD 175 via Columbia Gateway	7 routing options
5. MD 175 via Guilford Road and US 1	7 routing options
6. Montevideo Road via Guilford Road/CSX ROW and US 1	12 routing options
7. MD 103 via Guilford Road/CSX ROW and US 1	15 routing options
8. MD 100 via Guilford Road/CSX ROW and US 1	6 routing options
9. Loudon Avenue/Hanover Road via Guilford Road/CSX ROW and US 1	3 routing options
10. MD 32	7 routing options
11. Montevideo Road via Columbia Gateway	12 routing options
12. MD 103 via Columbia Gateway	15 routing options
13. MD 100 via Columbia Gateway	6 routing options
14. Loudon Avenue/Hanover Road via Columbia Gateway	3 routing options

### 3. Alternatives Analysis

To narrow the list of the alternative alignments and routing options within each alignment alternative, a scoring system was developed that allowed for a comparison of each alternative alignment/routing option in order to determine which would provide the highest potential ridership and benefits to the Corridor #25 service area. The scoring system was based on 15 criteria that incorporated the goals and desired outcomes of the Corridor #25 jurisdictions and stakeholders. The evaluation criteria by category is provided in Table 2. Table 3 provides a summary of how points were assigned for each criterion.

**Table 2 – Evaluation Criteria by Category**

<b>Category</b>	<b>Criteria</b>
<b>Vulnerable Population Served</b>	Vulnerable Populations Served: BMC Index
	Vulnerable populations served: low income
	Vulnerable populations served: carless households
<b>Service to Specific Markets</b>	Number of major activity centers served
	Key origin-destination pairs served
	High transit propensity concentrations served
	Shopping centers/corridor shopping concentrations served
	Government offices served
<b>Ridership Potential</b>	Total population within ½ mile of alignment
	Total Employment within ½ mile of alignment
	Total population per route mile
	Total Employment per route mile
<b>Rider Convenience</b>	Transit travel time compared to auto travel time
	Route directness ratio
<b>Policy Support</b>	Supports regional/jurisdictional plan initiatives

**Table 3 - Scoring Approach – By Evaluation Criteria**

Category	Criteria	Levels	Points
Vulnerable Population Served	BMC Index (locations with index > 5)	1 to 4 locations	1
		5 to 6 locations	2
		7 or greater locations	3
	BMC Index (locations with index > 5)	1 to 4 locations	1
		5 to 6 locations	2
		7 or greater locations	3
	Carless Households (locations with > 15% carless households)	1 location	1
		2 locations	2
		3 or more locations	3
Service to Specific Markets	Service to Major Activity Centers	1 to 4 activity centers	1
		5 activity centers	2
		6 or greater activity centers	3
	Key O/D Pairs Served (pairs with >100 trips between origin and destination)	1 to 4 origin locations	1
		5 to 7 origin locations	2
		> 7 origin locations	3
	High Transit Propensity Locations (propensity score > 2)	1 to 2 locations	1
		3 locations	2
		4 or greater locations	3
	Shopping Centers or Corridor Concentrations Served	0 to 4 locations	1
		5 to 6 locations	2
		> 7 locations	3
	Government Offices Served	1 to 4 locations	1
		5 to 7 locations	2
		> 8 locations	3
Ridership Potential	Total Population	30,000 to 120,000	1
		30,001 to 150,000	2
		150,001 to 170,000	3
		>170,000	4
	Total Employment	20,000 to 60,000	1
		60,001 to 90,000	2
		90,001 to 100,000	3
		> 100,000	4
	Population per Route Mile	2,000 to 5,500	1
		5,501 to 7,001	2
		7,001 to 9,000	3
		>9,000	4
	Employment per Route Mile	1,000 to 3,000	1
		3,001 to 4,000	2
		4,001 to 5,000	3
		>5,000	4

**Table 3 – Cont.**

Category	Criteria	Levels	Points
Rider Convenience	Transit Travel Time compared to Auto Travel Time Ratio	Ratio >2.5	1
		Ratio 2.21 to 2.5	2
		Ratio < 2.2	3
	Route Directness Ratio	Ratio > 1.4	1
		Ratio 1.21 to 1.4	2
		Ratio < 1.2	3
Policy Support	Supports Regional Plan Initiatives	1 to 2 initiatives supported	1
		3 to 4 initiatives supported	2
		> 4 initiatives supported	3

The scoring framework summarized in Tables 2 and 3 was then used as the basis for scoring each alignment alternative/route option outlined in Appendix 1. At a summary level the highest routing option score for each alternative alignment is outlined in Table 4 for alignments to both the BWI Business District and Fort Meade. The highest possible score for an alignment alternative/routing option was 49. Scores for all alternative alignments/routing options is provided in Appendix 3. The Backup for how each alignment alternative/routing option was scored relative to each evaluation criteria is contained in Appendix 4.

**Table 4 – Highest Scoring Routing Option for Each Alternative Alignment**

Alignment Alternative	Highest Scoring Route Option – BWI Business District	BWI Business District Score	Highest Scoring Route Option – Fort Meade	Fort Meade Score
1. MD 100	1b	21	1f	18
2. MD 108/MD 175	2g	33	2n	33
3. MD 175	3j,k,l	37	3n	38
4. MD 175 via Gateway	4c, e, f	38	4g	38
5. MD 175 via Guilford Road/CSX ROW and US 1	5e	37	5g	36
6. Montevideo RD via Guilford Road/CSX ROW and US 1	6d, e, g	35	6l	35
7. MD 103 via Guilford Road/CSX ROW and US 1	7f	36	7o	36
8. MD 100 via Guilford Road/CSX ROW and US 1	8b, c	30	8f	34
9. Loudon Avenue/Hanover Road via Guilford Road/CSX ROW and US 1	9a, b	27	9c	34
10. MD 32	10 d, f	25	10g	25
11. Montevideo Road via Gateway	11e	39	11j	37
12. MD 103 via Gateway	12f	40	12o	34
13. MD 100 via Gateway	13b	34	13f	35
14. Loudon Avenue/Hanover Road via Gateway	14b	32	14c	36

**4. Alignment Alternatives/Route Options Proposed for More Detailed Analysis**

Six alignment alternatives/routing options were proposed for more detailed analysis in the next stage of project development based on the results of the alternatives analysis, three to the BWI Business District and three to Fort Meade. A summary of the alternative alignments/route options selected is provided in Table 5. Maps for each selected alternative alignment/route option is provided in Figures 1 through 6. Also contained in Appendix 5 are the proposed alignments/routing options overlaid on population density, employment density, and zoning maps to provide an understanding of how the selected alignment alternatives/routing options serve key population and employment concentrations and zoning within the Corridor #25 service area.

**Table 5 – Alignment Alternatives/Routing Options Selected for More Detailed Analysis**

Alignment Alternative/Routing Option	Score/Total Possible Score
#12 – Columbia Town Center to BWI Business District via Columbia Gateway and MD 103	40/49
#11 – Columbia Town Center to BWI Business District via Columbia Gateway and Montevideo Road	39/49
#4 - Columbia Town Center to BWI Business District via Columbia Gateway and MD 175	38/49
#3 – Columbia Town Center to Fort Meade via MD 175, with service to Columbia Gateway	38/49
#4 – Columbia Town Center to Fort Meade via Columbia Gateway and MD 175	38/49
#11 – Columbia Town Center to Fort Meade via Columbia Gateway and Montevideo Road	37/49

**Figure 1 – Alignment Alternative/Routing Option #12 - Columbia Town Center to BWI Business District via Columbia Gateway and MD 103**

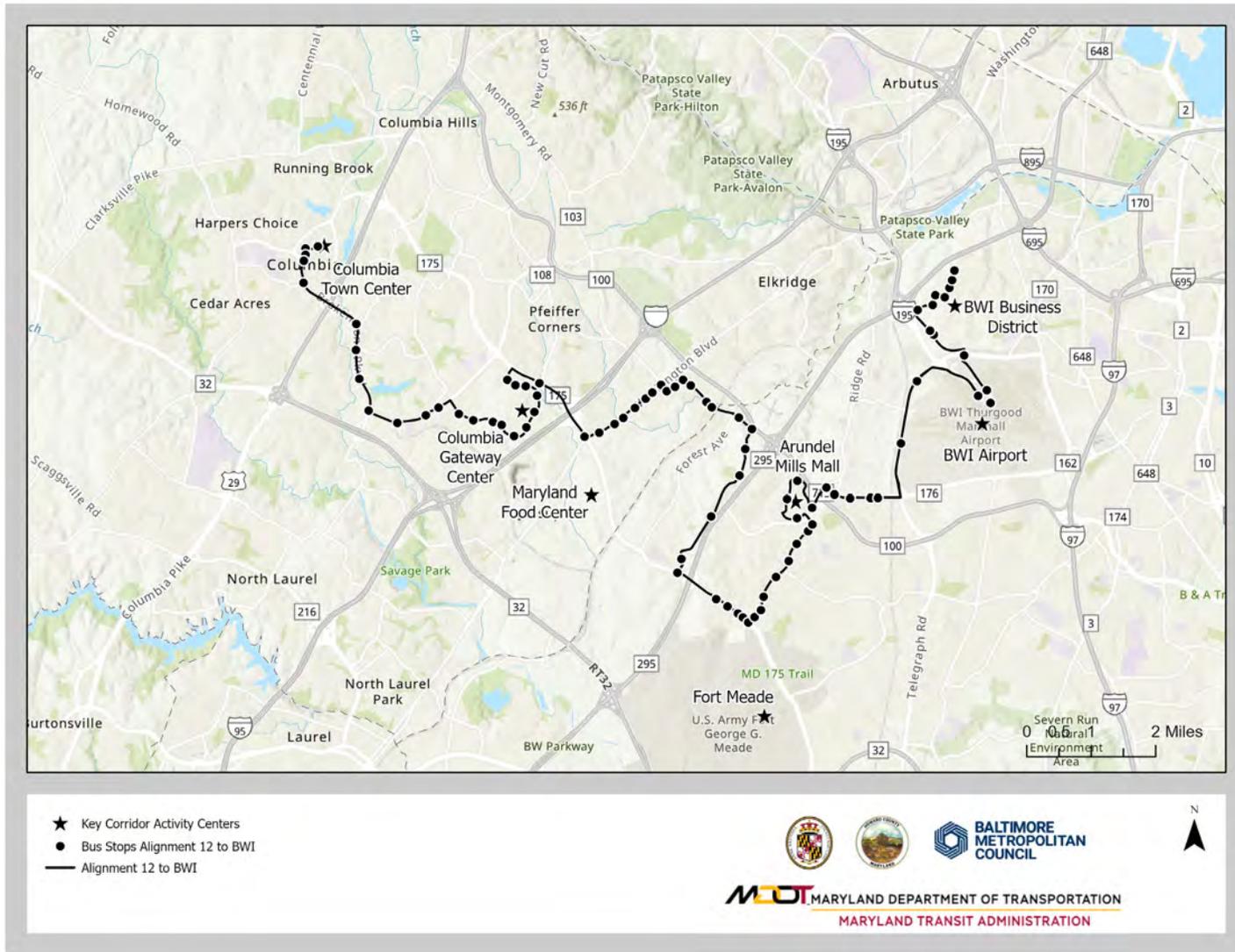
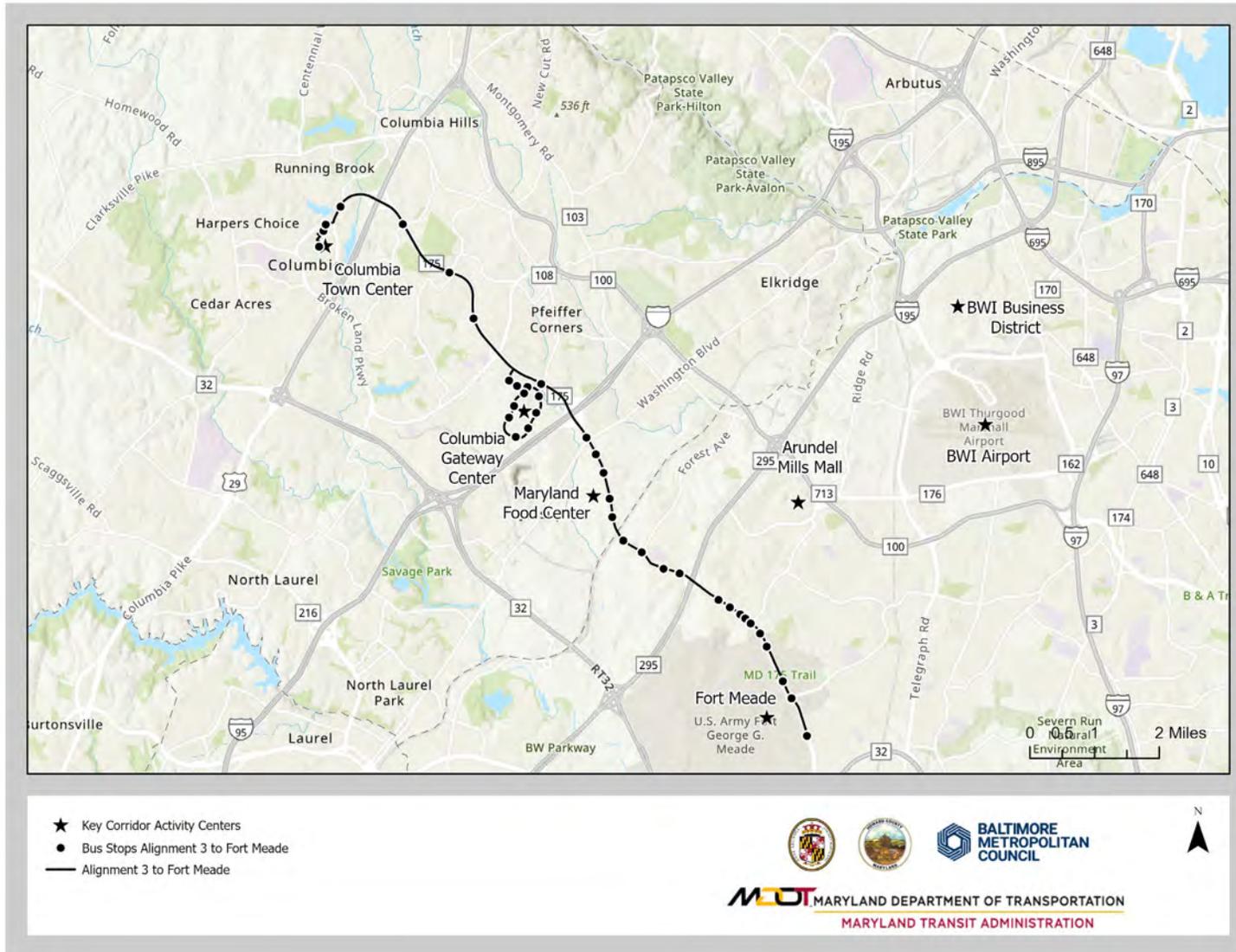




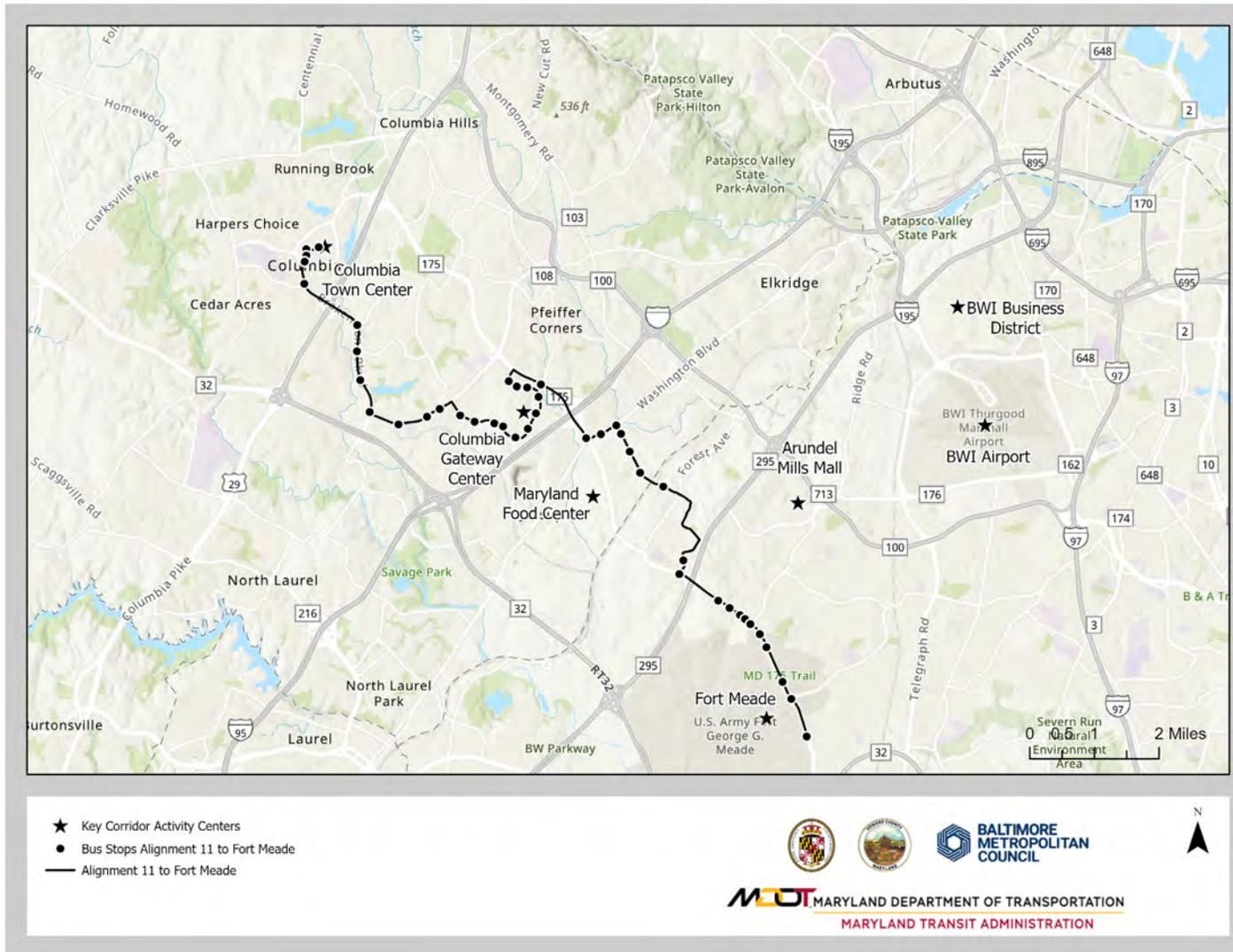


Figure 4 – Alignment Alternative/Routing Option #3 – Columbia Town Center to Fort Meade via MD 175 (serve Columbia Gateway)





**Figure 6 – Alignment Alternative/Routing Option #11 – Columbia Town Center to Fort Meade via Columbia Gateway and Montevideo Road**



Appendix 1 – Master List of Alignment Alternatives and Routing Options within Each Alignment Alternative

Alignment #1 – MD 100	
1a	BWI/BWI Business District via Arundel Mills via MD 176/MD 170
1b	BWI/BWI Business District via Arundel Mills via New Ridge Road
1c	BWI/BWI Business District Direct via MD 176/MD 170
1d	BWI/BWI Business District Direct via New Ridge
1e	Arundel Mills Direct from MD 100
1f	Fort Meade via Arundel Mills
Alignment #2 – MD 108	
2a	MD 108 to Arundel Mills via MD 175 and Milestone Parkway - no service to Columbia Gateway
2b	MD 108 to Arundel Mills via MD 175 and MD 713 - no service to Columbia Gateway
2c	MD 108 to Arundel Mills via MD 175 and Milestone Parkway - serve Columbia Gateway
2d	MD 108 to Arundel Mills via MD 175 and MD 713 - serve Columbia Gateway
2e	MD 108 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway, and MD 176/MD 170 - no service to Columbia Gateway
2f	MD 108 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway and New Ridge - no service to Columbia Gateway
2g	MD 108 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway, and MD 176/MD 170 - serve Columbia Gateway
2h	MD 108 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway and MD New Ridge - serve Columbia Gateway
2i	MD 108 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713, and MD 176/MD 170 - no service to Columbia Gateway
2j	MD 108 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713 and New Ridge - no service to Columbia Gateway
2k	MD 108 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713, and MD 176/MD 170 - serve Columbia Gateway
2l	MD 108 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713 and New Ridge - serve Columbia Gateway
2m	MD 108 to Fort Meade via MD 175 - no service to Columbia Gateway
2n	MD 108 to Fort Meade via MD 175 - serve Columbia Gateway

Alignment #3 – MD 175	
3a	MD 175 to Arundel Mills via Milestone Parkway - no service to Columbia Gateway
3b	MD 175 to Arundel Mills via MD 713 - no service to Columbia Gateway
3c	MD 175 to Arundel Mills via Milestone Parkway - service to Columbia Gateway
3d	MD 175 to Arundel Mills via MD 713 - service to Columbia Gateway
3e	MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway, and MD 176/MD 170 - no service to Columbia Gateway
3f	MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway and New Ridge - no service to Columbia Gateway
3g	MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713, and MD 176/MD 170 - no service to Columbia Gateway
3h	MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713 and New Ridge - no service to Columbia Gateway
3i	MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway, and MD 176/MD 170 - service to Columbia Gateway
3j	MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway and New Ridge - service to Columbia Gateway
3k	MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713, and MD 176/MD 170 - service to Columbia Gateway
3l	MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713 and New Ridge - service to Columbia Gateway
3m	MD 175 to Fort Meade - no service to Columbia Gateway
3n	MD 175 to Fort Meade - serve Columbia Gateway
Alignment #4 - Broken Land/Snowden River/Columbia Gateway/MD 175	
4a	Columbia Mall to Gateway to MD 175 to Arundel Mills via Milestone Parkway
4b	Columbia Mall to Gateway to Arundel Mills via MD 713
4c	Columbia Mall to Gateway to MD 175 to Arundel Mills/BWI/BWI Business District via Milestone Parkway and MD 176/MD 170
4d	Columbia Mall to Gateway to MD 175 to Arundel Mills/BWI/BWI Business District via Milestone Parkway and New Ridge Road
4e	Columbia Mall to Gateway to MD 175 to Arundel Mills/BWI/BWI Business District via MD 713 and MD 176/MD 170
4f	Columbia Mall to Gateway to MD 175 to Arundel Mills/BWI/BWI Business District via MD 713 and New Ridge Road
4g	Columbia Mall to Gateway to MD 175 to Fort Meade

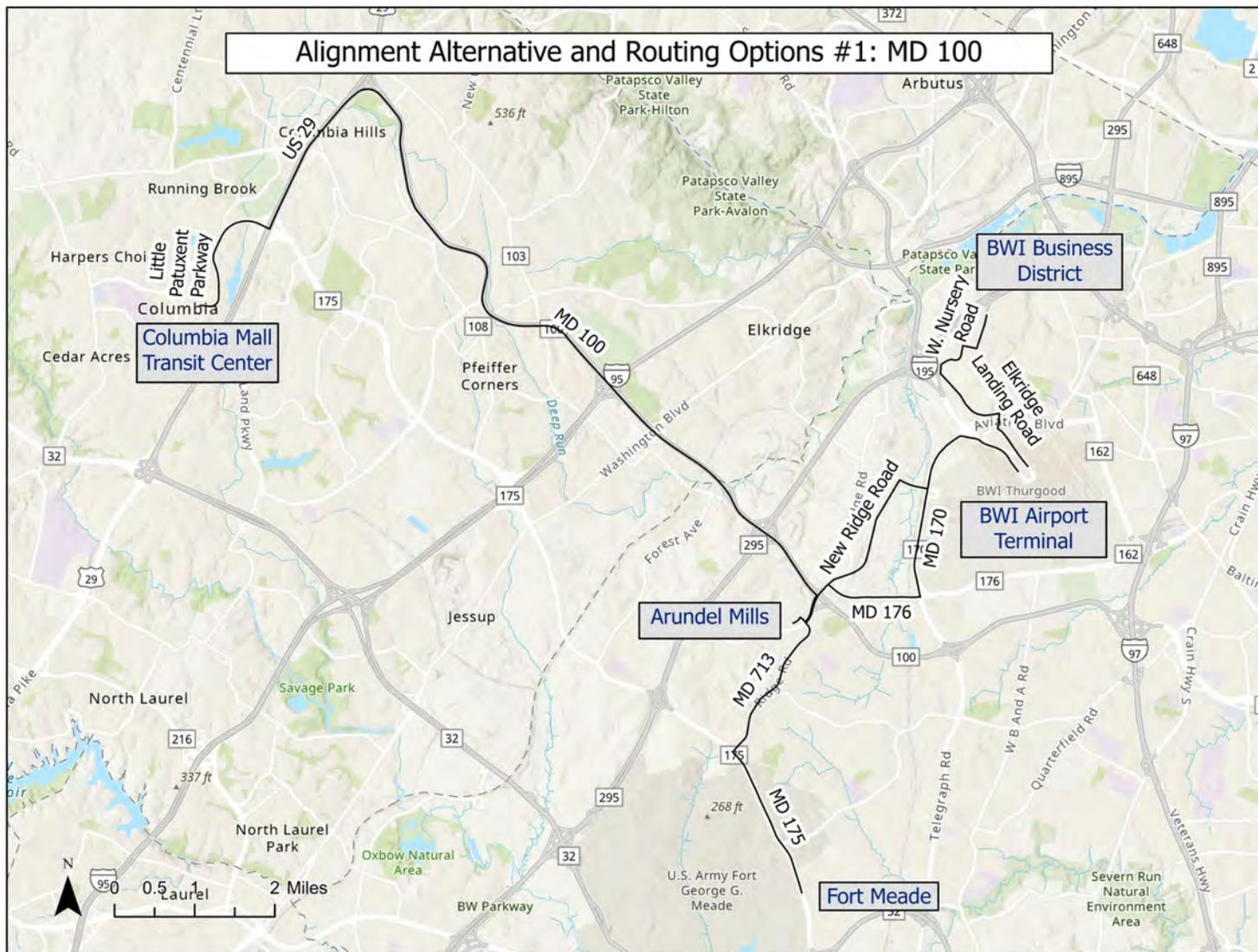
Alignment #5 - Broken Land - Snowden - Guilford - US 1 - MD 175	
5a	Guilford to US 1 to MD 175 to Arundel Mills via Milestone Parkway
5b	Guilford to US 1 to MD 175 to Arundel Mills via MD 713
5c	Guilford to US 1 to MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway, and MD 176/MD 170
5d	Guilford to US 1 to MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, Milestone Parkway, and New Ridge Road
5e	Guilford to US 1 to MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713, and MD 176/MD 170
5f	Guilford to US 1 to MD 175 to Arundel Mills/BWI/BWI Business District via MD 175, MD 713, and New Ridge Road
5g	Guilford to US 1 to MD 175 to Fort Meade
Alignment #6 – Broken Land – Snowden River – Guilford – US 1 - Montevideo	
6a	Guilford to US 1 to Montevideo to Race Road South to Arundel Mills via Milestone Parkway
6b	Guilford to US 1 to Montevideo to Race Road South to Arundel Mills via MD 713
6c	Guilford to US 1 to Montevideo to MD 100 to Arundel Mills
6d	Guilford to US 1 to Montevideo to Race Road South to Arundel Mills/BWI/BWI Business District via Milestone Parkway, MD 176/MD170
6e	Guilford to US 1 to Montevideo to Race Road South to Arundel Mills/BWI/BWI Business District via MD 713, MD 176/170
6f	Guilford to US 1 to Montevideo to Race Road South to Arundel Mills/BWI/BWI Business District via Milestone Parkway, New Ridge Road
6g	Guilford to US 1 to Montevideo to Race Road South to Arundel Mills/BWI/BWI Business District via MD 713, New Ridge Road
6h	Guilford to US 1 to Montevideo to Race Road North to MD 100 to Arundel Mills/BWI/BWI Business District via MD 176/MD 170 (serve Arundel Mills first)
6i	Guilford to US 1 to Montevideo to Race Road North to MD 100 to Arundel Mills/BWI/BWI Business District via MD New Ridge Road (serve Arundel Mills first)
6j	Guilford to US 1 to Montevideo to Race Road North to MD 100 to BWI/BWI Business District via MD 176/MD 170 (direct to BWI)
6k	Guilford to US 1 to Montevideo to Race Road North to MD 100 to BWI/BWI Business District via New Ridge Road (direct to BWI)
6l	Guilford to US 1 to Montevideo to Race Road South to Fort Meade via MD 175

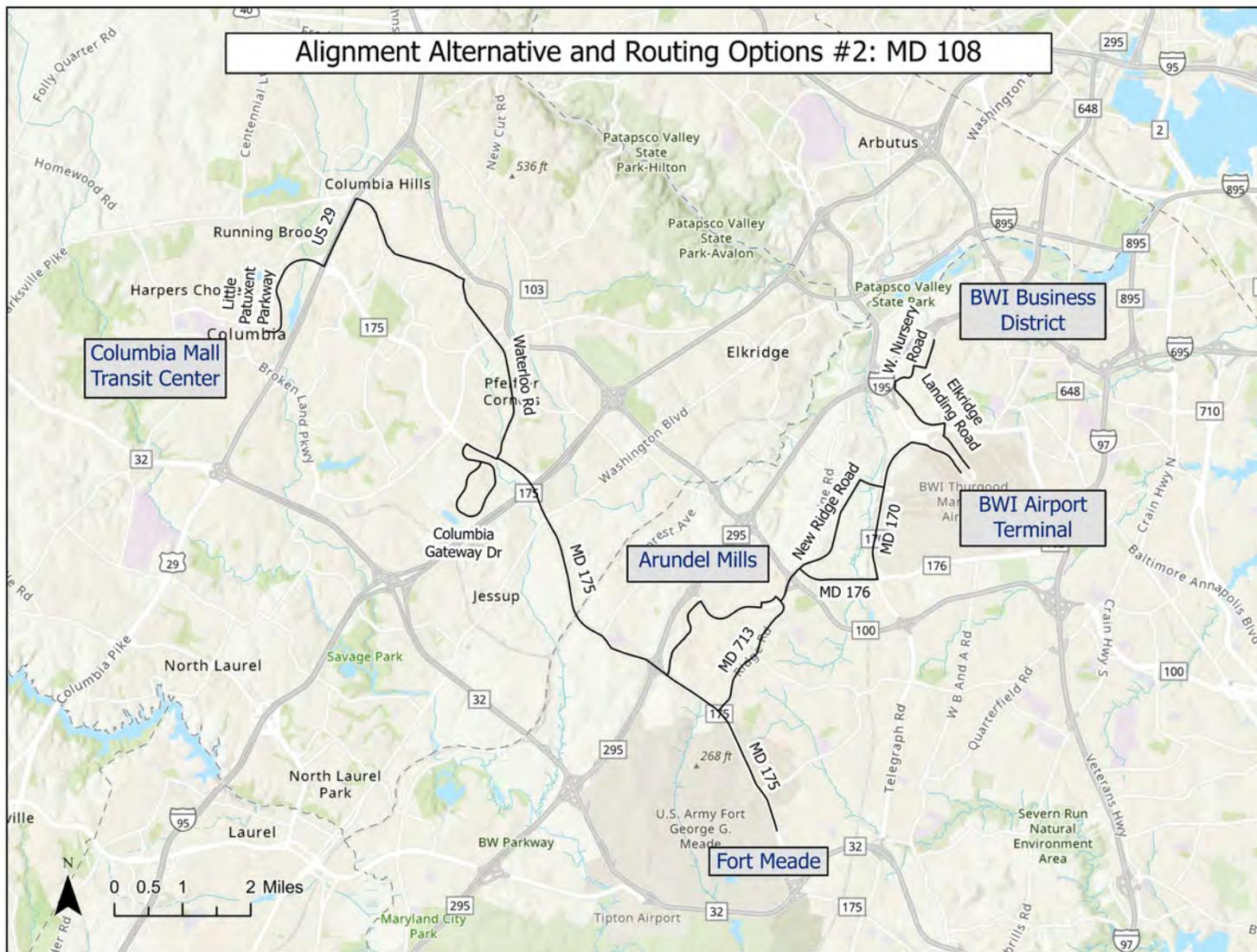
Alignment #7 – Broken Land – Snowden River – Guilford – US 1 – MD 103	
7a	Guilford to US 1 to MD 103 to Race Road South to Arundel Mills via Milestone Parkway
7b	Guilford to US 1 to MD 103 to Race Road South to Arundel Mills via MD 713
7c	Guilford to US 1 to MD 103 to MD 100 to Arundel Mills
7d	Guilford to US 1 to MD 103 to Race Road South to Arundel Mills/BWI/BWI Business District via Milestone Parkway, MD 176/MD170
7e	Guilford to US 1 to MD 103 to Race Road South to Arundel Mills/BWI/BWI Business District via Milestone Parkway, New Ridge Road
7f	Guilford to US 1 to MD 103 to Race Road South to Arundel Mills/BWI/BWI Business District via MD 713, MD 176/170
7g	Guilford to US 1 to MD 103 to Race Road South to Arundel Mills/BWI/BWI Business District via MD 713, New Ridge Road
7h	Guilford to US 1 to MD 103 to Race Road North to MD 100 to Arundel Mills/BWI/BWI Business District via MD 176/MD 170 (serve Arundel Mills first)
7i	Guilford to US 1 to MD 103 to Race Road North to MD 100 to Arundel Mills/BWI/BWI Business District via MD New Ridge Road (serve Arundel Mills first)
7j	Guilford to US 1 to MD 103 to Race Road North to MD 100 to BWI/BWI Business District via MD 176/MD 170 (direct to BWI)
7k	Guilford to US 1 to MD 103 to Race Road North to MD 100 to BWI/BWI Business District via MD New Ridge Road (direct to BWI)
7l	Guilford to US 1 to MD 103 to Coca Cola Drive to BWI/BWI Business District via Stoney Run and M 170
7m	Guilford to US 1 to MD 103 to Wright Road/MD 176 to BWI/BWI Business District via MD 176/MD 170
7n	Guilford to US 1 to MD 103 to Wright Road/MD 176 to BWI/BWI Business District via New Ridge
7o	Guilford to US 1 to MD 103 to Race Road South to Fort Meade via MD 175
Alignment #8 – Broken Land – Snowden River – Guildford – US 1 – MD 100	
8a	Guilford to US 1 to MD 100 to Arundel Mills
8b	Guilford to US 1 to MD 100 to Arundel Mills/BWI/BWI Business District via MD 176/MD 170 (serve Arundel Mills first)
8c	Guilford to US 1 to MD 100 to Arundel Mills/BWI/BWI Business District via MD New Ridge (serve Arundel Mills first)
8d	Guilford to US 1 to MD 100 to BWI/BWI Business District via MD 176/MD 170 (direct to BWI )
8e	Guilford to US 1 to MD 100 to Arundel Mills/BWI/BWI Business District via MD New Ridge (direct to BWI)
8f	Guilford to US 1 to MD 100 to Fort Meade via Arundel Mills

Alignment #9 – Broken Land – Snowden River – Guildford – US 1 – Loudon Avenue/Hanover Road	
9a	Guildford to US 1 to Loudon Ave/Hanover Road to Arundel Mills via MD 170
9b	Guildford to US 1 to Loudoun Ave/Hanover Road to BWI/BWI Business District
9c	Guildford to US 1 to Loudon Ave/Hanover Road to Fort Meade via Arundel Mills (via MD 713/MD 175)
Alignment #10 – Broken Land – MD 32	
10a	Broken Land to MD 32 to Fort Meade (Mapes Road)
10b	Broken Land to MD 32 to Fort Meade and Arundel Mills via MD 713
10c	Broken Land to MD 32 to Fort Meade and Arundel Mills via Milestone Parkway
10d	Broken Land to MD 32 to Fort Meade to Arundel Mills via MD 713 to BWI/BWI Business District via MD 176/MD 170
10e	Broken Land to MD 32 to Fort Meade to Arundel Mills via MD 713 to BWI/BWI Business District via New Ridge
10f	Broken Land to MD 32 to Fort Meade to Arundel Mills via Milestone to BWI/BWI Business District via MD 176/MD 170
10g	Broken Land to MD 32 to Fort Meade to Arundel Mills via Milestone to BWI/BWI Business District via New Ridge
Alignment #11 – US 1 via Columbia Gateway to Montevideo	
11a	Columbia Gateway to US 1 to Montevideo to Race Road South to Arundel Mills via Milestone Parkway
11b	Columbia Gateway to US 1 to Montevideo to Race Road South to Arundel Mills via MD 713
11c	Columbia Gateway to US 1 to Montevideo to MD 100 to Arundel Mills
11d	Columbia Gateway to US 1 to Montevideo to Race Road South to Arundel Mills/BWI/BWI Business District via Milestone Parkway, MD 176/MD170
11e	Columbia Gateway to US 1 to Montevideo to Race Road South to Arundel Mills/BWI/BWI Business District via MD 713, MD 176/170
11f	Columbia Gateway to US 1 to Montevideo to Race Road South to Arundel Mills/BWI/BWI Business District via Milestone Parkway, New Ridge Road
11g	Columbia Gateway to US 1 to Montevideo to Race Road South to Arundel Mills/BWI/BWI Business District via MD 713, New Ridge Road
11h	Columbia Gateway to US 1 to Montevideo to Race Road North to MD 100 to Arundel Mills/BWI/BWI Business District via MD 176/MD 170 (serve Arundel Mills first)
11i	Columbia Gateway to US 1 to Montevideo to Race Road North to MD 100 to Arundel Mills/BWI/BWI Business District via MD New Ridge Road (serve Arundel Mills first)
11j	Columbia Gateway to US 1 to Montevideo to Race Road North to MD 100 to BWI/BWI Business District via MD 176/MD 170 (direct to BWI)
11k	Columbia Gateway to US 1 to Montevideo to Race Road North to MD 100 to BWI/BWI Business District via New Ridge Road (direct to BWI)
11l	Columbia Gateway to US 1 to Montevideo to Race Road South to Fort Meade via MD 175

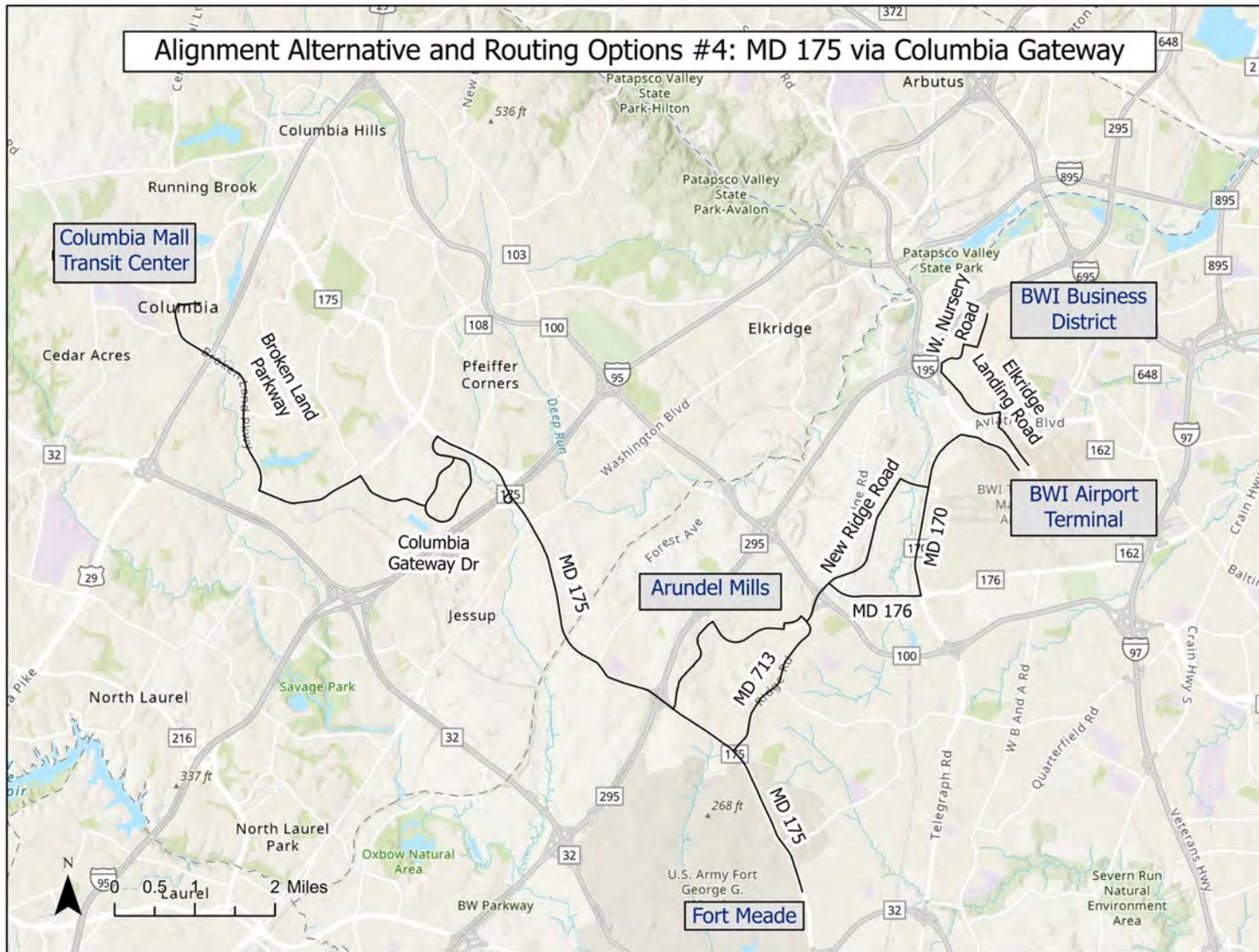
Alignment #12 – US 1 via Columbia Gateway to MD 103	
12a	Columbia Gateway to US 1 to MD 103 to Race Road South to Arundel Mills via Milestone Parkway
12b	Columbia Gateway to US 1 to MD 103 to Race Road South to Arundel Mills via MD 713
12c	Columbia Gateway to US 1 to MD 103 to MD 100 to Arundel Mills
12d	Columbia Gateway to US 1 to MD 103 to Race Road South to Arundel Mills/BWI/BWI Business District via Milestone Parkway, MD 176/MD170
12e	Columbia Gateway to US 1 to MD 103 to Race Road South to Arundel Mills/BWI/BWI Business District via Milestone Parkway, New Ridge Road
12f	Columbia Gateway to US 1 to MD 103 to Race Road South to Arundel Mills/BWI/BWI Business District via MD 713, MD 176/170
12g	Columbia Gateway to US 1 to MD 103 to Race Road South to Arundel Mills/BWI/BWI Business District via MD 713, New Ridge Road
12h	Columbia Gateway to US 1 to MD 103 to Race Road North to MD 100 to Arundel Mills/BWI/BWI Business District via MD 176/MD 170 (serve Arundel Mills first)
12i	Columbia Gateway to US 1 to MD 103 to Race Road North to MD 100 to Arundel Mills/BWI/BWI Business District via MD New Ridge Road (serve Arundel Mills first)
12j	Columbia Gateway to US 1 to MD 103 to Race Road North to MD 100 to BWI/BWI Business District via MD 176/MD 170 (direct to BWI)
12k	Columbia Gateway to US 1 to MD 103 to Race Road North to MD 100 to BWI/BWI Business District via MD New Ridge Road (direct to BWI)
12l	Columbia Gateway to US 1 to MD 103 to Coca Cola Drive to BWI/BWI Business District via Stoney Run and M 170
12m	Columbia Gateway to US 1 to MD 103 to Wright Road/MD 176 to BWI/BWI Business District via MD 176/MD 170
12n	Columbia Gateway to US 1 to MD 103 to Wright Road/MD 176 to BWI/BWI Business District via New Ridge
12o	Columbia Gateway to US 1 to MD 103 to Race Road South to Fort Meade via MD 175
Alignment #13 – US 1 via Columbia Gateway to MD 100	
13a	Columbia Gateway to US 1 to MD 100 to Arundel Mills
13b	Columbia Gateway to US 1 to MD 100 to Arundel Mills/BWI/BWI Business District via MD 176/MD 170 (serve Arundel Mills first)
13c	Columbia Gateway to US 1 to MD 100 to Arundel Mills/BWI/BWI Business District via MD New Ridge (serve Arundel Mills first)
13d	Columbia Gateway to US 1 to MD 100 to BWI/BWI Business District via MD 176/MD 170 (direct to BWI )
13e	Columbia Gateway to US 1 to MD 100 to Arundel Mills/BWI/BWI Business District via MD New Ridge (direct to BWI)
13f	Columbia Gateway to US 1 to MD 100 to Fort Meade via Arundel Mills
Alignment #13 – US 1 via Columbia Gateway to Loudon Avenue/Hanover Road	
14a	Guilford to US 1 to Loudon Ave/Hanover Road to Arundel Mills via MD 170
14b	Guilford to US 1 to Loudon Ave/Hanover Road to BWI/BWI Business District
14c	Guilford to US 1 to Loudon Ave/Hanover Road to Fort Meade via Arundel Mills (via MD 713/MD 175)

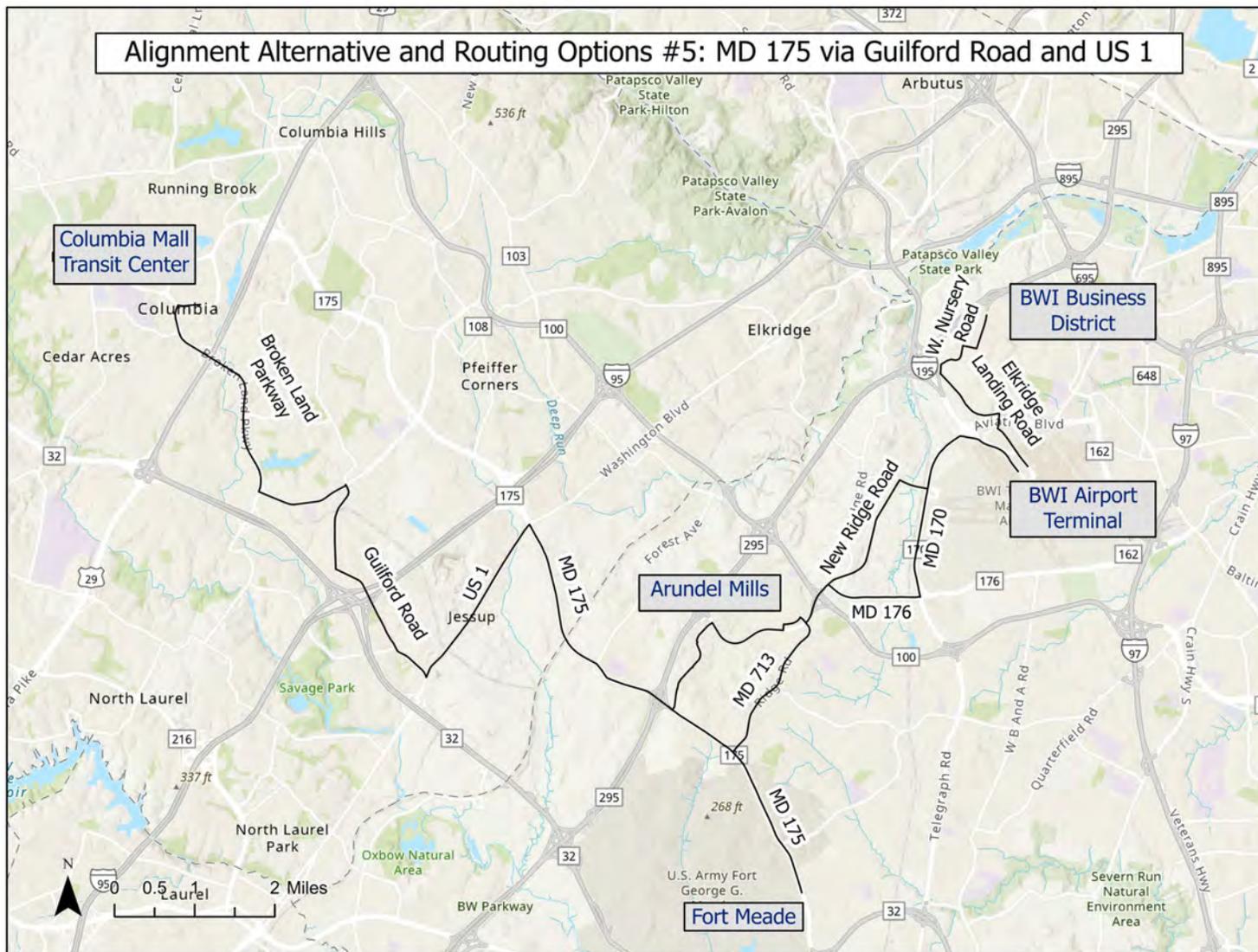
## Appendix 2 – Alignment Alternative and Routing Option Maps

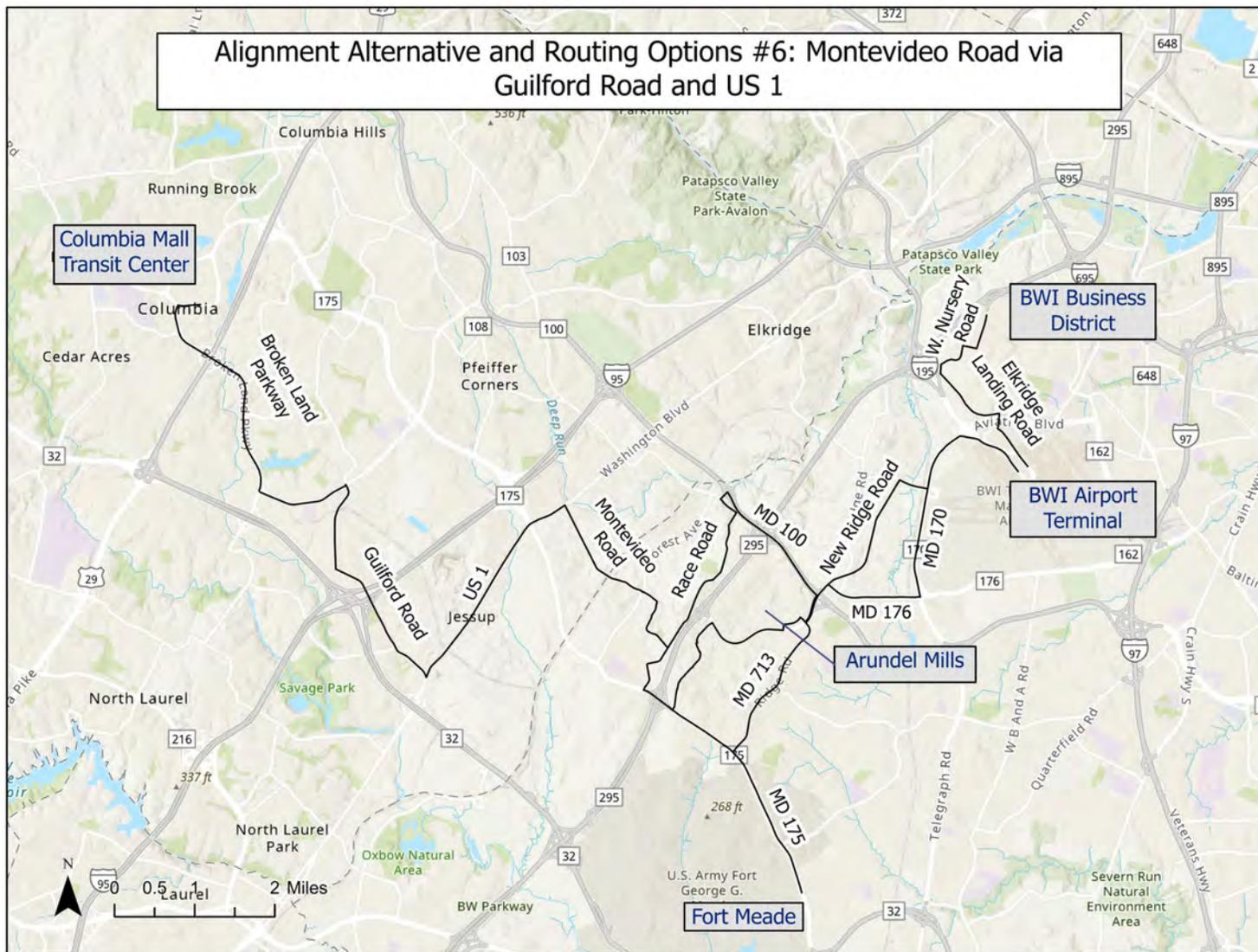


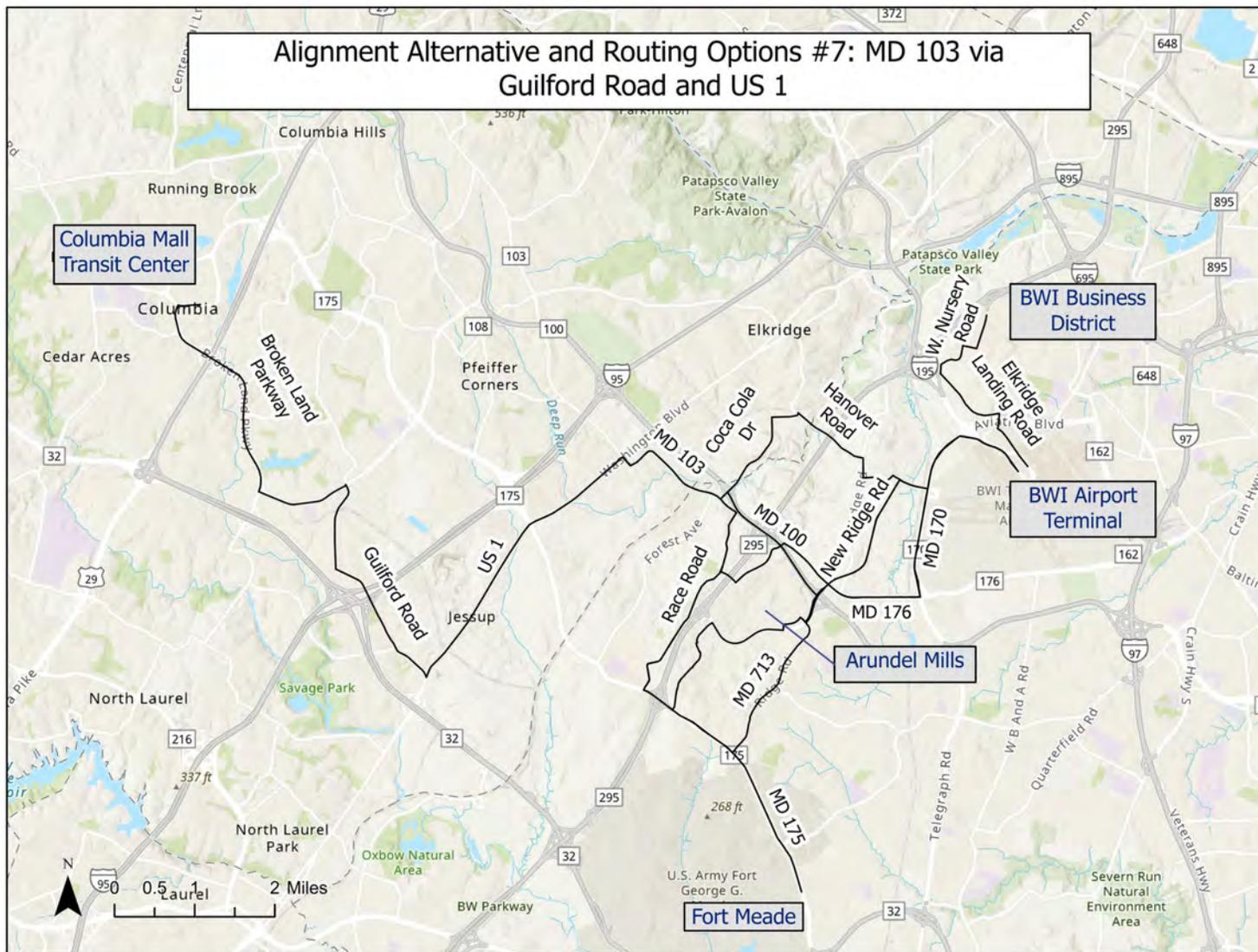


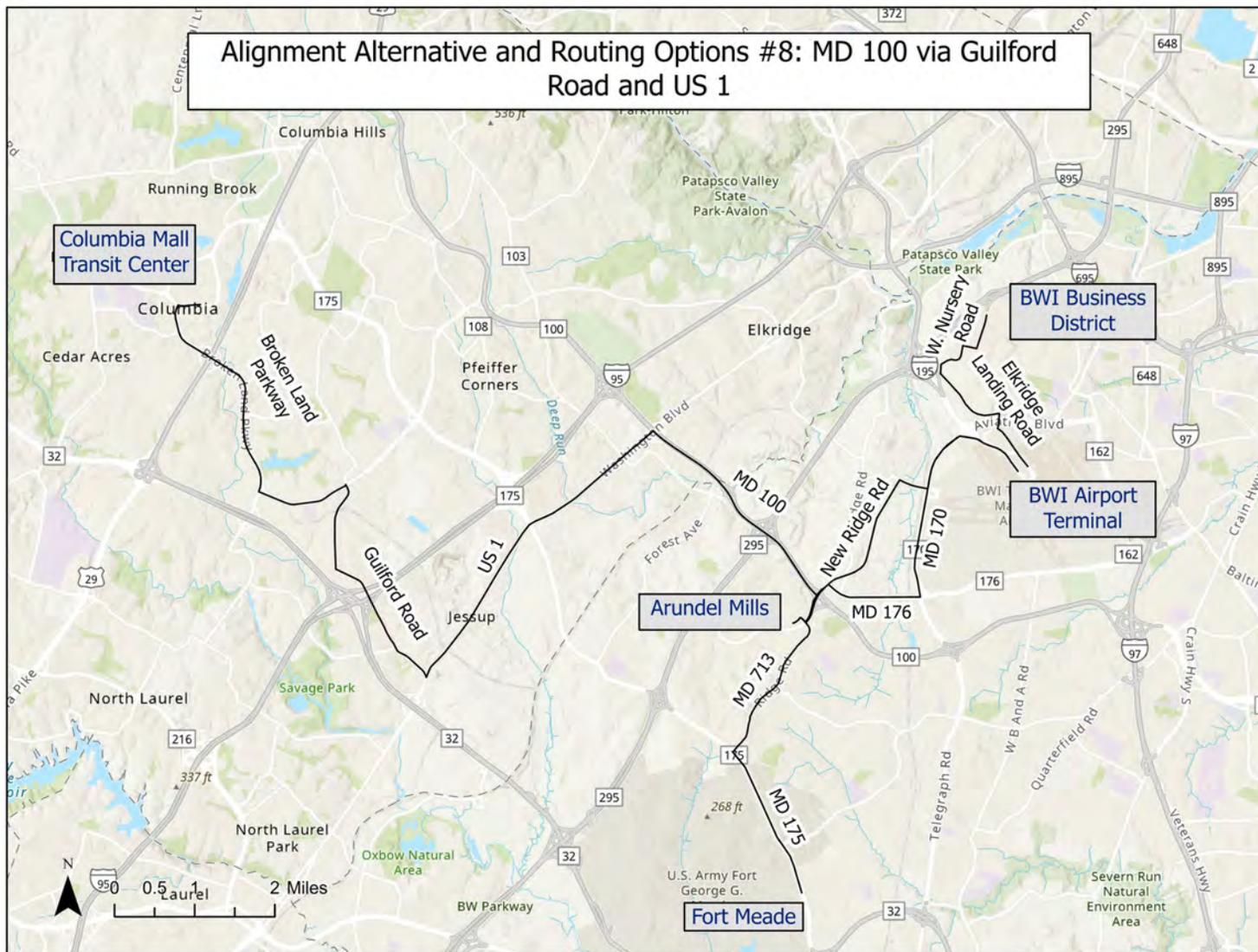


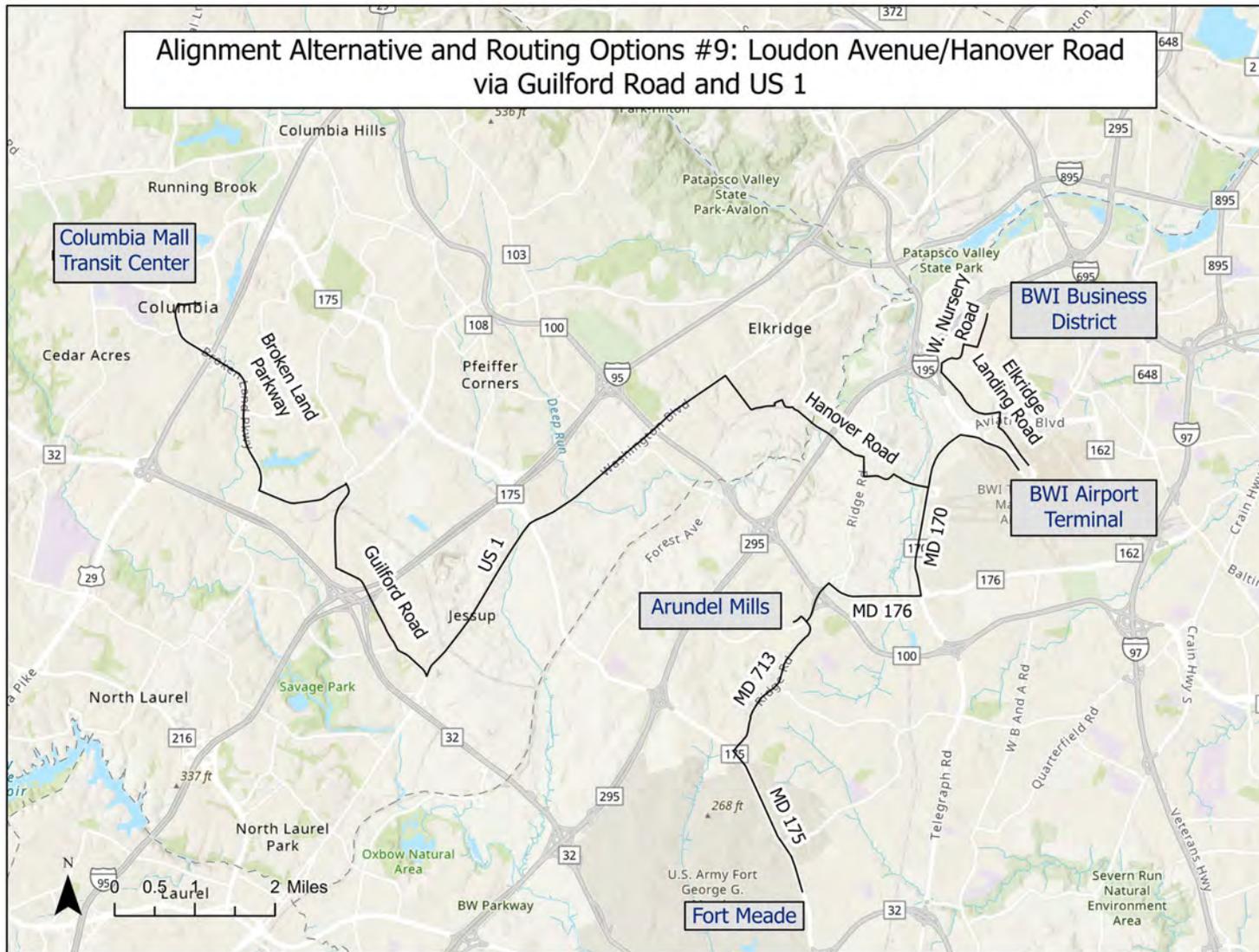




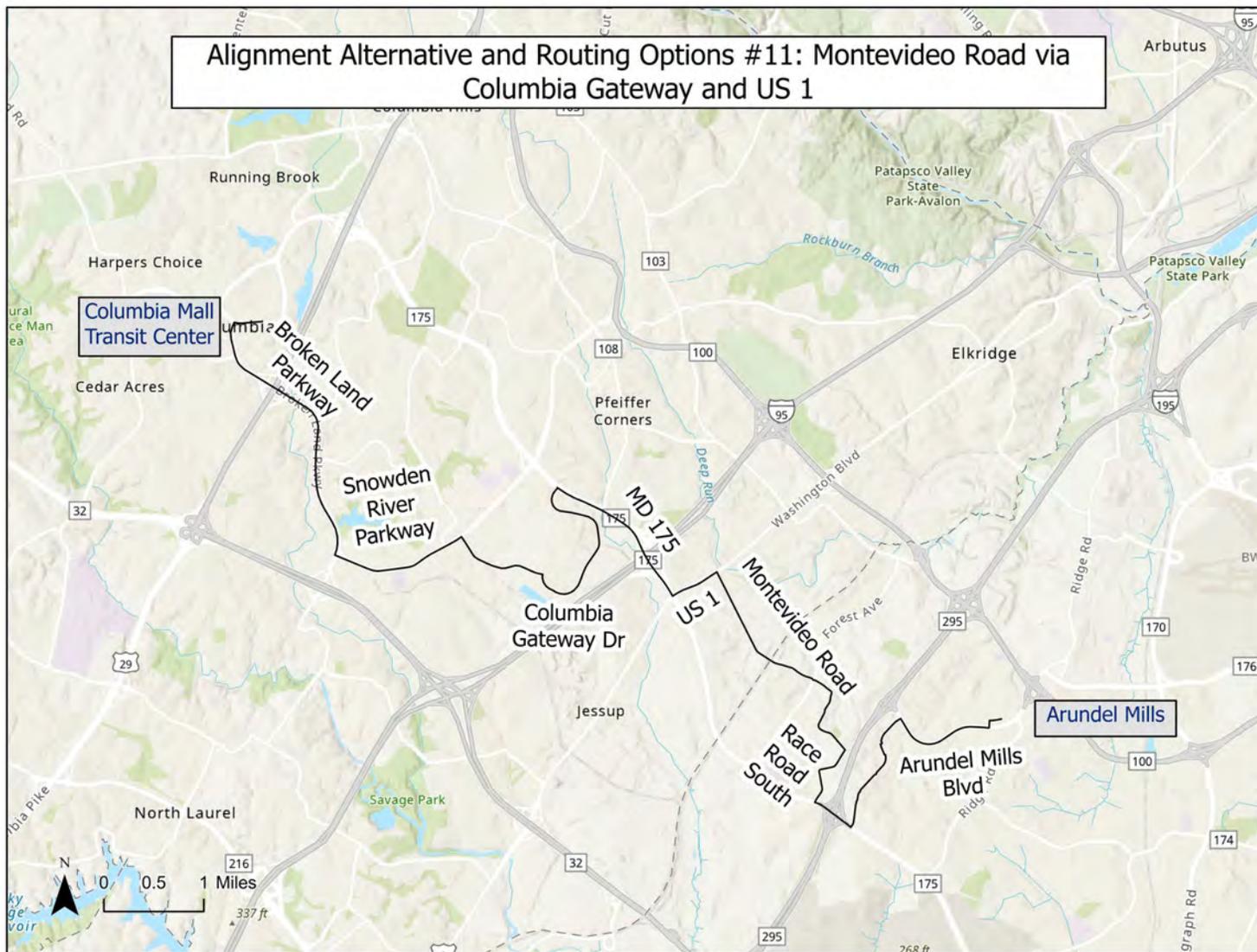


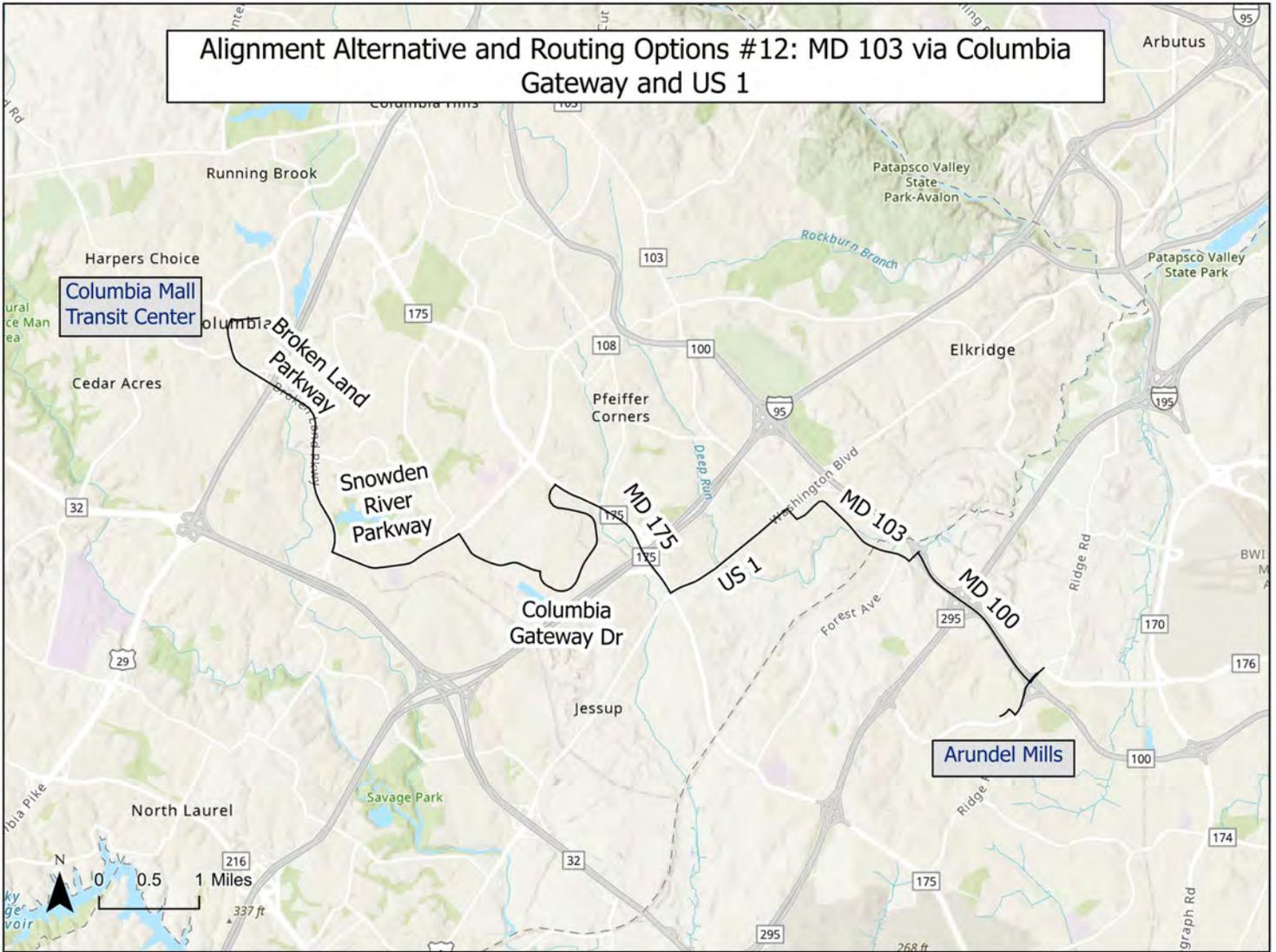


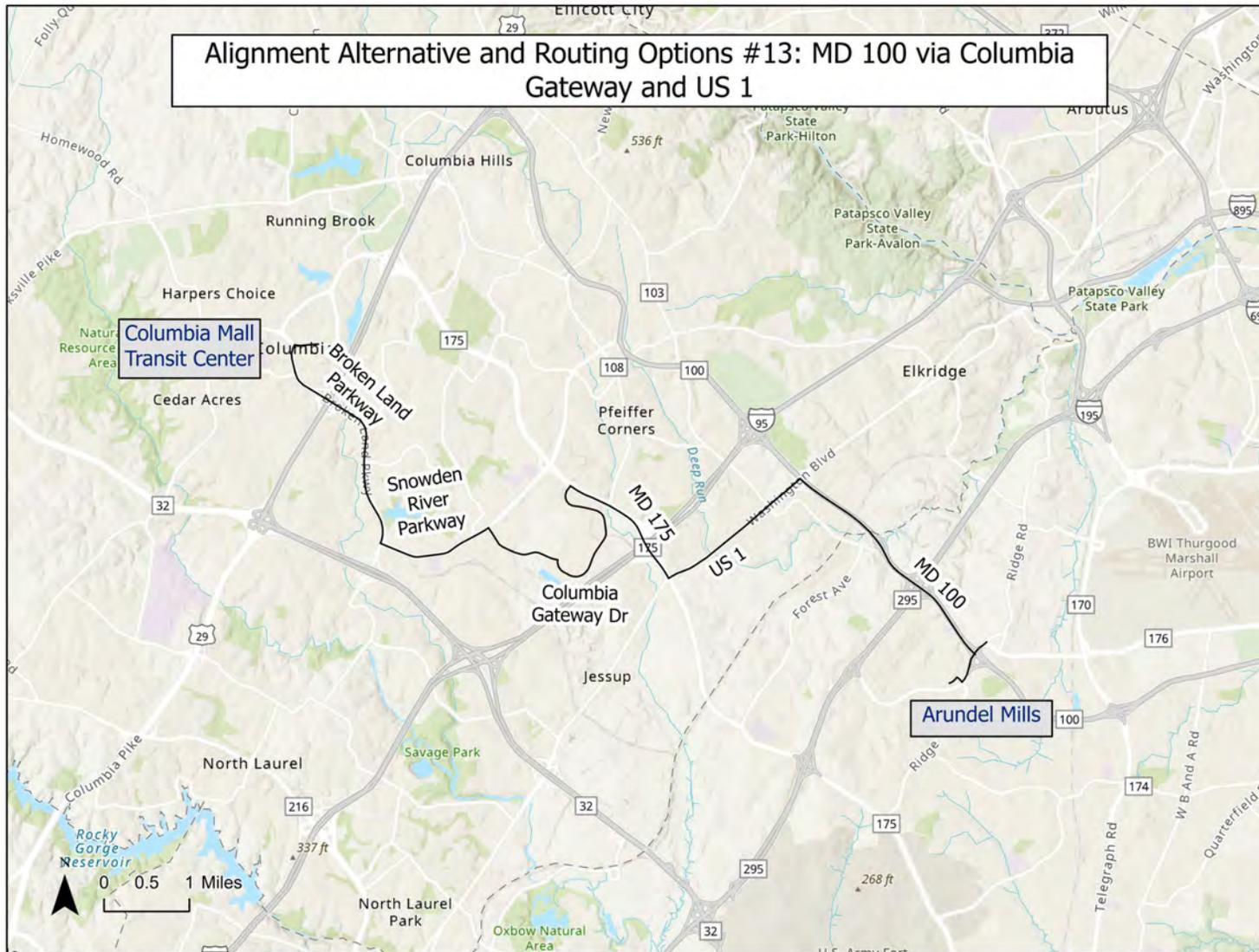


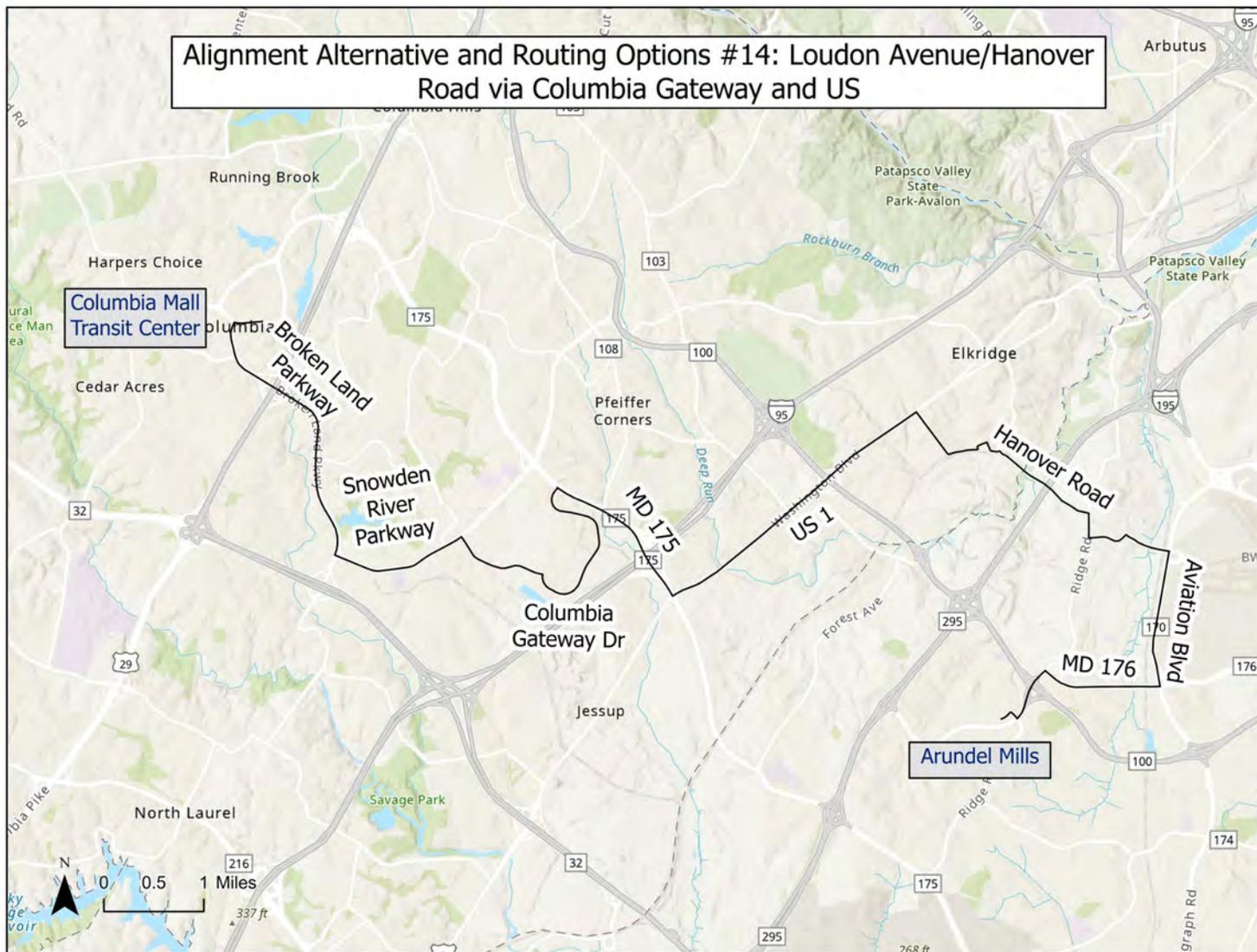












## Appendix 3 – Scoring Summary – Each Alignment Alternative/Routing Option

Alignment Alternative 1: MD 100							
Evaluation Criteria		Routing Options					
		1a	1b	1c	1d	1e	1f
<b>Ridership Potential</b>							
	Total Population within 1/2 mile of alignment	1	1	1	1	1	1
	Total Population per Route Mile	1	1	1	1	1	1
	Total Employment within 1/2 mile of alignment	2	2	1	1	1	1
	Total Employment per Route Mile	1	1	1	1	1	1
<b>Service to Specific Markets</b>							
	Number of Activity Centers Served	1	1	1	1	1	1
	Key Origin-Destination Pairs Served	1	1	1	1	0	0
	High Transit Propensity Concentrations Served	1	1	1	1	1	1
	Shopping Centers/Corridor Shopping Concentrations Served	1	1	1	1	1	1
	Government Offices Served	1	1	1	1	1	1
<b>Vulnerable Populations Served</b>							
	Vulnerable Populations Served: BMC Index	1	1	1	1	1	1
	Vulnerable Populations Served: Low Income	1	1	1	1	1	2
	Vulnerable Populations Served: Carless Households	1	1	1	1	1	1
<b>Convenience</b>							
	Transit Travel Time Compared to Auto Travel Time	3	3	3	3	3	3
	Route Directness Ratio	2	3	3	3	3	1
<b>Policy Support</b>							
	Supports Regional Plans Initiatives	2	2	2	2	2	2
<b>TOTAL</b>		<b>20</b>	<b>21</b>	<b>20</b>	<b>20</b>	<b>19</b>	<b>18</b>

Alignment Alternative 2: MD 108															
Evaluation Criteria		Routing Options													
		2a	2b	2c	2d	2e	2f	2g	2h	2i	2j	2k	2l	2m	2n
<b>Ridership Potential</b>															
	Total Population within 1/2 mile of alignment	2	2	2	2	3	3	4	4	4	3	4	4	2	3
	Total Population per Route Mile	4	4	3	3	2	2	2	2	3	2	2	2	3	3
	Total Employment within 1/2 mile of alignment	1	1	2	2	3	3	4	4	3	3	4	4	2	2
	Total Employment per Route Mile	2	2	2	2	2	3	3	3	2	2	3	3	3	3
<b>Service to Specific Markets</b>															
	Number of Activity Centers Served	1	1	1	1	2	2	3	3	2	2	3	3	1	1
	Key Origin-Destination Pairs Served	1	1	2	2	2	2	3	3	2	2	3	2	1	2
	High Transit Propensity Concentrations Served	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	Shopping Centers/Corridor Shopping Concentrations Served	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Government Offices Served	2	2	3	3	2	2	3	3	2	2	3	3	2	3
<b>Vulnerable Populations Served</b>															
	Vulnerable Populations Served: BMC Index	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	Vulnerable Populations Served: Low Income	2	2	2	2	2	2	2	2	2	2	2	2	3	3
	Vulnerable Populations Served: Carless Households	1	1	1	1	1	1	1	1	1	1	1	1	2	2
<b>Convenience</b>															
	Transit Travel Time Compared to Auto Travel Time	3	3	1	1	1	1	1	1	1	1	1	1	3	2
	Route Directness Ratio	3	2	1	1	2	2	1	1	2	2	1	1	3	1
<b>Policy Support</b>															
	Supports Regional Plans Initiatives	1	1	1	1	1	1	2	2	1	1	1	1	1	2
<b>TOTAL</b>		<b>27</b>	<b>26</b>	<b>25</b>	<b>25</b>	<b>27</b>	<b>28</b>	<b>33</b>	<b>33</b>	<b>29</b>	<b>27</b>	<b>32</b>	<b>31</b>	<b>32</b>	<b>33</b>

Alignment Alternative 3: MD 175															
Evaluation Criteria		Routing Options													
		3a	3b	3c	3d	3e	3f	3g	3h	3i	3j	3k	3l	3m	3n
<b>Ridership Potential</b>															
	Total Population within 1/2 mile of alignment	1	2	2	2	2	2	3	2	3	3	3	3	1	2
	Total Population per Route Mile	4	4	3	3	2	2	2	2	2	2	2	2	3	3
	Total Employment within 1/2 mile of alignment	1	1	2	2	3	3	3	3	4	4	4	4	2	2
	Total Employment per Route Mile	3	3	3	3	3	3	3	3	3	3	3	3	3	4
<b>Service to Specific Markets</b>															
	Number of Activity Centers Served	1	1	1	1	2	2	2	2	3	3	3	3	1	1
	Key Origin-Destination Pairs Served	2	2	3	3	3	2	2	2	3	3	3	3	2	3
	High Transit Propensity Concentrations Served	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Shopping Centers/Corridor Shopping Concentrations Served	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Government Offices Served	1	1	2	2	1	1	1	1	2	2	2	2	2	3
<b>Vulnerable Populations Served</b>															
	Vulnerable Populations Served: BMC Index	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	Vulnerable Populations Served: Low Income	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	2	2	2	2	2	2	2	3	3
<b>Convenience</b>															
	Transit Travel Time Compared to Auto Travel Time	3	3	2	1	1	1	1	1	1	1	1	1	3	2
	Route Directness Ratio	3	3	2	2	3	3	3	3	2	2	2	2	3	2
<b>Policy Support</b>															
	Supports Regional Plan Initiatives	1	1	1	1	1	1	1	1	2	2	2	2	1	2
<b>TOTAL</b>		<b>32</b>	<b>33</b>	<b>33</b>	<b>32</b>	<b>33</b>	<b>32</b>	<b>33</b>	<b>32</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>35</b>	<b>38</b>

Alignment Alternative 4: Broken Land/Snowden River/Columbia Gateway/MD 175								
Evaluation Criteria		Routing Options						
		4a	4b	4c	4d	4e	4f	4g
<b>Ridership Potential</b>								
	Total Population within 1/2 mile of alignment	2	2	3	3	3	3	2
	Total Population per Route Mile	4	4	2	2	2	2	3
	Total Employment within 1/2 mile of alignment	2	2	4	4	4	4	2
	Total Employment per Route Mile	4	4	4	4	4	4	4
<b>Service to Specific Markets</b>								
	Number of Activity Centers Served	1	1	3	3	3	3	1
	Key Origin-Destination Pairs Served	2	2	3	2	2	2	2
	High Transit Propensity Concentrations Served	2	2	2	2	2	2	2
	Shopping Centers/Corridor Shopping Concentrations Served	3	3	3	3	3	3	3
	Government Offices Served	3	3	3	3	3	3	3
<b>Vulnerable Populations Served</b>								
	Vulnerable Populations Served: BMC Index	2	3	2	2	3	3	3
	Vulnerable Populations Served: Low Income	2	2	2	2	2	2	2
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	2	3
<b>Convenience</b>								
	Transit Travel Time Compared to Auto Travel Time	3	2	1	1	1	1	3
	Route Directness Ratio	3	2	2	2	2	2	3
<b>Policy Support</b>								
	Supports Regional Plan Initiatives	2	2	2	2	2	2	2
<b>TOTAL</b>		<b>37</b>	<b>36</b>	<b>38</b>	<b>37</b>	<b>38</b>	<b>38</b>	<b>38</b>

Alignment Alternative 5: Broken Land/Snowden River/Guilford/MD 175								
Evaluation Criteria		Routing Options						
		5a	5b	5c	5d	5e	5f	5g
<b>Ridership Potential</b>								
	Total Population within 1/2 mile of alignment	3	3	4	4	4	4	3
	Total Population per Route Mile	4	4	3	3	3	3	4
	Total Employment within 1/2 mile of alignment	2	2	4	4	4	4	1
	Total Employment per Route Mile	3	3	3	3	3	3	2
<b>Service to Specific Markets</b>								
	Number of Activity Centers Served	1	1	2	2	2	2	1
	Key Origin-Destination Pairs Served	1	1	2	2	2	1	1
	High Transit Propensity Concentrations Served	2	2	2	2	2	2	3
	Shopping Centers/Corridor Shopping Concentrations Served	3	3	3	3	3	3	2
	Government Offices Served	2	2	2	2	2	2	2
<b>Vulnerable Populations Served</b>								
	Vulnerable Populations Served: BMC Index	2	3	2	2	3	3	3
	Vulnerable Populations Served: Low Income	1	1	1	1	1	1	2
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	2	3
<b>Convenience</b>								
	Transit Travel Time Compared to Auto Travel Time	2	2	1	1	1	1	3
	Route Directness Ratio	3	2	2	2	2	2	3
<b>Policy Support</b>								
	Supports Regional Plans Initiatives	2	2	3	3	3	3	3
<b>TOTAL</b>		<b>33</b>	<b>33</b>	<b>36</b>	<b>36</b>	<b>37</b>	<b>36</b>	<b>36</b>

Alignment Alternative 6: Broken Land/Snowden River/Guilford/Montevideo													
Evaluation Criteria		Routing Options											
		6a	6b	6c	6d	6e	6f	6g	6h	6i	6j	6k	6l
<b>Ridership Potential</b>													
	Total Population within 1/2 mile of alignment	3	3	3	4	4	4	4	4	4	3	3	3
	Total Population per Route Mile	4	4	3	3	3	2	3	2	2	2	2	4
	Total Employment within 1/2 mile of alignment	2	2	2	4	4	4	4	3	4	2	2	1
	Total Employment per Route Mile	2	2	3	3	2	3	3	2	2	2	2	2
<b>Service to Specific Markets</b>													
	Number of Activity Centers Served	1	1	1	2	2	2	2	2	2	1	1	1
	Key Origin-Destination Pairs Served	1	1	1	2	2	2	1	2	1	1	1	1
	High Transit Propensity Concentrations Served	2	2	2	2	2	2	2	2	2	2	2	3
	Shopping Centers/Corridor Shopping Concentrations Served	2	2	2	2	2	2	2	2	2	1	1	2
	Government Offices Served	1	1	1	1	1	1	1	1	1	1	1	1
<b>Vulnerable Populations Served</b>													
	Vulnerable Populations Served: BMC Index	2	3	2	2	3	2	3	2	2	2	2	3
	Vulnerable Populations Served: Low Income	2	2	2	2	2	2	2	2	2	2	2	3
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	2	2	2	2	2	2	3
<b>Convenience</b>													
	Transit Travel Time Compared to Auto Travel Time	2	2	1	1	1	1	1	1	1	1	1	3
	Route Directness Ratio	2	2	2	2	2	2	2	2	2	2	2	2
<b>Policy Support</b>													
	Supports Regional Plans Initiatives	3	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>		<b>31</b>	<b>32</b>	<b>30</b>	<b>35</b>	<b>35</b>	<b>34</b>	<b>35</b>	<b>32</b>	<b>32</b>	<b>27</b>	<b>27</b>	<b>35</b>

Alignment Alternative 7: Broken Land/Snowden River/Guilford/MD 103																
Evaluation Criteria		Routing Options														
		7a	7b	7c	7d	7e	7f	7g	7h	7i	7j	7k	7l	7m	7n	7o
<b>Ridership Potential</b>																
	Total Population within 1/2 mile of alignment	3	4	2	4	4	4	4	3	2	2	2	2	3	3	4
	Total Population per Route Mile	4	4	3	3	3	3	3	2	2	2	2	3	3	3	4
	Total Employment within 1/2 mile of alignment	2	2	2	4	4	4	4	4	4	2	2	2	4	4	2
	Total Employment per Route Mile	3	3	3	3	3	3	3	3	3	1	1	3	3	3	2
<b>Service to Specific Markets</b>																
	Number of Activity Centers Served	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1
	Key Origin-Destination Pairs Served	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1
	High Transit Propensity Concentrations Served	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	Shopping Centers/Corridor Shopping Concentrations Served	2	2	2	3	3	3	3	2	2	1	1	1	1	1	2
	Government Offices Served	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>Vulnerable Populations Served</b>																
	Vulnerable Populations Served: BMC Index	2	3	2	2	2	3	3	2	2	2	2	2	2	2	3
	Vulnerable Populations Served: Low Income	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
<b>Convenience</b>																
	Transit Travel Time Compared to Auto Travel Time	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	Route Directness Ratio	1	1	2	1	1	1	1	2	2	3	3	3	3	3	2
<b>Policy Support</b>																
	Supports Regional Plans Initiatives	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>		<b>30</b>	<b>32</b>	<b>29</b>	<b>35</b>	<b>35</b>	<b>36</b>	<b>35</b>	<b>33</b>	<b>31</b>	<b>26</b>	<b>26</b>	<b>29</b>	<b>32</b>	<b>32</b>	<b>36</b>

Alignment Alternative 8: Broken Land/Snowden River/Guilford/MD 100							
Evaluation Criteria		Routing Options					
		8a	8b	8c	8d	8e	8f
<b>Ridership Potential</b>							
	Total Population within 1/2 mile of alignment	1	2	2	2	2	3
	Total Population per Route Mile	3	2	2	2	2	3
	Total Employment within 1/2 mile of alignment	2	3	3	2	2	2
	Total Employment per Route Mile	2	3	3	2	2	2
<b>Service to Specific Markets</b>							
	Number of Activity Centers Served	1	1	2	2	2	1
	Key Origin-Destination Pairs Served	1	2	1	1	1	2
	High Transit Propensity Concentrations Served	2	2	2	2	2	3
	Shopping Centers/Corridor Shopping Concentrations Served	2	2	2	1	1	2
	Government Offices Served	1	1	1	1	1	1
<b>Vulnerable Populations Served</b>							
	Vulnerable Populations Served: BMC Index	2	2	2	2	2	3
	Vulnerable Populations Served: Low Income	2	2	2	2	2	3
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	3
<b>Convenience</b>							
	Transit Travel Time Compared to Auto Travel Time	3	1	1	1	1	2
	Route Directness Ratio	2	2	2	2	3	1
<b>Policy Support</b>							
	Supports Regional Plans Initiatives	3	3	3	3	3	3
<b>TOTAL</b>		<b>29</b>	<b>30</b>	<b>30</b>	<b>27</b>	<b>28</b>	<b>34</b>

Alignment Alternative 9: Broken Land/Snowden River/Guilford/Loudon-Hanover				
Evaluation Criteria		Routing Options		
		9a	9b	9c
<b>Ridership Potential</b>				
	Total Population within 1/2 mile of alignment	2	2	4
	Total Population per Route Mile	2	2	2
	Total Employment within 1/2 mile of alignment	2	2	2
	Total Employment per Route Mile	2	2	2
<b>Service to Specific Markets</b>				
	Number of Activity Centers Served	1	1	1
	Key Origin-Destination Pairs Served	2	1	2
	High Transit Propensity Concentrations Served	2	2	3
	Shopping Centers/Corridor Shopping Concentrations Served	2	1	2
	Government Offices Served	1	1	2
<b>Vulnerable Populations Served</b>				
	Vulnerable Populations Served: BMC Index	2	2	3
	Vulnerable Populations Served: Low Income	2	2	3
	Vulnerable Populations Served: Carless Households	2	2	3
<b>Convenience</b>				
	Transit Travel Time Compared to Auto Travel Time	1	1	1
	Route Directness Ratio	1	3	1
<b>Policy Support</b>				
	Supports Regional Plans Initiatives	3	3	3
<b>TOTAL</b>		<b>27</b>	<b>27</b>	<b>34</b>

Alignment Alternative 10: Broken Land/MD 32								
Evaluation Criteria		Routing Options						
		10a	10b	10c	10d	10e	10f	10g
<b>Ridership Potential</b>								
	Total Population within 1/2 mile of alignment	1	1	1	2	2	2	2
	Total Population per Route Mile	1	2	1	1	1	1	1
	Total Employment within 1/2 mile of alignment	1	1	1	2	2	2	2
	Total Employment per Route Mile	1	1	1	1	1	1	1
<b>Service to Specific Markets</b>								
	Number of Activity Centers Served	1	1	1	2	2	2	2
	Key Origin-Destination Pairs Served	1	1	1	2	1	2	2
	High Transit Propensity Concentrations Served	3	3	3	3	3	3	3
	Shopping Centers/Corridor Shopping Concentrations Served	1	1	2	1	1	2	2
	Government Offices Served	1	1	1	1	1	1	1
<b>Vulnerable Populations Served</b>								
	Vulnerable Populations Served: BMC Index	1	2	1	2	2	1	1
	Vulnerable Populations Served: Low Income	2	2	2	2	2	2	2
	Vulnerable Populations Served: Carless Households	3	3	3	3	3	3	3
<b>Convenience</b>								
	Transit Travel Time Compared to Auto Travel Time	3	3	3	1	1	1	1
	Route Directness Ratio	3	1	1	1	1	1	1
<b>Policy Support</b>								
	Support Regional Plans Initiatives	1	1	1	1	1	1	1
<b>TOTAL</b>		<b>24</b>	<b>24</b>	<b>23</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>25</b>

Alignment Alternative 11: US 1 via Columbia Gateway to Montevideo													
Evaluation Criteria		Routing Options											
		11a	11b	11c	11d	11e	11f	11g	11h	11i	11j	11k	11l
<b>Ridership Potential</b>													
	Total Population within 1/2 mile of alignment	2	2	2	3	3	2	3	2	2	2	2	2
	Total Population per Route Mile	3	3	3	2	2	2	2	2	2	2	2	3
	Total Employment within 1/2 mile of alignment	2	2	2	4	4	4	4	4	4	3	4	2
	Total Employment per Route Mile	3	3	3	3	3	3	3	3	3	3	3	3
<b>Service to Specific Markets</b>													
	Number of Activity Centers Served	1	1	1	3	3	3	3	3	3	2	2	1
	Key Origin-Destination Pairs Served	2	2	2	3	3	3	2	3	2	2	2	2
	High Transit Propensity Concentrations Served	2	2	2	2	2	2	2	2	2	2	2	3
	Shopping Centers/Corridor Shopping Concentrations Served	3	3	2	3	3	3	3	2	2	2	2	2
	Government Offices Served	2	2	2	2	2	2	2	2	2	2	2	2
<b>Vulnerable Populations Served</b>													
	Vulnerable Populations Served: BMC Index	2	3	2	2	3	2	3	2	2	2	2	3
	Vulnerable Populations Served: Low Income	3	3	3	3	3	3	3	3	3	3	3	3
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	2	2	2	2	2	2	3
<b>Convenience</b>													
	Transit Travel Time Compared to Auto Travel Time	2	2	2	1	1	1	1	1	1	1	1	3
	Route Directness Ratio	2	2	2	2	2	2	2	2	2	2	2	2
<b>Policy Support</b>													
	Supports Regional Plans Initiatives	3	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>		<b>34</b>	<b>35</b>	<b>33</b>	<b>38</b>	<b>39</b>	<b>37</b>	<b>38</b>	<b>36</b>	<b>35</b>	<b>33</b>	<b>34</b>	<b>37</b>

Alignment Alternative 12: US 1 via Columbia Gateway to MD 103																
Evaluation Criteria		Routing Options														
		12a	12b	12c	12d	12e	12f	12g	12h	12i	12j	12k	12l	12m	12n	12o
<b>Ridership Potential</b>																
	Total Population within 1/2 mile of alignment	2	3	1	3	3	4	4	2	2	1	1	2	2	2	3
	Total Population per Route Mile	3	3	3	2	2	2	2	2	1	2	1	2	3	2	3
	Total Employment within 1/2 mile of alignment	2	2	2	4	4	4	4	4	4	3	3	3	4	4	2
	Total Employment per Route Mile	4	3	4	3	3	3	3	3	3	3	3	3	4	4	3
<b>Service to Specific Markets</b>																
	Number of Activity Centers Served	1	1	1	3	3	3	3	3	3	3	3	3	3	3	1
	Key Origin-Destination Pairs Served	2	2	2	3	3	3	2	3	2	2	2	2	2	2	2
	High Transit Propensity Concentrations Served	2	2	2	2	2	2	2	2	2	2	2	2	2	3	
	Shopping Centers/Corridor Shopping Concentrations Served	3	3	2	3	3	3	3	2	2	2	2	2	2	2	2
	Government Offices Served	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
<b>Vulnerable Populations Served</b>																
	Vulnerable Populations Served: BMC Index	2	3	2	2	2	3	3	2	2	2	2	2	2	2	3
	Vulnerable Populations Served: Low Income	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
<b>Convenience</b>																
	Transit Travel Time Compared to Auto Travel Time	1	1	3	1	1	1	1	1	1	1	1	1	1	1	2
	Route Directness Ratio	2	1	3	1	2	2	2	2	2	3	3	3	3	3	2
<b>Policy Support</b>																
	Supports Regional Plans Initiatives	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>		<b>34</b>	<b>34</b>	<b>35</b>	<b>37</b>	<b>38</b>	<b>40</b>	<b>39</b>	<b>36</b>	<b>34</b>	<b>34</b>	<b>33</b>	<b>35</b>	<b>38</b>	<b>38</b>	<b>34</b>

Alignment Alternative 13: US 1 via Columbia Gateway to MD 100							
Evaluation Criteria		Routing Options					
		13a	13b	13c	13d	13e	13f
<b>Ridership Potential</b>							
	Total Population within 1/2 mile of alignment	1	1	1	1	1	2
	Total Population per Route Mile	2	1	1	1	1	2
	Total Employment within 1/2 mile of alignment	2	4	4	2	3	2
	Total Employment per Route Mile	3	3	3	3	3	3
<b>Service to Specific Markets</b>							
	Number of Activity Centers Served	1	3	3	2	2	2
	Key Origin-Destination Pairs Served	2	3	2	2	2	2
	High Transit Propensity Concentrations Served	2	2	2	2	2	3
	Shopping Centers/Corridor Shopping Concentrations Served	2	2	2	2	2	2
	Government Offices Served	2	2	2	2	2	2
<b>Vulnerable Populations Served</b>							
	Vulnerable Populations Served: BMC Index	2	2	2	2	2	3
	Vulnerable Populations Served: Low Income	3	3	3	3	3	3
	Vulnerable Populations Served: Carless Households	2	2	2	2	2	3
<b>Convenience</b>							
	Transit Travel Time Compared to Auto Travel Time	3	1	1	2	2	2
	Route Directness Ratio	2	2	2	2	2	1
<b>Policy Support</b>							
	Support Regional Plans Initiatives	3	3	3	3	3	3
<b>TOTAL</b>		<b>32</b>	<b>34</b>	<b>33</b>	<b>31</b>	<b>32</b>	<b>35</b>

Alignment Alternative 14: US 1 via Columbia Gateway to Loudon/Hanover				
Evaluation Criteria		Routing Options		
		14a	14b	14c
<b>Ridership Potential</b>				
	Total Population within 1/2 mile of alignment	2	1	3
	Total Population per Route Mile	2	1	2
	Total Employment within 1/2 mile of alignment	2	3	3
	Total Employment per Route Mile	3	3	2
<b>Service to Specific Markets</b>				
	Number of Activity Centers Served	1	2	2
	Key Origin-Destination Pairs Served	2	2	2
	High Transit Propensity Concentrations Served	2	2	3
	Shopping Centers/Corridor Shopping Concentrations Served	2	2	3
	Government Offices Served	2	2	2
<b>Vulnerable Populations Served</b>				
	Vulnerable Populations Served: BMC Index	2	2	3
	Vulnerable Populations Served: Low Income	3	3	3
	Vulnerable Populations Served: Carless Households	2	2	3
<b>Convenience</b>				
	Transit Travel Time Compared to Auto Travel Time	1	1	1
	Route Directness Ratio	1	3	1
<b>Policy Support</b>				
	Supports Regional Plans Initiatives	3	3	3
<b>TOTAL</b>		<b>30</b>	<b>32</b>	<b>36</b>

## Appendix 4 – Scoring Backup by Evaluation Criterion

## Scoring Backup - BMC Index - By Alignment Alternative/Routing Option

BMC Vulnerability index > 5

Locations Meeting Criteria

1. Columbia Town Center		points	
2. Broken Land #1	1-4 locations		1
3. Broken Land #2	5-6 locations		2
4. Snowden	> 7 locations		3
5. Route 1 n/o 175 #1			
6. Route 1 n/o 175 #2			
7. 175 - Milestone to 713			
8. 175 - Fort Meade			

1.	MD 100 Alignment			Score
	1a.	1	1	1
	1b.	1	1	1
	1c.	1	1	1
	1d.	1	1	1
	1e.	1	1	1
	1f.	1	1	1
2	MD 108 Alignment			
	2a	1,5, 6	3	1
	2b	1,5, 6, 7	4	1
	2c	1,5, 6	3	1
	2d	1,5, 6, 7	4	1
	2e	1, 5, 6	3	1
	2f	1,5,6	3	1
	2g	1,5, 6,	3	1
	2h	1,5, 6,	3	1
	2i	1,5, 6, 7	4	1
	2j	1,5, 6, 7	4	1
	2k	1,5, 6, 7	4	1
	2l	1,5, 6, 7	4	1
	2m	1,5, 6, 7, 8	5	2
	2n	1,5, 6, 7, 8	5	2
3	MD 175 Alignment			
	3a	1, 5, 6,	3	1
	3b.	1, 5, 6, 7	4	1
	3c.	1, 5, 6,	3	1
	3d.	1, 5, 6, 7	4	1
	3e	1, 5, 6	3	1

	3f	1, 5, 6	3	1
	3g	1, 5, 6, 7	4	1
	3h	1, 5, 6, 7	4	1
	3i	1, 5, 6	3	1
	3j	1, 5, 6	3	1
	3k	1, 5, 6, 7	4	1
	3l	1, 5, 6, 7	4	1
	3m	1, 5, 6, 7, 8	5	2
	3n	1, 5, 6, 7, 8	5	2
4	Broken Land/Snowden River/Columbia GatewayMD 175			
	4a	1, 2, 3, 4, 5, 6	6	2
	4b	1, 2, 3, 4, 5, 6, 7	7	3
	4c	1, 2, 3, 4, 5, 6	6	2
	4d	1, 2, 3, 4, 5, 6	6	2
	4e	1, 2, 3, 4, 5, 6, 7	7	3
	4f	1, 2, 3, 4, 5, 6, 7	7	3
	4g	1, 2, 3, 4, 5, 6, 7, 8	8	3
5	Broken Land - Snowden - Guilford - US 1 - MD 175			
	5a	1, 2, 3, 4, 5, 6	6	2
	5b	1, 2, 3, 4, 5, 6, 7	7	3
	5c	1, 2, 3, 4, 5, 6	6	2
	5d	1, 2, 3, 4, 5, 6	6	2
	5e	1, 2, 3, 4, 5, 6, 7	7	3
	5f	1, 2, 3, 4, 5, 6, 7	7	3
	5g	1, 2, 3, 4, 5, 6, 7, 8	8	3
6	Broken Land - Snowden - Guildford - US 1 - Montevideo			
	6a	1, 2, 3, 4, 5, 6	6	2
	6b	1, 2, 3, 4, 5, 6, 7	7	3
	6c	1, 2, 3, 4, 5, 6	6	2
	6d	1, 2, 3, 4, 5, 6	6	2
	6e	1, 2, 3, 4, 5, 6, 7	7	3
	6f	1, 2, 3, 4, 5, 6	6	2
	6g	1, 2, 3, 4, 5, 6, 7	7	3
	6h	1, 2, 3, 4, 5, 6	6	2
	6i	1, 2, 3, 4, 5, 6	6	2
	6j	1, 2, 3, 4, 5, 6	6	2
	6k	1, 2, 3, 4, 5, 6	6	2
	6l	1, 2, 3, 4, 5, 6, 7, 8	8	3
7	Broken Land - Snowden - Guildford - US 1 - MD 103			

	7a	1, 2, 3, 4, 5, 6	6	2
	7b	1, 2, 3, 4, 5, 6, 7	7	3
	7c	1, 2, 3, 4, 5, 6	6	2
	7d	1, 2, 3, 4, 5, 6	6	2
	7e	1, 2, 3, 4, 5, 6	6	2
	7f	1, 2, 3, 4, 5, 6, 7	7	3
	7g	1, 2, 3, 4, 5, 6, 7	7	3
	7h	1, 2, 3, 4, 5, 6	6	2
	7i	1, 2, 3, 4, 5, 6	6	2
	7j	1, 2, 3, 4, 5, 6	6	2
	7k	1, 2, 3, 4, 5, 6	6	2
	7l	1, 2, 3, 4, 5, 6	6	2
	7m	1, 2, 3, 4, 5, 6	6	2
	7n	1, 2, 3, 4, 5, 6	6	2
	7o	1, 2, 3, 4, 5, 6, 7, 8	8	3
8	Broken Land - Snowden - Guildford - US 1 - MD 100			
	8a	1, 2, 3, 4, 5, 6	6	2
	8b	1, 2, 3, 4, 5, 6	6	2
	8c	1, 2, 3, 4, 5, 6	6	2
	8d	1, 2, 3, 4, 5, 6	6	2
	8e	1, 2, 3, 4, 5, 6	6	2
	8f	1, 2, 3, 4, 5, 6, 7, 8	8	3
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road			
	9a	1, 2, 3, 4, 5, 6	6	2
	9b	1, 2, 3, 4, 5, 6	6	2
	9c	1, 2, 3, 4, 5, 6, 7, 8	8	3
10	Broken Land - MD 32			
	10a	1, 2, 3, 8	4	1
	10b	1, 2, 3, 8, 7	5	2
	10c	1, 2, 3, 8	4	1
	10d	1, 2, 3, 8, 7	5	2
	10e	1, 2, 3, 8, 7	5	2
	10f	1, 2, 3, 8	4	1
	10g	1, 2, 3, 8	4	1
11	US 1 via Columbia Gateway to Montevideo			
	11a	1, 2, 3, 4, 5, 6	6	2

11b	1, 2, 3, 4, 5, 6, 7	7	3
11c	1, 2, 3, 4, 5, 6	6	2
11d	1, 2, 3, 4, 5, 6	6	2
11e	1, 2, 3, 4, 5, 6, 7	7	3
11f	1, 2, 3, 4, 5, 6	6	2
11g	1, 2, 3, 4, 5, 6, 7	7	3
11h	1, 2, 3, 4, 5, 6	6	2
11i	1, 2, 3, 4, 5, 6	6	2
11j	1, 2, 3, 4, 5, 6	6	2
11k	1, 2, 3, 4, 5, 6	6	2
11l	1, 2, 3, 4, 5, 6, 7, 8	8	3

12 US 1 via Columbia Gateway MD 103

12a	1, 2, 3, 4, 5, 6	6	2
12b	1, 2, 3, 4, 5, 6, 7	7	3
12c	1, 2, 3, 4, 5, 6	6	2
12d	1, 2, 3, 4, 5, 6	6	2
12e	1, 2, 3, 4, 5, 6	6	2
12f	1, 2, 3, 4, 5, 6, 7	7	3
12g	1, 2, 3, 4, 5, 6, 7	7	3
12h	1, 2, 3, 4, 5, 6	6	2
12i	1, 2, 3, 4, 5, 6	6	2
12j	1, 2, 3, 4, 5, 6	6	2
12k	1, 2, 3, 4, 5, 6	6	2
12l	1, 2, 3, 4, 5, 6	6	2
12m	1, 2, 3, 4, 5, 6	6	2
12n	1, 2, 3, 4, 5, 6	6	2
12o	1, 2, 3, 4, 5, 6, 7, 8	8	3

13 US 1 via Columbia Gateway to MD 100

13a	1, 2, 3, 4, 5, 6	6	2
13b	1, 2, 3, 4, 5, 6	6	2
13c	1, 2, 3, 4, 5, 6	6	2
13d	1, 2, 3, 4, 5, 6	6	2
13e	1, 2, 3, 4, 5, 6	6	2
13f	1, 2, 3, 4, 5, 6, 7, 8	8	3

14 US 1 via Columbia Gateway to Loudon Avenue/Hanover Road

14a	1, 2, 3, 4, 5, 6	6	2
14b	1, 2, 3, 4, 5, 6	6	2
14c	1, 2, 3, 4, 5, 6, 7, 8	8	3

**Scoring Backup - Low Income - By Alignment Alternative/Routing Option**

Locations with >15% poverty level

1. Columbia Town Center
2. 175- Columbia
3. 108 and 175
4. Route 1 - n/o 175
5. Fort Meade

Scoring	1 location	1
	2 locations	2
	3 or greater locations	3

		# Locations	Score
1.	MD 100 Alignment		
	1a.	1	1
	1b.	1	1
	1c.	1	1
	1d.	1	1
	1e.	1	1
	1f.	1, 2	2
2	MD 108 Alignment		
	2a	1, 3	2
	2b	1, 3	2
	2c	1, 3	2
	2d	1, 3	2
	2e	1,3	2
	2f	1,3	2
	2g	1,3	2
	2h	1,3	2
	2i	1,3	2
	2j	1,3	2
	2k	1,3	2
	2l	1,3	2
	2m	1,3, 5	3
	2n	1,3, 5	3
3	MD 175 Alignment		
	3a	1, 2, 3	3
	3b.	1, 2, 3	3
	3c.	1, 2, 3	3
	3d.	1, 2, 3	3

	3e	1, 2, 3	3
	3f	1, 2, 3	3
	3g	1, 2, 3	3
	3h	1, 2, 3	3
	3i	1, 2, 3	3
	3j	1, 2, 3	3
	3k	1, 2, 3	3
	3l	1, 2, 3	3
	3m	1, 2, 3, 5	3
	3n	1, 2, 3, 5	3
4	Broken Land/Snowden River/Columbia GatewayMD 175		
	4a	1,3	2
	4b	1,3	2
	4c	1,3	2
	4d	1,3	2
	4e	1,3	2
	4f	1,3	2
	4g	1, 3, 5	3
5	Broken Land - Snowden - Guilford - US 1 - MD 175		
	5a	1	1
	5b	1	1
	5c	1	1
	5d	1	1
	5e	1	1
	5f	1	1
	5g	1, 5	2
6	Broken Land - Snowden - Guildford - US 1 - Montevideo		
	6a	1, 4	2
	6b	1, 4	2
	6c	1, 4	2
	6d	1, 4	2
	6e	1, 4	2
	6f	1, 4	2
	6g	1, 4	2
	6h	1, 4	2
	6i	1, 4	2
	6j	1, 4	2
	6k	1, 4	2
	6l	1, 4, 5	3
7	Broken Land - Snowden - Guildford - US 1 - MD 103		

7a	1, 4	2
7b	1, 4	2
7c	1, 4	2
7d	1, 4	2
7e	1, 4	2
7f	1, 4	2
7g	1, 4	2
7h	1, 4	2
7i	1, 4	2
7j	1, 4	2
7k	1, 4	2
7l	1, 4	2
7m	1, 4	2
7n	1, 4	2
7o	1, 4, 5	3
8	Broken Land - Snowden - Guildford - US 1 - MD 100	
8a	1, 4	2
8b	1, 4	2
8c	1, 4	2
8d	1, 4	2
8e	1, 4	2
8f	1, 4, 5	3
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road	
9a	1, 4	2
9b	1, 4	2
9c	1, 4, 5	3
10	Broken Land - MD 32	
10a	1, 5	2
10b	1, 5	2
10c	1, 5	2
10d	1, 5	2
10e	1, 5	2
10f	1, 5	2
10g	1, 5	2
11	US 1 via Columbia Gateway to Montevideo	

11a	1, 3, 4	3
11b	1, 3, 4	3
11c	1, 3, 4	3
11d	1, 3, 4	3
11e	1, 3, 4	3
11f	1, 3, 4	3
11g	1, 3, 4	3
11h	1, 3, 4	3
11i	1, 3, 4	3
11j	1, 3, 4	3
11k	1, 3, 4	3
11l	1, 3, 4, 5	3

12 US 1 via Columbia Gateway MD 103

12a	1, 3, 4	3
12b	1, 3, 4	3
12c	1, 3, 4	3
12d	1, 3, 4	3
12e	1, 3, 4	3
12f	1, 3, 4	3
12g	1, 3, 4	3
12h	1, 3, 4	3
12i	1, 3, 4	3
12j	1, 3, 4	3
12k	1, 3, 4	3
12l	1, 3, 4	3
12m	1, 3, 4	3
12n	1, 3, 4	3
12o	1, 3, 4, 5	3

13 US 1 via Columbia Gateway to MD 100

13a		
13b	1, 3, 4	3
13c	1, 3, 4	3
13d	1, 3, 4	3
13e	1, 3, 4	3
13f	1, 3, 4, 5	3

14 US 1 via Columbia Gateway to Loudon Avenue/Hanover Road

14a	1, 3, 4	3
14b	1, 3, 4	3
14c	1, 3, 4, 5	3

**Scoring Backup – Carless Households - By Alignment Alternative/ Routing Option**

Locations with High Carless Households

Criteria - Census Blocks with > 15% Carless Households

- 1. Columbia Town Center
- 2. Broken Land Parkway                      one location                      1 point
- 3. 175 - Columbia                              two locations                      2 point
- 4. Fort Meade                                    3 or more                            3 points

1.	MD 100 Alignment	Locations	Score
	1a.	1	1
	1b.	1	1
	1c.	1	1
	1d.	1	1
	1e.	1	1
	1f.	1	1
2	MD 108 Alignment		
	2a	1	1
	2b	1	1
	2c	1	1
	2d	1	1
	2e	1	1
	2f	1	1
	2g	1	1
	2h	1	1
	2i	1	1
	2j	1	1
	2k	1	1
	2l	1	1
	2m	1, 4	2
	2n	1, 4	2
3	MD 175 Alignment		
	3a	1, 3	2
	3b.	1, 3	2
	3c.	1,3	2
	3d.	1, 3	2
	3e	1,3	2
	3f	1,3	2
	3g	1,3	2

	3h	1, 3	2
	3i	1, 3	2
	3j	1, 3	2
	3k	1, 3	2
	3l	1, 3	2
	3m	1, 3, 4	3
	3n	1, 3, 4	3
4	Broken Land/Snowden River/Columbia GatewayMD 175		
	4a	1, 2	2
	4b	1, 2	2
	4c	1, 2	2
	4d	1, 2	2
	4e	1, 2	2
	4f	1, 2	2
	4g	1, 2, 4	3
5	Broken Land - Snowden - Guilford - US 1 - MD 175		
	5a	1, 2	2
	5b	1, 2	2
	5c	1, 2	2
	5d	1, 2	2
	5e	1, 2	2
	5f	1, 2	2
	5g	1, 2, 4	3
6	Broken Land - Snowden - Guildford - US 1 - Montivideo		
	6a	1, 2	2
	6b	1, 2	2
	6c	1, 2	2
	6d	1, 2	2
	6e	1, 2	2
	6f	1, 2	2
	6g	1, 2	2
	6h	1, 2	2
	6i	1, 2	2
	6j	1, 2	2
	6k	1, 2	2
	6l	1, 2, 4	3
7	Broken Land - Snowden - Guildford - US 1 - MD 103		
	7a	1, 2	2
	7b	1, 2	2

	7c	1, 2	2
	7d	1, 2	2
	7e	1, 2	2
	7f	1, 2	2
	7g	1, 2	2
	7h	1, 2	2
	7i	1, 2	2
	7j	1, 2	2
	7k	1, 2	2
	7l	1, 2	2
	7m	1, 2	2
	7n	1, 2	2
	7o	1, 2, 4	3
8	Broken Land - Snowden - Guildford - US 1 - MD 100		
	8a	1, 2	2
	8b	1, 2	2
	8c	1, 2	2
	8d	1, 2	2
	8e	1, 2	2
	8f	1, 2, 4	3
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road		
	9a	1, 2	2
	9b	1, 2	2
	9c	1, 2, 4	3
10	Broken Land - MD 32		
	10a	1, 2, 4	3
	10b	1, 2, 4	3
	10c	1, 2, 4	3
	10d	1, 2, 4	3
	10e	1, 2, 4	3
	10f	1, 2, 4	3
	10g	1, 2, 4	3
11	US 1 via Columbia Gateway to Montivideo		
	11a	1, 2	2
	11b	1, 2	2
	11c	1, 2	2

	11d	1, 2	2
	11e	1, 2	2
	11f	1, 2	2
	11g	1, 2	2
	11h	1, 2	2
	11i	1, 2	2
	11j	1, 2	2
	11k	1, 2	2
	11l	1, 2, 4	3
12	US 1 via Columbia Gateway MD 103		
	12a	1, 2	2
	12b	1, 2	2
	12c		
	12d	1, 2	2
	12e	1, 2	2
	12f	1, 2	2
	12g	1, 2	2
	12h	1, 2	2
	12i	1, 2	2
	12j	1, 2	2
	12k	1, 2	2
	12l	1, 2	2
	12m	1, 2	2
	12n	1, 2	2
	12o	1, 2, 4	3
13	US 1 via Columbia Gateway to MD 100		
	13a	1, 2	2
	13b	1, 2	2
	13c	1, 2	2
	13d	1, 2	2
	13e	1, 2	2
	13f	1, 2, 4	3
14	US 1 via Columbia Gateway to Loudon Avenue/Hanover Road		
	14a	1, 2	2
	14b	1, 2	2
	14c	1, 2, 4	3

**Scoring Backup - Activity Centers - By Alignment Alternative/ Routing Option**

a. 0 to 4	1 point
b. 5	2 points
c. 6 or greater	3 points

**Activity Centers Evaluated**

- Columbia Town Center
- Columbia Gateway
- Maryland Food Center
- Arundel Mills
- BWI Airport
- BWI Business District
- Fort Meade

		# Of Activity Centers	Score
1.	MD 100 Alignment		
1a.	Columbia Town Center, Arundel Mills, BWI, BWI Business District	4 total	1
1b.	Columbia Town Center, Arundel Mills, BWI, BWI Business District	4 total	1
1c.	Columbia Town Center, BWI, BWI Business District	3 total	1
1d.	Columbia Town Center, BWI, BWI Business District	3 total	1
1e.	Columbia Town Center, Arundel Mills	2 total	1
1f.	Columbia Town Center, Arundel Mills, Fort Meade	3 total	1
2	MD 108 Alignment		
2a	Columbia Town Center, MD Food Center, Arundel Mills	3 total	1
2b	Columbia Town Center, MD Food Center, Arundel Mills	3 total	1
2c	Columbia Town Center, Columbia Gateway, MD Food Center, Arundel Mills	4 total	1
2d	Columbia Town Center, Columbia Gateway, MD Food Center, Arundel Mills	4 total	1
2e	Columbia Town Center, MD Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
2f	Columbia Town Center, MD Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
2g	Columbia Town Center, Columbia Gateway, MD Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
2h	Columbia Town Center, Columbia Gateway, MD Food Center, Arundel Mills, BWI, BWI Business District	6 total	3

2i	Columbia Town Center, MD Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
2j	Columbia Town Center, MD Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
2k	Columbia Town Center, Columbia Gateway, MD Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
2l	Columbia Town Center, Columbia Gateway, MD Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
2m	Columbia Town Center, MD Food Center, Fort Meade	3 total	1
2n	Columbia Town Center, Columbia Gateway, MD Food Center, Fort Meade	4 total	1
3	MD 175 Alignment		
3a	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total	1
3b.	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total	1
3c.	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
3d.	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
3e	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
3f	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
3g	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
3h	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
3i	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
3j	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
3k	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
3l	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
3m	Columbia Town Center, MD Food Center, Fort Meade	3 total	1
3n	Columbia Town Center, Columbia Gateway, Maryland Food Center, Fort Meade	4 total	1
4	Broken Land/Snowden River/Columbia GatewayMD 175		
4a	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
4b	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
4c	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
4d	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
4e	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
4f	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
4g	Columbia Town Center, Columbia Gateway, Maryland Food Center, Fort Meade	4 total	1

5	Broken Land - Snowden - Guilford - US 1 - MD 175		
	5a	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total 1
	5b	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total 1
	5c	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	5d	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	5e	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	5f	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	5g	Columbia Town Center, Maryland Food Center, Fort Meade	3 total 1
6	Broken Land - Snowden - Guildford - US 1 - Montivideo		
	6a	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total 1
	6b	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total 1
	6c	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total 1
	6d	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	6e	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	6f	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	6g	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	6h	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	6i	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	6j	Columbia Town Center, Maryland Food Center, BWI, BWI Business District	4 total 1
	6k	Columbia Town Center, Maryland Food Center, BWI, BWI Business District	4 total 1
	6l	Columbia Town Center, Maryland Food Center, Fort Mead	3 total 1
7	Broken Land - Snowden - Guildford - US 1 - MD 103		
	7a	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total 1
	7b	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total 1
	7c	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total 1
	7d	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	7e	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	7f	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2
	7g	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total 2

7h	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
7i	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
7j	Columbia Town Center, Maryland Food Center, BWI, BWI Business District	4 total	1
7k	Columbia Town Center, Maryland Food Center, BWI, BWI Business District	4 total	1
7l	Columbia Town Center, Maryland Food Center, BWI, BWI Business District	4 total	1
7m	Columbia Town Center, Maryland Food Center, BWI, BWI Business District	4 total	1
7n	Columbia Town Center, Maryland Food Center, BWI, BWI Business District	4 total	1
7o	Columbia Town Center, Maryland Food Center, Fort Mead	3 total	1
8	Broken Land - Snowden - Guildford - US 1 - MD 100		
8a	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total	1
8b	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	4 total	1
8c	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
8d	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
8e	Columbia Town Center, Maryland Food Center, Arundel Mills, BWI, BWI Business District	5 total	2
8f	Columbia Town Center, Maryland Food Center, Arundel Mills, Fort Meade	4 total	1
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road		
9a	Columbia Town Center, Maryland Food Center, Arundel Mills	3 total	1
9b	Columbia Town Center, Maryland Food Center, BWI, BWI Business District	4 total	1
9c	Columbia Town Center, Maryland Food Center, Arundel Mills, Fort Meade	4 total	1
10	Broken Land - MD 32		
10a	Columbia Town Center, Fort Meade	2 total	1
10b	Columbia Town Center, Fort Meade, Arundel Mills	3 total	1
10c	Columbia Town Center, Fort Meade, Arundel Mills	3 total	1
10d	Columbia Town Center, Fort Meade, Arundel Mills, BWI, BWI Business District	5 total	2
10e	Columbia Town Center, Fort Meade, Arundel Mills, BWI, BWI Business District	5 total	2

10f	Columbia Town Center, Fort Meade, Arundel Mills, BWI, BWI Business District	5 total	2
10g	Columbia Town Center, Fort Meade, Arundel Mills, BWI, BWI Business District	5 total	2

11 US 1 via Columbia Gateway to Montivideo

11a	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
11b	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
11c	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
11d	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business Center	6 total	3
11e	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business Center	6 total	3
11f	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business Center	6 total	3
11g	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business Center	6 total	3
11h	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business Center	6 total	3
11i	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business Center	6 total	3
11j	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business Center	5 total	2
11k	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business Center	5 total	2
11l	Columbia Town Center, Columbia Gateway, Maryland Food Center, Fort Meade	4 total	1

12 US 1 via Columbia Gateway MD 103

12a	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
12b	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
12c	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
12d	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
12e	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
12f	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
12g	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
12h	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
12i	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
12j	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business District	5 total	2
12k	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business District	5 total	2
12l	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business District	5 total	2

12m	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business District	5 total	2
12n	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business District	5 total	2
12o	Columbia Town Center, Columbia Gateway, Maryland Food Center, Fort Meade	4 total	1
13	US 1 via Columbia Gateway to MD 100		
13a	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
13b	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
13c	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, BWI, BWI Business District	6 total	3
13d	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business District	5 total	2
13e	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business District	5 total	2
13f	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, Fort Meade	5 total	2
14	US 1 via Columbia Gateway to Loudon Avenue/Hanover Road		
14a	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills	4 total	1
14b	Columbia Town Center, Columbia Gateway, Maryland Food Center, BWI, BWI Business District	5 total	2
14c	Columbia Town Center, Columbia Gateway, Maryland Food Center, Arundel Mills, Fort Meade	5 total	2

**Scoring Backup - Key Origin-Destination Pairs - By Alignment Alternative/Routing Option  
Criterion - O/D pairs with greater than 100 trips**

**O/D Pairs Meeting Criterion**

Town Center

1. MD 175 - Columbia a. 1 to 4 key O/D pairs 1 point

Gateway

b. 5 to 7 key O/D pairs 2 points

c. > 7 key O/D

2. MD 175 - Columbia pairs 3 points

3. MD 175 - Columbia

4. MD 175 - Columbia

5. 175 @ mapes

Food Center

6. Columbia Town Center

BWI

7. Columbia Town Center

Arundel Mills

8. MD 175 - Columbia

9. MD 175 - Columbia

10. MD 108. MD 175 in Columbia

11. Milestone

12. MD 176 s/o airport

13. 175 @ Mapes

Fort Meade

14. 175 in Columbia

15. 175 in columbia

16. 108 @ 175

	O/D Pair	# of Pairs	Score
1.	MD 100 Alignment		
	1a. 7	1	1
	1b. 7	1	1
	1c. 7	1	1
	1d. 7	1	1
	1e. none	0	0
	1f. none	0	0
2	MD 108 Alignment		
	2a 4,5,7,8	4	1
	2b 4,5,7	3	1
	2c 1,2,3,4,5,7, 8	7	2

2d	1,2,3,4,5,7,	6	2
2e	4,5,6,7, 8, 9, 11	7	2
2f	4, 5, 6, 7, 8, 11	6	2
2g	1, 2, 3, 4, 5, 6, 7, 8, 9, 11	10	3
2h	1, 2, 3, 4, 5, 6, 7, 8, 11	9	3
2i	4, 5, 6, 7, 9, 11	6	2
2j	4, 5, 6, 7, 11	5	2
2k	1,2,3, 4, 5, 7, 9, 11	8	3
2l	1,2,3, 4, 5, 7, 11	7	2
2m	4, 5, 10	3	1
2n	1, 2, 3, 4, 5, 10, 12	7	2

### 3 MD 175 Alignment

3a	1, 6, 8, 9, 10, 11	6	2
3b.	1, 6, 8, 9, 10	5	2
3c.	1,2, 3, 4 6, 8, 9, 10, 11	9	3
3d.	1,2, 3, 4 6, 8, 9, 10	8	3
3e	1, 6, 7, 8, 9, 10, 11, 12	8	3
3f	1, 6, 7, 8, 9, 10, 11	7	2
3g	1, 6, 7, 8, 9, 10, 12	7	2
3h	1, 6, 7, 8, 9, 10	6	2
3i	1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12	11	3
3j	1, 2, 3, 4, 6, 7, 8, 9, 10, 11	10	3
3k	1, 2, 3, 4, 6, 7, 8, 9, 10, 12	10	3
3l	1, 2, 3, 4, 6, 7, 8, 9, 10	9	3
3m	1, 6, 14, 15, 16	5	2
3n	1, 2, 3, 4, 5, 6, 14, 15, 16	9	3

### 4 Broken Land/Snowden River/Columbia GatewayMD 175

4a	1, 2,3,4, 5,7, 8	7	2
4b	1, 2,3,4, 5,7	6	2
4c	1, 2,3,4, 5,7, 8, 9	8	3
4d	1, 2,3,4, 5, 8	6	2
4e	1, 2,3,4, 5,7, 9	7	2
4f	1, 2,3,4, 5,7	6	2
4g	1, 2, 3, 4, 5, 11	6	2

### 5 Broken Land - Snowden - Guilford - US 1 - MD 175

5a	1, 2, 4, 7	4	1
5b	1, 2, 7	3	1
5c	1, 2, 3, 4, 5, 7	6	2

5d	1, 2, 3, 4, 7	5	2
5e	1, 2, 3, 5, 7	5	2
5f	1, 2, 3, 7	4	1
5g	1, 2, 3	3	1

6 Broken Land - Snowden - Guildford - US 1 - Montivideo

6a	1, 2, 7,4	4	1
6b	1, 2, 7	3	1
6c	1, 2, 7	3	1
6d	1, 2, 3, 4, 5, 7	6	2
6e	1, 2, 3, 5, 7	5	2
6f	1, 2, 3, 4, 7	5	2
6g	1, 2, 3, 7	4	1
6h	1, 2, 3, 5, 7	5	2
6i	1, 2, 3, 7	4	1
6j	1, 2, 3, 7	4	1
6k	1, 2, 3, 7	4	1
6l	1, 2	2	1

7 Broken Land - Snowden - Guildford - US 1 - MD 103

7a	1, 2, 4, 7	4	1
7b	1, 2, 7	3	1
7c	1, 2, 7	3	1
7d	1, 2, 3, 4, 5, 7	6	2
7e	1, 2, 3, 4, 7	5	2
7f	1, 2, 3, 5, 7	5	2
7g	1, 2, 3, 7	4	1
7h	1, 2, 3, 5, 7	5	2
7i	1, 2, 3, 7	4	1
7j	1, 2, 3	3	1
7k	1, 2, 3	3	1
7l	1, 2, 3	3	1
7m	1, 2, 3	3	1
7n	1, 2, 3	3	1
7o	1, 2, 3	3	1

8 Broken Land - Snowden - Guildford - US 1 - MD 100

8a	1, 2, 7	3	1
8b	1, 2, 3, 5, 7	5	2
8c	1, 2, 3, 7	4	1
8d	1, 2, 3	3	1

	8e	1, 2, 3	3	1
	8f	1, 2, 3, 6, 7	5	2
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road			
	9a	1, 2, 3, 8, 9	5	2
	9b	1, 2, 3, 8	4	1
	9c	1, 2, 3, 6, 7, 8, 9	7	2
10	Broken Land - MD 32			
	10a	1	1	1
	10b	1, 3	2	1
	10c	1, 3, 4	3	1
	10d	1, 2, 3, 5, 6	5	2
	10e	1, 2, 3, 6	4	1
	10f	1, 2, 3, 4, 5, 6	6	2
	10g	1, 2, 3, 4, 5, 6	6	2
11	US 1 via Columbia Gateway to Montivideo			
	11a	1, 2, 3, 4, 6, 8, 9	7	2
	11b	1, 2, 3, 4, 6, 8	6	2
	11c	1, 2, 3, 4, 6, 8	6	2
	11d	1, 2, 3, 4, 6, 7, 8, 9, 10	9	3
	11e	1, 2, 3, 4, 6, 7, 8, 10	8	3
	11f	1, 2, 3, 4, 6, 7, 8, 9	8	3
	11g	1, 2, 3, 4, 6, 7, 8	7	2
	11h	1, 2, 3, 4, 6, 7, 8, 10	8	3
	11i	1, 2, 3, 4, 6, 7, 8	7	2
	11j	1, 2, 3, 4, 6, 7, 10	7	2
	11k	1, 2, 3, 4, 6, 7	6	2
	11l	1, 2, 3, 4, 5, 6	6	2
12	US 1 via Columbia Gateway MD 103			
	12a	1, 2, 3, 4, 6, 8, 9	7	2
	12b	1, 2, 3, 4, 6, 8	6	2
	12c	1, 2, 3, 4, 6, 8	6	2
	12d	1, 2, 3, 4, 6, 7, 8, 9, 10	9	3
	12e	1, 2, 3, 4, 6, 7, 8, 9	8	3
	12f	1, 2, 3, 4, 6, 7, 8, 10	8	3
	12g	1, 2, 3, 4, 6, 7, 8	7	2
	12h	1, 2, 3, 4, 6, 7, 8, 10	8	3

12i	1, 2, 3, 4, 6, 7, 8	7	2
12j	1, 2, 3, 4, 6, 7	6	2
12k	1, 2, 3, 4, 6, 7	6	2
12l	1, 2, 3, 4, 6, 7	6	2
12m	1, 2, 3, 4, 6, 7	6	2
12n	1, 2, 3, 4, 6, 7	6	2
12o	1, 2, 3, 4, 5, 6	6	2

13 US 1 via Columbia Gateway to MD 100

13a	1, 2, 3, 4, 6, 8	6	2
13b	1, 2, 3, 4, 6, 7, 8, 10	8	3
13c	1, 2, 3, 4, 6, 7, 8	7	2
13d	1, 2, 3, 4, 6, 7, 10	7	2
13e	1, 2, 3, 4, 6, 7	6	2
13f	1, 2, 3, 4, 5, 8	6	2

14 US 1 via Columbia Gateway to Loudon Avenue/Hanover Road

14a	1, 2, 4, 6, 8	5	2
14b	1, 2, 4, 6, 7	5	2
14c	1, 2, 4, 5, 6, 8, 12	7	2

**Scoring Backup - Transit Propensity - By Alignment Alternative/Routing Option  
Criteria - Locations with Transit Propensity Score Higher than 2**

**Scoring**

1 to 2 locations	1
3 locations	2
4 or greater	3

Locations with Scores Higher Than 2

1. Columbia Town Center #1
2. Columbia Town Center #2
3. Broken Land
4. 175 - Columbia #1
5. 175 - Columbia #2
6. Fort Meade

	<b>Locations</b>	<b>Score</b>
1.	MD 100 Alignment	
	1a.	1, 2
	1b.	1, 2
	1c.	1, 2
	1d.	1, 2
	1e.	1, 2
	1f.	1, 2
2	MD 108 Alignment	
	2a	1, 2
	2b	1, 2
	2c	1, 2
	2d	1, 2
	2e	1, 2
	2f	1, 2
	2g	1, 2
	2h	1, 2
	2i	1, 2
	2j	1,2
	2k	1,2
	2l	1, 2
	2m	1,2, 6
	2n	1, 2, 6
3	MD 175 Alignment	
	3a	1, 2, 4, 5

3b.	1, 2, 4, 5	3
3c.	1, 2, 4, 5	3
3d.	1, 2, 4, 5	3
3e	1, 2, 4, 5	3
3f	1, 2, 4, 5	3
3g	1, 2, 4, 5	3
3h	1, 2, 4, 5	3
3i	1, 2, 4, 5	3
3j	1, 2, 4, 5	3
3k	1, 2, 4, 5	3
3l	1, 2, 4, 5	3
3m	1, 2, 4, 5, 6	3
3n	1, 2, 4, 5, 6	3
4	Broken Land/Snowden River/Columbia GatewayMD 175	
4a	1, 2, 3	2
4b	1, 2, 3	2
4c	1, 2, 3	2
4d	1, 2, 3	2
4e	1, 2, 3	2
4f	1, 2, 3	2
4g	1, 2, 3, 6	3
5	Broken Land - Snowden - Guilford - US 1 - MD 175	
5a	1, 2, 3	2
5b	1, 2, 3	2
5c	1, 2, 3	2
5d	1, 2, 3	2
5e	1, 2, 3	2
5f	1, 2, 3	2
5g	1, 2, 3, 6	3
6	Broken Land - Snowden - Guildford - US 1 - Montivideo	
6a	1, 2, 3	2
6b	1, 2, 3	2
6c	1, 2, 3	2
6d	1, 2, 3	2
6e	1, 2, 3	2
6f	1, 2, 3	2
6g	1, 2, 3	2
6h	1, 2, 3	2
6i	1, 2, 3	2
6j	1, 2, 3	2
6k	1, 2, 3	2

	6l	1, 2, 3, 6	3
7	Broken Land - Snowden - Guildford - US 1 - MD 103		
	7a	1, 2, 3	2
	7b	1, 2, 3	2
	7c	1, 2, 3	2
	7d	1, 2, 3	2
	7e	1, 2, 3	2
	7f	1, 2, 3	2
	7g	1, 2, 3	2
	7h	1, 2, 3	2
	7i	1, 2, 3	2
	7j	1, 2, 3	2
	7k	1, 2, 3	2
	7l	1, 2, 3	2
	7m	1, 2, 3	2
	7n	1, 2, 3	2
	7o	1, 2, 3, 6	3
8	Broken Land - Snowden - Guildford - US 1 - MD 100		
	8a	1, 2, 3	2
	8b	1, 2, 3	2
	8c	1, 2, 3	2
	8d	1, 2, 3	2
	8e	1, 2, 3	2
	8f	1, 2, 3, 6	3
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road		
	9a	1, 2, 3	2
	9b	1, 2, 3	2
	9c	1, 2, 3, 6	3
10	Broken Land - MD 32		
	10a	1, 2, 3, 6	3
	10b	1, 2, 3, 6	3
	10c	1, 2, 3, 6	3
	10d	1, 2, 3, 6	3
	10e	1, 2, 3, 6	3
	10f	1, 2, 3, 6	3
	10g	1, 2, 3, 6	3
11	US 1 via Columbia Gateway to Montivideo		
	11a	1, 2, 3	2
	11b	1, 2, 3	2

	11c	1, 2, 3	2
	11d	1, 2, 3	2
	11e	1, 2, 3	2
	11f	1, 2, 3	2
	11g	1, 2, 3	2
	11h	1, 2, 3	2
	11i	1, 2, 3	2
	11j	1, 2, 3	2
	11k	1, 2, 3	2
	11l	1, 2, 3, 6	3
12	US 1 via Columbia Gateway MD 103		
	12a	1, 2, 3	2
	12b	1, 2, 3	2
	12c	1, 2, 3	2
	12d	1, 2, 3	2
	12e	1, 2, 3	2
	12f	1, 2, 3	2
	12g	1, 2, 3	2
	12h	1, 2, 3	2
	12i	1, 2, 3	2
	12j	1, 2, 3	2
	12k	1, 2, 3	2
	12l	1, 2, 3	2
	12m	1, 2, 3	2
	12n	1, 2, 3	2
	12o	1, 2, 3, 6	3
13	US 1 via Columbia Gateway to MD 100		
	13a	1, 2, 3	2
	13b	1, 2, 3	2
	13c	1, 2, 3	2
	13d	1, 2, 3	2
	13e	1, 2, 3	2
	13f	1, 2, 3, 6	3
14	US 1 via Columbia Gateway to Loudon Avenue/Hanover Road		
	14a	1, 2, 3	2
	14b	1, 2, 3	2
	14c	1, 2, 3, 6	3



Howard County

- 1. Columbia Town Center
- 2. Gateway Overlook

Anne Arundel County

- 3. MD 175 corridor to Milestone
- 4. MD 175 corridor Milestone to MD 713
- 5. MD 175 corridor - MD 713 to Mapes Road
- 6. Arundel Mills
- 7. Milestone and Arundel Mills Boulevard

2a	1,2,3,6, 7	5	2
2b	1, 2, 3, 4, 6	5	2
2c	1,2,3,6, 7	5	2
2d	1, 2, 3, 4, 6	5	2
2e	1,2,3,6, 7	5	2
2f	1,2,3,6, 7	5	2
2g	1,2,3,6, 7	5	2
2h	1,2,3,6, 7	5	2
2i	1, 2, 3, 4, 6	5	2
2j	1, 2, 3, 4, 6	5	2
2k	1, 2, 3, 4, 6	5	2
2l	1, 2, 3, 4, 6	5	2
2m	1, 2, 3, 4, 5	5	2
2n	1, 2, 3, 4, 5	5	2

3 MD 175 Alignment

Howard County

- 1. Columbia Town Center
- 2. Dobbin Center
- 3. Columbia Crossing
- 4. Gateway Overlook

Anne Arundel County

- 5. MD 175 corridor to Milestone
- 6. MD 175 corridor Milestone to MD 713
- 7. MD 175 corridor - MD 713 to Mapes Road
- 8. Arundel Mills
- 9. Milestone and Arundel Mills Boulevard

3a	1, 2, 3, 4, 5, 8, 9	7	3
3b.	1, 2, 3, 4, 5, 6, 8	7	3
3c.	1, 2, 3, 4, 5, 8, 9	7	3
3d.	1, 2, 3, 4, 5, 6, 8	7	3
3e	1, 2, 3, 4, 5, 8, 9	7	3
3f	1, 2, 3, 4, 5, 8, 9	7	3
3g	1, 2, 3, 4, 5, 6, 8	7	3

3h	1, 2, 3, 4, 5, 6, 8	7	3
3i	1, 2, 3, 4, 5, 8, 9	7	3
3j	1, 2, 3, 4, 5, 8, 9	7	3
3k	1, 2, 3, 4, 5, 6, 8	7	3
3l	1, 2, 3, 4, 5, 6, 8	7	3
3m	1, 2, 3, 4, 5, 6, 7	7	3
3n	1, 2, 3, 4, 5, 6, 7	7	3

4 Broken Land/Snowden River/Columbia GatewayMD 175

backup

Howard County

1. Columbia Town Center
2. Owen Brown Village Center
3. Snowden River corridor
4. Snowden Square
5. Gateway Overlook

Anne Arundel County

6. MD 175 corridor to Milestone
7. MD 175 corridor Milestone to MD 713
8. MD 175 corridor - MD 713 to Mapes Road
9. Arundel Mills
10. Milestone and Arundel Mills Boulevard

4a	1, 2, 3, 4, 5, 6, 9, 10	8	3
4b	1, 2, 3, 4, 5, 6, 7, 9	8	3
4c	1, 2, 3, 4, 5, 6, 9, 10	8	3
4d	1, 2, 3, 4, 5, 6, 9, 10	8	3
4e	1, 2, 3, 4, 5, 6, 7, 9	8	3
4f	1, 2, 3, 4, 5, 6, 7, 9	8	3
4g	1, 2 3, 4, 5, 6, 7, 10	8	3

5 Broken Land - Snowden - Guilford - US 1 - MD 175

Howard County

1. Columbia Town Center
2. Owen Brown Village Center
3. Snowden River corridor
4. US 1 Corridor s/o MD 175

Anne Arundel County

5. MD 175 corridor to Milestone
6. MD 175 corridor Milestone to MD 713
7. MD 175 corridor - MD 713 to Mapes Road

8. Arundel Mills  
 9. Milestone and Arundel Mills Boulevard

5a	1, 2, 3,4,5, 8, 9	7	3
5b	1, 2, 3,4,5,6, 8	7	3
5c	1, 2, 3,4,5, 8, 9	7	3
5d	1, 2, 3,4,5, 8, 9	7	3
5e	1, 2, 3,4,5,6, 8	7	3
5f	1, 2, 3,4,5,6, 8	7	3
5g	1, 2, 3,4,5, 7	6	2

6 Broken Land - Snowden - Guildford - US 1 - Montivideo

- Howard County
1. Columbia Town Center
  2. Owen Brown Village Center
  3. Snowden River corridor
  4. US 1 Corridor s/o MD 175

Anne Arundel County

5. MD 175 corridor Milestone to MD 713
6. MD 175 corridor - MD 713 to Mapes Road
7. Arundel Mills
8. Milestone and Arundel Mills Boulevard

6a	1, 2, 3, 4, 7, 8	6	2
6b	1, 2, 3, 4, 5, 7	6	2
6c	1, 2, 3, 4, 7	5	2
6d	1, 2, 3, 4, 7, 8	6	2
6e	1, 2, 3, 4, 5, 7	6	2
6f	1, 2, 3, 4, 7, 8	6	2
6g	1, 2, 3, 4, 5, 7	6	2
6h	1, 2, 3, 4, 7	5	2
6i	1, 2, 3, 4, 7	5	2
6j	1, 2, 3, 4	4	1
6k	1, 2, 3, 4	4	1
6l	1, 2, 3, 4, 5, 6	6	2

7 Broken Land - Snowden - Guildford - US 1 - MD 103

- Howard County
1. Columbia Town Center
  2. Owen Brown Village Center
  3. Snowden River corridor
  4. US 1 Corridor s/o MD 175

Anne Arundel County

- 5. MD 175 corridor to Milestone
- 6. MD 175 corridor Milestone to MD 713
- 7. MD 175 corridor - MD 713 to Mapes Road
- 8. Arundel Mills
- 9. Milestone and Arundel Mills Boulevard

7a	1,2, 3,4,8, 9	6	2
7b	1,2, 3,4,6, 8	6	2
7c	1, 2, 3, 4, 8	5	2
7d	1, 2, 3, 4 5, 8, 9	7	3
7e	1, 2, 3, 4 5, 8, 9	7	3
7f	1, 2, 3, 4, 6, 7, 8	7	3
7g	1, 2, 3, 4, 6, 7, 8	7	3
7h	1,2,3,4, 8	5	2
7i	1,2,3,4, 8	5	2
7j	1, 2, 3, 4	4	1
7k	1, 2, 3, 4	4	1
7l	1,2,3,4	4	1
7m	1, 2, 3, 4	4	1
7n	1, 2, 3, 4	4	1
7o	1, 2, 3, 4, 7	5	2

8 Broken Land - Snowden - Guildford - US 1 - MD 100

Howard County

- 1. Columbia Town Center
- 2. Owen Brown Village Center
- 3. Snowden River corridor
- 4. US 1 Corridor s/o MD 175
- 5. MD 175 corridor - MD 713 to Mapes Road
- 6. Arundel Mills

8a	1, 2, 3, 4, 6	5	2
8b	1, 2, 3, 4, 6	5	2
8c	1, 2, 3, 4, 6	5	2
8d	1, 2, 3, 4	4	1
8e	1, 2, 3, 4	4	1
8f	1, 2, 3, 4, 5, 6	6	2

9 Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road

Howard County

- 1, Columbia Town Center
- 2. Owen Brown Village Center

- 3. Snowden River corridor
- 4. US 1 Corridor s/o MD 175
  
- 5. MD 175 corridor - MD 713 to Mapes Road
- 6. Arundel Mills

9a	1,2,3, 4,6	5	2
9b	1,2,3, 4	4	1
9c	1, 2, 3, 4, 5, 6	6	2

10 Broken Land - MD 32

- Howard County
- 1. Columbia Town Center
  - 2. Owen Brown Village Center

- Anne Arundel County
- 3. MD 175 corridor to Milestone
  - 4. MD 175 corridor Milestone to MD 713
  - 5. MD 175 corridor - MD 713 to Mapes Road
  - 6. Arundel Mills
  - 7. Milestone and Arundel Mills Boulevard

10a	1, 2	2	1
10b	1, 2, 5, 6	4	1
10c	1, 2, 5, 4, 6, 7	6	2
10d	1, 2, 5, 6	4	1
10e	1, 2, 5, 6	4	1
10f	1, 2, 5, 4, 6, 7	6	2
10g	1, 2, 5, 4, 6, 7	6	2

11 US 1 via Columbia Gateway to Montivideo

- Howard County
- 1. Columbia Town Center
  - 2. Owen Brown Village Center
  - 3. Snowden River corridor
  - 4. Snowden Square
  - 5. Gateway Overlook

- Anne Arundel County
- 6. MD 175 corridor Milestone to MD 713
  - 7. MD 175 corridor - MD 713 to Mapes Road
  - 8. Arundel Mills
  - 9. Milestone and Arundel Mills Boulevard

11a	1, 2, 3, 4, 5, 8, 9	7	3
11b	1, 2, 3,4, 5, 6, 8	7	3

11c	1, 2, 3, 4, 5, 8	6	2
11d	1, 2, 3, 4, 5, 9, 8	7	3
11e	1, 2, 3, 4, 5, 6, 8	7	3
11f	1, 2, 3, 4, 5, 9, 8	7	3
11g	1, 2, 3, 4, 5, 6, 8	7	3
11h	1, 2, 3, 4, 5, 8	6	2
11i	1, 2, 3, 4, 5, 8	6	2
11j	1, 2, 3, 4, 5	5	2
11k	1, 2, 3, 4, 5	5	2
11l	1, 2, 3, 4, 5, 7	6	2

12 US 1 via Columbia Gateway MD 103

Howard County

1. Columbia Town Center
2. Owen Brown Village Center
3. Snowden River corridor
4. Snowden Square
5. Gateway Overlook
  
6. MD 175 corridor Milestone to MD 713
7. MD 175 corridor - MD 713 to Mapes Road
8. Arundel Mills
9. Milestone and Arundel Mills Boulevard

12a	1, 2, 3, 4, 5, 8, 9	7	3
12b	1, 2, 3, 4, 5, 6, 8	7	3
12c	1, 2, 3, 4, 5, 8	6	2
12d	1, 2, 3, 4, 5, 8, 9	7	3
12e	1, 2, 3, 4, 5, 8, 9	7	3
12f	1, 2, 3, 4, 5, 6, 8	7	3
12g	1, 2, 3, 4, 5, 6, 8	7	3
12h	1, 2, 3, 4, 5, 8	6	2
12i	1, 2, 3, 4, 5, 8	6	2
12j	1, 2, 3, 4, 5	5	2
12k	1, 2, 3, 4, 5	5	2
12l	1, 2, 3, 4, 5	5	2
12m	1, 2, 3, 4, 5	5	2
12n	1, 2, 3, 4, 5	5	2
12o	1, 2, 3, 4, 5, 7	6	2

13 US 1 via Columbia Gateway to MD 100

Howard County

1. Columbia Town Center
2. Owen Brown Village Center

- 3. Snowden River corridor
- 4. Snowden Square
- 5. Gateway Overlook
  
- 6. MD 175 corridor Milestone to MD 713
- 7. MD 175 corridor - MD 713 to Mapes Road
- 8. Arundel Mills
- 9. Milestone and Arundel Mills Boulevard

13a	1, 2, 3, 4, 5, 8	6	2
13b	1, 2, 3, 4, 5, 8	6	2
13c	1, 2, 3, 4, 5, 8	6	2
13d	1, 2, 3, 4, 5	5	2
13e	1, 2, 3, 4, 5	5	2
13f	1, 2, 3, 4, 5, 7	6	2

14 US 1 via Columbia Gateway to Loudon Avenue/Hanover Road

14a	1, 2, 3, 4, 5, 8	6	2
14b	1, 2, 3, 4, 5	5	2
14c	1, 2, 3, 4, 5, 8, 7	7	3

**Scoring Backup - Government Offices Served- By Alignment Alternative/Routing Option**

**Government Office Locations**

	<b>Locations Served</b>	<b>Score</b>
1. Columbia Town Center	1-4	1
2. 108 #1	5-7	2
3. 108 #2	>8	3
4. Snowden #1		
5. Snowden #2		
6. Gateway 1		
7. Gateway 2		
8. Gateway 3		
9. 175 1		
10. 175 2		
11. 175 3		
12. Fort Meade		
13. MDOT		

		<b>number</b>	<b>Score</b>
1.	MD 100 Alignment		
	1a.	1	1
	1b.	1	1
	1c.	1	1
	1d.	1	1
	1e.	1	1
	1f.	1	1
2	MD 108 Alignment		
	2a	1, 2, 3, , 9, 10, 11	6
	2b	1, 2, 3, , 9, 10, 11	6
	2c	1, 2, 3, , 9, 10, 11, 6, 7, 8	9
	2d	1, 2, 3, , 9, 10, 11, 6, 7, 8	9
	2e	1, 2, 3, , 9, 10, 11	6
	2f	1, 2, 3, , 9, 10, 11	6
	2g	1, 2, 3, , 9, 10, 11, 6, 7, 8	9
	2h	1, 2, 3, , 9, 10, 11, 6, 7, 8	9
	2i	1, 2, 3, , 9, 10, 11	6
	2j	1, 2, 3, , 9, 10, 11	6
	2k	1, 2, 3, , 9, 10, 11, 6, 7, 8	9
	2l	1, 2, 3, , 9, 10, 11, 6, 7, 8	9
	2m	1, 2, 3, , 9, 10, 11, 12	7
		1, 2, 3, , 9, 10, 11, 6, 7, 8,	
	2n	12	10

3	MD 175 Alignment		
	3a	1, 9, 10, 11	4 1
	3b.	1, 9, 10, 11	4 1
	3c.	1, 9, 10, 11, 6, 7, 8	7 2
	3d.	1, 9, 10, 11, 6, 7, 8	7 2
	3e	1, 9, 10, 11	4 1
	3f	1, 9, 10, 11	4 1
	3g	1, 9, 10, 11	4 1
	3h	1, 9, 10, 11	4 1
	3i	1, 9, 10, 11, 6, 7, 8	7 2
	3j	1, 9, 10, 11, 6, 7, 8	7 2
	3k	1, 9, 10, 11, 6, 7, 8	7 2
	3l	1, 9, 10, 11, 6, 7, 8	7 2
	3m	1, 9, 10, 11, 12	5 2
	3n	1, 9, 10, 11, 6, 7, 8, 12	8 3
4	Broken Land/Snowden River/Columbia GatewayMD 175		
	4a	1, 4, 5, 6, 7, 8, 9, 10, 11	9 3
	4b	1, 4, 5, 6, 7, 8, 9, 10, 11	9 3
	4c	1, 4, 5, 6, 7, 8, 9, 10, 11	9 3
	4d	1, 4, 5, 6, 7, 8, 9, 10, 11	9 3
	4e	1, 4, 5, 6, 7, 8, 9, 10, 11	9 3
	4f	1, 4, 5, 6, 7, 8, 9, 10, 11	9 3
	4g	1, 4, 5, 6, 7, 8, 9, 10, 11, 12	10 3
5	Broken Land - Snowden - Guilford - US 1 - MD 175		
	5a	1, 4, 5, 9, 10, 11	6 2
	5b	1, 4, 5, 9, 10, 11	6 2
	5c	1, 4, 5, 9, 10, 11	6 2
	5d	1, 4, 5, 9, 10, 11	6 2
	5e	1, 4, 5, 9, 10, 11	6 2
	5f	1, 4, 5, 9, 10, 11	6 2
	5g	1, 4, 5, 9, 10, 11, 12	7 2
6	Broken Land - Snowden - Guildford - US 1 - Montivideo		
	6a	1, 4, 5	3 1
	6b	1, 4, 5	3 1
	6c	1, 4, 5	3 1
	6d	1, 4, 5	3 1
	6e	1, 4, 5	3 1
	6f	1, 4, 5	3 1
	6g	1, 4, 5	3 1
	6h	1, 4, 5	3 1

	6i	1, 4, 5	3	1
	6j	1, 4, 5	3	1
	6k	1, 4, 5	3	1
	6l	1, 4, 5, 12	4	1
7	Broken Land - Snowden - Guildford - US 1 - MD 103			
	7a	1, 4, 5	3	1
	7b	1, 4, 5	3	1
	7c	1, 4, 5	3	1
	7d	1, 4, 5	3	1
	7e	1, 4, 5	3	1
	7f	1, 4, 5	3	1
	7g	1, 4, 5	3	1
	7h	1, 4, 5	3	1
	7i	1, 4, 5	3	1
	7j	1, 4, 5	3	1
	7k	1, 4, 5	3	1
	7l	1, 4, 5, 13	4	1
	7m	1, 4, 5	3	1
	7n	1, 4, 5	3	1
	7o	1, 4, 5, 12	4	1
8	Broken Land - Snowden - Guildford - US 1 - MD 100			
	8a	1, 4, 5	3	1
	8b	1, 4, 5	3	1
	8c	1, 4, 5	3	1
	8d	1, 4, 5	3	1
	8e	1, 4, 5	3	1
	8f	1, 4, 5, 12	4	1
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road			
	9a	1, 4, 5, 13	4	1
	9b	1, 4, 5, 13	4	1
	9c	1, 4, 5, 13, 12	5	2
10	Broken Land - MD 32			
	10a	1, 12	2	1
	10b	1, 12	2	1
	10c	1, 12	2	1
	10d	1, 12	2	1
	10e	1, 12	2	1
	10f	1, 12	2	1
	10g	1, 12	2	1

11	US 1 via Columbia Gateway to Montivideo		
	11a	1, 4, 5, 6, 7, 8	6 2
	11b	1, 4, 5, 6, 7, 8	6 2
	11c	1, 4, 5, 6, 7, 8	6 2
	11d	1, 4, 5, 6, 7, 8	6 2
	11e	1, 4, 5, 6, 7, 8	6 2
	11f	1, 4, 5, 6, 7, 8	6 2
	11g	1, 4, 5, 6, 7, 8	6 2
	11h	1, 4, 5, 6, 7, 8	6 2
	11i	1, 4, 5, 6, 7, 8	6 2
	11j	1, 4, 5, 6, 7, 8	6 2
	11k	1, 4, 5, 6, 7, 8	6 2
	11l	1, 4, 5, 6, 7, 8, 12	7 2
12	US 1 via Columbia Gateway MD 103		
	12a	1, 4, 5, 6, 7, 8	6 2
	12b	1, 4, 5, 6, 7, 8	6 2
	12c	1, 4, 5, 6, 7, 8	6 2
	12d	1, 4, 5, 6, 7, 8	6 2
	12e	1, 4, 5, 6, 7, 8	6 2
	12f	1, 4, 5, 6, 7, 8	6 2
	12g	1, 4, 5, 6, 7, 8	6 2
	12h	1, 4, 5, 6, 7, 8	6 2
	12i	1, 4, 5, 6, 7, 8	6 2
	12j	1, 4, 5, 6, 7, 8	6 2
	12k	1, 4, 5, 6, 7, 8	6 2
	12l	1, 4, 5, 6, 7, 8, 13	7 2
	12m	1, 4, 5, 6, 7, 8	6 2
	12n	1, 4, 5, 6, 7, 8	6 2
	12o	1, 4, 5, 6, 7, 8, 13	7 2
13	US 1 via Columbia Gateway to MD 100		
	13a	1, 4, 5, 6, 7, 8	6 2
	13b	1, 4, 5, 6, 7, 8	6 2
	13c	1, 4, 5, 6, 7, 8	6 2
	13d	1, 4, 5, 6, 7, 8	6 2
	13e	1, 4, 5, 6, 7, 8	6 2
	13f	1, 4, 5, 6, 7, 8, 12	7 2
14	US 1 via Columbia Gateway to Loudon Avenue/Hanover Road		
	14a	1, 4, 5, 6, 7, 8	6 2
	14b	1, 4, 5, 6, 7, 8, 13	7 2
	14c	1, 4, 5, 6, 7, 8, 12	7 2

**Scoring Backup - Total Population - By Alignment Alternative/Routing Option**

<b>Total Population</b>	<b>Score</b>
30,000 - 120,000	1
120,001 to 150,000	2
150,001 to 170,000	3
>170,000	4

	<b>Population</b>	<b>Score</b>
MD 100		
1.	Alignment	
	1a.	61,706 1
	1b.	56,780 1
	1c.	48,733 1
	1d.	43,807 1
	1e.	36,712 1
	1f.	71,853 1
MD 108		
2	Alignment	
	2a	136,901 2
	2b	146,974 2
	2c	130,248 2
	2d	140,321 2
	2e	161,895 3
	2f	156,969 3
	2g	178,981 4
	2h	174,055 4
	2i	171,968 4
	2j	167,042 3
	2k	189,054 4
	2l	184,128 4
	2m	133,014 2
	2n	150,100 3
MD 175		
3	Alignment	
	3a	116,524 1
	3b.	126,597 2
	3c.	133,610 2
	3d.	143,683 2
	3e	141,518 2
	3f	136,592 2
	3g	151,591 3

	3h	146,665	2
	3i	158,604	3
	3j	153,678	3
	3k	168,677	3
	3l	163,751	3
	3m	112,637	1
	3n	129,723	2
4	Broken Land/Snowden River/Columbia GatewayMD 175		
	4a	134,493	2
	4b	144,566	2
	4c	159,487	3
	4d	154,561	3
	4e	169,560	3
	4f	164,634	3
	4g	130,127	2
5	Broken Land - Snowden - Guilford - US 1 - MD 175		
	5a	156,163	3
	5b	166,236	3
	5c	181,157	4
	5d	176,231	4
	5e	191,230	4
	5f	186,304	4
	5g	151,797	3
6	Broken Land - Snowden - Guildford - US 1 - Montivideo		
	6a	153,549	3
	6b	163,622	3
	6c	150,985	3
	6d	178,543	4
	6e	188,616	4
	6f	173,617	4
	6g	183,690	4
	6h	175,979	4
	6i	171,053	4
	6j	163,006	3
	6k	158,080	3
	6l	162,117	3
7	Broken Land - Snowden - Guildford - US 1 - MD 103		
	7a	166,458	3
	7b	176,531	4

7c	129,773	2
7d	191,452	4
7e	186,526	4
7f	201,525	4
7g	196,599	4
7h	154,767	3
7i	149,841	2
7j	136,986	2
7k	132,060	2
7l	146,137	2
7m	159,407	3
7n	151,750	3
7o	177,026	4

8 Broken Land - Snowden - Guildford - US 1 - MD 100

8a	118,548	1
8b	143,542	2
8c	138,616	2
8d	125,643	2
8e	130,569	2
8f	153,689	3

9 Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road

9a	142,652	2
9b	134,362	2
9c	177,793	4

10 Broken Land - MD 32

10a	50,954	1
10b	102,579	1
10c	105,094	1
10d	127,573	2
10e	122,647	2
10f	130,088	2
10g	140,540	2

11 US 1 via Columbia Gateway to Montivideo

11a	126,817	2
11b	136,890	2
11c	124,253	2

11d	151,811	3
11e	161,884	3
11f	146,885	2
11g	156,958	3
11h	149,247	2
11i	144,321	2
11j	136,274	2
11k	131,348	2
11l	135,385	2

12 US 1 via Columbia Gateway MD 103

12a	144,318	2
12b	154,391	3
12c	107,633	1
12d	169,312	3
12e	164,386	3
12f	179,385	4
12g	174,459	4
12h	132,627	2
12i	127,701	2
12j	119,654	1
12k	114,728	1
12l	123,997	2
12m	137,267	2
12n	129,610	2
12o	154,886	3

13 US 1 via Columbia Gateway to MD 100

13a	92,502	1
13b	117,496	1
13c	112,570	1
13d	104,523	1
13e	99,597	1
13f	127,643	2

14 US 1 via Columbia Gateway to Loudon Avenue/Hanover Road

14a	120,266	2
14b	111,976	1
14c	155,407	3

**Scoring Backup - Total Employment - By Alignment Alternative/Routing Option**

Population	Score
20,000 to 60,000	1
60,000 to 90,000	2
>90,000 to 100,000	3
>100,000	4

	Employment	Score
1. MD 100 Alignment		
1a.	61,941	2
1b.	63,613	2
1c.	50,999	1
1d.	52,671	1
1e.	23,387	1
1f.	35,953	1
2. MD 108 Alignment		
2a	53,919	1
2b	55,134	1
2c	63,057	2
2d	64,272	2
2e	92,473	3
2f	94,145	3
2g	114,056	4
2h	115,728	4
2i	93,688	3
2j	95,360	3
2k	115,271	4
2l	116,943	4
2m	62,156	2
2n	83,739	2
3. MD 175 Alignment		
3a	51,793	1
3b.	52,988	1
3c.	73,376	2
3d.	74,571	2
3e	90,347	3
3f	92,019	3
3g	91,542	3

	3h	93,214	3
	3i	111,930	4
	3j	113,602	4
	3k	113,125	4
	3l	114,797	4
	3m	60,010	2
	3n	81,593	2
4	Broken Land/Snowden River/Columbia GatewayMD 175		
	4a	85,224	2
	4b	86,619	2
	4c	123,778	4
	4d	124,910	4
	4e	125,173	4
	4f	126,845	4
	4g	87,675	2
5	Broken Land - Snowden - Guilford - US 1 - MD 175		
	5a	64,719	2
	5b	65,934	2
	5c	103,273	4
	5d	104,945	4
	5e	104,488	4
	5f	106,160	4
	5g	55,808	1
6	Broken Land - Snowden - Guildford - US 1 - Montivideo		
	6a	62,332	2
	6b	63,547	2
	6c	69,020	2
	6d	100,886	4
	6e	102,101	4
	6f	102,558	4
	6g	103,773	4
	6h	99,417	3
	6i	100,860	4
	6j	88,475	2
	6k	89,918	2
	6l	54,218	1
7	Broken Land - Snowden - Guildford - US 1 - MD 103		
	7a	78,220	2
	7b	79,435	2

7c	66,272	2
7d	116,774	4
7e	118,446	4
7f	117,989	4
7g	119,661	4
7h	103,701	4
7i	105,373	4
7j	67,539	2
7k	68,982	2
7l	85,105	2
7m	104,147	4
7n	105,590	4
7o	70,106	2
8 Broken Land - Snowden - Guildford - US 1 - MD 100		
8a	60,500	2
8b	99,054	3
8c	100,726	3
8d	81,848	2
8e	80,405	2
8f	73,156	2
9 Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road		
9a	76,760	2
9b	82,703	2
9c	89,326	2
10 Broken Land - MD 32		
10a	23,003	1
10b	36,573	1
10c	36,627	1
10d	75,127	2
10e	76,799	2
10f	75,181	2
10g	80,381	2
11 US 1 via Columbia Gateway to Montivideo		
11a	72,754	2
11b	73,969	2
11c	79,442	2

	11d	111,308	4
	11e	112,523	4
	11f	112,980	4
	11g	114,195	4
	11h	109,839	4
	11i	111,282	4
	11j	98,897	3
	11k	100,340	4
	11l	64,640	2
12	US 1 via Columbia Gateway MD 103		
	12a	88,164	2
	12b	89,379	2
	12c	76,216	2
	12d	126,718	4
	12e	128,390	4
	12f	127,933	4
	12g	129,605	4
	12h	113,645	4
	12i	115,317	4
	12j	94,996	3
	12k	96,439	3
	12l	95,049	3
	12m	114,091	4
	12n	115,534	4
	12o	80,050	2
13	US 1 via Columbia Gateway to MD 100		
	13a	70,204	2
	13b	100,601	4
	13c	102,044	4
	13d	89,659	2
	13e	91,102	3
	13f	82,770	2
14	US 1 via Columbia Gateway to Loudon Avenue/Hanover Road		
	14a	87,307	2
	14b	93,249	3
	14c	99,873	3

## Scoring Backup - Population per Route Mile - By Alignment Alternative/Routing Option

Pop/Route Mile	Score
2,000 to 5,500	1
5,501 to 7,000	2
7,001 to 9,000	3
>9,000	4

	Population	Route Miles	Pop per route Mile	Score
1. MD 100 Alignment				
1a.	61,706	22.62	2,728	1
1b.	56,780	22.52	2,522	1
1c.	48,733	20.60	2,366	1
1d.	43,807	20.28	2,160	1
1e.	36,712	13.46	2,728	1
1f.	71,853	18.76	3,831	1
2. MD 108 Alignment				
2a	136,901	14.40	9,507	4
2b	146,974	15.22	9,657	4
2c	130,248	18.44	7,063	3
2d	140,321	19.26	7,286	3
2e	161,895	23.71	6,828	2
2f	156,969	23.49	6,682	2
2g	178,981	27.75	6,450	2
2h	174,055	27.53	6,322	2
2i	171,968	24.53	7,011	3
2j	167,042	24.31	6,871	2
2k	189,054	28.57	6,617	2
2l	184,128	28.35	6,495	2
2m	133,014	14.91	8,921	3
2n	150,100	18.95	7,921	3
3. MD 175 Alignment				
3a	116,524	12.42	9,382	4
3b.	126,597	13.24	9,562	4
3c.	133,610	15.57	8,581	3
3d.	143,683	16.39	8,767	3

3e	141,518	21.73	6,513	2
3f	136,592	21.51	6,350	2
3g	151,591	22.55	6,722	2
3h	146,665	22.33	6,568	2
3i	158,604	24.88	6,375	2
3j	153,678	24.66	6,232	2
3k	168,677	25.70	6,563	2
3l	163,751	25.48	6,427	2
3m	112,637	12.90	8,732	3
3n	129,723	16.05	8,082	3
4 Broken Land/Snowden River/Columbia GatewayMD 175				
4a	134,493	14.33	9,385	4
4b	144,566	15.15	9,542	4
4c	159,487	23.64	6,746	2
4d	154,561	23.42	6,600	2
4e	169,560	24.46	6,932	2
4f	164,634	24.24	6,792	2
4g	130,127	14.81	8,786	3
5 Broken Land - Snowden - Guilford - US 1 - MD 175				
5a	156,163	14.87	10,502	4
5b	166,236	15.71	10,582	4
5c	181,157	24.18	7,492	3
5d	176,231	23.96	7,355	3
5e	191,230	25.02	7,643	3
5f	186,304	24.80	7,512	3
5g	151,797	15.38	9,870	4
6 Broken Land - Snowden - Guildford - US 1 - Montivideo				
6a	153,549	15.77	9,737	4
6b	163,622	16.55	9,887	4
6c	150,985	16.91	8,926	3
6d	178,543	25.08	7,119	3
6e	188,616	25.86	7,294	3
6f	173,617	24.86	6,984	2
6g	183,690	25.64	7,164	3
6h	175,979	26.22	6,710	2
6i	171,053	26.00	6,578	2
6j	163,006	24.01	6,789	2
6k	158,080	23.92	6,609	2
6l	162,117	16.64	9,743	4
7 Broken Land - Snowden - Guildford - US 1 - MD 103				

7a	166,458	17.46	9,534	4
7b	176,531	18.22	9,689	4
7c	129,773	16.04	8,088	3
7d	191,452	26.77	7,152	3
7e	186,526	26.55	7,025	3
7f	201,525	27.53	7,320	3
7g	196,599	27.31	7,199	3
7h	154,767	25.35	6,104	2
7i	149,841	25.13	5,962	2
7j	136,986	23.14	5,920	2
7k	132,060	23.05	5,729	2
7l	146,137	18.39	7,947	3
7m	159,407	21.29	7,487	3
7n	151,750	21.20	7,158	3
7o	177,026	18.33	9,658	4

8 Broken Land - Snowden - Guildford - US 1 - MD 100

8a	118,548	15.67	7,563	3
8b	143,542	21.79	6,586	2
8c	138,616	21.57	6,425	2
8d	125,643	22.77	5,518	2
8e	130,569	22.68	5,757	2
8f	153,689	20.97	7,327	3

9 Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road

9a	142,652	20.54	6,945	2
9b	134,362	22.11	6,077	2
9c	177,793	25.84	6,881	2

10 Broken Land - MD 32

10a	50,954	14.28	3,569	1
10b	102,579	18.55	5,531	2
10c	105,094	19.55	5,377	1
10d	127,573	27.86	4,580	1
10e	122,647	27.64	4,438	1
10f	130,088	28.86	4,508	1
10g	140,540	28.64	4,908	1

11 US 1 via Columbia Gateway to Montivideo

11a	126,817	15.12	8,387	3
11b	136,890	15.90	8,609	3
11c	124,253	16.26	7,640	3
11d	151,811	24.43	6,214	2
11e	161,884	25.21	6,421	2
11f	146,885	24.21	6,067	2
11g	156,958	24.99	6,281	2
11h	149,247	25.57	5,836	2
11i	144,321	25.35	5,692	2
11j	136,274	23.36	5,834	2
11k	131,348	23.27	5,645	2
11l	135,385	15.99	8,467	3
12 US 1 via Columbia Gateway MD 103				
12a	144,318	17.32	8,332	3
12b	154,391	18.08	8,539	3
12c	107,633	14.27	7,540	3
12d	169,312	26.63	6,358	2
12e	164,386	26.41	6,224	2
12f	179,385	27.39	6,549	2
12g	174,459	27.17	6,421	2
12h	132,627	23.58	5,623	2
12i	127,701	23.36	5,466	1
12j	119,654	21.37	5,599	2
12k	114,728	21.28	5,391	1
12l	123,997	21.68	5,719	2
12m	137,267	19.52	7,032	3
12n	129,610	19.43	6,670	2
12o	154,886	18.19	8,515	3
13 US 1 via Columbia Gateway to MD 100				
13a	92,502	15.17	6,096	2
13b	117,496	24.48	4,799	1
13c	112,570	24.26	4,639	1
13d	104,523	22.27	4,693	1
13e	99,597	22.18	4,490	1
13f	127,643	20.47	6,234	2
14 US 1 via Columbia Gateway to Loudon Avenue/Hanover Road				
14a	120,266	19.91	6,040	2
14b	111,976	21.48	5,213	1
14c	155,407	25.21	6,164	2

**Scoring Backup - Employment Per Route Mile - By Alignment Alternative/Routing Option**

**Employ//Route**

<b>Mile</b>	<b>Score</b>
1,000 to 3,000	1
3,001 to 4,000	2
4,001 to 5,000	3
>5,000	4

	<b>Employ</b>	<b>Route Miles</b>	<b>Emp per Route Mile</b>	<b>Score</b>	
1.	MD 100 Alignment				
	1a.	61,941	22.62	2,739	1
	1b.	63,613	22.52	2,825	1
	1c.	50,999	20.60	2,476	1
	1d.	52,671	20.28	2,597	1
	1e.	23,387	13.46	1,738	1
	1f.	35,953	18.76	1,917	1
2	MD 108 Alignment				
	2a	53,919	14.40	3,744	2
	2b	55,134	15.22	3,622	2
	2c	63,057	18.44	3,420	2
	2d	64,272	19.26	3,337	2
	2e	92,473	23.71	3,900	2
	2f	94,145	23.49	4,008	3
	2g	114,056	27.75	4,110	3
	2h	115,728	27.53	4,204	3
	2i	93,688	24.53	3,819	2
	2j	95,360	24.31	3,923	2
	2k	115,271	28.57	4,035	3
	2l	116,943	28.35	4,125	3
	2m	62,156	14.91	4,169	3
	2n	83,739	18.95	4,419	3
3	MD 175 Alignment				
	3a	51,793	12.42	4,170	3
	3b.	52,988	13.24	4,002	3
	3c.	73,376	15.57	4,713	3
	3d.	74,571	16.39	4,550	3
	3e	90,347	21.73	4,158	3
	3f	92,019	21.51	4,278	3
	3g	91,542	22.55	4,060	3

	3h	93,214	22.33	4,174	3
	3i	111,930	24.88	4,499	3
	3j	113,602	24.66	4,607	3
	3k	113,125	25.70	4,402	3
	3l	114,797	25.48	4,505	3
	3m	60,010	12.90	4,652	3
	3n	81,593	16.05	5,084	4
4	Broken Land/Snowden River/Columbia Gateway MD 175				
	4a	85,224	14.33	5,947	4
	4b	86,619	15.15	5,717	4
	4c	123,778	23.64	5,236	4
	4d	124,910	23.42	5,333	4
	4e	125,173	24.46	5,117	4
	4f	126,845	24.24	5,233	4
	4g	87,675	14.81	5,920	4
5	Broken Land - Snowden - Guilford - US 1 - MD 175				
	5a	64,719	14.87	4,352	3
	5b	65,934	15.71	4,197	3
	5c	103,273	24.18	4,271	3
	5d	104,945	23.96	4,380	3
	5e	104,488	25.02	4,176	3
	5f	106,160	24.80	4,281	3
	5g	55,808	15.38	3,629	2
6	Broken Land - Snowden - Guildford - US 1 - Montivideo				
	6a	62,332	15.77	3,953	2
	6b	63,547	16.55	3,840	2
	6c	69,020	16.91	4,081	3
	6d	100,886	25.08	4,023	3
	6e	102,101	25.86	3,948	2
	6f	102,558	24.86	4,125	3
	6g	103,773	25.64	4,047	3
	6h	99,417	26.22	3,791	2
	6i	100,860	26.00	3,879	2
	6j	88,475	24.01	3,685	2
	6k	89,918	23.92	3,759	2
	6l	54,218	16.64	3,258	2
7	Broken Land - Snowden - Guildford - US 1 - MD 103				
	7a	78,220	17.46	4,480	3
	7b	79,435	18.22	4,360	3

7c	66,272	16.04	4,131	3
7d	116,774	26.77	4,362	3
7e	118,446	26.55	4,461	3
7f	117,989	27.53	4,286	3
7g	119,661	27.31	4,382	3
7h	103,701	25.35	4,090	3
7i	105,373	25.13	4,192	3
7j	67,539	23.14	2,919	1
7k	68,982	23.05	2,993	1
7l	85,105	18.39	4,628	3
7m	104,147	21.29	4,892	3
7n	105,590	21.20	4,981	3
7o	70,106	18.33	3,825	2

8 Broken Land - Snowden - Guildford - US 1 - MD 100

8a	60,500	15.67	3,860	2
8b	99,054	21.79	4,545	3
8c	100,726	21.57	4,669	3
8d	81,848	22.77	3,595	2
8e	80,405	22.68	3,545	2
8f	73,156	20.97	3,488	2

9 Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road

9a	76,760	20.54	3,737	2
9b	82,703	22.11	3,741	2
9c	89,326	25.84	3,457	2

10 Broken Land - MD 32

10a	23,003	14.28	1,611	1
10b	36,573	18.55	1,972	1
10c	36,627	19.55	1,874	1
10d	75,127	27.86	2,697	1
10e	76,799	27.64	2,779	1
10f	75,181	28.86	2,605	1
10g	80,381	28.64	2,807	1

11 US 1 via Columbia Gateway to Montivideo

11a	72,754	15.12	4,812	3
11b	73,969	15.90	4,652	3
11c	79,442	16.26	4,884	3

11d	111,308	24.43	4,556	3
11e	112,523	25.21	4,463	3
11f	112,980	24.21	4,667	3
11g	114,195	24.99	4,570	3
11h	109,839	25.57	4,295	3
11i	111,282	25.35	4,389	3
11j	98,897	23.36	4,234	3
11k	100,340	23.27	4,312	3
11l	64,640	15.99	4,043	3

12 US 1 via Columbia Gateway MD 103

12a	88,164	17.32	5,090	4
12b	89,379	18.08	4,944	3
12c	76,216	14.27	5,339	4
12d	126,718	26.63	4,758	3
12e	128,390	26.41	4,861	3
12f	127,933	27.39	4,671	3
12g	129,605	27.17	4,770	3
12h	113,645	23.58	4,819	3
12i	115,317	23.36	4,936	3
12j	94,996	21.37	4,445	3
12k	96,439	21.28	4,532	3
12l	95,049	21.68	4,384	3
12m	114,091	19.52	5,845	4
12n	115,534	19.43	5,946	4
12o	80,050	18.19	4,401	3

13 US 1 via Columbia Gateway to MD 100

13a	70,204	15.17	4,626	3
13b	100,601	24.48	4,109	3
13c	102,044	24.26	4,205	3
13d	89,659	22.27	4,026	3
13e	91,102	22.18	4,107	3
13f	82,770	20.47	4,043	3

14 US 1 via Columbia Gateway to Loudon Avenue/Hanover Road

14a	87,307	19.91	4,385	3
14b	93,249	21.48	4,341	3
14c	99,873	25.21	3,962	2

**Scoring Backup - Bus Travel Time to Auto Travel Time - By Alignment Alternative/Routing Option**

Ratio	Score
ratio <2.2	3
ratio 2.21 to 2.5	2
ratio >2.5	1

	Bus Travel Time	Auto	Ratio	Score
1.	MD 100 Alignment			
1a.	43.1	23	1.873913	3
1b.	42.86	23	1.863478	3
1c.	37.65	23	1.636957	3
1d.	36.88	23	1.603478	3
1e.	29.53	20	1.4765	3
1f.	35.12	23	1.526957	3
2	MD 108 Alignment			
2a	41.11	20	2.0555	3
2b	43.57	20	2.1785	3
2c	53.24	20	2.662	1
2d	55.67	20	2.7835	1
2e	63.46	23	2.75913	1
2f	62.93	23	2.736087	1
2g	75.58	23	3.286087	1
2h	75.05	23	3.263043	1
2i	65.92	23	2.866087	1
2j	65.39	23	2.843043	1
2k	78.04	23	3.393043	1
2l	77.51	23	3.37	1
2m	42.65	23	1.854348	3
2n	54.76	23	2.38087	2
3	MD 175 Alignment			
3a	37.26	20	1.863	3
3b.	39.72	20	1.986	3
3c.	49.38	20	2.469	2
3d.	51.84	20	2.592	1
3e	59.6	23	2.591304	1
3f	59.08	23	2.568696	1
3g	62.06	23	2.698261	1
3h	61.54	23	2.675652	1
3i	73.63	23	3.201304	1

	3j	73.11	23	3.178696	1
	3k	76.09	23	3.308261	1
	3l	75.57	23	3.285652	1
	3m	38.7	23	1.682609	3
	3n	50.82	23	2.209565	2
4	Broken Land/Snowden River/Columbia GatewayMD 175				
	4a	42.99	20	2.1495	3
	4b	45.45	20	2.2725	2
	4c	67.25	23	2.923913	1
	4d	66.72	23	2.90087	1
	4e	69.71	23	3.03087	1
	4f	69.18	23	3.007826	1
	4g	44.43	23	1.931739	3
5	Broken Land - Snowden - Guilford - US 1 - MD 175				
	5a	44.61	20	2.2305	2
	5b	47.13	20	2.3565	2
	5c	68.87	23	2.994348	1
	5d	68.34	23	2.971304	1
	5e	71.39	23	3.103913	1
	5f	70.86	23	3.08087	1
	5g	46.14	23	2.006087	3
6	Broken Land - Snowden - Guildford - US 1 - Montivideo				
	6a	47.31	20	2.3655	2
	6b	49.65	20	2.4825	2
	6c	50.74	20	2.537	1
	6d	71.57	23	3.111739	1
	6e	71.04	23	3.088696	1
	6f	73.91	23	3.213478	1
	6g	73.38	23	3.190435	1
	6h	72.34	23	3.145217	1
	6i	72.13	23	3.136087	1
	6j	65.97	23	2.868261	1
	6k	65.75	23	2.858696	1
	6l	49.92	23	2.170435	3
7	Broken Land - Snowden - Guildford - US 1 - MD 103				
	7a	52.38	20	2.619	1
	7b	54.66	20	2.733	1
	7c	44.79	20	2.2395	2
	7d	76.64	23	3.332174	1

	7e	76.11	23	3.30913	1
	7f	78.92	23	3.431304	1
	7g	78.39	23	3.408261	1
	7h	69.67	23	3.02913	1
	7i	69.45	23	3.019565	1
	7j	58.2	23	2.530435	1
	7k	58.19	23	2.53	1
	7l	64.35	23	2.797826	1
	7m	61.21	23	2.661304	1
	7n	60.99	23	2.651739	1
	7o	54.99	23	2.39087	2
8	Broken Land - Snowden - Guildford - US 1 - MD 100				
	8a	39.96	20	1.998	3
	8b	64.84	23	2.81913	1
	8c	64.63	23	2.81	1
	8d	58.47	23	2.542174	1
	8e	58.25	23	2.532609	1
	8f	55.86	23	2.428696	2
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road				
	9a	59.54	20	2.977	1
	9b	65.22	23	2.835652	1
	9c	75.44	23	3.28	1
10	Broken Land - MD 32				
	10a	23.62	23	1.026957	3
	10b	36.43	20	1.8215	3
	10c	39.43	20	1.9715	3
	10d	60.69	23	2.638696	1
	10e	60.16	23	2.615652	1
	10f	63.69	23	2.76913	1
	10g	63.16	23	2.746087	1
11	US 1 via Columbia Gateway to Montivideo				
	11a	45.36	20	2.268	2
	11b	47.7	20	2.385	2
	11c	45.51	20	2.2755	2
	11d	69.62	23	3.026957	1
	11e	69.09	23	3.003913	1

	11f	71.96	23	3.128696	1
	11g	71.43	23	3.105652	1
	11h	70.39	23	3.060435	1
	11i	70.18	23	3.051304	1
	11j	64.02	23	2.783478	1
	11k	63.81	23	2.774348	1
	11l	47.97	23	2.085652	3
12	US 1 via Columbia Gateway MD 103				
	12a	51.57	20	2.5785	1
	12b	53.86	20	2.693	1
	12c	43.98	20	2.199	3
	12d	75.83	23	3.296957	1
	12e	75.3	23	3.273913	1
	12f	78.1	23	3.395652	1
	12g	77.58	23	3.373043	1
	12h	68.68	23	2.986087	1
	12i	68.65	23	2.984783	1
	12j	62.49	23	2.716957	1
	12k	62.27	23	2.707391	1
	12l	63.55	23	2.763043	1
	12m	60.4	23	2.626087	1
	12n	60.18	23	2.616522	1
	12o	54.18	23	2.355652	2
13	US 1 via Columbia Gateway to MD 100				
	13a	37.92	20	1.896	3
	13b	62.8	23	2.730435	1
	13c	62.59	23	2.721304	1
	13d	56.42	23	2.453043	2
	13e	56.21	23	2.443913	2
	13f	53.82	23	2.34	2
14	US 1 via Columbia Gateway to Loudon Avenue/Hanover Road				
	14a	57.56	20	2.878	1
	14b	63.25	23	2.75	1
	14c	73.46	23	3.193913	1



**Scoring Backup - Route Directness Ratio - By Alignment Alternative/Routing Option**

<b>Route Directness Ratio</b>	<b>Score</b>
1.0 to 1.2	3
1.21 to 1.4	2
>1.41	1

		<b>Directness Ratio</b>	<b>Score</b>
1.	MD 100 Alignment		
	1a.	1.21	2
	1b.	1.2	3
	1c.	1.1	3
	1d.	1.08	3
	1e.	1.08	3
	1f.	1.46	1
2	MD 108 Alignment		
	2a	1.2	3
	2b	1.23	2
	2c	1.52	1
	2d	1.55	1
	2e	1.29	2
	2f	1.28	2
	2g	1.5	1
	2h	1.5	1
	2i	1.3	2
	2j	1.3	2
	2k	1.52	1
	2l	1.52	1
	2m	1.16	3
	2n	1.47	1
3	MD 175 Alignment		
	3a	1	3
	3b.	1.07	3
	3c.	1.25	2
	3d.	1.32	2
	3e	1.15	3
	3f	1.15	3
	3g	1.2	3
	3h	1.19	3
	3i	1.32	2
	3j	1.32	2

	3k	1.37	2
	3l	1.36	2
	3m	1	3
	3n	1.25	2
4	Broken Land/Snowden River/Columbia GatewayMD 175		
	4a	1.15	3
	4b	1.22	2
	4c	1.26	2
	4d	1.25	2
	4e	1.3	2
	4f	1.3	2
	4g	1.15	3
5	Broken Land - Snowden - Guilford - US 1 - MD 175		
	5a	1.2	3
	5b	1.26	2
	5c	1.29	2
	5d	1.28	2
	5e	1.33	2
	5f	1.33	2
	5g	1.2	3
6	Broken Land - Snowden - Guildford - US 1 - Montivideo		
	6a	1.29	2
	6b	1.33	2
	6c	1.36	2
	6d	1.35	2
	6e	1.38	2
	6f	1.34	2
	6g	1.37	2
	6h	1.39	2
	6i	1.38	2
	6j	1.28	2
	6k	1.27	2
	6l	1.28	2
7	Broken Land - Snowden - Guildford - US 1 - MD 103		
	7a	1.41	1
	7b	1.47	1
	7c	1.39	2
	7d	1.42	1
	7e	1.42	1

	7f	1.46	1
	7g	1.46	1
	7h	1.26	2
	7i	1.26	2
	7j	1.15	3
	7k	1.13	3
	7l	1.17	3
	7m	1.14	3
	7n	1.13	3
	7o	1.39	2
8	Broken Land - Snowden - Guildford - US 1 - MD 100		
	8a	1.26	2
	8b	1.33	2
	8c	1.32	2
	8d	1.22	2
	8e	1.2	3
	8f	1.63	1
9	Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road		
	9a	1.65	1
	9b	1.19	3
	9c	2.01	1
10	Broken Land - MD 32		
	10a	1.11	3
	10b	1.49	1
	10c	1.57	1
	10d	1.48	1
	10e	1.48	1
	10f	1.54	1
	10g	1.53	1
11	US 1 via Columbia Gateway to Montivideo		
	11a	1.24	2
	11b	1.28	2
	11c	1.31	2
	11d	1.31	2
	11e	1.34	2
	11f	1.31	2

	11g	1.34	2
	11h	1.36	2
	11i	1.35	2
	11j	1.25	2
	11k	1.23	2
	11l	1.24	2
12	US 1 via Columbia Gateway MD 103		
	12a	1.38	2
	12b	1.44	1
	12c	1.14	3
	12d	1.41	1
	12e	1.4	2
	12f	1.38	2
	12g	1.38	2
	12h	1.25	2
	12i	1.24	2
	12j	1.14	3
	12k	1.12	3
	12l	1.15	3
	12m	1.12	3
	12n	1.12	3
	12o	1.37	2
13	US 1 via Columbia Gateway to MD 100		
	13a	1.31	2
	13b	1.36	2
	13c	1.36	2
	13d	1.25	2
	13e	1.23	2
	13f	1.68	1
14	US 1 via Columbia Gateway to Loudon Avenue/Hanover Road		
	14a	1.6	1
	14b	1.15	3
	14c	1.6	1

**Scoring Backup - Supports Regional Plans - By Alignment Alternative/Routing Option**

- a. 1 to 2 major initiatives supported 1 point
- b. 3 to 4 major initiatives supported 2 points
- c. > 4 major initiatives supported 3 points

Backup

- Howard County
- 1. Development along US 1
  - 2. Redevelopment areas - Columbia Town Center, Snowden River Parkway, Gateway, US 1
  - 3. Stronger connections between Columbia and US 1
  - 4. Multimodal connections to MARC rail from Howard County

- Anne Arundel County
- 1. Connections to "Targeted Development Area" - Fort Meade
  - 2. Connections to "Targeted Development Area" - BWI/BWI Business District
  - 3. Multimodal connections to MARC rail from Anne Arundel County

**Plans Supported**

			<b>Score</b>
1.	MD 100 Alignment		
	1a.	redevelopment - town center, targeted development - BWI/BWI Business District, connection to MARC - HO Co, AA	2
	1b.	redevelopment - town center, targeted development - BWI/BWI Business District, connection to MARC - HO Co, AA	2
	1c.	redevelopment - town center, targeted development - BWI/BWI Business District, connection to MARC - HO Co, AA	2
	1d.	redevelopment - town center, targeted development - BWI/BWI Business District, connection to MARC - HO Co, AA	2
	1e.	redevelopment - town center, targeted development - BWI/BWI Business District, connection to MARC - HO Co, AA	2
	1f.	redevelopment - town center, targeted development - Fort Meade , connection to MARC, HO Co, AA	2
2	MD 108 Alignment		
	2a	redevelopment - town center	1
	2b	redevelopment - town center	1
	2c	redevelopment - Gateway, town center	1
	2d	redevelopment - Gateway, town center	1

	2e	redevelopment - town center, targeted development - BWI/BWI Business District	1
	2f	redevelopment - town center, targeted development - BWI/BWI Business District	1
	2g	redevelopment - town center, gateway, targeted development - BWI/BWI Business District, connection to MARC	2
	2h	redevelopment - town center, targeted development - BWI/BWI Business District, connection to MARC	2
	2i	redevelopment - town center, targeted development - BWI/BWI Business District	1
	2j	redevelopment - town center, targeted development - BWI/BWI Business District	1
	2k	redevelopment - town center, Gateway, targeted development - BWI/BWI Business District	1
	2l	redevelopment - town center, Gateway, targeted development - BWI/BWI Business District	1
	2m	redevelopment - town center, targeted development - Fort Meade	1
	2n	redevelopment - town center, Gateway, targeted development - Fort Meade	2
3	MD 175 Alignment		
	3a	redevelopment town center	1
	3b.	redevelopment town center	1
	3c.	redevelopment - town center, Gateway	1
	3d.	redevelopment - town center, Gateway	1
	3e	redevelopment - town center targeted development - BWI/BWI Business District	1
	3f	redevelopment - town center targeted development - BWI/BWI Business District	1
	3g	redevelopment - town center targeted development - BWI/BWI Business District	1
	3h	redevelopment - town center targeted development - BWI/BWI Business District	1
	3i	redevelopment - town center, Gateway, targeted development - BWI/BWI Business District	2
	3j	redevelopment - Gateway, targeted development - BWI/BWI Business District	2
	3k	redevelopment - town center, Gateway, targeted development - BWI/BWI Business District	2
	3l	redevelopment - town center, Gateway, targeted development - BWI/BWI Business District	2
	3m	redevelopment - town center, targeted development - Fort Meade	1
	3n	redevelopment - town center, Gateway, targeted development - Fort Meade	2
4	Broken Land/Snowden River/Columbia GatewayMD 175		
	4a	redevelopment - town center, snowden, gateway	2
	4b	redevelopment - town center, snowden, gateway	2
	4c	redevelopment - town center, snowden, gateway, targeted development BWI/BWI Business District	2
	4d	redevelopment - town center, snowden, gateway, targeted development BWI/BWI Business District	2

	4e	redevelopment - town center, snowden, gateway, targeted development BWI/BWI Business District	2
	4f	redevelopment - town center, snowden, gateway, targeted development BWI/BWI Business District	2
	4g	redevelopment - town center, snowden, gateway, targeted development Fort Meade	2
5	Broken Land - Snowden - Guilford - US 1 - MD 175		
	5a	redevelopment - town center, snowden, US1, US 1 development	2
	5b	redevelopment - town center, snowden, US1, US 1 development	
	5c	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	5d	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	5e	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	5f	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	5g	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - Fort Meade	3
6	Broken Land - Snowden - Guildford - US 1 - Montivideo		
	6a	redevelopment - town center, snowden, US1, US 1 development, stronger connections	3
	6b	redevelopment - town center, snowden, US1, US 1 development, stronger connections	3
	6c	redevelopment - town center, snowden, US1, US 1 development, stonger connections	3
	6d	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	6e	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	6f	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	6g	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	6h	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	6i	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	6j	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	6k	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
	6l	redevelopment - town center, snowden, US1, US 1 development, strongr connections, targeted development - Fort Meade	3
7	Broken Land - Snowden - Guildford - US 1 - MD 103		
	7a	redevelopment - town center, snowden, US1, US 1 development, stronger connections	3
	7b	redevelopment - town center, snowden, US1, US 1 development, stronger connections	3
	7c	redevelopment - town center, snowden, US1, US 1 development, stronger connections	3

7d	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7e	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7f	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7g	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7h	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7i	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7j	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7k	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7l	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7m	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7n	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - BWI/BWI Business District	3
7o	redevelopment - town center, snowden, US1, US 1 development, stronger conn, MARC HO, AA, targeted development - Fort Meade	3

8 Broken Land - Snowden - Guildford - US 1 - MD 100

8a	redevelopment - town center, snowden, US1, US 1 development, stronger connections, MARC HO, AA	3
8b	redevelopment - town center, snowden, US1, US 1 development, stronger connections, MARC HO, AA, targeted development - BWI/BWI Business District	3
8c	redevelopment - town center, snowden, US1, US 1 development, stronger connections, MARC HO, AA, targeted development - BWI/BWI Business District	3
8d	redevelopment - town center, snowden, US1, US 1 development, stronger connections, MARC HO, AA, targeted development - BWI/BWI Business District	3
8e	redevelopment - town center, snowden, US1, US 1 development, stronger connections, MARC HO, AA, targeted development - BWI/BWI Business District	3
8f	redevelopment - town center, snowden, US1, US 1 development, stronger connections, MARC HO, AA, targeted development - Fort Meade	3

9 Broken Land - Snowden - Guildford - US 1 - Loudon Ave/Hanover Road

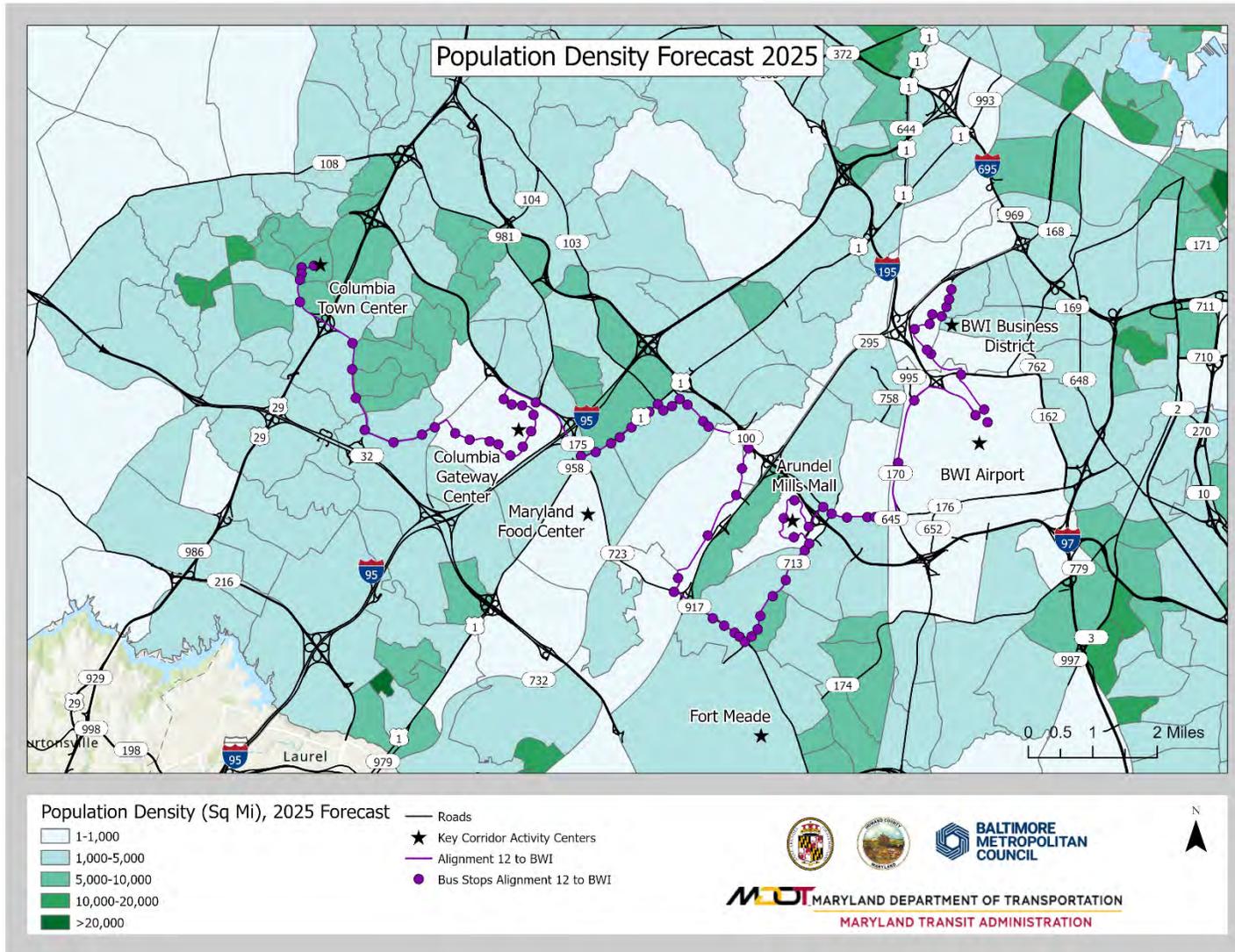
9a	redevelopment - town center, snowden, US1, US 1 development, stronger connections	3
9b	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3
9c	redevelopment - town center, snowden, US1, US 1 development, stronger connections, targeted development - BWI/BWI Business District	3

10	Broken Land - MD 32		
	10a	targeted development - Fort Meade	1
	10b	targeted development - Fort Meade	1
	10c	targeted development - Fort Meade	1
	10d	targeted development - Fort Meade, BWI/BWI Business District	1
	10e	targeted development - Fort Meade, BWI/BWI Business District	1
	10f	targeted development - Fort Meade, BWI/BWI Business District	1
	10g	targeted development - Fort Meade, BWI/BWI Business District	1
11	US 1 via Columbia Gateway to Montivideo		
	11a	redevelopment - town center, snowden, Gateway, US 1, stronger connections	3
	11b	redevelopment - town center, snowden, Gateway, US 1, stronger connections	3
	11c	redevelopment - town center, snowden, Gateway, US 1, stronger connections	3
	11d	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
	11e	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
	11f	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
	11g	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
	11h	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
	11i	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
	11j	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
	11k	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
	11l	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - Fort Meade	3
12	US 1 via Columbia Gateway MD 103		
	12a	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA	3
	12b	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA	3
	12c	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA	3
	12d	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
	12e	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3

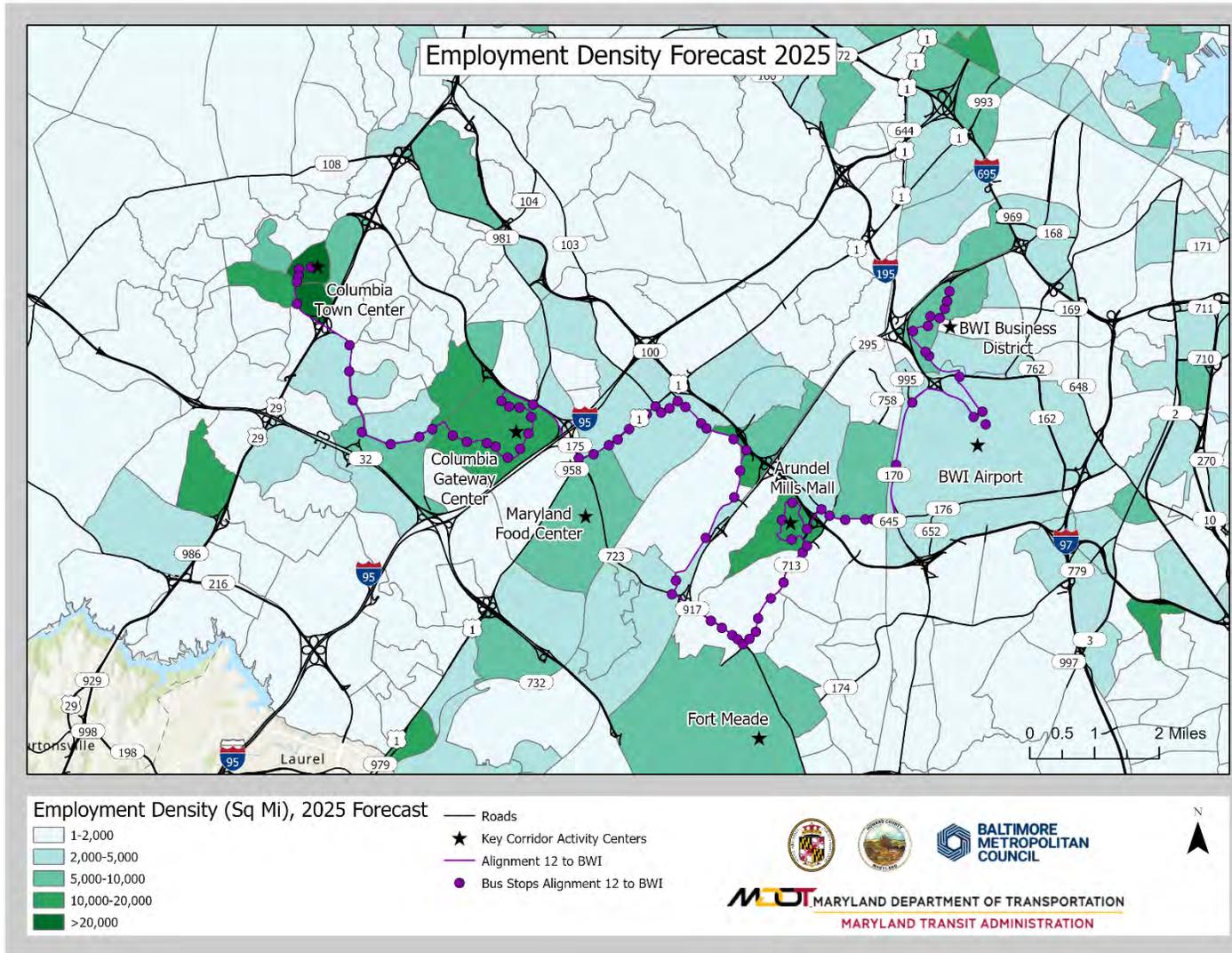
12f	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12g	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12h	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12i	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12j	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12k	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12l	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12m	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12n	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
12o	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - Fort Meade	3
13	US 1 via Columbia Gateway to MD 100	
13a	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA	3
13b	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
13c	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
13d	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
13e	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development - BWI/BWI Business District	3
13f	redevelopment - town center, snowden, Gateway, US 1, stronger connections, MARC HoCo, AA, targeted development -Fort Meade	3
14	US 1 via Columbia Gateway to Loudon Avenue/Hanover Road	
14a	redevelopment - town center, snowden, Gateway, US 1, stronger connections	3
14b	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - BWI/BWI Business District	3
14c	redevelopment - town center, snowden, Gateway, US 1, stronger connections, targeted development - Fort Meade	3

Appendix 5 – Selected Alignment Alternative/Route Option Maps – Overlaid on Project Area  
Population Density, Employment Density, and Zoning

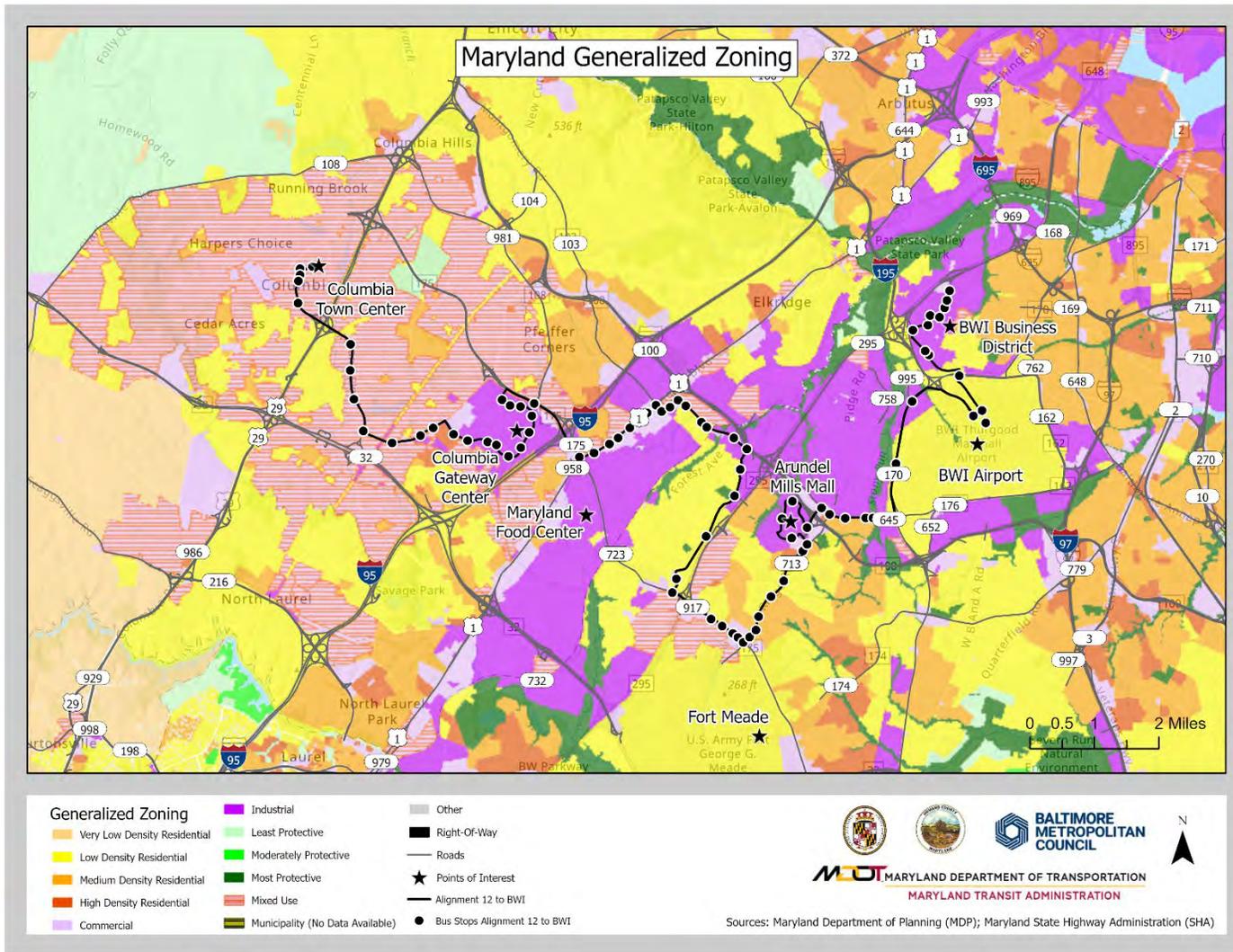
**Alignment Alternative/Routing Option #12 – Columbia Town Center to BWI Business District via MD 103 - Population Density**



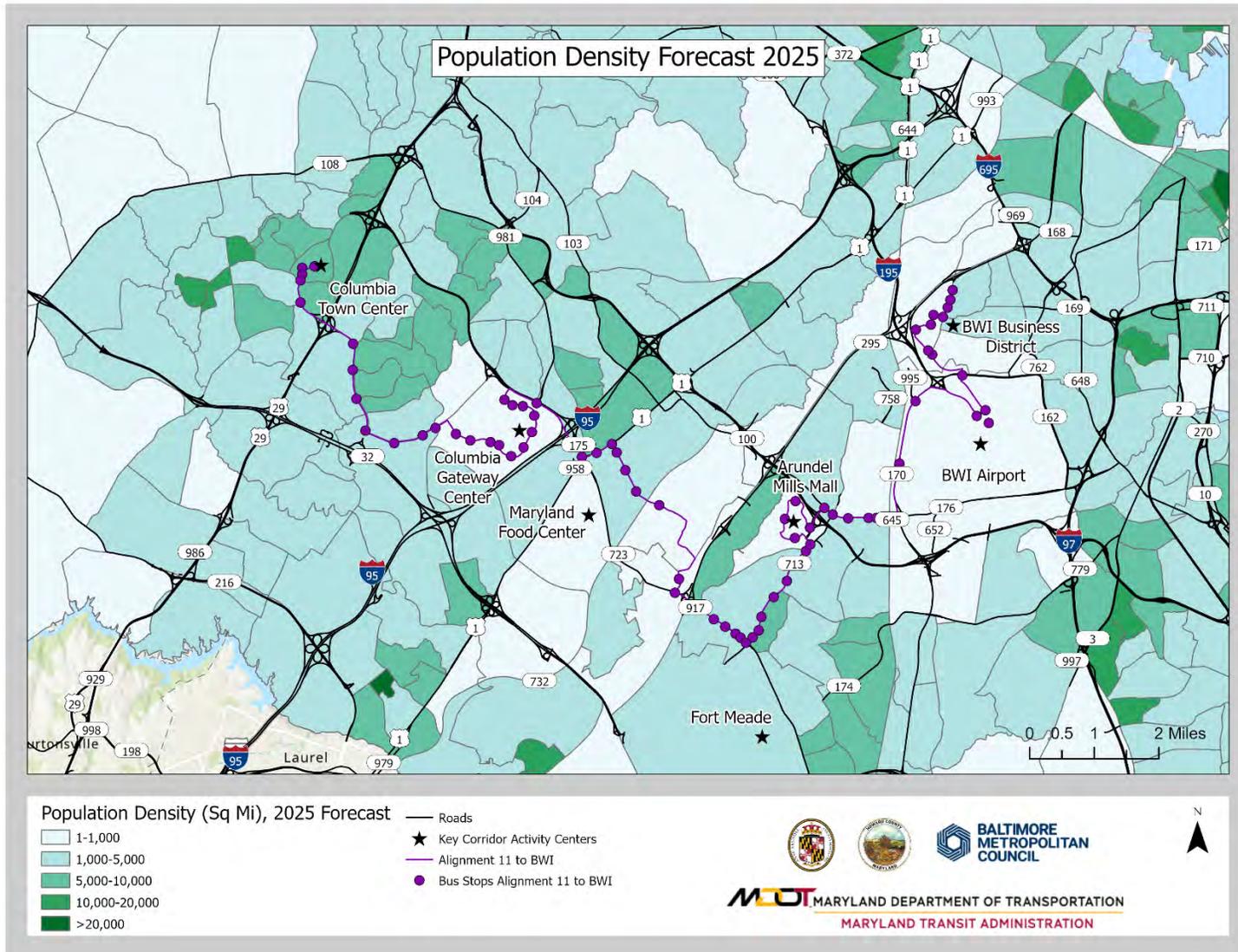
**Alignment Alternative/Routing Option #12 – Columbia Town Center to BWI Business District via MD 103 – Employment Density**



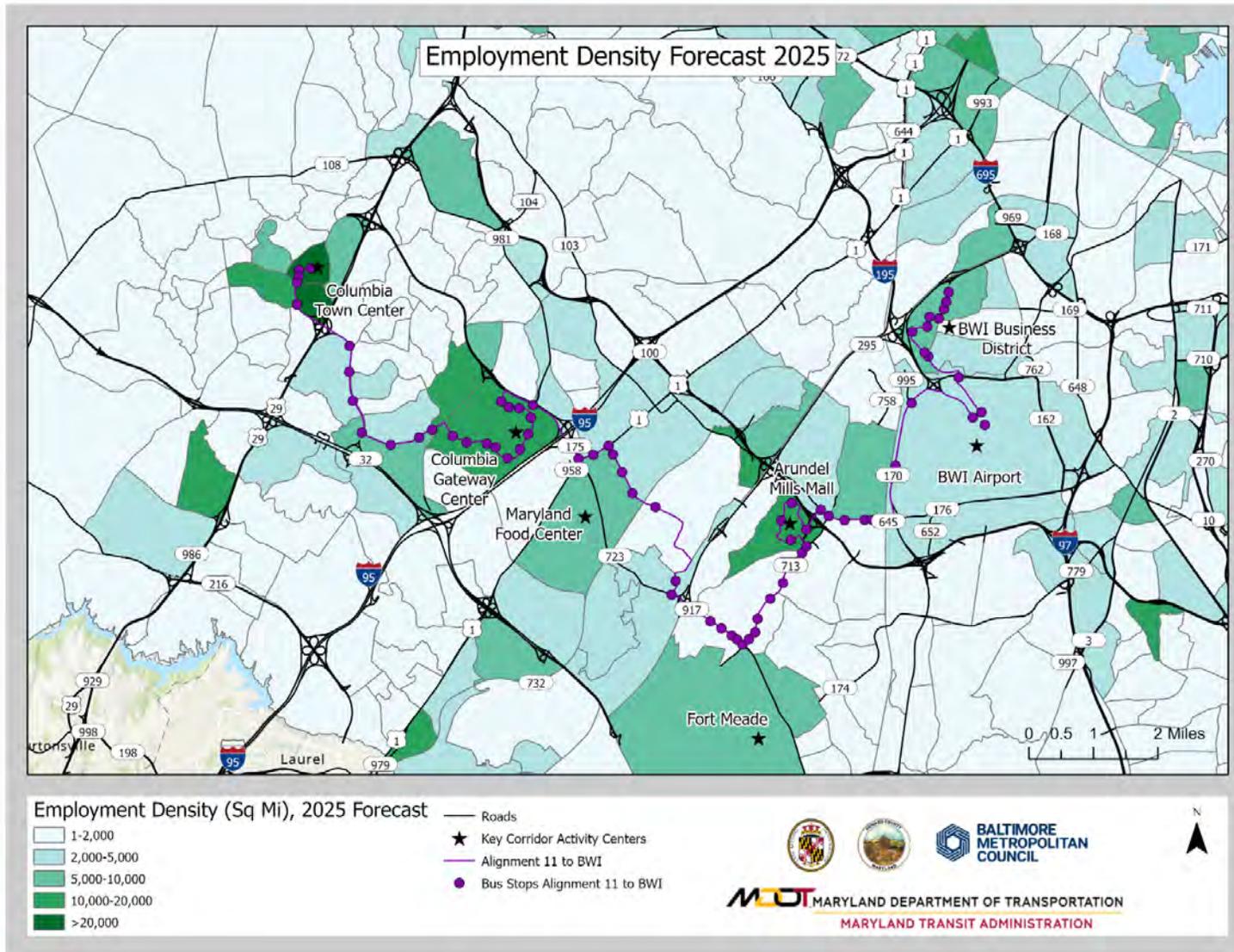
**Alignment Alternative/Routing Option #12 – Columbia Town Center to BWI Business District via MD 103 – Zoning**



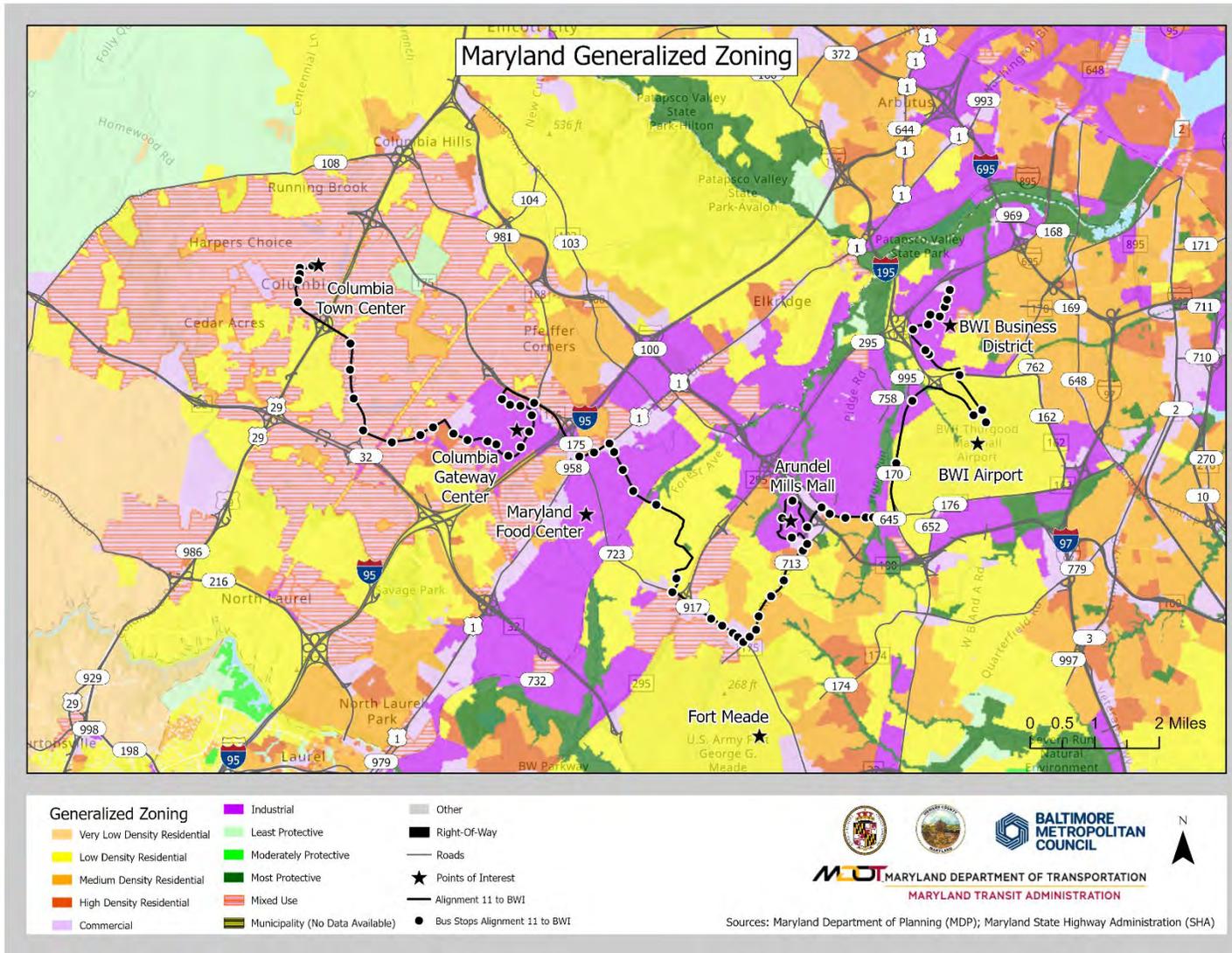
**Alignment Alternative/Routing Option #11 – Columbia Town Center to BWI Business District via Montevideo - Population Density**



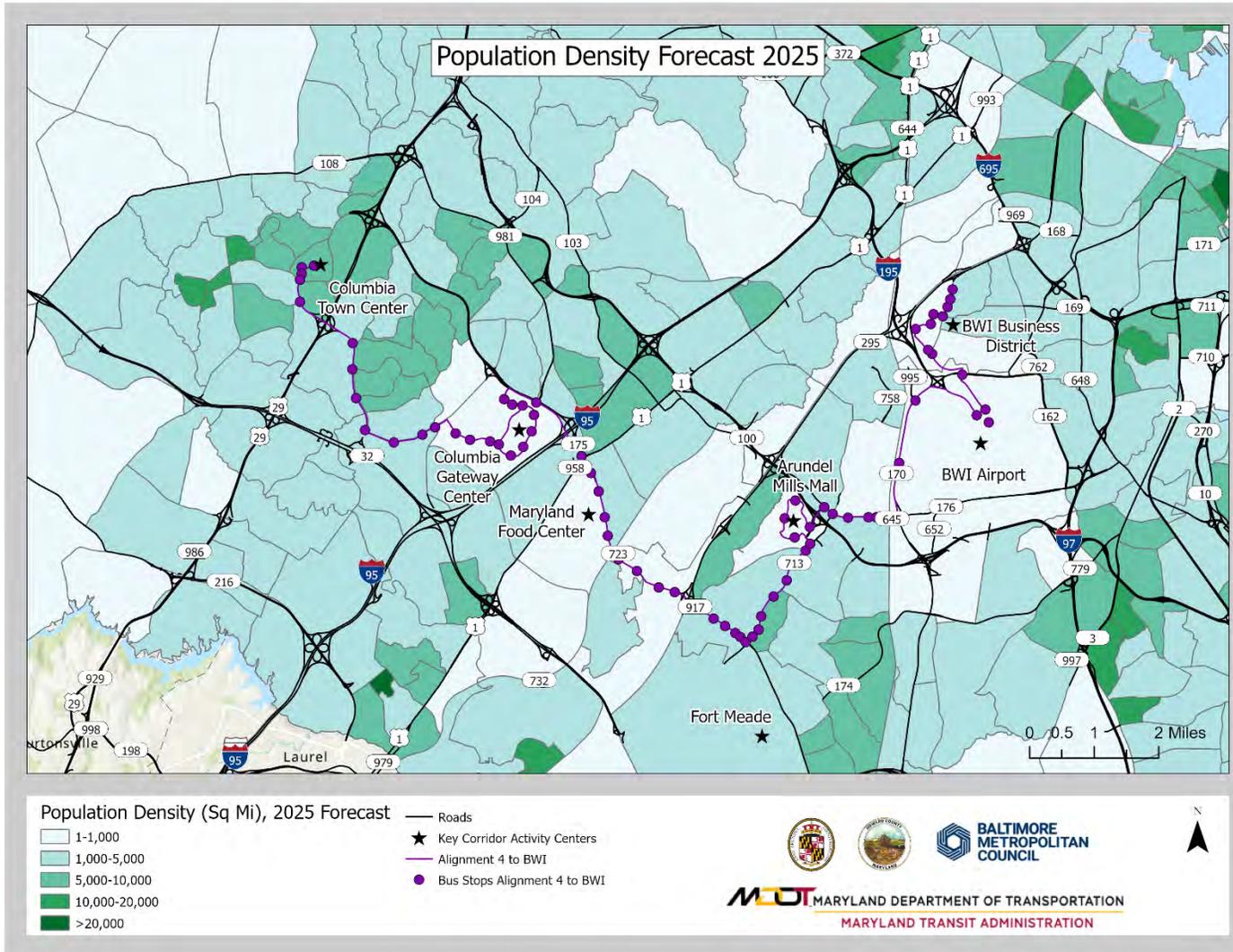
Alignment Alternative/Routing Option #11 – Columbia Town Center to BWI Business District via Montevideo - Employment Density



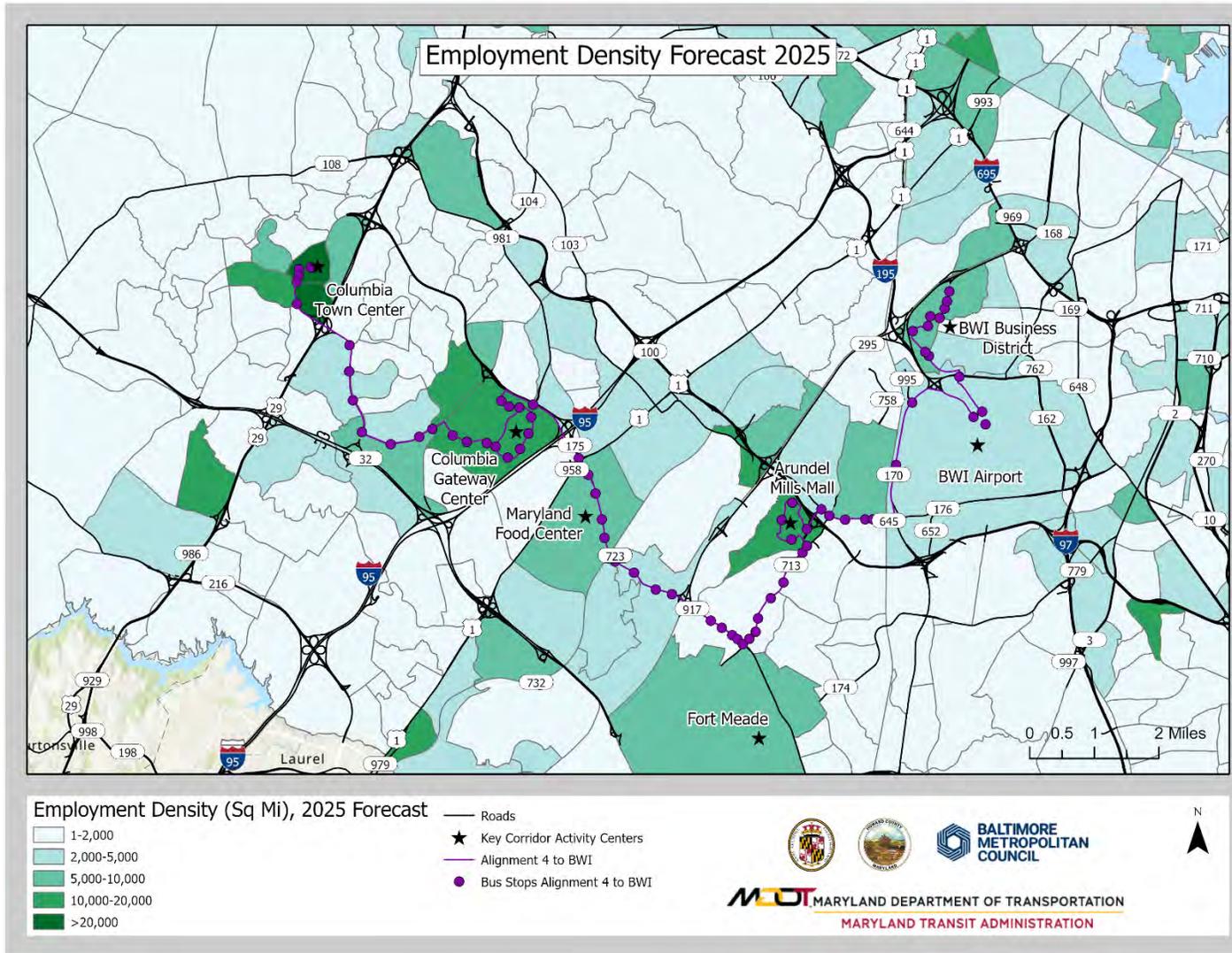
**Alignment Alternative/Routing Option #11 – Columbia Town Center to BWI Business District via Montevideo – Zoning**



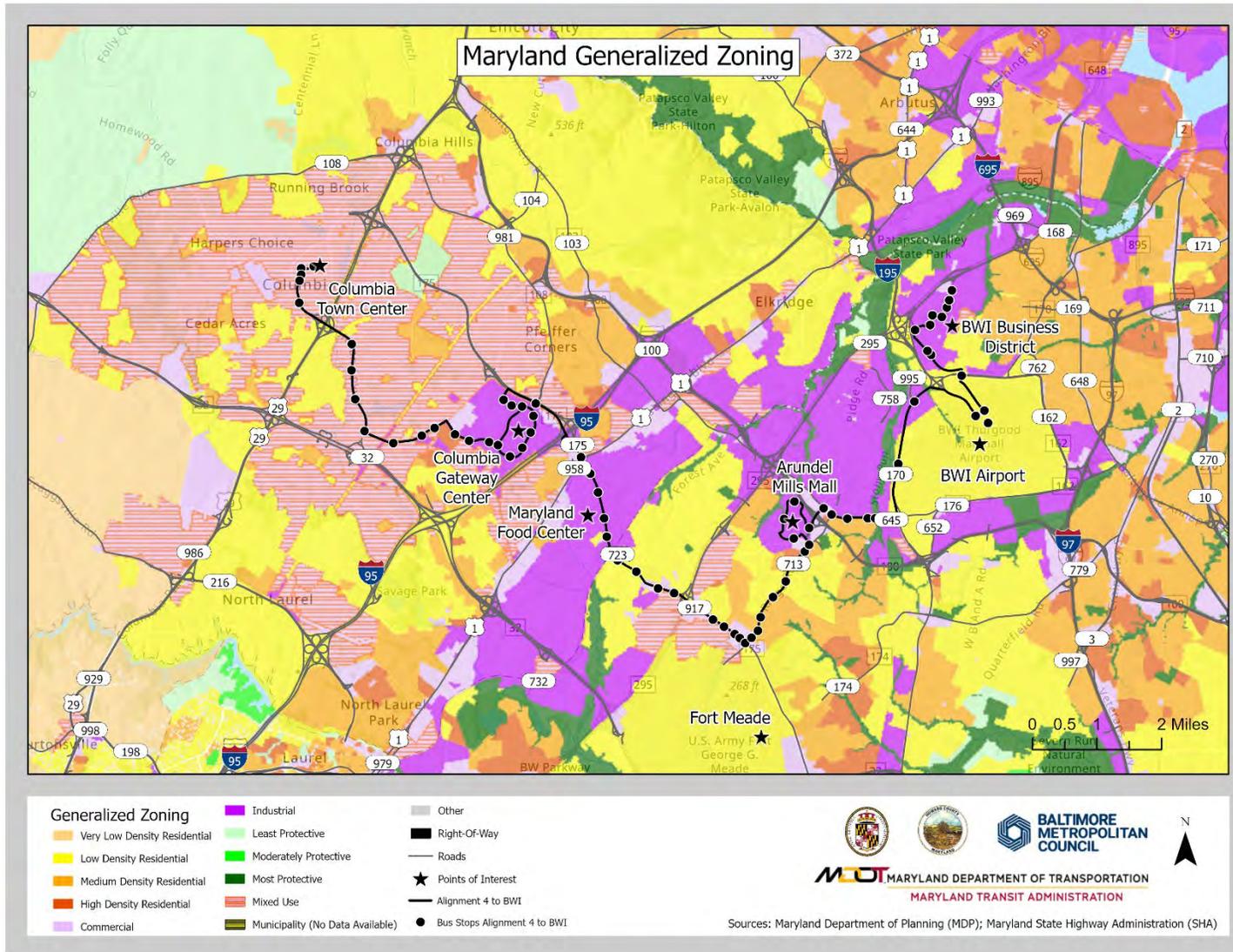
**Alignment Alternative/Routing Option #4 – Columbia Town Center to BWI Business District via MD 175 - Population Density**



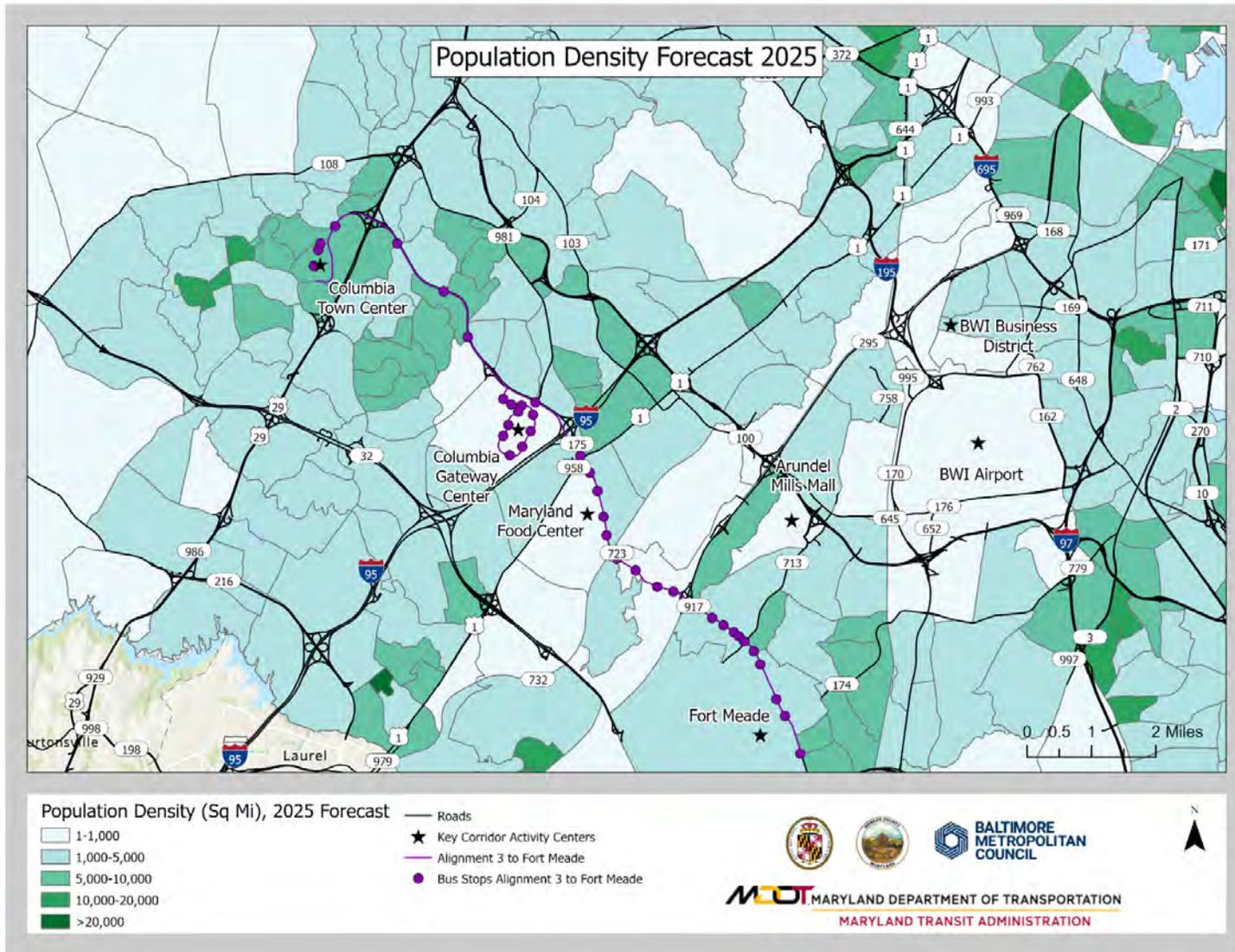
**Alignment Alternative/Routing Option #4 – Columbia Town Center to BWI Business District via MD 175 – Employment Density**



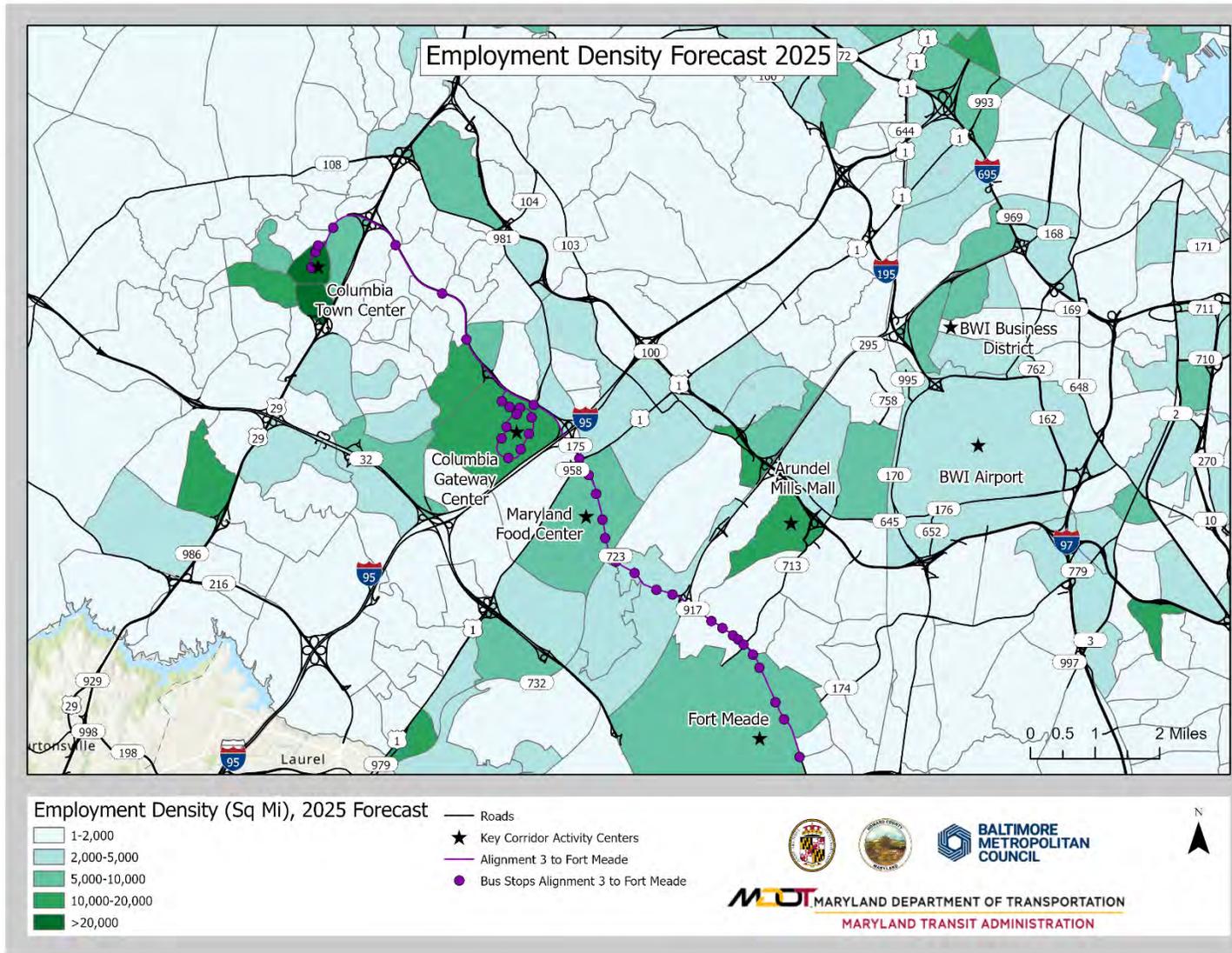
**Alignment Alternative/Routing Option #4 – Columbia Town Center to BWI Business District via MD 175 – Zoning**



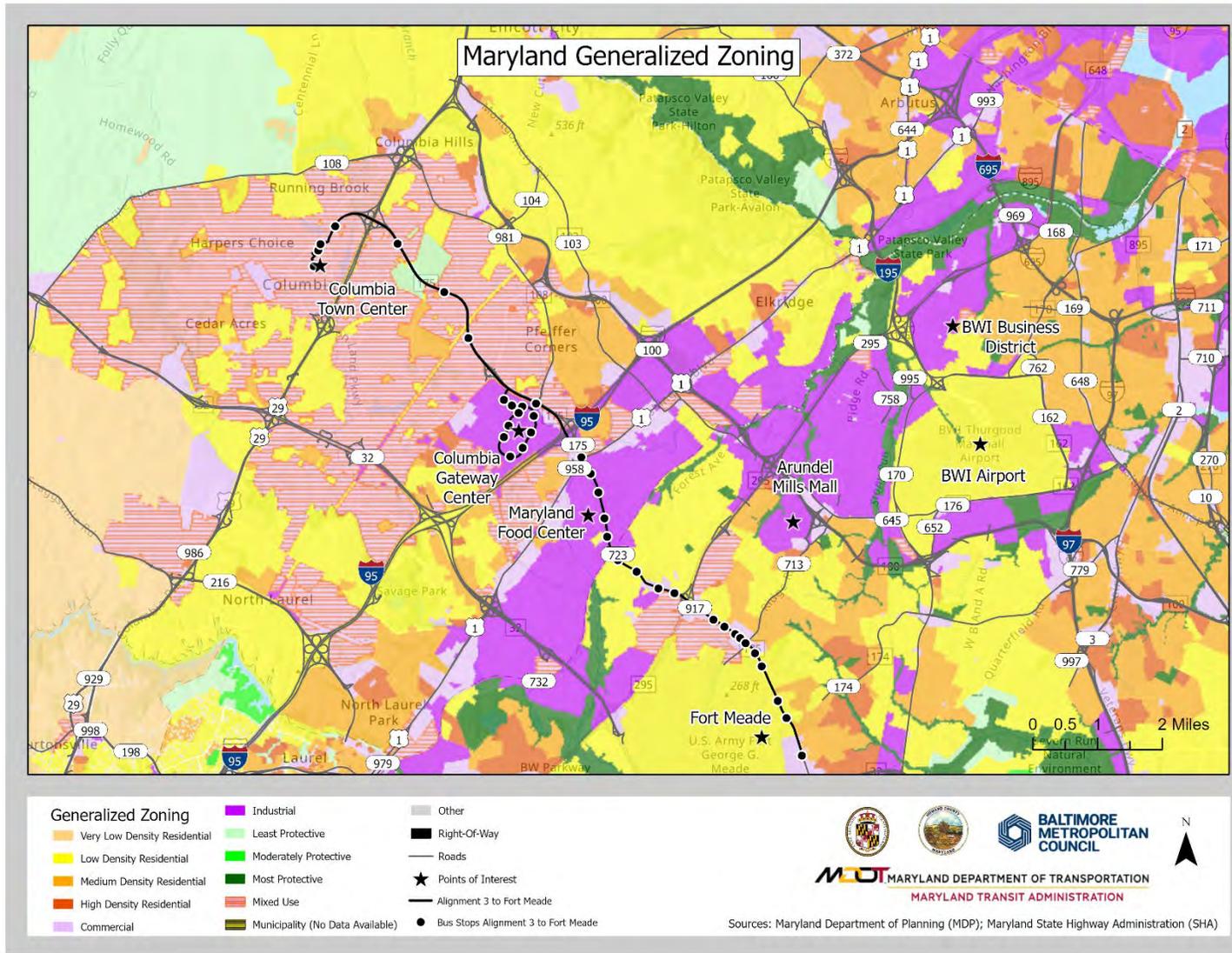
**Alignment Alternative/Routing Option #3 – Columbia Town Center to Fort Meade via MD 175 - Population Density**



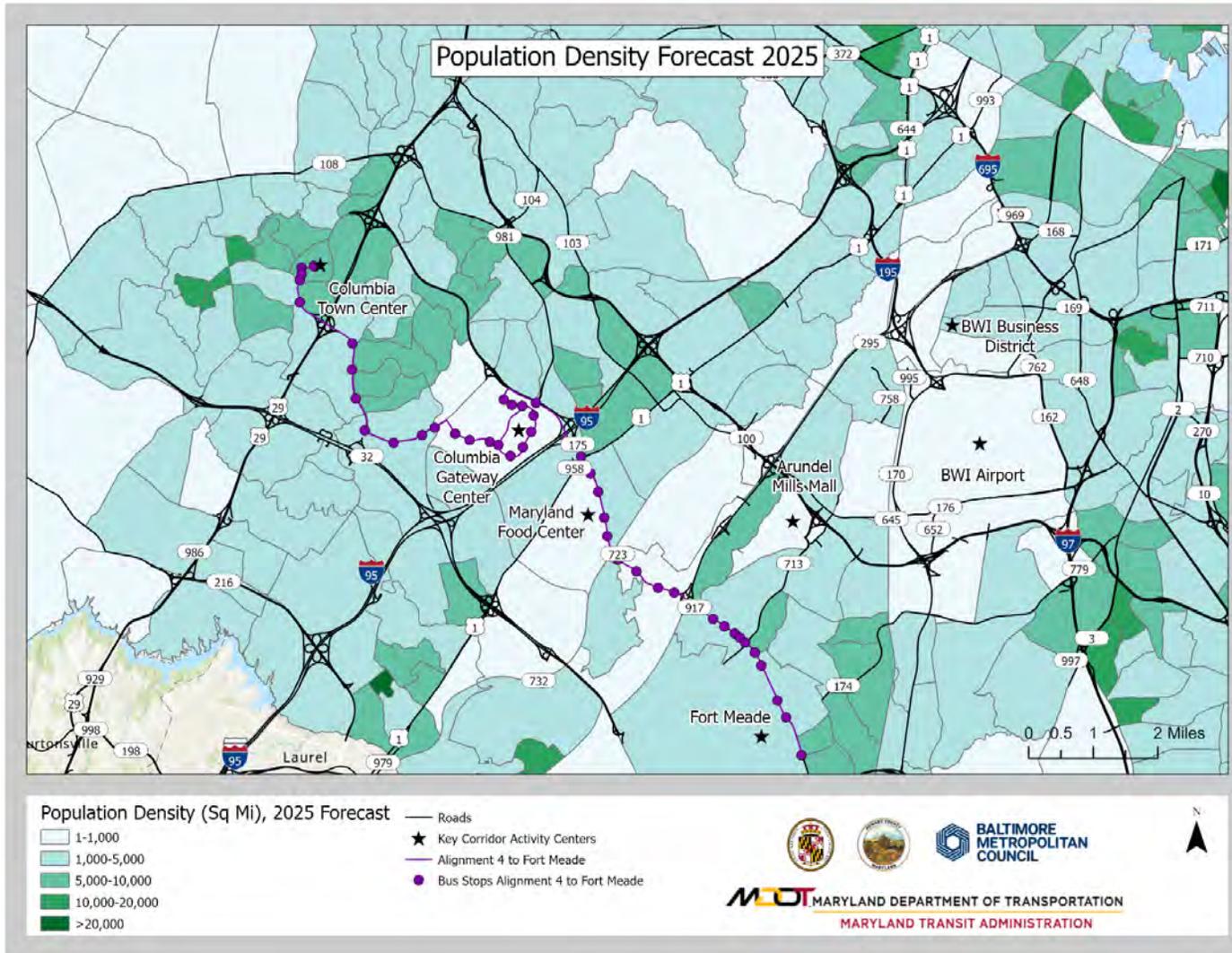
**Alignment Alternative/Routing Option #3 – Columbia Town Center to Fort Meade via MD 175 - Employment Density**



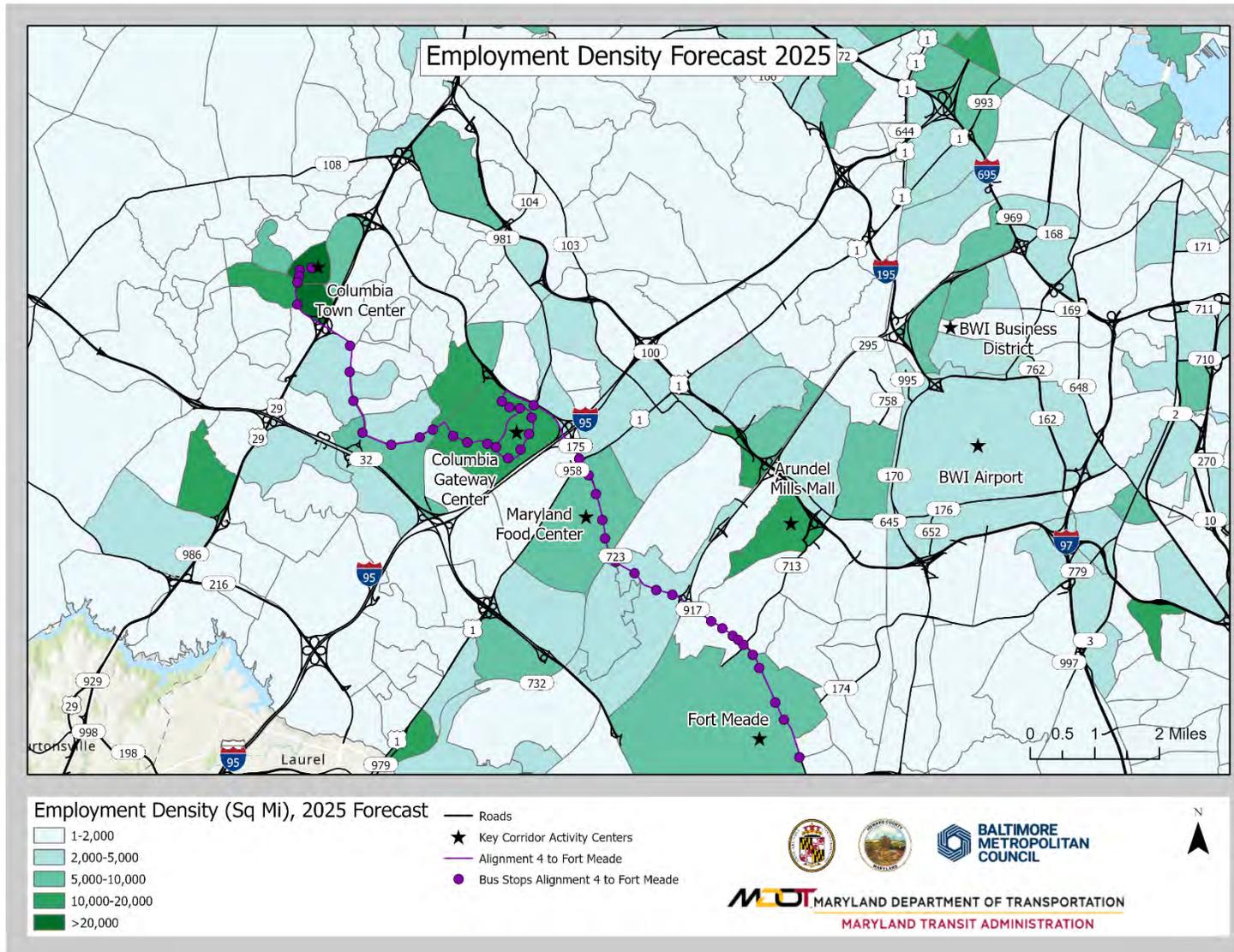
**Alignment Alternative/Routing Option #3 – Columbia Town Center to Fort Meade via MD 175 – Zoning**



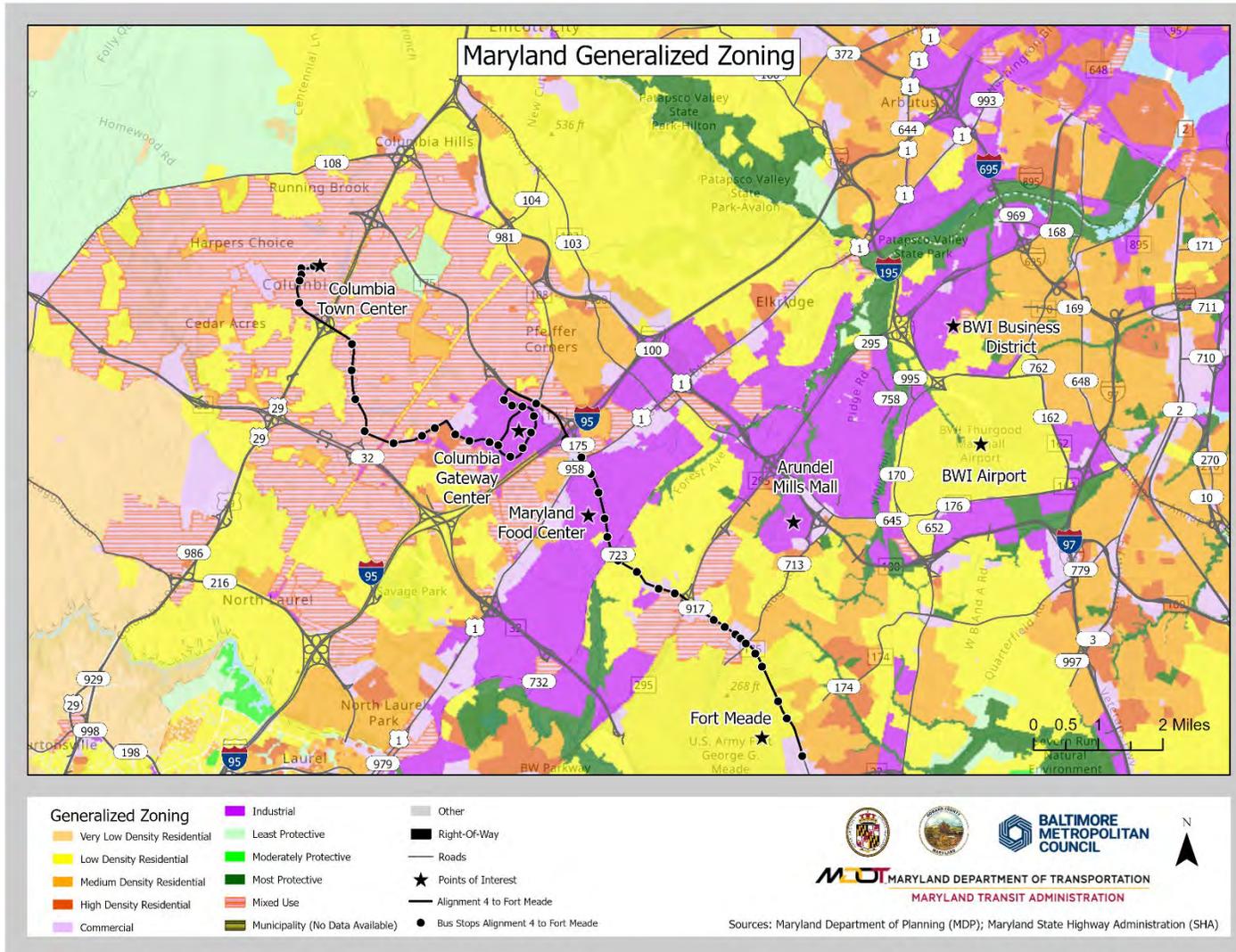
**Alignment Alternative/Routing Option #4 – Columbia Town Center to Fort Meade via Gateway/MD 175 - Population Density**



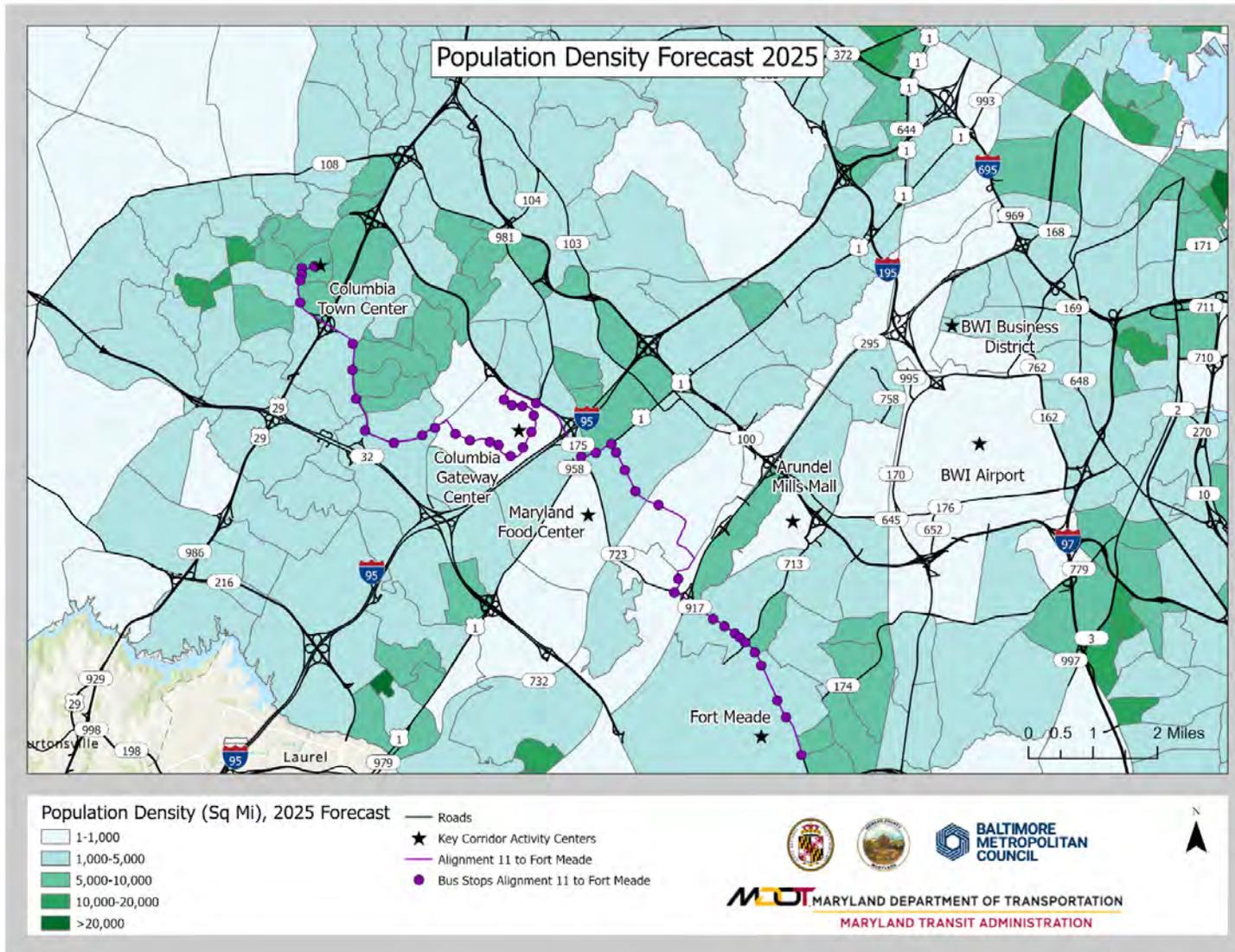
**Alignment Alternative/Routing Option #4 – Columbia Town Center to Fort Meade via Gateway/MD 175 – Employment Density**



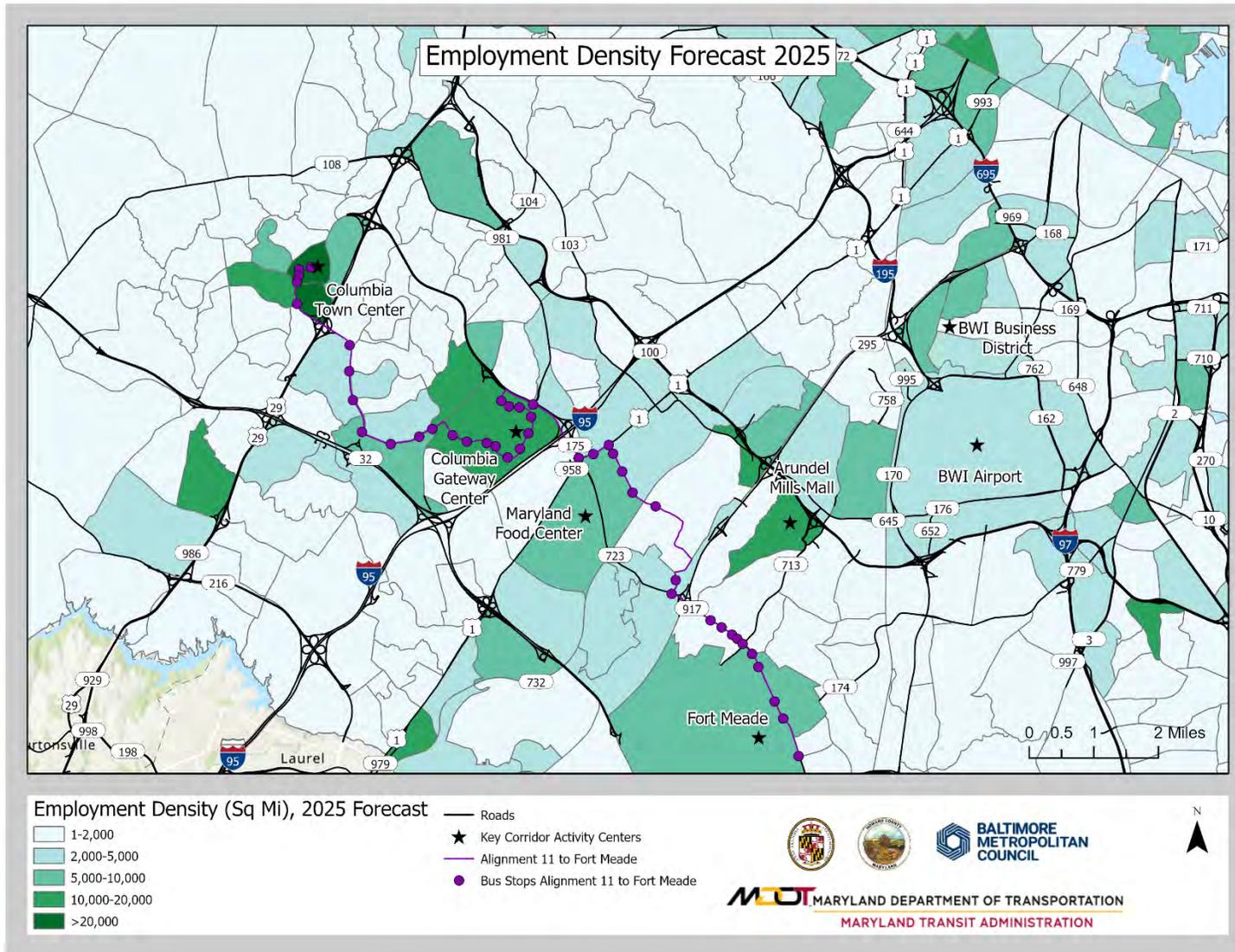
**Alignment Alternative/Routing Option #4 – Columbia Town Center to Fort Meade via Gateway/MD 175 – Zoning**



Alignment Alternative/Routing Option #11 – Columbia Town Center to Fort Meade via Gateway/Montevideo - Population Density



**Alignment Alternative/Routing Option #11 – Columbia Town Center to Fort Meade via Gateway/Montevideo - Employment Density**



**Alignment Alternative/Routing Option #11 – Columbia Town Center to Fort Meade via Gateway/Montevideo – Zoning**

