

TECHNICAL MEMORANDUM #6 (DRAFT)

DATE: July 12, 2024

TO: Virginia Elandt | ODOT

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SUBJECT: OR 42-US 101 Passing Lanes Study
Future Year Traffic Operations

DKS P#22129-004

INTRODUCTION

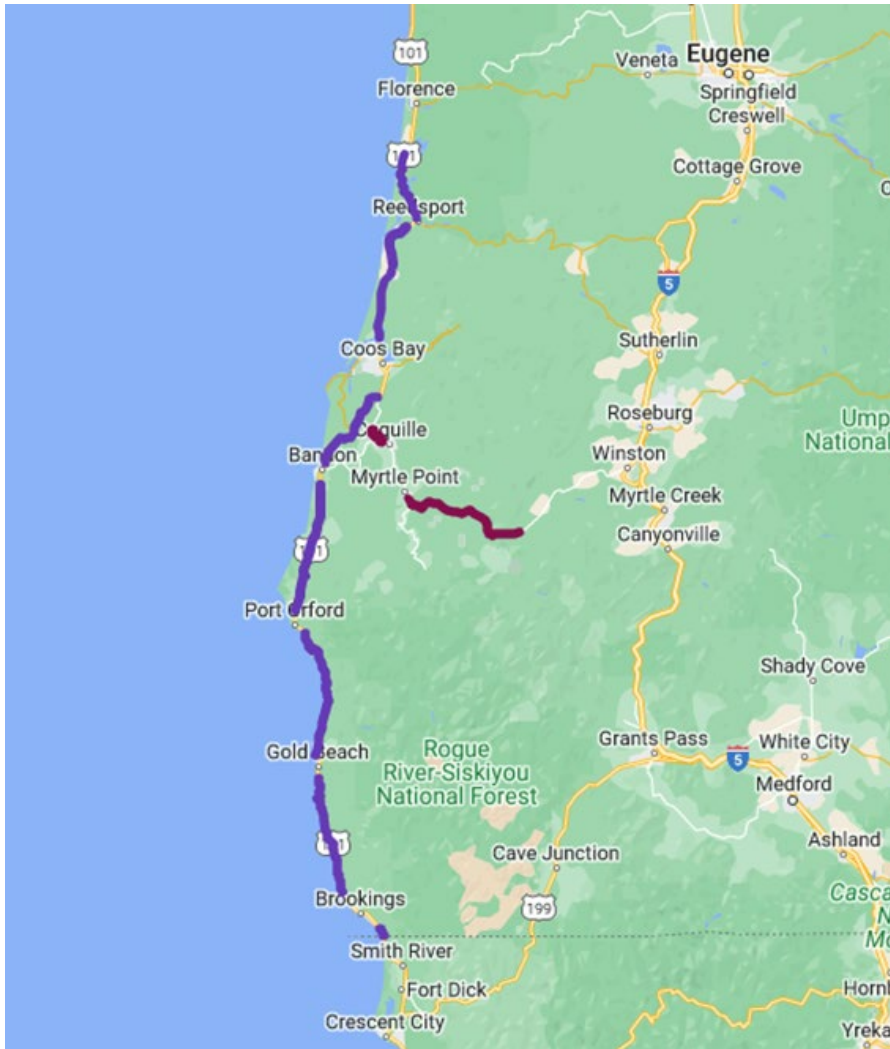
US 101 (Oregon Coast Highway; ODOT Highway #009) and OR 42 (Coos Bay-Roseburg Highway; ODOT Highway #035) are two highways in southwestern Oregon. US 101 travels north-south along the Oregon Coast, spanning the length of the state and traversing seven counties. It is an important corridor for tourism and inter-state traffic flows. OR 42 generally travels east-west and traverses the Coast Range mountains. It is a designated freight route per the Oregon Highway Plan. US 101 is only designated as such from Florence in Lane County to south of Coos Bay in Coos County. Both US 101 and OR 42 are largely two-lane highways, and predominantly in a rural context.

Portions of US 101 and OR 42, identified in **Figure 1**, were identified for a passing lane study. Segments in red are along OR 42, and segments in purple are along US 101. Results from this study will inform discussions around proposed sites for passing lanes along US 101 and OR 42 within the study area. This memorandum presents the results of the future conditions operational analysis element of that study.

Technical Memorandum #5 (TM#5) addressed existing conditions. This memorandum documents the same analysis but uses expected future year 2042 volumes that were derived from ODOT-forecasted growth rates¹.

¹ Coordinated statewide population and growth projections consistent with Portland State University's Population Research Center based on U.S. Census data

FIGURE 1: OR 42 AND US 101 STUDY CORRIDOR SEGMENTS



FUTURE TRAFFIC VOLUMES

As documented in TM#5, existing traffic volumes were collected from ODOT's Oregon Traffic Monitoring System (OTMS) traffic recorders and automatic traffic recorder (ATR) stations. Volumes were represented by 30th-Design Hour Volumes (DHV-30). To calculate future projected traffic volumes, Statewide Integrated Model (SWIM) future ADT volumes were provided by the Traffic Planning Analysis Unit (TPAU) at ODOT. Individual volumes were provided for each traffic counter, enabling the calculation of individual growth rates for each counter. Where model data was not available, growth rates from the ODOT Future Volume Tables were used directly. These growth rates were then applied to the DHV-30 of each counter to arrive at a projected future year 2042 DHV-30. These values were used in the future conditions HCS analysis.

SEGMENTATION

No changes were made to the facilities, segments, or sub-segments used in the existing conditions analysis in TM#5. This assumes that no changes to roadway geometry, passing context (striping), or posted speed will be made by 2042. The facilities studied are shown in **Table 1**.

TABLE 1. DEFINED FACILITIES FOR OR 42 AND US 101

HIGHWAY	BEGINNING MILE POINT	ENDING MILE POINT	DESCRIPTION	ANALYSIS NAME
OR 42	7.10	9.38	Lampa Ln to Coquille west UGB	Facility 42-A (Eastbound and Westbound)
	22.09	23.44	Myrtle Point east UGB to OR 542 junction	Facility 42-B (Eastbound and Westbound)
	23.72	47.75	OR 542 junction to OR 42 couplet	Facility 42-C (Eastbound and Westbound)
US 101	198.59	211.07	Douglas County north county line to Reedsport north UGB	Facility 101-A (Northbound and Southbound)
	213.45	221.35	Reedsport south UGB to Lakeside north UGB	Facility 101-B (Northbound and Southbound)
	222.10	233.93	Lakeside south UGB to North Bend north UGB	Facility 101-C (Northbound and Southbound)
	245.00	260.63	US 101/OR 42 junction to Bandon north UGB	Facility 101-D (Northbound and Southbound)
	276.71	298.32	Bandon south UGB to Port Orford north UGB	Facility 101-E (Northbound and Southbound)
	303.30	326.21	Port Orford south UGB to Gold Beach north UGB	Facility 101-F (Northbound and Southbound)
	331.29	352.20	Gold Beach south UGB to Brookings north UGB	Facility 101-G (Northbound and Southbound)
	361.52	363.11	Brookings south UGB to California border	Facility 101-H (Northbound and Southbound)

ANALYSIS INPUTS AND RESULTS

The future conditions operational analysis was performed using HCS7 software, which implements methodologies described in the *HCM 6th Edition*. This was selected because, in addition to volume-to-capacity (V/C) ratios, Level-of-Service (LOS) results are provided, which more appropriately depict driver experience than V/C ratios. As summarized in the Passing Lanes Study Methodology and Assumptions Memorandum (DKS and KAI, February 2024), the applicable mobility targets for the analysis corridors are a V/C ratio of 0.70 for segments designated as part of an *Oregon Highway Plan* Freight Route and a V/C ratio of 0.75 for those segments not part of a Freight Route.

The inputs required for the HCS evaluation and their respective sources used for this analysis are listed in **Table 2**.

TABLE 2. HCS7 INPUTS AND DATA SOURCES

VARIABLE	INPUT	DATA SOURCE
SEGMENT-LEVEL		
TYPE	Passing Context	Review of aerial photography; ODOT lane striping GIS shapefile
SPEED LIMIT, MI/H	Speed Limit	ODOT TransGIS
FUTURE DIRECTIONAL VOLUME, VEH/H	DHV-30	ODOT OTMS; SWIM; FVT
FUTURE OPPOSING VOLUME, VEH/H	DHV-30	ODOT OTMS; SWIM; FVT
PEAK HOUR FACTOR	Peak Hour Factor	ODOT ATR
HEAVY VEHICLE PERCENTAGE	Heavy Vehicle Percentage	ODOT ATR
LANE WIDTH, FT	12 ft	[Default value]
SHOULDER WIDTH (PAVED), FT	6 ft	[Default value]
GRADE, %	Representative Grade	ODOT Vertical Curve Reports
ACCESS POINT DENSITY, POINTS/MI	Access Points per Mile	ODOT Lane Reports
SUBSEGMENT-LEVEL		
TYPE	Tangent/Curve	ODOT Horizontal Curve Reports

VARIABLE	INPUT	DATA SOURCE
LENGTH, FT	Length, ft	ODOT Horizontal Curve Reports
RADIUS, FT	Radius, ft	ODOT Horizontal Curve Reports ¹
SUPERELEVATION, %	Superelevation, %	ODOT Horizontal Curve Reports ²

Notes:

¹ Calculated using curve length and central angle

² Assumed 2% where not provided

Table 3 provides the HCS7 results of the future conditions analysis at the facility level. In addition, **Table 3** summarizes how many segments within each facility are projected to meet the applicable V/C ratio mobility targets in 2042. The same segments that were identified in TM#5 as exceeding mobility targets were identified in the future conditions analysis; no additional segments were identified. Detailed results at the segment level for each facility are provided in **Appendix A**.

TABLE 3. FACILITY PERFORMANCE – FUTURE CONDITIONS

HIGHWAY	FACILITY	DIRECTION	LOS	FOLLOWER DENSITY ¹	SEGMENTS NOT MEETING TARGET
OR 42	Lampa Ln to Coquille west UGB (42-A)	EB	C	7.9	0/1
		WB	D	10.5	0/1
	Myrtle Point east UGB to OR 542 junction (42-B)	EB	B	3.7	0/2
		WB	C	4.9	0/2
	OR 542 junction to OR 42 couplet (42-C)	EB	A	1.5	0/31
		WB	B	3.0	0/24
US 101	Douglas County north county line to Reedsport north UGB (101-A)	NB	C	4.7	0/18
		SB	C	5.6	0/18
	Reedsport south UGB to Lakeside north UGB (101-B)	NB	D	9.2	0/12
		SB	D	9.3	0/7
	Lakeside south UGB to North Bend north UGB (101-C)	NB	D	10.4	3/18
		SB	D	11.8	3/18
		NB	D	8.1	0/20

HIGHWAY	FACILITY	DIRECTION	LOS	FOLLOWER DENSITY ¹	SEGMENTS NOT MEETING TARGET
	US 101/OR 42 junction to Bandon north UGB (101-D)	SB	C	7.3	0/22
	Bandon south UGB to Port Orford north UGB (101-E)	NB	C	4.2	0/26
		SB	C	4.0	0/26
	Port Orford south UGB to Gold Beach north UGB (101-F)	NB	B	2.5	0/30
		SB	B	2.6	0/30
	Gold Beach south UGB to Brookings north UGB (101-G)	NB	B	2.9	0/24
		SB	B	3.9	0/22
	Brookings south UGB to California border (101-H)	NB	E	12.2	0/3
		SB	E	13.3	0/3

Notes:

¹ Followers/mile/lane

As shown, only two facilities are shown to operate at worse than LOS D under 30th highest hour design-hour volumes: US 101 from Brookings' south UGB to the California border in both the northbound and southbound direction. This is a change of one identified facility from the existing conditions analysis; the southbound direction was previously identified. Only six segments were still found to not meet their respective mobility targets. All six segments were previously identified in the existing conditions analysis, and all are on Facility 101-C between Lakeside's south UGB boundary and North Bend's north UGB boundary. These segments and their mile points are provided in **Table 4**; all are near the unincorporated communities of Shorewood and Glasgow.

TABLE 4. US 101 SEGMENTS PROJECTED TO EXCEED MOBILITY TARGETS

DIRECTION	ENDING MILE POINT	BEGINNING MILE POINT	PASSING CONTEXT	DEMAND/CAPACITY
NB	233.93	233.54	Passing Constrained	0.89
	233.54	233.17	Passing Constrained	0.89
	233.17	232.66	Passing Constrained	0.89
SB	230.48	231.15	Passing Lane	0.80
	232.81	233.27	Passing Lane	0.74
	233.27	233.93	Passing Constrained	0.74

SAFETY ANALYSIS

The project team conducted a comprehensive analysis of the existing safety performance of the Passing Lanes Study facilities. The safety performance focused on crash rate, which accounts for both the number of crashes and the traffic volumes on the facilities. The future traffic volumes would have limited growth and the future year roadway characteristics are otherwise anticipated to remain the same. Therefore, the future year crash rates are not anticipated to change from the existing results that were previously reported.

BICYCLE CONDITIONS

The project team analyzed the existing bicycle level of traffic stress (BLTS) for the study segments on US 101 in TM#5. Projected BLTS scores under future conditions were analyzed for these same segments. Because no roadway changes were assumed in the future conditions, the only independent variable that is assumed to change is the future volumes.

Exhibit 14-16 of the ODOT *Analysis Procedures Manual (APM)*, shown in **Exhibit 1**, contains BLTS scores for rural segments with posted speeds of 45mph or greater. The table provides four ranges of daily (bi-directional) volumes. The study traffic volumes were analyzed to determine where the projected future traffic volumes landed in a different tier from the existing volumes. This was found to occur with only one traffic count location: Counter #1245, located at Mile Post 252.85, on Facility 101-D (US 101/OR 42 junction to Bandon north UGB)

EXHIBIT 1. BLTS RURAL SEGMENT CRITERIA (ODOT APM)

Exhibit 14-16 BLTS Rural Segment Criteria with posted speeds 45 mph or greater^{1,2,3}

Daily Volume (vpd)	Paved Shoulder Width		
	0 – <4 ft	4 - <6 ft	>6 ft
<400	BLTS R2	BLTS R2	BLTS R2
400 - 1500	BLTS R3	BLTS R2	BLTS R2
1500 - 7000 ⁴	BLTS R4	BLTS R3	BLTS R2
> 7000	BLTS R4	BLTS R4	BLTS R3

¹ Based on p1-3 & Table 1-2 from the [Oregon Bicycle and Pedestrian Design Guide](#), 2011.

² Adequate stopping sight distances on curves and grades assumed. A high frequency of sharper curves and short vertical transitions can increase the stress level especially on roadways with less than 6' shoulders. Engineering judgment may be needed to determine what impact this will have on the BLTS level on a particular segment.

³ Segments with flashing warning beacons announcing presence of bicyclists (typically done on narrower long bridges or tunnels) may, depending on judgment, reduce the BLTS by one, minimum BLTS R2.

⁴ Over 1500 AADT, the Oregon Bicycle and Pedestrian Design Guide indicates the need for shoulders.

There are 12 southbound segments and nine northbound segments that are covered by this traffic count. All of these segments have an existing BLTS of either 2 or 3. Therefore, per Exhibit 14-16 and assuming all else equal, the BLTS score of each should increase by one level. These segments and their BLTS scores are shown in **Table 5**. The BLTS scores for the remainder of the study segments remain unchanged from those reported in TM#5.

TABLE 5. SEGMENTS WITH PROJECTED BLTS CHANGES

DIRECTION	ENDING MILE POINT	BEGINNING MILE POINT	EXISTING MAX BLTS	PROJECTED FUTURE MAX BLTS
NB	251.02	252.52	3	4
	252.52	253.89	3	4
	253.89	254.57	2	3
	254.57	255.35	2	3
	255.35	256.27	2	3
	256.27	256.90	2	3
	256.90	257.28	2	3
	257.28	257.75	2	3
	257.75	258.46	2	3

DIRECTION	ENDING MILE POINT	BEGINNING MILE POINT	EXISTING MAX BLTS	PROJECTED FUTURE MAX BLTS
SB	258.27	257.59	2	3
	257.59	257.08	2	3
	257.08	256.72	2	3
	256.72	256.06	2	3
	256.06	255.67	2	3
	255.67	254.57	2	3
	254.57	253.93	2	3
	253.93	252.28	3	4
	252.28	251.30	3	4
	251.30	251.10	3	4
	251.10	250.58	2	3
	250.58	250.39	2	3

APPENDIX

CONTENTS

APPENDIX A: HIGHWAY OPERATIONS REPORTS



APPENDIX A: HIGHWAY OPERATIONS REPORTS

HCS7 RESULTS



HCS7 Two-Lane Highway Report

Project Information

Analyst	RXO	Date	3/6/2024
Agency		Analysis Year	2024
Jurisdiction		Time Analyzed	
Project Description	OR 42 - Lampa Ln to Coquille west UGB (EB)	Units	U.S. Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	12040
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.8

Demand and Capacity

Directional Demand Flow Rate, veh/h	698	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	14.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.41

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.96134	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.30162	PF Power Coefficient	0.72605
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	7.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1426	-	-	58.6
2	Horizontal Curve	898	573	2	46.0
3	Tangent	845	-	-	58.6
4	Horizontal Curve	1426	1432	2	58.5
5	Tangent	53	-	-	58.6
6	Horizontal Curve	792	955	2	52.5
7	Tangent	158	-	-	58.6
8	Horizontal Curve	475	1146	2	52.5
9	Tangent	53	-	-	58.6
10	Horizontal Curve	422	955	2	52.5
11	Tangent	2112	-	-	58.6
12	Horizontal Curve	1320	955	2	52.5
13	Tangent	53	-	-	58.6
14	Horizontal Curve	845	1910	2	58.5
15	Tangent	1162	-	-	58.6

Vehicle Results

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, % 63.3

Segment Travel Time, minutes	2.44	Follower Density, followers/mi/ln	7.9
Vehicle LOS	C		
Facility Results			
T	Follower Density, followers/mi/ln	LOS	
1	7.9	C	

HCS7 Two-Lane Highway Report

Project Information

Analyst		Date	3/7/2024
Agency		Analysis Year	2024
Jurisdiction		Time Analyzed	
Project Description	OR 42 - Coquille west UGB to Lampa Ln (WB)	Units	U.S. Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	12040
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.8

Demand and Capacity

Directional Demand Flow Rate, veh/h	852	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	14.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.50

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.96134	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.30162	PF Power Coefficient	0.72605
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	10.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1162	-	-	58.3
2	Horizontal Curve	845	1910	2	58.3
3	Tangent	53	-	-	58.3
4	Horizontal Curve	1320	955	2	52.4
5	Tangent	2112	-	-	58.3
6	Horizontal Curve	422	955	2	52.4
7	Tangent	53	-	-	58.3
8	Horizontal Curve	475	1146	2	52.4
9	Tangent	158	-	-	58.3
10	Horizontal Curve	792	955	2	52.4
11	Tangent	53	-	-	58.3
12	Horizontal Curve	1426	1432	2	58.3
13	Tangent	845	-	-	58.3
14	Horizontal Curve	898	573	2	45.9
15	Tangent	1426	-	-	58.3

Vehicle Results

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, % 68.6

Segment Travel Time, minutes	2.45	Follower Density, followers/mi/ln	10.5
Vehicle LOS	D		
Facility Results			
T	Follower Density, followers/mi/ln		LOS
1	10.5		D

HCS7 Two-Lane Highway Report					
Project Information					
Analyst		RXO		Date	
Agency				Analysis Year	
Jurisdiction				Time Analyzed	
Project Description		OR 42 - Myrtle Point east UGB to OR 542 (EB)		Units	
				U.S. Customary	
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
				0.0	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		393		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.94		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
				0.23	
Intermediate Results					
Segment Vertical Class		2		Free-Flow Speed, mi/h	
Speed Slope Coefficient		5.31035		Speed Power Coefficient	
PF Slope Coefficient		-1.41505		PF Power Coefficient	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	
%Improved % Followers		0.0		% Improved Avg Speed	
				0.0	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	898	-	-	57.7
2	Horizontal Curve	1162	955	2	52.6
Vehicle Results					
Average Speed, mi/h		54.8		Percent Followers, %	
Segment Travel Time, minutes		0.43		Follower Density, followers/mi/ln	
Vehicle LOS		B			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
				1.0	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		410		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.84		Total Trucks, %	
				24.00	
				(D/C)	
				0.24	

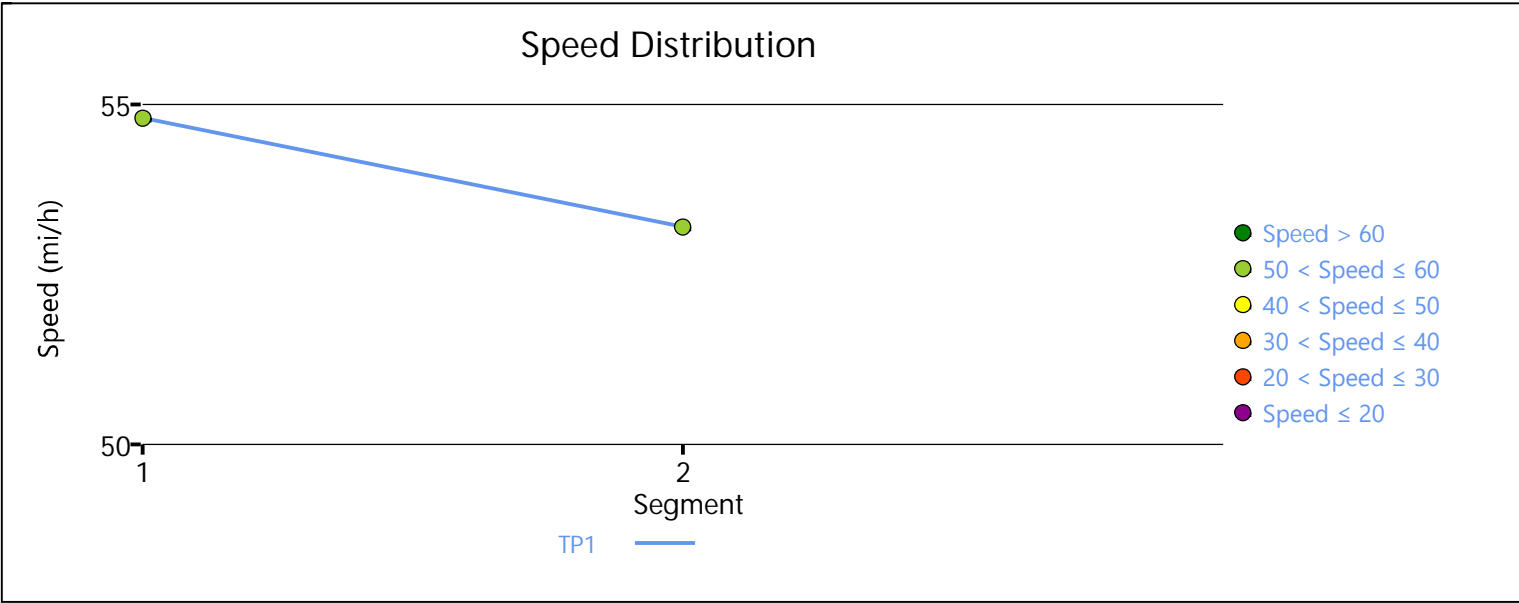
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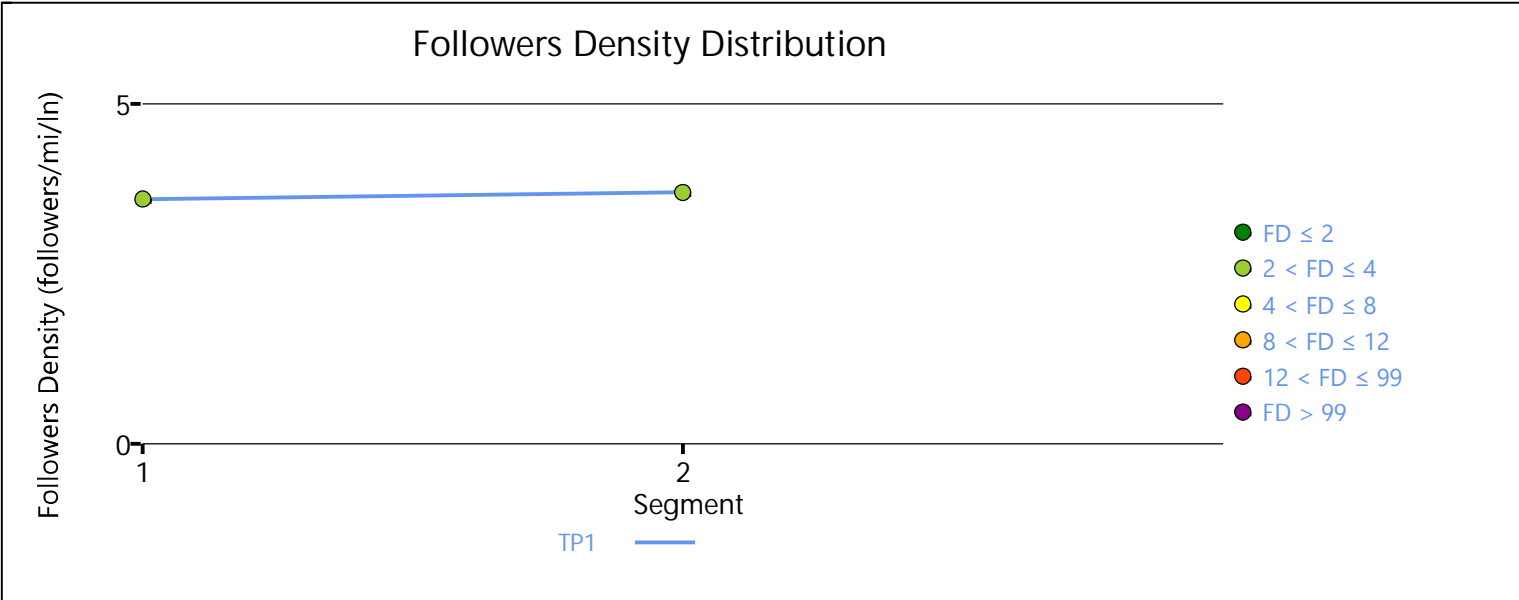
Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	3.89958	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28215	PF Power Coefficient	0.76844
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	264	-	-	59.3
2	Horizontal Curve	845	955	2	52.6
3	Horizontal Curve	1056	716	2	46.0
4	Tangent	211	-	-	59.3
5	Horizontal Curve	739	1433	2	58.8
6	Tangent	264	-	-	59.3
7	Horizontal Curve	53	1433	2	58.8
8	Tangent	53	-	-	59.3
9	Horizontal Curve	845	1146	2	52.6
10	Tangent	370	-	-	59.3
11	Horizontal Curve	370	477	2	46.0

Vehicle Results			
Average Speed, mi/h	53.2	Percent Followers, %	47.6
Segment Travel Time, minutes	1.08	Follower Density, followers/mi/ln	3.7
Vehicle LOS	B		

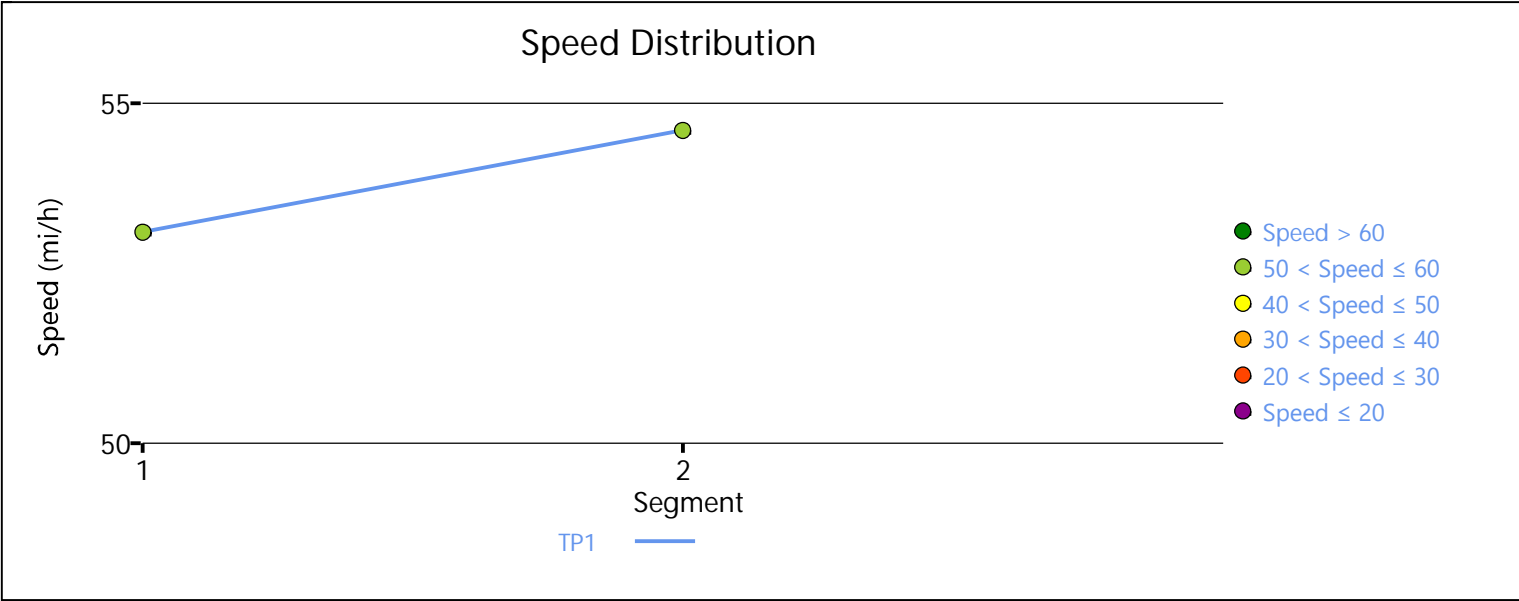
Facility Results		
T	Follower Density, followers/mi/ln	LOS
1	3.7	B

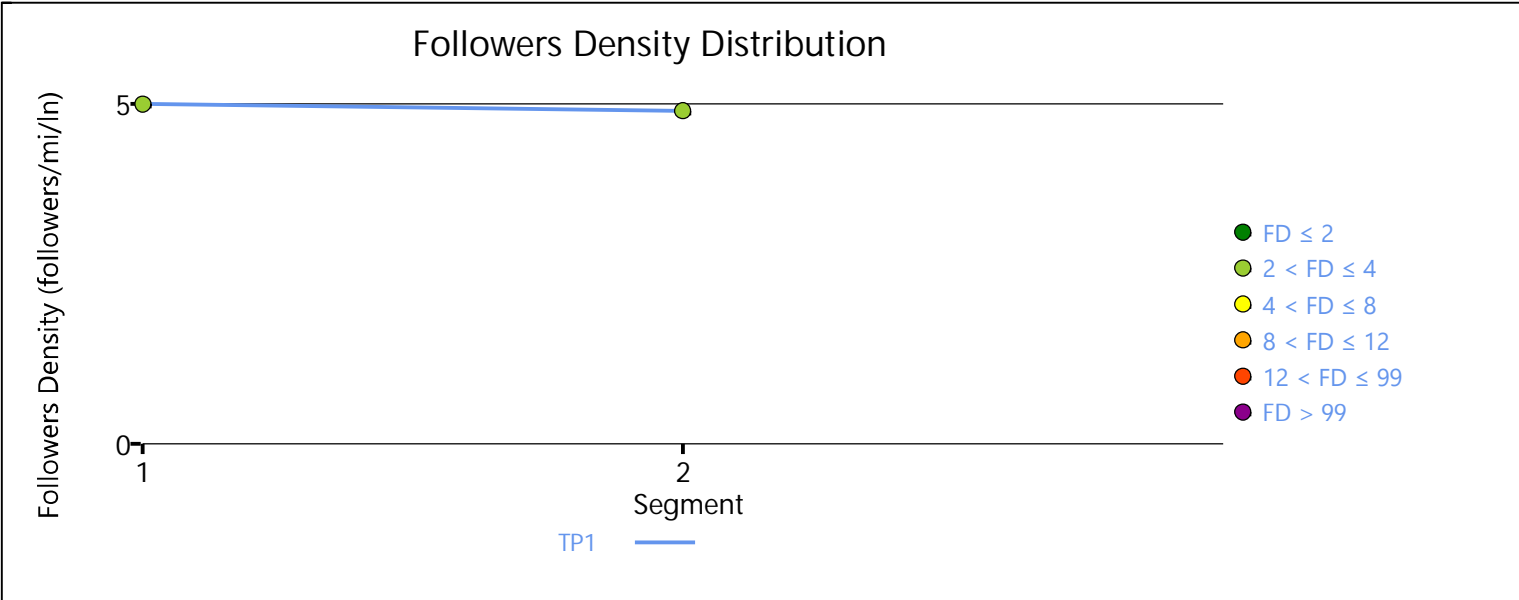




HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		3/7/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		OR 42 - OR 542 to Coquille east UGB (WB)		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	5070
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	1.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		499		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.84		Total Trucks, %	24.00
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.29
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient		3.89958		Speed Power Coefficient	0.41674
PF Slope Coefficient		-1.28215		PF Power Coefficient	0.76844
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	5.0
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	477	2	45.9
2	Tangent	370	-	-	59.0
3	Horizontal Curve	845	1146	2	52.4
4	Tangent	53	-	-	59.0
5	Horizontal Curve	106	1433	2	58.6
6	Tangent	211	-	-	59.0
7	Horizontal Curve	739	1433	2	58.6
8	Tangent	211	-	-	59.0
9	Horizontal Curve	1056	716	2	45.9
10	Horizontal Curve	845	955	2	52.4
11	Tangent	264	-	-	59.0
Vehicle Results					
Average Speed, mi/h		53.1		Percent Followers, %	52.8
Segment Travel Time, minutes		1.09		Follower Density, followers/mi/ln	5.0
Vehicle LOS		C			

Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2060
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		478	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		24.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		60.6
Speed Slope Coefficient		5.31035	Speed Power Coefficient		0.47266
PF Slope Coefficient		-1.41505	PF Power Coefficient		0.74528
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		4.9
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1162	955	2	52.5
2	Tangent	898	-	-	57.3
Vehicle Results					
Average Speed, mi/h		54.6	Percent Followers, %		55.8
Segment Travel Time, minutes		0.43	Follower Density, followers/mi/ln		4.9
Vehicle LOS		C			
Facility Results					
T	Follower Density, followers/mi/ln			LOS	
1	4.9			C	





HCS7 Two-Lane Highway Report					
Project Information					
Analyst		RXO		Date	
Agency				Analysis Year	
Jurisdiction				Time Analyzed	
Project Description		OR 42 - OR 542 to OR 42 couplet (EB)		Units	
				U.S. Customary	
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
				9.6	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		305		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.75		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
				0.18	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.75099		Speed Power Coefficient	
PF Slope Coefficient		-1.33918		PF Power Coefficient	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	
%Improved % Followers		0.0		% Improved Avg Speed	
				0.0	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	950	955	2	52.6
2	Tangent	264	-	-	57.5
3	Horizontal Curve	1056	573	2	46.0
4	Tangent	475	-	-	57.5
Vehicle Results					
Average Speed, mi/h		51.4		Percent Followers, %	
Segment Travel Time, minutes		0.61		Follower Density, followers/mi/ln	
Vehicle LOS		B			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
				4.2	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		305		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.75		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
				0.18	

Peak Hour Factor		0.75	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		59.2
Speed Slope Coefficient		5.24044	Speed Power Coefficient		0.47072
PF Slope Coefficient		-1.35509	PF Power Coefficient		0.75482
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	898	637	2	46.0
2	Tangent	317	-	-	56.7
3	Horizontal Curve	634	573	2	46.0
4	Tangent	264	-	-	56.7
5	Horizontal Curve	1003	573	2	46.0
6	Tangent	211	-	-	56.7
7	Horizontal Curve	475	573	2	46.0
Vehicle Results					
Average Speed, mi/h		48.2	Percent Followers, %		42.5
Segment Travel Time, minutes		0.90	Follower Density, followers/mi/ln		2.7
Vehicle LOS		B			
Segment 3					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1109
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		305	Opposing Demand Flow Rate, veh/h		473
Peak Hour Factor		0.75	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.68238	Speed Power Coefficient		0.48572
PF Slope Coefficient		-1.33738	PF Power Coefficient		0.77598
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.1
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1109	-	-	60.1

Average Speed, mi/h	60.1	Percent Followers, %	41.3
Segment Travel Time, minutes	0.21	Follower Density, followers/mi/ln	2.1
Vehicle LOS	B		

Segment 4

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6546
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	305	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.75	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.4
Speed Slope Coefficient	3.89977	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27689	PF Power Coefficient	0.76490
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-	-	59.4
2	Horizontal Curve	1742	573	2	46.0
3	Tangent	422	-	-	59.4
4	Horizontal Curve	634	536	2	46.0
5	Tangent	53	-	-	59.4
6	Horizontal Curve	845	477	2	46.0
7	Tangent	1214	-	-	59.4
8	Horizontal Curve	739	955	2	52.6
9	Tangent	53	-	-	59.4
10	Horizontal Curve	422	573	2	46.0

Vehicle Results

Average Speed, mi/h	51.2	Percent Followers, %	40.3
Segment Travel Time, minutes	1.45	Follower Density, followers/mi/ln	2.4
Vehicle LOS	B		

Segment 5

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1372
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.8

Directional Demand Flow Rate, veh/h		232	Opposing Demand Flow Rate, veh/h		359
Peak Hour Factor		0.91	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.14
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.9
Speed Slope Coefficient		3.60287	Speed Power Coefficient		0.50378
PF Slope Coefficient		-1.32472	PF Power Coefficient		0.77990
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.4
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	573	2	46.1
2	Tangent	950	-	-	59.6
Vehicle Results					
Average Speed, mi/h		55.4	Percent Followers, %		34.5
Segment Travel Time, minutes		0.28	Follower Density, followers/mi/ln		1.4
Vehicle LOS		A			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		14732
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		232	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.91	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.14
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.2
Speed Slope Coefficient		3.94489	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.33738	PF Power Coefficient		0.69962
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.6
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-	-	59.5
2	Horizontal Curve	1478	955	2	52.8
3	Tangent	53	-	-	59.5
4	Horizontal Curve	1742	637	2	46.1
5	Tangent	581	-	-	59.5
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7	Tangent	106	-	-	59.5
8	Horizontal Curve	1267	819	2	52.8
9	Tangent	106	-	-	59.5
10	Horizontal Curve	581	819	2	52.8
11	Tangent	581	-	-	59.5
12	Horizontal Curve	1478	1910	2	59.2
13	Horizontal Curve	845	477	2	46.1
14	Tangent	106	-	-	59.5
15	Horizontal Curve	1003	955	2	52.8
16	Tangent	1109	-	-	59.5
17	Horizontal Curve	1003	1432	2	59.2
18	Tangent	898	-	-	59.5

Vehicle Results

Average Speed, mi/h	54.5	Percent Followers, %	38.2
Segment Travel Time, minutes	3.07	Follower Density, followers/mi/ln	1.6
Vehicle LOS	A		

Segment 7

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4699
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	7.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	227	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.90	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.13

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	59.8
Speed Slope Coefficient	3.79691	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.30092	PF Power Coefficient	0.76424
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1162	1910	2	58.2
2	Tangent	686	-	-	58.2
3	Horizontal Curve	739	955	2	52.8
4	Tangent	2112	-	-	58.2

Vehicle Results

Average Speed, mi/h	57.4	Percent Followers, %	34.2
Segment Travel Time, minutes	0.93	Follower Density, followers/mi/ln	1.4

Segment 8					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft	2112	
Lane Width, ft		12	Shoulder Width, ft	6	
Speed Limit, mi/h		55	Access Point Density, pts/mi	7.5	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		263	Opposing Demand Flow Rate, veh/h	406	
Peak Hour Factor		0.83	Total Trucks, %	27.00	
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)	0.15	
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h	59.9	
Speed Slope Coefficient		3.57774	Speed Power Coefficient	0.49585	
PF Slope Coefficient		-1.30309	PF Power Coefficient	0.78734	
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln	1.6	
%Improved % Followers		0.0	% Improved Avg Speed	0.0	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-	-	58.5
Vehicle Results					
Average Speed, mi/h		58.5	Percent Followers, %	36.5	
Segment Travel Time, minutes		0.41	Follower Density, followers/mi/ln	1.6	
Vehicle LOS		A			
Segment 9					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft	2956	
Lane Width, ft		12	Shoulder Width, ft	6	
Speed Limit, mi/h		55	Access Point Density, pts/mi	5.4	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		263	Opposing Demand Flow Rate, veh/h	-	
Peak Hour Factor		0.83	Total Trucks, %	27.00	
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)	0.15	
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h	60.5	
Speed Slope Coefficient		3.81070	Speed Power Coefficient	0.41674	
PF Slope Coefficient		-1.32448	PF Power Coefficient	0.76063	
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln	1.8	
%Improved % Followers		0.0	% Improved Avg Speed	0.0	
Subsegment Data					
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1	Tangent	422	-	-	58.7
2	Horizontal Curve	1531	1146	2	52.7
3	Tangent	317	-	-	58.7
4	Horizontal Curve	686	1910	2	58.7

Vehicle Results

Average Speed, mi/h	55.6	Percent Followers, %	38.1
Segment Travel Time, minutes	0.60	Follower Density, followers/mi/ln	1.8
Vehicle LOS	A		

Segment 10

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2799
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	263	Opposing Demand Flow Rate, veh/h	406
Peak Hour Factor	0.83	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.3
Speed Slope Coefficient	3.66346	Speed Power Coefficient	0.49585
PF Slope Coefficient	-1.27383	PF Power Coefficient	0.79790
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	898	1910	2	59.1
2	Tangent	1901	-	-	59.8

Vehicle Results

Average Speed, mi/h	59.6	Percent Followers, %	35.5
Segment Travel Time, minutes	0.53	Follower Density, followers/mi/ln	1.6
Vehicle LOS	A		

Segment 11

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2481
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.1

Demand and Capacity

Directional Demand Flow Rate, veh/h	263	Opposing Demand Flow Rate, veh/h	-
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Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.15
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.3
Speed Slope Coefficient		3.84896	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.33032	PF Power Coefficient		0.75893
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-	-	59.5
2	Horizontal Curve	792	573	2	46.0
3	Tangent	158	-	-	59.5
4	Horizontal Curve	739	573	2	46.0
5	Tangent	211	-	-	59.5
Vehicle Results					
Average Speed, mi/h		51.2	Percent Followers, %		38.3
Segment Travel Time, minutes		0.55	Follower Density, followers/mi/ln		2.0
Vehicle LOS		A			
Segment 12					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1795
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.9
Demand and Capacity					
Directional Demand Flow Rate, veh/h		263	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.15
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		56.9
Speed Slope Coefficient		8.37955	Speed Power Coefficient		0.60122
PF Slope Coefficient		-1.39312	PF Power Coefficient		0.76418
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.9
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1795	-	-	54.1
Vehicle Results					
Average Speed, mi/h		54.1	Percent Followers, %		39.4
Segment Travel Time, minutes		0.38	Follower Density, followers/mi/ln		1.9

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Segment 13					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3960
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		263	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.15
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.89599	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.29297	PF Power Coefficient		0.76837
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1901	-	-	60.0
2	Horizontal Curve	898	1146	2	52.7
3	Tangent	158	-	-	60.0
4	Horizontal Curve	1003	1146	2	52.7
Vehicle Results					
Average Speed, mi/h		56.5	Percent Followers, %		37.1
Segment Travel Time, minutes		0.80	Follower Density, followers/mi/ln		1.7
Vehicle LOS		A			
Segment 14					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2059
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		263	Opposing Demand Flow Rate, veh/h		406
Peak Hour Factor		0.83	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.15
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.1
Speed Slope Coefficient		3.64060	Speed Power Coefficient		0.49585
PF Slope Coefficient		-1.29820	PF Power Coefficient		0.78969
			Density, veh/mi/ln		1.6

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%Improved % Followers		0.0		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Horizontal Curve	264	1146	2	52.7		
2	Tangent	1795	-	-	59.6		
Vehicle Results							
Average Speed, mi/h		58.7		Percent Followers, %		36.3	
Segment Travel Time, minutes		0.40		Follower Density, followers/mi/ln		1.6	
Vehicle LOS		A					
Segment 15							
Vehicle Inputs							
Segment Type		Passing Constrained		Length, ft		9451	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		2.8	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		263		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.83		Total Trucks, %		27.00	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.15	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		61.1	
Speed Slope Coefficient		3.90661		Speed Power Coefficient		0.41674	
PF Slope Coefficient		-1.28569		PF Power Coefficient		0.74775	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln		1.7	
%Improved % Followers		0.0		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	370	-	-	59.3		
2	Horizontal Curve	792	1910	2	59.1		
3	Tangent	211	-	-	59.3		
4	Horizontal Curve	1373	1146	2	52.7		
5	Tangent	211	-	-	59.3		
6	Horizontal Curve	1848	1910	2	59.1		
7	Tangent	2006	-	-	59.3		
8	Horizontal Curve	1848	1273	2	59.1		
9	Tangent	792	-	-	59.3		
Vehicle Results							
Average Speed, mi/h		58.2		Percent Followers, %		37.7	
Segment Travel Time, minutes		1.84		Follower Density, followers/mi/ln		1.7	
Vehicle LOS		A					

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1531
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	205	Opposing Demand Flow Rate, veh/h	316
Peak Hour Factor	0.87	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.64511	Speed Power Coefficient	0.51194
PF Slope Coefficient	-1.30323	PF Power Coefficient	0.78765
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1531	-	-	60.7

Vehicle Results			
Average Speed, mi/h	60.7	Percent Followers, %	31.2
Segment Travel Time, minutes	0.29	Follower Density, followers/mi/ln	1.1
Vehicle LOS	A		

Segment 17

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3590
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	205	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.89173	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.29902	PF Power Coefficient	0.76721
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
				-	60.3

2	Horizontal Curve	1162	1146	2	52.8
3	Tangent	53	-	-	60.3
4	Horizontal Curve	1214	1910	2	59.3
5	Tangent	739	-	-	60.3

Vehicle Results

Average Speed, mi/h	57.5	Percent Followers, %	31.9
Segment Travel Time, minutes	0.71	Follower Density, followers/mi/ln	1.1
Vehicle LOS	A		

Segment 18

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1373
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	205	Opposing Demand Flow Rate, veh/h	316
Peak Hour Factor	0.87	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.64218	Speed Power Coefficient	0.51194
PF Slope Coefficient	-1.31171	PF Power Coefficient	0.78447
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	581	1910	2	59.3
2	Horizontal Curve	528	1910	2	59.3
3	Tangent	264	-	-	60.7

Vehicle Results

Average Speed, mi/h	59.6	Percent Followers, %	31.5
Segment Travel Time, minutes	0.26	Follower Density, followers/mi/ln	1.1
Vehicle LOS	A		

Segment 19

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	897
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Peak Hour Factor		0.87	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.12
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.85833	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.37656	PF Power Coefficient		0.74381
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.3
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-	-	60.3
2	Horizontal Curve	422	716	2	46.1
Vehicle Results					
Average Speed, mi/h		53.6	Percent Followers, %		34.5
Segment Travel Time, minutes		0.19	Follower Density, followers/mi/ln		1.3
Vehicle LOS		A			
Segment 20					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1532
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		6.9
Demand and Capacity					
Directional Demand Flow Rate, veh/h		205	Opposing Demand Flow Rate, veh/h		316
Peak Hour Factor		0.87	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.12
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.1
Speed Slope Coefficient		3.55164	Speed Power Coefficient		0.51194
PF Slope Coefficient		-1.31316	PF Power Coefficient		0.78329
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.2
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	716	2	46.1
2	Horizontal Curve	581	1910	2	59.0
3	Tangent	581	-	-	59.0
Vehicle Results					
Average Speed, mi/h		55.9	Percent Followers, %		31.5
Segment Travel Time, minutes		0.31	Follower Density, followers/mi/ln		1.2

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Segment 21					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1583
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		6.7
Demand and Capacity					
Directional Demand Flow Rate, veh/h		205	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.12
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.1
Speed Slope Coefficient		3.77244	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.37736	PF Power Coefficient		0.74496
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.2
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	158	-	-	58.7
2	Horizontal Curve	1214	1910	2	58.7
3	Tangent	211	-	-	58.7
Vehicle Results					
Average Speed, mi/h		58.7	Percent Followers, %		34.5
Segment Travel Time, minutes		0.31	Follower Density, followers/mi/ln		1.2
Vehicle LOS		A			
Segment 22					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		2640
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		205	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		27.00
Segment Capacity, veh/h		1100	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.8
Speed Slope Coefficient		8.09721	Speed Power Coefficient		0.87198
PF Slope Coefficient		-1.30268	PF Power Coefficient		0.75280
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.1
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Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2640	-	-	59.7
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		131		74	
Percentage of Heavy Vehicles (HV%), %		10.80		55.56	
Initial Average Speed (Sint), mi/h		61.0		59.8	
Average Speed at Midpoint (SPLmid), mi/h		62.9		57.9	
Percent Followers at Midpoint (PFPLmid), %		24.0		14.4	
Vehicle Results					
Average Speed, mi/h		59.7		Percent Followers, %	
Segment Travel Time, minutes		0.50		Follower Density, followers/mi/ln	
Vehicle LOS		A			
Segment 23					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		205		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.87		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.96088		Speed Power Coefficient	
PF Slope Coefficient		-1.34824		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
%Improved % Followers		12.1		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	370	-	-	59.8
2	Horizontal Curve	1003	1273	2	59.3
3	Tangent	53	-	-	59.8
4	Horizontal Curve	1003	1273	2	59.3
5	Tangent	53	-	-	59.8
6	Horizontal Curve	686	955	2	52.8
7	Horizontal Curve	1162	716	2	46.1
8	Tangent	158	-	-	59.8
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10	Tangent	7867	-	-	59.8
11	Horizontal Curve	317	1910	2	59.3
12	Tangent	53	-	-	59.8
13	Horizontal Curve	2270	1146	2	52.8

Vehicle Results

Average Speed, mi/h	57.4	Percent Followers, %	36.3
Segment Travel Time, minutes	3.09	Follower Density, followers/mi/ln	1.1
Vehicle LOS	A		

Segment 24

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	10347
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	205	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.2
Speed Slope Coefficient	3.91570	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.29101	PF Power Coefficient	0.74101
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	1.3
%Improved % Followers	8.2	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	264	1146	2	52.8
2	Tangent	53	-	-	59.6
3	Horizontal Curve	422	881	2	52.8
4	Tangent	317	-	-	59.6
5	Horizontal Curve	264	409	2	39.4
6	Tangent	106	-	-	59.6
7	Horizontal Curve	317	955	2	52.8
8	Tangent	317	-	-	59.6
9	Horizontal Curve	317	573	2	46.1
10	Horizontal Curve	264	409	2	39.4
11	Tangent	792	-	-	59.6
12	Horizontal Curve	422	955	2	52.8
13	Tangent	211	-	-	59.6
14	Horizontal Curve	475	477	2	46.1
15	Tangent	264	-	-	59.6

17	Tangent	211	-	-	59.6
18	Horizontal Curve	264	573	2	46.1
19	Tangent	422	-	-	59.6
20	Horizontal Curve	950	637	2	46.1
21	Tangent	475	-	-	59.6
22	Horizontal Curve	211	1910	2	59.3
23	Tangent	1531	-	-	59.6
24	Horizontal Curve	581	395	2	39.4
25	Tangent	422	-	-	59.6

Vehicle Results

Average Speed, mi/h	53.0	Percent Followers, %	32.9
Segment Travel Time, minutes	2.22	Follower Density, followers/mi/ln	1.2
Vehicle LOS	A		

Segment 25

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2112
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	5.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	208	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.77	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	56.4
Speed Slope Coefficient	8.28232	Speed Power Coefficient	0.59983
PF Slope Coefficient	-1.37709	PF Power Coefficient	0.76466
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	1.4
%Improved % Followers	7.5	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1056	573	2	46.1
2	Tangent	898	-	-	54.2
3	Horizontal Curve	158	716	2	46.1

Vehicle Results

Average Speed, mi/h	49.5	Percent Followers, %	33.9
Segment Travel Time, minutes	0.48	Follower Density, followers/mi/ln	1.3
Vehicle LOS	A		

Segment 26

Vehicle Inputs

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Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	208	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.77	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.85935	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.37334	PF Power Coefficient	0.74488
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	7.1	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	845	716	2	46.1
2	Tangent	211	-	-	60.3
3	Horizontal Curve	317	477	2	46.1

Vehicle Results

Average Speed, mi/h	48.3	Percent Followers, %	34.7
Segment Travel Time, minutes	0.32	Follower Density, followers/mi/ln	1.4
Vehicle LOS	A		

Segment 27

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2112
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	208	Opposing Demand Flow Rate, veh/h	322
Peak Hour Factor	0.77	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.65652	Speed Power Coefficient	0.51076
PF Slope Coefficient	-1.27940	PF Power Coefficient	0.79646
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	1.1
%Improved % Followers	6.6	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	264	477	2	46.1
				-	60.6

3	Horizontal Curve	158	716	2	46.1
4	Tangent	317	-	-	60.6
5	Horizontal Curve	211	955	2	52.8
6	Tangent	1056	-	-	60.6

Vehicle Results

Average Speed, mi/h	56.9	Percent Followers, %	30.7
Segment Travel Time, minutes	0.42	Follower Density, followers/mi/ln	1.0
Vehicle LOS	A		

Segment 28

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5545
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	208	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.77	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.91233	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27720	PF Power Coefficient	0.76868
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	5.3	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-	-	60.3
2	Horizontal Curve	528	1614	8	60.3
3	Horizontal Curve	264	286	10	32.6
4	Horizontal Curve	528	462	2	46.1
5	Tangent	106	-	-	60.3
6	Horizontal Curve	317	523	2	46.1
7	Tangent	264	-	-	60.3
8	Horizontal Curve	264	716	2	46.1
9	Tangent	1162	-	-	60.3

Vehicle Results

Average Speed, mi/h	56.1	Percent Followers, %	31.7
Segment Travel Time, minutes	1.12	Follower Density, followers/mi/ln	1.1
Vehicle LOS	A		

Segment 29

Segment Type	Passing Constrained	Length, ft	1637
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.2

Demand and Capacity

Directional Demand Flow Rate, veh/h	208	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.77	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	59.6
Speed Slope Coefficient	5.15345	Speed Power Coefficient	0.46488
PF Slope Coefficient	-1.45112	PF Power Coefficient	0.73999
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	1430	10	57.8
2	Tangent	845	-	-	57.8
3	Horizontal Curve	422	2139	9	57.8

Vehicle Results

Average Speed, mi/h	57.8	Percent Followers, %	36.5
Segment Travel Time, minutes	0.32	Follower Density, followers/mi/ln	1.3
Vehicle LOS	A		

Segment 30

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	8712
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.4

Demand and Capacity

Directional Demand Flow Rate, veh/h	208	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.77	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.2
Speed Slope Coefficient	3.90654	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28128	PF Power Coefficient	0.75312
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
				10	59.3

2	Tangent	53	-	-	59.7
3	Horizontal Curve	422	1658	9	59.7
4	Tangent	317	-	-	59.7
5	Horizontal Curve	686	751	2	52.8
6	Tangent	106	-	-	59.7
7	Horizontal Curve	158	318	2	39.4
8	Tangent	792	-	-	59.7
9	Horizontal Curve	1690	2292	2	59.7
10	Tangent	634	-	-	59.7
11	Horizontal Curve	739	1146	2	52.8
12	Tangent	158	-	-	59.7
13	Horizontal Curve	634	955	2	52.8
14	Tangent	106	-	-	59.7
15	Horizontal Curve	845	1146	2	52.8
16	Tangent	106	-	-	59.7
17	Horizontal Curve	686	955	2	52.8
18	Tangent	158	-	-	59.7

Vehicle Results

Average Speed, mi/h	56.4	Percent Followers, %	32.5
Segment Travel Time, minutes	1.75	Follower Density, followers/mi/ln	1.2
Vehicle LOS	A		

Segment 31

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3643
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	208	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.77	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	59.5
Speed Slope Coefficient	5.33842	Speed Power Coefficient	0.47210
PF Slope Coefficient	-1.35637	PF Power Coefficient	0.75518
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-	-	57.7
2	Horizontal Curve	898	955	2	52.8
				-	57.7

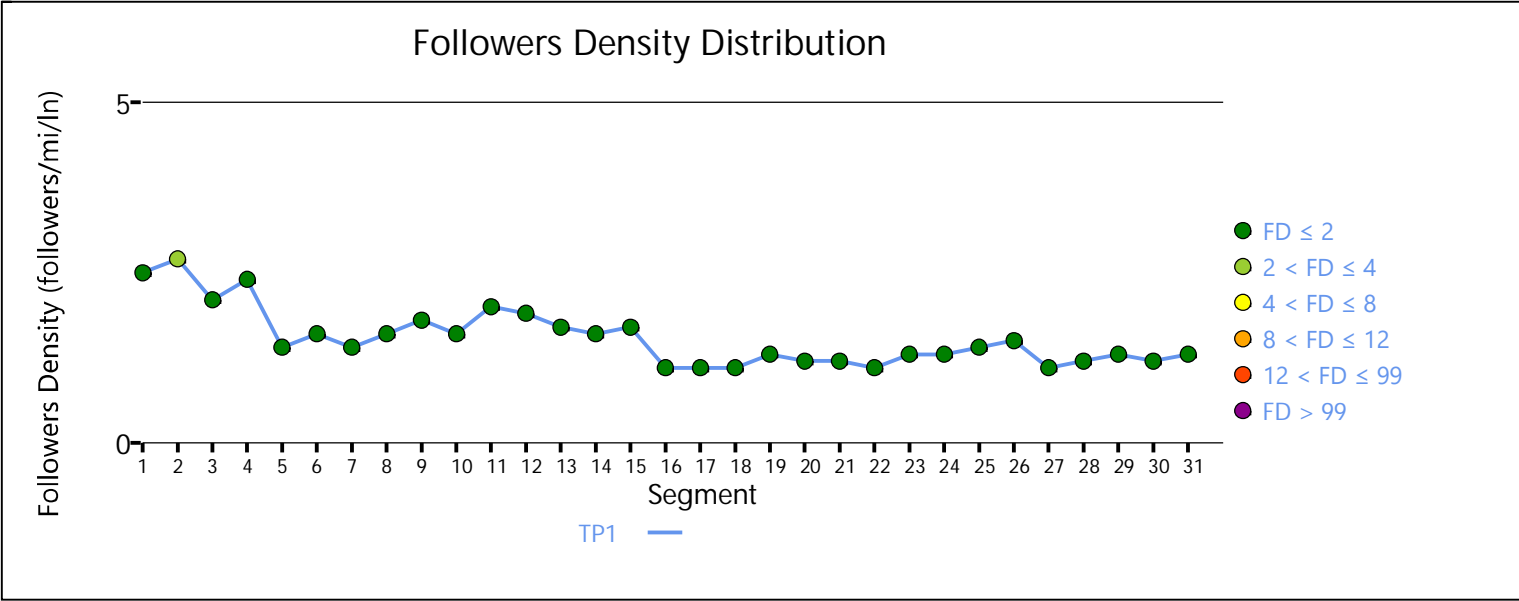
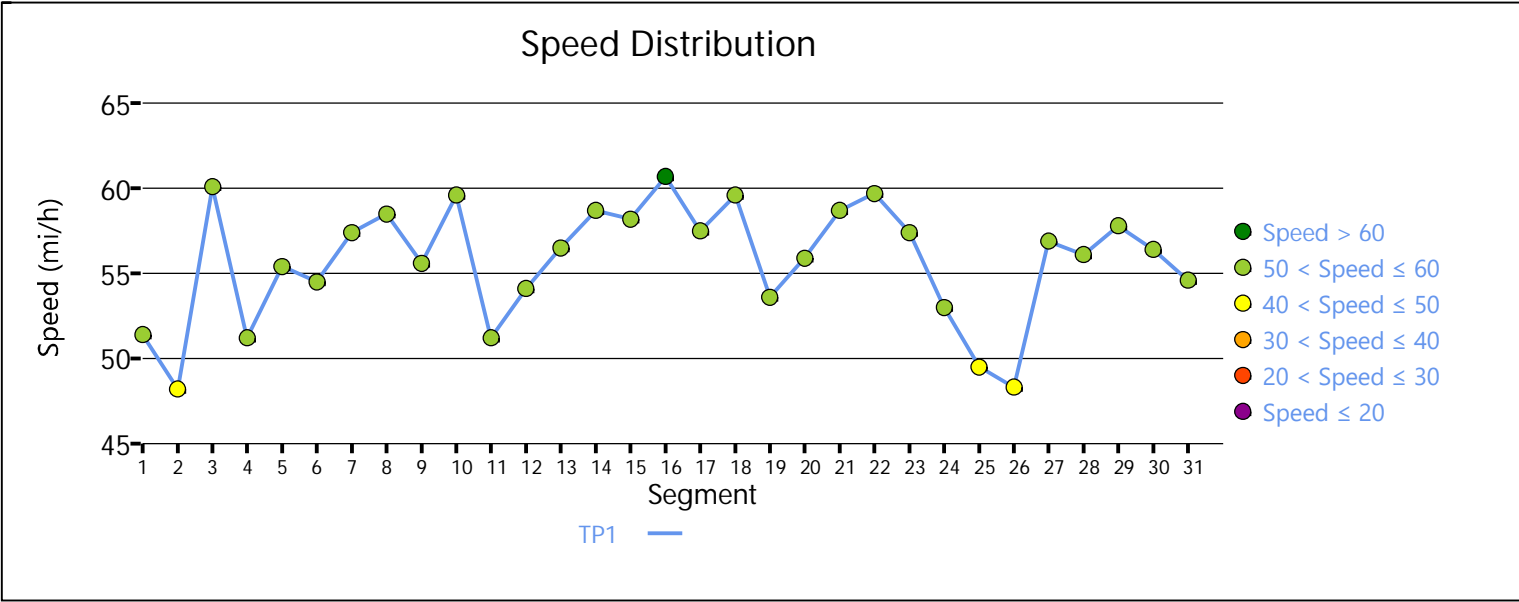
4	Horizontal Curve	634	955	2	52.8
5	Tangent	422	-	-	57.7
6	Horizontal Curve	792	955	2	52.8

Vehicle Results

Average Speed, mi/h	54.6	Percent Followers, %	33.9
Segment Travel Time, minutes	0.76	Follower Density, followers/mi/ln	1.3
Vehicle LOS	A		

Facility Results

T	Follower Density, followers/mi/ln	LOS
1	1.5	A



HCS7 Two-Lane Highway Report					
Project Information					
Analyst		RXO		Date	
Agency		ODOT		Analysis Year	
Jurisdiction				Time Analyzed	
Project Description		OR 42 - OR 42 Couplet to OR 542 (WB)		Units	
				U.S. Customary	
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
				3.6	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		322		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.77		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
				0.19	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.83511		Speed Power Coefficient	
PF Slope Coefficient		-1.32046		PF Power Coefficient	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	
%Improved % Followers		0.0		% Improved Avg Speed	
				0.0	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	792	955	2	52.6
2	Tangent	422	-	-	58.9
3	Horizontal Curve	634	955	2	52.6
4	Tangent	211	-	-	58.9
5	Horizontal Curve	898	955	2	52.6
Vehicle Results					
Average Speed, mi/h		53.9		Percent Followers, %	
Segment Travel Time, minutes		0.62		Follower Density, followers/mi/ln	
Vehicle LOS		B			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
				0.0	
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Directional Demand Flow Rate, veh/h		322	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.77	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.98422	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.34509	PF Power Coefficient		0.69090
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.6
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-	-	59.7
2	Tangent	158	-	-	59.7
3	Horizontal Curve	686	955	2	52.6
4	Tangent	106	-	-	59.7
5	Horizontal Curve	845	1146	2	52.6
6	Tangent	106	-	-	59.7
7	Horizontal Curve	634	955	2	52.6
8	Tangent	158	-	-	59.7
9	Horizontal Curve	739	1146	2	52.6
10	Tangent	634	-	-	59.7
11	Horizontal Curve	1690	2292	2	59.7
12	Tangent	792	-	-	59.7
13	Horizontal Curve	158	318	2	39.3
14	Tangent	106	-	-	59.7
15	Horizontal Curve	686	751	2	52.6
16	Tangent	317	-	-	59.7
17	Horizontal Curve	422	1658	9	59.7
18	Tangent	53	-	-	59.7
19	Horizontal Curve	422	1186	10	58.9
20	Horizontal Curve	422	2139	9	59.7
21	Tangent	845	-	-	59.7
22	Horizontal Curve	370	1430	10	59.7
23	Tangent	1162	-	-	59.7
24	Horizontal Curve	264	716	2	46.0
25	Tangent	264	-	-	59.7
26	Horizontal Curve	317	523	2	46.0
27	Tangent	106	-	-	59.7
28	Horizontal Curve	528	462	2	46.0
29	Horizontal Curve	264	286	10	32.5
30	Horizontal Curve	528	1614	8	59.7
31	Tangent	1214	-	-	59.7

Average Speed, mi/h	56.4	Percent Followers, %	45.9		
Segment Travel Time, minutes	3.16	Follower Density, followers/mi/ln	2.6		
Vehicle LOS	B				
Segment 3					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	2165		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	322	Opposing Demand Flow Rate, veh/h	208		
Peak Hour Factor	0.77	Total Trucks, %	27.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8		
Speed Slope Coefficient	3.62073	Speed Power Coefficient	0.53709		
PF Slope Coefficient	-1.25463	PF Power Coefficient	0.80426		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.1		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1954	-	-	60.2
2	Horizontal Curve	211	955	2	52.6
Vehicle Results					
Average Speed, mi/h	59.4	Percent Followers, %	39.6		
Segment Travel Time, minutes	0.41	Follower Density, followers/mi/ln	2.1		
Vehicle LOS	B				
Segment 4					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	2218		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	322	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.77	Total Trucks, %	27.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8		
Speed Slope Coefficient	3.87357	Speed Power Coefficient	0.41674		
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In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	317	-	-	59.7
2	Horizontal Curve	158	716	2	46.0
3	Tangent	106	-	-	59.7
4	Horizontal Curve	264	477	2	46.0
5	Horizontal Curve	317	477	2	46.0
6	Tangent	211	-	-	59.7
7	Horizontal Curve	845	716	2	46.0

Vehicle Results

Average Speed, mi/h	49.9	Percent Followers, %	43.2
Segment Travel Time, minutes	0.51	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 5

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2112
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	5.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	322	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.77	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	59.1
Speed Slope Coefficient	5.07678	Speed Power Coefficient	0.46382
PF Slope Coefficient	-1.42220	PF Power Coefficient	0.74416
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	158	716	2	46.0
2	Tangent	898	-	-	56.6
3	Horizontal Curve	1056	573	2	46.0

Vehicle Results

Average Speed, mi/h	50.5	Percent Followers, %	45.8
Segment Travel Time, minutes	0.48	Follower Density, followers/mi/ln	2.9
Vehicle LOS	B		

Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		10347
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		316	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.2
Speed Slope Coefficient		3.91570	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.29101	PF Power Coefficient		0.74101
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-	-	59.1
2	Horizontal Curve	581	395	2	39.3
3	Tangent	1531	-	-	59.1
4	Horizontal Curve	211	1910	2	59.0
5	Tangent	475	-	-	59.1
6	Horizontal Curve	950	637	2	46.0
7	Tangent	422	-	-	59.1
8	Horizontal Curve	264	473	2	46.0
9	Tangent	475	-	-	59.1
10	Horizontal Curve	264	318	2	39.3
11	Tangent	211	-	-	59.1
12	Horizontal Curve	475	477	2	46.0
13	Tangent	211	-	-	59.1
14	Horizontal Curve	422	955	2	52.6
15	Tangent	792	-	-	59.1
16	Horizontal Curve	264	409	2	39.3
17	Horizontal Curve	317	573	2	46.0
18	Tangent	317	-	-	59.1
19	Horizontal Curve	317	955	2	52.6
20	Tangent	106	-	-	59.1
21	Horizontal Curve	264	409	2	39.3
22	Tangent	317	-	-	59.1
23	Horizontal Curve	422	881	2	52.6
24	Tangent	53	-	-	59.1
25	Horizontal Curve	264	1146	2	52.6

Average Speed, mi/h	53.0	Percent Followers, %	42.3		
Segment Travel Time, minutes	2.22	Follower Density, followers/mi/ln	2.5		
Vehicle LOS	B				
Segment 7					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	15629		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.7		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	316	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.87	Total Trucks, %	27.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.4		
Speed Slope Coefficient	3.96088	Speed Power Coefficient	0.41674		
PF Slope Coefficient	-1.34824	PF Power Coefficient	0.69047		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.5		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2270	1146	2	52.6
2	Tangent	53	-	-	59.3
3	Horizontal Curve	317	1910	2	59.0
4	Tangent	7867	-	-	59.3
5	Horizontal Curve	634	1910	2	59.0
6	Tangent	158	-	-	59.3
7	Horizontal Curve	1162	716	2	46.0
8	Horizontal Curve	686	955	2	52.6
9	Tangent	53	-	-	59.3
10	Horizontal Curve	1003	1273	2	59.0
11	Tangent	53	-	-	59.3
12	Horizontal Curve	1003	1273	2	59.0
13	Tangent	370	-	-	59.3
Vehicle Results					
Average Speed, mi/h	57.0	Percent Followers, %	45.6		
Segment Travel Time, minutes	3.12	Follower Density, followers/mi/ln	2.5		
Vehicle LOS	B				
Segment 8					
Vehicle Inputs					

Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		316	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		27.00
Segment Capacity, veh/h		1100	Demand/Capacity (D/C)		0.29
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.8
Speed Slope Coefficient		8.09721	Speed Power Coefficient		0.87198
PF Slope Coefficient		-1.30268	PF Power Coefficient		0.75280
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.3
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2640	-	-	58.7
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		192		124	
Percentage of Heavy Vehicles (HV%), %		10.80		52.04	
Initial Average Speed (Sint), mi/h		60.4		59.7	
Average Speed at Midpoint (SPLmid), mi/h		62.4		57.7	
Percent Followers at Midpoint (PFPLmid), %		30.9		19.6	
Vehicle Results					
Average Speed, mi/h		58.7	Percent Followers, %		42.2
Segment Travel Time, minutes		0.51	Follower Density, followers/mi/ln		2.3
Vehicle LOS		B			
Segment 9					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2375
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.4
Demand and Capacity					
Directional Demand Flow Rate, veh/h		316	Opposing Demand Flow Rate, veh/h		205
Peak Hour Factor		0.87	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.7
Speed Slope Coefficient		3.56307	Speed Power Coefficient		0.53796
PF Slope Coefficient		-1.25289	PF Power Coefficient		0.80406
			Density, veh/mi/ln		2.1

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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	211	-	-	59.1
2	Horizontal Curve	1214	1910	2	59.0
3	Tangent	739	-	-	59.1
4	Horizontal Curve	211	1910	2	59.0

Vehicle Results

Average Speed, mi/h	60.6	Percent Followers, %	39.1
Segment Travel Time, minutes	0.45	Follower Density, followers/mi/ln	1.6
Vehicle LOS	A		

Segment 10

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5755
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	316	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.91431	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27607	PF Power Coefficient	0.76827
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	16.7	% Improved Avg Speed	1.7

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	1910	2	59.0
2	Horizontal Curve	370	716	2	46.0
3	Horizontal Curve	422	716	2	46.0
4	Tangent	475	-	-	59.7
5	Tangent	264	-	-	59.7
6	Horizontal Curve	528	1910	2	59.0
7	Horizontal Curve	581	1910	2	59.0
8	Tangent	739	-	-	59.7
9	Horizontal Curve	1214	1910	2	59.0
10	Tangent	53	-	-	59.7
11	Horizontal Curve	739	1146	2	52.6

Average Speed, mi/h	57.5	Percent Followers, %	40.9		
Segment Travel Time, minutes	1.14	Follower Density, followers/mi/ln	1.9		
Vehicle LOS	A				
Segment 11					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	1531		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	316	Opposing Demand Flow Rate, veh/h	205		
Peak Hour Factor	0.87	Total Trucks, %	27.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8		
Speed Slope Coefficient	3.60909	Speed Power Coefficient	0.53796		
PF Slope Coefficient	-1.28000	PF Power Coefficient	0.79436		
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	2.2		
%Improved % Followers	15.6	% Improved Avg Speed	1.5		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	1146	2	52.6
2	Tangent	1109	-	-	60.2
Vehicle Results					
Average Speed, mi/h	59.0	Percent Followers, %	40.1		
Segment Travel Time, minutes	0.29	Follower Density, followers/mi/ln	1.8		
Vehicle LOS	A				
Segment 12					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	9451		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.8		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	406	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.83	Total Trucks, %	27.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.1		
Speed Slope Coefficient	3.90661	Speed Power Coefficient	0.41674		
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In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.4
%Improved % Followers		9.7	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1637	-	-	58.7
2	Horizontal Curve	1848	1273	2	58.7
3	Tangent	2006	-	-	58.7
4	Horizontal Curve	1848	1910	2	58.7
5	Tangent	211	-	-	58.7
6	Horizontal Curve	1373	1146	2	52.5
7	Tangent	211	-	-	58.7
8	Horizontal Curve	317	1910	2	58.7
Vehicle Results					
Average Speed, mi/h		57.8	Percent Followers, %		48.1
Segment Travel Time, minutes		1.86	Follower Density, followers/mi/ln		3.0
Vehicle LOS		B			
Segment 13					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2165
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.9
Demand and Capacity					
Directional Demand Flow Rate, veh/h		406	Opposing Demand Flow Rate, veh/h		263
Peak Hour Factor		0.83	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.6
Speed Slope Coefficient		3.57290	Speed Power Coefficient		0.52335
PF Slope Coefficient		-1.27343	PF Power Coefficient		0.79738
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.2
%Improved % Followers		8.9	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	475	1910	2	58.7
2	Tangent	1690	-	-	58.7
Vehicle Results					
Average Speed, mi/h		58.7	Percent Followers, %		46.2
Segment Travel Time, minutes		0.42	Follower Density, followers/mi/ln		2.9
Vehicle LOS		B			

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	2798
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.8

Demand and Capacity			
Directional Demand Flow Rate, veh/h	406	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.83	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.1
Speed Slope Coefficient	3.84385	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.32275	PF Power Coefficient	0.76113
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.7
%Improved % Followers	7.9	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-	-	58.8
2	Horizontal Curve	264	1146	2	52.5
3	Horizontal Curve	1003	1146	2	52.5
4	Tangent	158	-	-	58.8
5	Horizontal Curve	898	1146	2	52.5

Vehicle Results			
Average Speed, mi/h	53.9	Percent Followers, %	48.6
Segment Travel Time, minutes	0.59	Follower Density, followers/mi/ln	3.4
Vehicle LOS	B		

Segment 15

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3696
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.4

Demand and Capacity			
Directional Demand Flow Rate, veh/h	406	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.83	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	59.9
Speed Slope Coefficient	5.46438	Speed Power Coefficient	0.47450
PF Slope Coefficient	-1.35193	PF Power Coefficient	0.75636
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.5
		Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3696	-	-	56.8

Vehicle Results			
Average Speed, mi/h	56.8	Percent Followers, %	49.5
Segment Travel Time, minutes	0.74	Follower Density, followers/mi/ln	3.3
Vehicle LOS	B		

Segment 16

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	1636
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.2

Demand and Capacity			
Directional Demand Flow Rate, veh/h	406	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.83	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.0
Speed Slope Coefficient	3.82080	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.36651	PF Power Coefficient	0.74781
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.2
%Improved % Followers	6.3	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	211	-	-	58.7
2	Horizontal Curve	739	573	2	45.9
3	Tangent	158	-	-	58.7
4	Horizontal Curve	528	573	2	45.9

Vehicle Results			
Average Speed, mi/h	48.8	Percent Followers, %	50.2
Segment Travel Time, minutes	0.38	Follower Density, followers/mi/ln	3.9
Vehicle LOS	B		

Segment 17

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	845
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.1

Demand and Capacity			
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Peak Hour Factor		0.83	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.3
Speed Slope Coefficient		3.59640	Speed Power Coefficient		0.52335
PF Slope Coefficient		-1.30760	PF Power Coefficient		0.78496
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.5
%Improved % Followers		6.1	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	264	573	2	45.9
2	Tangent	581	-	-	59.3
Vehicle Results					
Average Speed, mi/h		55.1	Percent Followers, %		47.5
Segment Travel Time, minutes		0.17	Follower Density, followers/mi/ln		3.3
Vehicle LOS		B			
Segment 18					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		5175
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		406	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.4
Speed Slope Coefficient		3.88843	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.28296	PF Power Coefficient		0.76821
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.4
%Improved % Followers		4.8	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1901	-	-	59.1
2	Horizontal Curve	898	1910	2	58.7
3	Horizontal Curve	686	1910	2	58.7
4	Tangent	370	-	-	59.1
5	Horizontal Curve	1320	1146	2	52.5
Vehicle Results					
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Segment Travel Time, minutes		1.03		Follower Density, followers/mi/ln		3.2	
Vehicle LOS		B					
Segment 19							
Vehicle Inputs							
Segment Type		Passing Zone		Length, ft		4065	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		3.9	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		406		Opposing Demand Flow Rate, veh/h		263	
Peak Hour Factor		0.83		Total Trucks, %		27.00	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.24	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		60.8	
Speed Slope Coefficient		3.61085		Speed Power Coefficient		0.52335	
PF Slope Coefficient		-1.22975		PF Power Coefficient		0.81103	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln		3.1	
%Improved % Followers		0.0		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Horizontal Curve	158	1146	2	52.5		
2	Tangent	3907	-	-	58.9		
Vehicle Results							
Average Speed, mi/h		58.6		Percent Followers, %		44.7	
Segment Travel Time, minutes		0.79		Follower Density, followers/mi/ln		3.1	
Vehicle LOS		B					
Segment 20							
Vehicle Inputs							
Segment Type		Passing Constrained		Length, ft		4224	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		8.7	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		351		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.90		Total Trucks, %		27.00	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.21	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		59.6	
Speed Slope Coefficient		3.78103		Speed Power Coefficient		0.41674	
PF Slope Coefficient		-1.30817		PF Power Coefficient		0.76333	
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%Improved % Followers	0.0	% Improved Avg Speed	0.0
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Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	739	-	-	57.5
2	Horizontal Curve	739	955	2	52.6
3	Tangent	686	-	-	57.5
4	Horizontal Curve	1162	1910	2	57.5
5	Tangent	898	-	-	57.5

Vehicle Results			
Average Speed, mi/h	56.6	Percent Followers, %	44.5
Segment Travel Time, minutes	0.85	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 21

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	15207
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.3

Demand and Capacity			
Directional Demand Flow Rate, veh/h	359	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.91	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	3.97745	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.33895	PF Power Coefficient	0.69588
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1003	1432	2	58.8
2	Tangent	1109	-	-	59.5
3	Horizontal Curve	1003	955	2	52.5
4	Tangent	106	-	-	59.5
5	Horizontal Curve	845	477	2	45.9
6	Horizontal Curve	1478	1910	2	58.8
7	Tangent	581	-	-	59.5
8	Horizontal Curve	581	819	2	52.5
9	Tangent	106	-	-	59.5
10	Horizontal Curve	1267	819	2	52.5
11	Tangent	106	-	-	59.5

13	Tangent	581	-	-	59.5
14	Horizontal Curve	1742	637	2	45.9
15	Tangent	53	-	-	59.5
16	Horizontal Curve	1478	955	2	52.5
17	Tangent	1373	-	-	59.5
18	Horizontal Curve	422	573	2	45.9

Vehicle Results

Average Speed, mi/h	54.1	Percent Followers, %	48.2
Segment Travel Time, minutes	3.19	Follower Density, followers/mi/ln	3.2
Vehicle LOS	B		

Segment 22

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	7180
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	473	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.75	Total Trucks, %	27.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.28

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.4
Speed Slope Coefficient	3.90655	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27609	PF Power Coefficient	0.76234
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	573	2	45.8
2	Tangent	53	-	-	58.8
3	Horizontal Curve	739	955	2	52.4
4	Tangent	1214	-	-	58.8
5	Horizontal Curve	845	477	2	45.8
6	Tangent	53	-	-	58.8
7	Horizontal Curve	634	536	2	45.8
8	Tangent	422	-	-	58.8
9	Horizontal Curve	1742	573	2	45.8
10	Tangent	1056	-	-	58.8

Vehicle Results

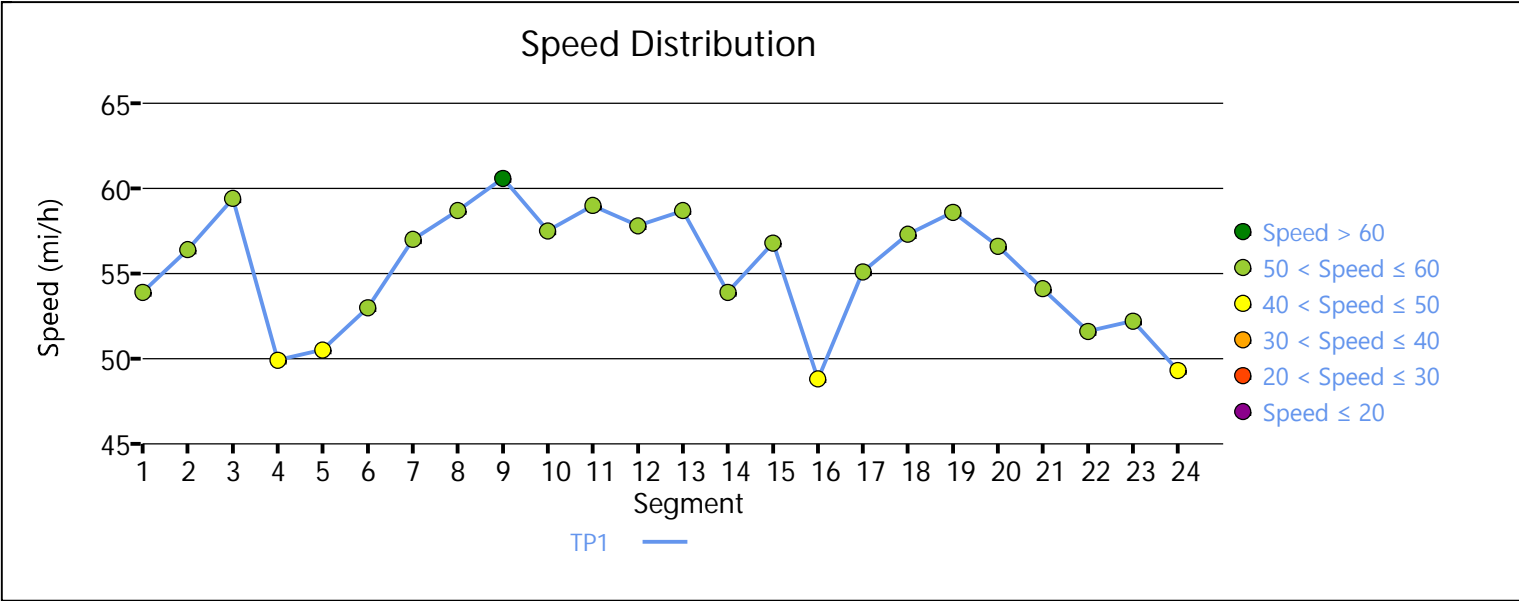
Average Speed, mi/h	51.6	Percent Followers, %	51.4
Segment Travel Time, minutes	1.58	Follower Density, followers/mi/ln	4.7

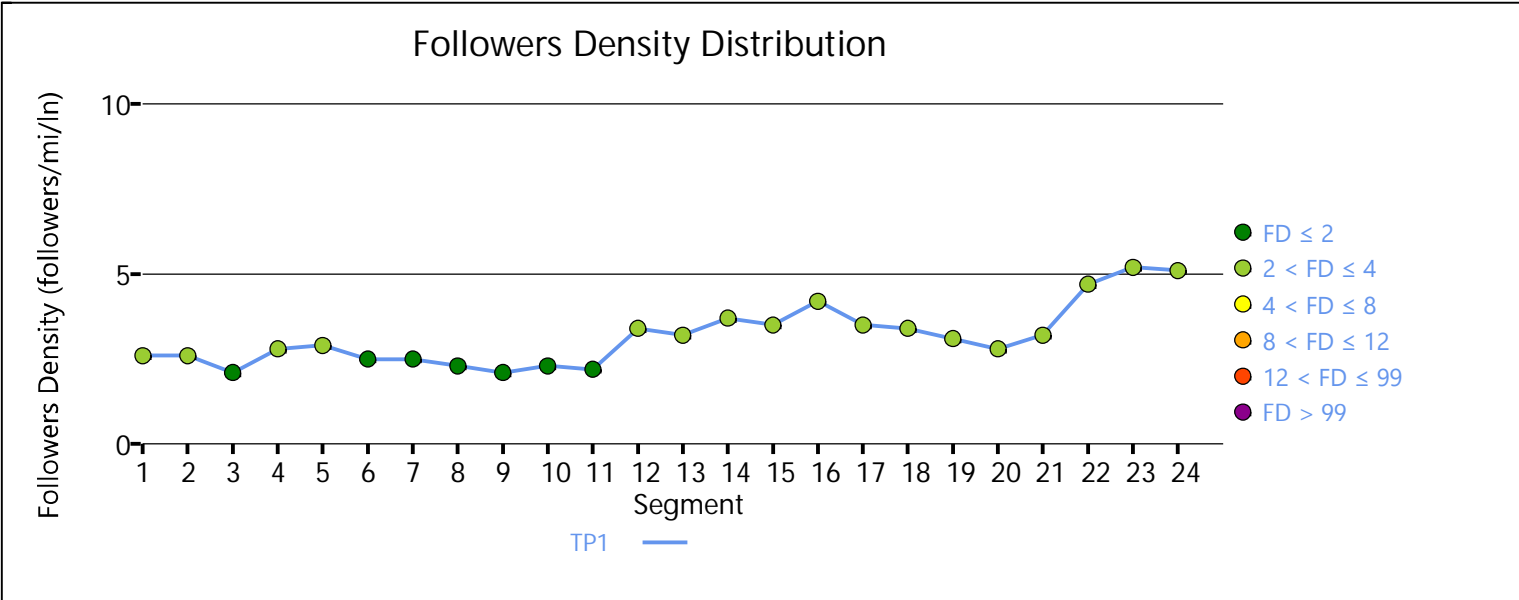
Segment 23					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1584
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		10.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		473	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.75	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		57.9
Speed Slope Coefficient		4.71099	Speed Power Coefficient		0.45465
PF Slope Coefficient		-1.47067	PF Power Coefficient		0.73533
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.2
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-	-	54.9
2	Horizontal Curve	475	573	2	45.8
3	Tangent	634	-	-	54.9
Vehicle Results					
Average Speed, mi/h		52.2	Percent Followers, %		57.2
Segment Travel Time, minutes		0.34	Follower Density, followers/mi/ln		5.2
Vehicle LOS		C			
Segment 24					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		5439
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.9
Demand and Capacity					
Directional Demand Flow Rate, veh/h		473	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.75	Total Trucks, %		27.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		58.9
Speed Slope Coefficient		5.23934	Speed Power Coefficient		0.47522
PF Slope Coefficient		-1.33167	PF Power Coefficient		0.75584
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.1
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Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	581	573	2	45.8
2	Tangent	264	-	-	55.6
3	Horizontal Curve	634	573	2	45.8
4	Tangent	317	-	-	55.6
5	Horizontal Curve	898	637	2	45.8
6	Tangent	475	-	-	55.6
7	Horizontal Curve	1056	573	2	45.8
8	Tangent	264	-	-	55.6
9	Horizontal Curve	950	955	2	52.4

Vehicle Results			
Average Speed, mi/h	49.3	Percent Followers, %	53.1
Segment Travel Time, minutes	1.25	Follower Density, followers/mi/ln	5.1
Vehicle LOS	C		

Facility Results		
T	Follower Density, followers/mi/ln	LOS
1	3.0	B





HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		3/7/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Reedsport north UGB to north Douglas County line		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	6705
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	6.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		595		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.84		Total Trucks, %	3.38
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.35
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	61.0
Speed Slope Coefficient		3.87739		Speed Power Coefficient	0.41674
PF Slope Coefficient		-1.28317		PF Power Coefficient	0.75968
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	5.9
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	739	-	-	58.1
2	Horizontal Curve	211	2078	0	58.1
3	Horizontal Curve	3326	2078	0	58.1
4	Horizontal Curve	475	2165	0	58.1
5	Horizontal Curve	317	2292	0	58.1
6	Tangent	845	-	-	58.1
7	Horizontal Curve	792	1348	2	58.1
Vehicle Results					
Average Speed, mi/h		58.1		Percent Followers, %	57.9
Segment Travel Time, minutes		1.31		Follower Density, followers/mi/ln	5.9
Vehicle LOS		C			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	1584
Lane Width, ft		12		Shoulder Width, ft	6
				Access Point Density, pts/mi	0.0

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Demand and Capacity			
Directional Demand Flow Rate, veh/h	443	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.84	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	51.2
Speed Slope Coefficient	3.28799	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.45023	PF Power Coefficient	0.71942
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	5.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1003	1348	2	49.1
2	Tangent	581	-	-	49.1

Vehicle Results			
Average Speed, mi/h	49.1	Percent Followers, %	55.4
Segment Travel Time, minutes	0.37	Follower Density, followers/mi/ln	5.0
Vehicle LOS	B		

Segment 3

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3982
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	35	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	556	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.85	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.33

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	39.8
Speed Slope Coefficient	2.70311	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.41129	PF Power Coefficient	0.69696
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	9.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1267	-	-	37.8
2	Horizontal Curve	264	1910	2	37.8
3	Tangent	264	-	-	37.8
4	Horizontal Curve	370	573	2	37.8
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6	Horizontal Curve	528	955	2	37.8
7	Tangent	23	-	-	37.8
8	Horizontal Curve	686	1433	2	37.8
9	Tangent	422	-	-	37.8

Vehicle Results

Average Speed, mi/h	37.8	Percent Followers, %	60.9
Segment Travel Time, minutes	1.20	Follower Density, followers/mi/ln	9.0
Vehicle LOS	C		

Segment 4

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3959
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	552	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.86	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.32

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.6
Speed Slope Coefficient	3.93861	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28863	PF Power Coefficient	0.76689
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	5.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1531	-	-	59.8
2	Horizontal Curve	950	955	2	52.9
3	Tangent	1478	-	-	59.8

Vehicle Results

Average Speed, mi/h	58.1	Percent Followers, %	55.8
Segment Travel Time, minutes	0.77	Follower Density, followers/mi/ln	5.3
Vehicle LOS	C		

Segment 5

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	4699
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.8

Demand and Capacity

		id Flow Rate, veh/h	-
--	--	---------------------	---

Peak Hour Factor		0.87	Total Trucks, %		3.38
Segment Capacity, veh/h		1500	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		5	Free-Flow Speed, mi/h		60.7
Speed Slope Coefficient		6.49545	Speed Power Coefficient		1.02440
PF Slope Coefficient		-1.02754	PF Power Coefficient		0.84240
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3854	-	-	58.7
2	Horizontal Curve	845	603	2	46.5
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		255		160	
Percentage of Heavy Vehicles (HV%), %		1.35		6.62	
Initial Average Speed (Sint), mi/h		60.6		59.2	
Average Speed at Midpoint (SPLmid), mi/h		62.2		57.7	
Percent Followers at Midpoint (PFPLmid), %		29.4		19.4	
Vehicle Results					
Average Speed, mi/h		56.5	Percent Followers, %		38.7
Segment Travel Time, minutes		0.94	Follower Density, followers/mi/ln		2.8
Vehicle LOS		B			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		3114
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		415	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		3.38
Segment Capacity, veh/h		1500	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.6
Speed Slope Coefficient		5.33205	Speed Power Coefficient		0.79902
PF Slope Coefficient		-1.33848	PF Power Coefficient		0.79983
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		3.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					

1	Horizontal Curve	686	573	2	46.5
2	Horizontal Curve	1003	955	2	53.1
3	Tangent	950	-	-	60.5
4	Horizontal Curve	475	573	2	46.5

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	255	160
Percentage of Heavy Vehicles (HV%), %	1.35	6.62
Initial Average Speed (Sint), mi/h	61.5	61.9
Average Speed at Midpoint (SPLmid), mi/h	63.0	60.3
Percent Followers at Midpoint (PFPLmid), %	36.8	25.4

Vehicle Results

Average Speed, mi/h	52.9	Percent Followers, %	48.4
Segment Travel Time, minutes	0.67	Follower Density, followers/mi/ln	3.8
Vehicle LOS	B		

Segment 7

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	5333
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.1

Demand and Capacity

Directional Demand Flow Rate, veh/h	415	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1500	Demand/Capacity (D/C)	0.28

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	61.9
Speed Slope Coefficient	6.03689	Speed Power Coefficient	1.10254
PF Slope Coefficient	-1.18244	PF Power Coefficient	0.86804
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	686	573	2	46.5
2	Horizontal Curve	1637	955	2	53.1
3	Tangent	845	-	-	60.2
4	Horizontal Curve	1109	573	2	46.5
5	Tangent	1056	-	-	60.2

Passing Lane Results

	Faster Lane	Slower Lane
		160

Percentage of Heavy Vehicles (HV%), %	1.35	6.62
Initial Average Speed (Sint), mi/h	61.5	61.0
Average Speed at Midpoint (SPLmid), mi/h	63.0	59.5
Percent Followers at Midpoint (PFPLmid), %	31.9	19.9

Vehicle Results

Average Speed, mi/h	53.4	Percent Followers, %	42.4
Segment Travel Time, minutes	1.14	Follower Density, followers/mi/ln	3.3
Vehicle LOS	B		

Segment 8

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1795
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	415	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.6
Speed Slope Coefficient	3.90951	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.34672	PF Power Coefficient	0.75047
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.6
%Improved % Followers	22.1	% Improved Avg Speed	2.4

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1056	-	-	60.2
2	Horizontal Curve	739	1146	2	53.1

Vehicle Results

Average Speed, mi/h	58.7	Percent Followers, %	50.1
Segment Travel Time, minutes	0.35	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 9

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6494
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	415	Opposing Demand Flow Rate, veh/h	-
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Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24
Intermediate Results			
Segment Vertical Class	4	Free-Flow Speed, mi/h	60.9
Speed Slope Coefficient	7.92454	Speed Power Coefficient	0.49515
PF Slope Coefficient	-1.73369	PF Power Coefficient	0.76091
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.4
%Improved % Followers	16.4	% Improved Avg Speed	1.5

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1214	1146	2	53.1
2	Tangent	211	-	-	56.4
3	Horizontal Curve	845	955	2	53.1
4	Horizontal Curve	739	1273	2	56.4
5	Tangent	581	-	-	56.4
6	Horizontal Curve	2006	1432	2	56.4
7	Tangent	898	-	-	56.4

Vehicle Results			
Average Speed, mi/h	56.2	Percent Followers, %	58.8
Segment Travel Time, minutes	1.31	Follower Density, followers/mi/ln	3.6
Vehicle LOS	B		

Segment 10			
Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3643
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	4.7

Demand and Capacity			
Directional Demand Flow Rate, veh/h	415	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	61.2
Speed Slope Coefficient	3.80007	Speed Power Coefficient	0.45281
PF Slope Coefficient	-1.36468	PF Power Coefficient	0.74323
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.8
%Improved % Followers	14.4	% Improved Avg Speed	0.9

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-	-	59.0
2	Horizontal Curve	1214	674	2	46.5
				-	59.0

Vehicle Results			
Average Speed, mi/h	55.3	Percent Followers, %	50.8
Segment Travel Time, minutes	0.75	Follower Density, followers/mi/ln	3.3
Vehicle LOS	B		

Segment 11

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1584
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	10.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	534	Opposing Demand Flow Rate, veh/h	555
Peak Hour Factor	0.83	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.31

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	60.1
Speed Slope Coefficient	3.61320	Speed Power Coefficient	0.47505
PF Slope Coefficient	-1.34564	PF Power Coefficient	0.77017
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	5.2
%Improved % Followers	12.4	% Improved Avg Speed	0.1

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1584	-	-	57.7

Vehicle Results			
Average Speed, mi/h	57.7	Percent Followers, %	56.4
Segment Travel Time, minutes	0.31	Follower Density, followers/mi/ln	4.6
Vehicle LOS	C		

Segment 12

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	5861
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.3

Demand and Capacity			
Directional Demand Flow Rate, veh/h	534	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.83	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.31

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.91321	Speed Power Coefficient	0.41674
		ent	0.76445

In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		5.1
%Improved % Followers		10.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	792	-	-	59.0
2	Horizontal Curve	1320	1432	2	59.0
3	Tangent	1056	-	-	59.0
4	Horizontal Curve	634	637	2	46.4
5	Tangent	1003	-	-	59.0
6	Horizontal Curve	422	1432	2	59.0
7	Tangent	634	-	-	59.0
Vehicle Results					
Average Speed, mi/h		57.6	Percent Followers, %		54.7
Segment Travel Time, minutes		1.16	Follower Density, followers/mi/ln		4.6
Vehicle LOS		C			
Segment 13					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1373
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		534	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.31
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		4.93274	Speed Power Coefficient		0.55264
PF Slope Coefficient		-1.46376	PF Power Coefficient		0.74280
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		6.0
%Improved % Followers		9.6	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-	-	59.0
2	Horizontal Curve	581	573	2	46.4
3	Tangent	106	-	-	59.0
Vehicle Results					
Average Speed, mi/h		53.6	Percent Followers, %		60.1
Segment Travel Time, minutes		0.29	Follower Density, followers/mi/ln		5.4
Vehicle LOS		C			

Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1373
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		534	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.31
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.6
Speed Slope Coefficient		3.90198	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.36859	PF Power Coefficient		0.74322
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		5.4
%Improved % Followers		9.1	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	581	819	2	53.0
2	Tangent	792	-	-	59.8
Vehicle Results					
Average Speed, mi/h		56.9	Percent Followers, %		57.6
Segment Travel Time, minutes		0.27	Follower Density, followers/mi/ln		4.9
Vehicle LOS		C			
Segment 15					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1267
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		534	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.31
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		62.4
Speed Slope Coefficient		3.54910	Speed Power Coefficient		0.45095
PF Slope Coefficient		-1.47791	PF Power Coefficient		0.72616
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		5.5
%Improved % Followers		8.7	% Improved Avg Speed		0.0
Subsegment Data					

1	Horizontal Curve	845	1273	2	59.1
2	Tangent	422	-	-	60.0

Vehicle Results

Average Speed, mi/h	59.4	Percent Followers, %	60.8
Segment Travel Time, minutes	0.24	Follower Density, followers/mi/ln	5.0
Vehicle LOS	C		

Segment 16

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6706
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	534	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.83	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.31

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.9
Speed Slope Coefficient	3.92618	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27534	PF Power Coefficient	0.76203
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	5.1
%Improved % Followers	6.9	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	792	573	2	46.4
2	Tangent	158	-	-	59.1
3	Horizontal Curve	370	716	2	46.4
4	Tangent	1690	-	-	59.1
5	Horizontal Curve	528	7910	2	59.1
6	Tangent	845	-	-	59.1
7	Horizontal Curve	792	1432	2	59.1
8	Tangent	1531	-	-	59.1

Vehicle Results

Average Speed, mi/h	56.9	Percent Followers, %	54.6
Segment Travel Time, minutes	1.34	Follower Density, followers/mi/ln	4.8
Vehicle LOS	C		

Segment 17

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1056
Lane Width, ft	12	Shoulder Width, ft	6
		Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	534	Opposing Demand Flow Rate, veh/h	555
Peak Hour Factor	0.83	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.31

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	62.5
Speed Slope Coefficient	3.19901	Speed Power Coefficient	0.52030
PF Slope Coefficient	-1.37966	PF Power Coefficient	0.76076
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	5.1
%Improved % Followers	6.6	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1056	-	-	60.4

Vehicle Results			
Average Speed, mi/h	60.4	Percent Followers, %	57.5
Segment Travel Time, minutes	0.20	Follower Density, followers/mi/ln	4.7
Vehicle LOS	C		

Segment 18

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	7339
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	21.4

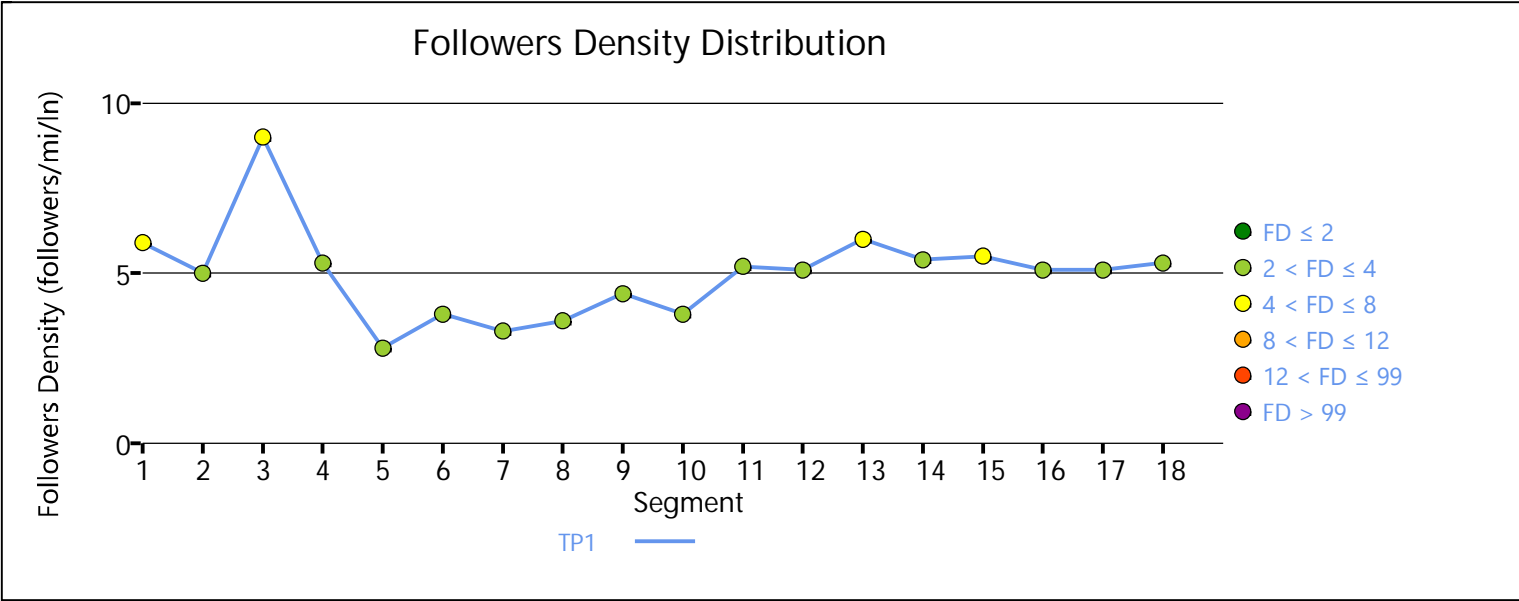
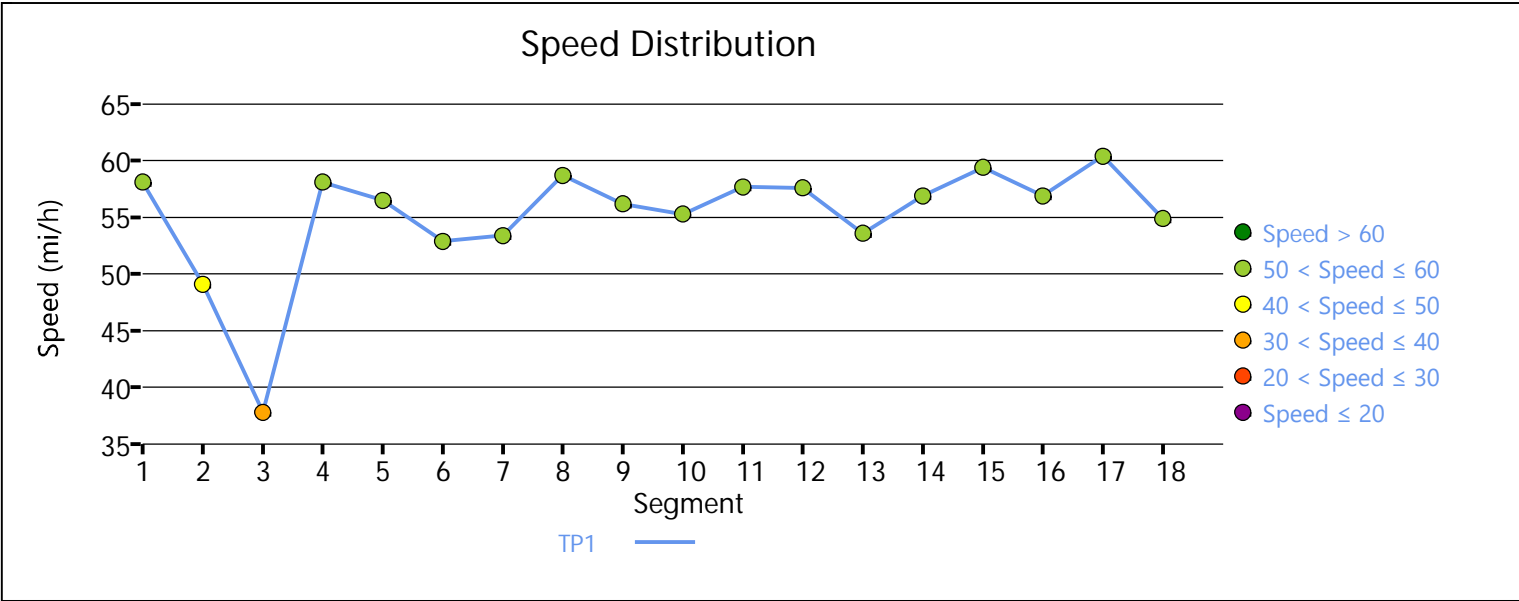
Demand and Capacity			
Directional Demand Flow Rate, veh/h	534	Opposing Demand Flow Rate, veh/h	555
Peak Hour Factor	0.83	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.31

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	57.2
Speed Slope Coefficient	3.52368	Speed Power Coefficient	0.47505
PF Slope Coefficient	-1.27336	PF Power Coefficient	0.77655
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	5.3
%Improved % Followers	5.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7339	-	-	54.9

Vehicle Results			
Average Speed, mi/h	54.9	Percent Followers, %	54.3
Segment Travel Time, minutes	1.52	Follower Density, followers/mi/ln	5.0

Facility Results		
T	Follower Density, followers/mi/ln	LOS
1	4.7	C



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction		ODOT	Time Analyzed		
Project Description		North Douglas County Line to Reedsport north UGB	Units		U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2218
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		555	Opposing Demand Flow Rate, veh/h		534
Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.33
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.4
Speed Slope Coefficient		3.68972	Speed Power Coefficient		0.47771
PF Slope Coefficient		-1.30819	PF Power Coefficient		0.78328
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.3
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2218	-	-	58.9
Vehicle Results					
Average Speed, mi/h		58.9	Percent Followers, %		56.2
Segment Travel Time, minutes		0.43	Follower Density, followers/mi/ln		5.3
Vehicle LOS		C			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2112
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		555	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.33

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Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.65060	Speed Power Coefficient	0.45026
PF Slope Coefficient	-1.42214	PF Power Coefficient	0.73464
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	5.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-	-	59.2

Vehicle Results			
Average Speed, mi/h	59.2	Percent Followers, %	60.3
Segment Travel Time, minutes	0.41	Follower Density, followers/mi/ln	5.7
Vehicle LOS	C		

Segment 3

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	2059
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	555	Opposing Demand Flow Rate, veh/h	534
Peak Hour Factor	0.83	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.33

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.6
Speed Slope Coefficient	3.75178	Speed Power Coefficient	0.47771
PF Slope Coefficient	-1.30606	PF Power Coefficient	0.78429
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	5.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-	-	60.0

Vehicle Results			
Average Speed, mi/h	60.0	Percent Followers, %	56.1
Segment Travel Time, minutes	0.39	Follower Density, followers/mi/ln	5.2
Vehicle LOS	C		

Segment 4

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	1320
			6

Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		555	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.33
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		62.4
Speed Slope Coefficient		3.54910	Speed Power Coefficient		0.45095
PF Slope Coefficient		-1.47791	PF Power Coefficient		0.72616
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1320	-	-	59.9
Vehicle Results					
Average Speed, mi/h		59.9	Percent Followers, %		61.9
Segment Travel Time, minutes		0.25	Follower Density, followers/mi/ln		5.7
Vehicle LOS		C			
Segment 5					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1214
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		555	Opposing Demand Flow Rate, veh/h		534
Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.33
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		4.34131	Speed Power Coefficient		0.59031
PF Slope Coefficient		-1.36483	PF Power Coefficient		0.77383
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.4
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1214	1432	2	59.1
Vehicle Results					
Average Speed, mi/h		59.1	Percent Followers, %		57.9

Vehicle LOS		C			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		555		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.83		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.97612		Speed Power Coefficient	
PF Slope Coefficient		-1.28257		PF Power Coefficient	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	
%Improved % Followers		0.0		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1795	1432	2	59.1
2	Tangent	845	-	-	59.4
3	Horizontal Curve	528	1910	2	59.1
4	Tangent	1690	-	-	59.4
5	Horizontal Curve	370	716	2	46.4
6	Tangent	1518	-	-	59.4
7	Horizontal Curve	792	573	2	46.4
8	Tangent	422	-	-	59.4
9	Horizontal Curve	845	1273	2	59.1
10	Tangent	792	-	-	59.4
11	Horizontal Curve	581	819	2	52.9
Vehicle Results					
Average Speed, mi/h		57.5		Percent Followers, %	
Segment Travel Time, minutes		2.01		Follower Density, followers/mi/ln	
Vehicle LOS		C			
Segment 7					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h					

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Directional Demand Flow Rate, veh/h

-

Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.33
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		61.4
Speed Slope Coefficient		5.24772	Speed Power Coefficient		0.55345
PF Slope Coefficient		-1.41711	PF Power Coefficient		0.74586
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.1
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	106	-	-	58.0
2	Horizontal Curve	581	573	2	46.4
3	Tangent	1320	-	-	58.0
Vehicle Results					
Average Speed, mi/h		54.6	Percent Followers, %		59.9
Segment Travel Time, minutes		0.42	Follower Density, followers/mi/ln		6.1
Vehicle LOS		C			
Segment 8					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		5227
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		555	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.83	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.33
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.91084	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.28177	PF Power Coefficient		0.76574
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.4
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	1432	2	59.0
2	Tangent	1003	-	-	59.0
3	Horizontal Curve	634	637	2	46.4
4	Tangent	1056	-	-	59.0
5	Horizontal Curve	1320	1432	2	59.0
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Vehicle Results			
Average Speed, mi/h	57.5	Percent Followers, %	55.8
Segment Travel Time, minutes	1.03	Follower Density, followers/mi/ln	5.4
Vehicle LOS	C		

Segment 9

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	2587
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	4.1

Demand and Capacity			
Directional Demand Flow Rate, veh/h	555	Opposing Demand Flow Rate, veh/h	534
Peak Hour Factor	0.83	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.33

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.6
Speed Slope Coefficient	3.70399	Speed Power Coefficient	0.47771
PF Slope Coefficient	-1.29539	PF Power Coefficient	0.78745
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	5.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2587	-	-	59.0

Vehicle Results			
Average Speed, mi/h	59.0	Percent Followers, %	55.7
Segment Travel Time, minutes	0.50	Follower Density, followers/mi/ln	5.2
Vehicle LOS	C		

Segment 10

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	2745
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.8

Demand and Capacity			
Directional Demand Flow Rate, veh/h	510	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.30

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.6
Speed Slope Coefficient	3.87222	Speed Power Coefficient	0.41674
		ent	0.75861

In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.2
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	845	-	-	59.0
2	Horizontal Curve	1214	674	2	46.4
3	Tangent	686	-	-	59.0
Vehicle Results					
Average Speed, mi/h		53.4	Percent Followers, %		54.8
Segment Travel Time, minutes		0.58	Follower Density, followers/mi/ln		5.2
Vehicle LOS		C			
Segment 11					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		7128
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		510	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.30
Intermediate Results					
Segment Vertical Class		4	Free-Flow Speed, mi/h		61.2
Speed Slope Coefficient		8.21687	Speed Power Coefficient		0.48095
PF Slope Coefficient		-1.76051	PF Power Coefficient		0.76348
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.1
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	792	-	-	55.8
2	Horizontal Curve	2006	1432	2	55.8
3	Tangent	581	-	-	55.8
4	Horizontal Curve	739	1273	2	55.8
5	Horizontal Curve	845	955	2	53.0
6	Tangent	211	-	-	55.8
7	Horizontal Curve	1954	1146	2	53.0
Vehicle Results					
Average Speed, mi/h		54.7	Percent Followers, %		65.1
Segment Travel Time, minutes		1.48	Follower Density, followers/mi/ln		6.1
Vehicle LOS		C			

Vehicle Inputs					
Segment Type		Passing Lanes		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		510		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.87		Total Trucks, %	
Segment Capacity, veh/h		1500		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		3		Free-Flow Speed, mi/h	
Speed Slope Coefficient		6.06929		Speed Power Coefficient	
PF Slope Coefficient		-1.23159		PF Power Coefficient	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	
%Improved % Followers		0.0		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-	-	59.5
2	Horizontal Curve	1109	573	2	46.4
3	Tangent	845	-	-	59.5
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		308		202	
Percentage of Heavy Vehicles (HV%), %		1.35		6.47	
Initial Average Speed (Sint), mi/h		61.2		60.9	
Average Speed at Midpoint (SPLmid), mi/h		62.8		59.3	
Percent Followers at Midpoint (PFPLmid), %		38.7		25.7	
Vehicle Results					
Average Speed, mi/h		56.0		Percent Followers, %	
Segment Travel Time, minutes		0.83		Follower Density, followers/mi/ln	
Vehicle LOS		C			
Segment 13					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		510		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.87		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.3
Speed Slope Coefficient	3.93223	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28149	PF Power Coefficient	0.76720
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	5.3
%Improved % Followers	20.0	% Improved Avg Speed	3.2

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1637	955	2	53.0
2	Horizontal Curve	1162	573	2	46.4
3	Tangent	950	-	-	59.6
4	Horizontal Curve	1003	573	2	46.4

Vehicle Results			
Average Speed, mi/h	53.0	Percent Followers, %	53.5
Segment Travel Time, minutes	1.02	Follower Density, followers/mi/ln	4.1
Vehicle LOS	C		

Segment 14

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	6864
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.5

Demand and Capacity			
Directional Demand Flow Rate, veh/h	574	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.86	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.34

Intermediate Results			
Segment Vertical Class	5	Free-Flow Speed, mi/h	60.6
Speed Slope Coefficient	11.38807	Speed Power Coefficient	0.41464
PF Slope Coefficient	-1.98051	PF Power Coefficient	0.82815
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	8.1
%Improved % Followers	14.3	% Improved Avg Speed	1.8

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1531	603	2	46.4
2	Tangent	5333	-	-	52.2

Vehicle Results			
Average Speed, mi/h	51.8	Percent Followers, %	71.4
Segment Travel Time, minutes	1.50	Follower Density, followers/mi/ln	6.8
Vehicle LOS	C		

Segment 15					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2481
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		6.4
Demand and Capacity					
Directional Demand Flow Rate, veh/h		574	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.86	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.34
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.0
Speed Slope Coefficient		3.83333	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.33581	PF Power Coefficient		0.75483
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		6.0
%Improved % Followers		13.0	% Improved Avg Speed		1.5
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	950	955	2	52.9
2	Tangent	1531	-	-	58.2
Vehicle Results					
Average Speed, mi/h		57.0	Percent Followers, %		58.5
Segment Travel Time, minutes		0.49	Follower Density, followers/mi/ln		5.1
Vehicle LOS		C			
Segment 16					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3590
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		35	Access Point Density, pts/mi		10.3
Demand and Capacity					
Directional Demand Flow Rate, veh/h		579	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.85	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.34
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		37.2
Speed Slope Coefficient		2.55903	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.41640	PF Power Coefficient		0.68514
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		10.2
%Improved % Followers		11.4	% Improved Avg Speed		0.9

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-	-	35.3
2	Horizontal Curve	264	1433	2	35.3
3	Tangent	53	-	-	35.3
4	Horizontal Curve	528	955	2	35.3
5	Tangent	158	-	-	35.3
6	Horizontal Curve	370	573	2	35.3
7	Tangent	264	-	-	35.3
8	Horizontal Curve	264	1910	2	35.3
9	Tangent	1267	-	-	35.3

Vehicle Results

Average Speed, mi/h	35.6	Percent Followers, %	62.2
Segment Travel Time, minutes	1.14	Follower Density, followers/mi/ln	9.0
Vehicle LOS	C		

Segment 17

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1003
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	45	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	579	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.85	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.34

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	51.2
Speed Slope Coefficient	3.28308	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.46651	PF Power Coefficient	0.71504
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	7.5
%Improved % Followers	11.0	% Improved Avg Speed	0.7

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-	-	48.8
2	Horizontal Curve	422	1348	2	48.8

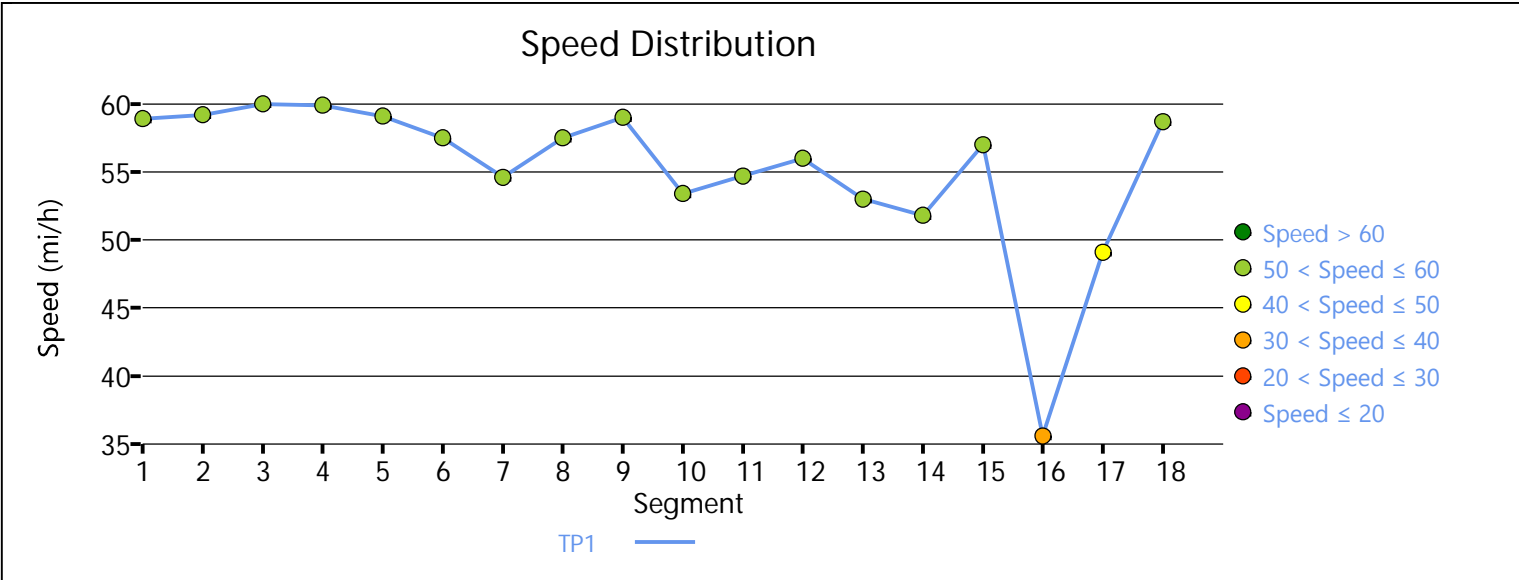
Vehicle Results

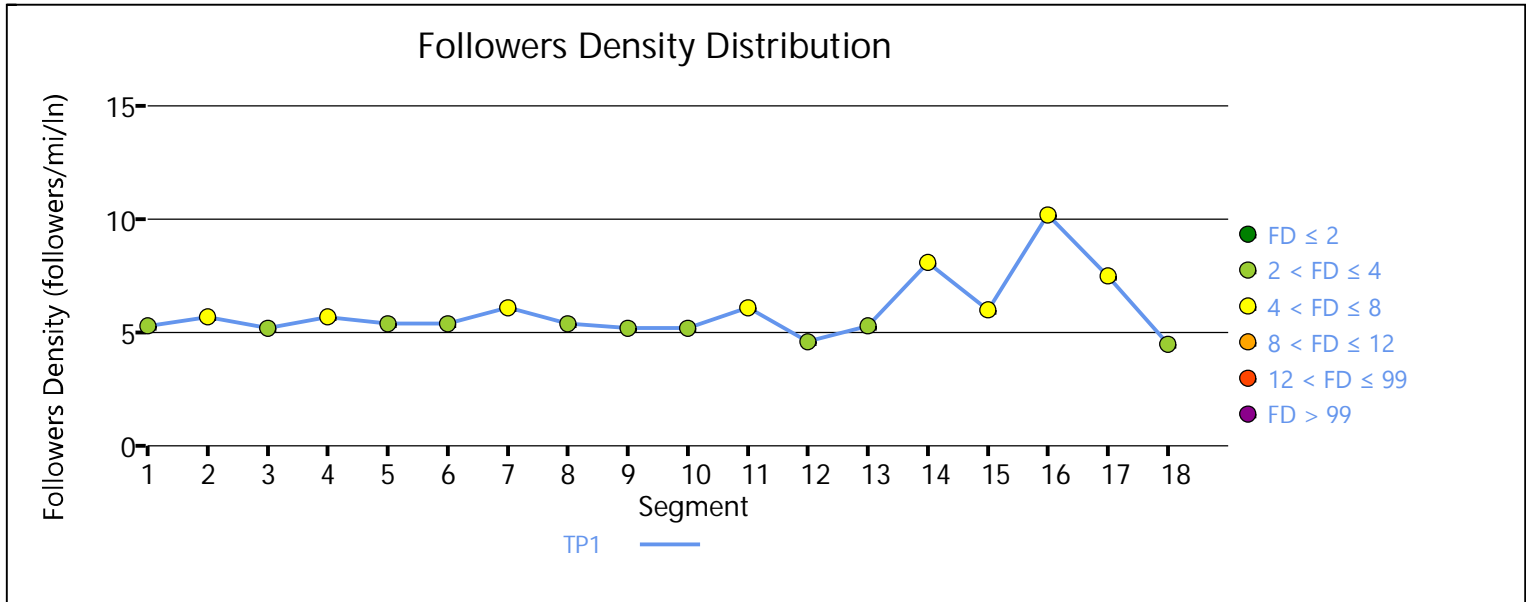
Average Speed, mi/h	49.1	Percent Followers, %	62.9
Segment Travel Time, minutes	0.23	Follower Density, followers/mi/ln	6.6
Vehicle LOS	C		

Segment 18

Vehicle Inputs

Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		5.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		500	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.84	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.29
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.2
Speed Slope Coefficient		3.88056	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.28446	PF Power Coefficient		0.76332
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.5
%Improved % Followers		9.9	% Improved Avg Speed		0.3
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	792	1348	2	58.5
2	Tangent	53	-	-	58.5
3	Horizontal Curve	317	2292	0	58.5
4	Horizontal Curve	475	2165	0	58.5
5	Horizontal Curve	3326	2078	0	58.5
6	Horizontal Curve	211	2078	0	58.5
7	Tangent	528	-	-	58.5
Vehicle Results					
Average Speed, mi/h		58.7	Percent Followers, %		53.1
Segment Travel Time, minutes		1.10	Follower Density, followers/mi/ln		4.1
Vehicle LOS		C			
Facility Results					
T	Follower Density, followers/mi/ln			LOS	
1	5.6			C	





HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		3/7/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Lakeside north UGB to Reedsport south UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1320
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		698	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.41
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		62.4
Speed Slope Coefficient		3.54910	Speed Power Coefficient		0.45095
PF Slope Coefficient		-1.47791	PF Power Coefficient		0.72616
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		8.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1320	-	-	59.6
Vehicle Results					
Average Speed, mi/h		59.6	Percent Followers, %		68.0
Segment Travel Time, minutes		0.25	Follower Density, followers/mi/ln		8.0
Vehicle LOS		C			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		3802
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		698	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		3.38
Segment Capacity, veh/h		1500	Demand/Capacity (D/C)		0.47

Segment Vertical Class	4	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	5.69335	Speed Power Coefficient	0.92255
PF Slope Coefficient	-1.15064	PF Power Coefficient	0.84339
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	6.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3802	-	-	58.2

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	409	289
Percentage of Heavy Vehicles (HV%), %	1.35	6.25
Initial Average Speed (Sint), mi/h	60.5	59.8
Average Speed at Midpoint (SPLmid), mi/h	62.1	58.1
Percent Followers at Midpoint (PFPLmid), %	43.4	31.4

Vehicle Results

Average Speed, mi/h	58.2	Percent Followers, %	57.2
Segment Travel Time, minutes	0.74	Follower Density, followers/mi/ln	6.9
Vehicle LOS	C		

Segment 3

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1267
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	664	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.39

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.6
Speed Slope Coefficient	3.90096	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.37180	PF Power Coefficient	0.74214
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	7.1
%Improved % Followers	23.4	% Improved Avg Speed	3.2

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1267	-	-	59.5

Vehicle Results

Average Speed, mi/h	61.4	Percent Followers, %	63.7
		followers/mi/ln	5.3

Vehicle LOS		C			
Segment 4					
Vehicle Inputs					
Segment Type		Passing Zone		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		664		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.87		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.59086		Speed Power Coefficient	
PF Slope Coefficient		-1.31292		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
%Improved % Followers		19.2		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3115	-	-	56.0
Vehicle Results					
Average Speed, mi/h		57.5		Percent Followers, %	
Segment Travel Time, minutes		0.62		Follower Density, followers/mi/ln	
Vehicle LOS		C			
Segment 5					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		664		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.87		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.94189		Speed Power Coefficient	
PF Slope Coefficient		-1.27697		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
%Improved % Followers		14.9		% Improved Avg Speed	

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2270	-	-	59.3
2	Horizontal Curve	1584	2086	2	58.9
3	Horizontal Curve	634	969	2	52.8
4	Tangent	53	-	-	59.3
5	Horizontal Curve	475	941	2	52.8
6	Tangent	158	-	-	59.3

Vehicle Results

Average Speed, mi/h	58.9	Percent Followers, %	60.7
Segment Travel Time, minutes	1.00	Follower Density, followers/mi/ln	5.8
Vehicle LOS	C		

Segment 6

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3168
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	664	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.39

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	62.4
Speed Slope Coefficient	3.94758	Speed Power Coefficient	0.45796
PF Slope Coefficient	-1.36862	PF Power Coefficient	0.74403
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	8.1
%Improved % Followers	13.0	% Improved Avg Speed	1.5

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	475	587	2	46.3
2	Tangent	739	-	-	59.4
3	Horizontal Curve	898	568	2	46.3
4	Tangent	158	-	-	59.4
5	Horizontal Curve	898	973	2	52.8

Vehicle Results

Average Speed, mi/h	52.6	Percent Followers, %	63.6
Segment Travel Time, minutes	0.68	Follower Density, followers/mi/ln	7.0
Vehicle LOS	C		

Segment 7

Vehicle Inputs

Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	803	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.88	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.47

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.90356	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.29590	PF Power Coefficient	0.76504
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	9.1
%Improved % Followers	9.8	% Improved Avg Speed	0.2

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2640	-	-	58.6
2	Horizontal Curve	1162	1432	2	58.6
3	Tangent	53	-	-	58.6

Vehicle Results

Average Speed, mi/h	58.7	Percent Followers, %	66.6
Segment Travel Time, minutes	0.75	Follower Density, followers/mi/ln	8.2
Vehicle LOS	D		

Segment 8

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6548
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	803	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.88	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.47

Intermediate Results

Segment Vertical Class	5	Free-Flow Speed, mi/h	60.1
Speed Slope Coefficient	10.87738	Speed Power Coefficient	0.43042
PF Slope Coefficient	-1.96828	PF Power Coefficient	0.82630
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	12.8
%Improved % Followers	7.4	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1056	1146	2	50.8
				-	50.8

3	Horizontal Curve	1162	1432	2	50.8
4	Tangent	4013	-	-	50.8

Vehicle Results

Average Speed, mi/h	50.8	Percent Followers, %	80.7
Segment Travel Time, minutes	1.47	Follower Density, followers/mi/ln	11.8
Vehicle LOS	D		

Segment 9

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1795
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	45	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	1018	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.90	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.60

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	50.9
Speed Slope Coefficient	3.77213	Speed Power Coefficient	0.45528
PF Slope Coefficient	-1.50090	PF Power Coefficient	0.71060
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	16.8
%Improved % Followers	4.6	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-	-	47.3
2	Horizontal Curve	1109	955	2	47.3

Vehicle Results

Average Speed, mi/h	47.3	Percent Followers, %	78.1
Segment Travel Time, minutes	0.43	Follower Density, followers/mi/ln	16.0
Vehicle LOS	E		

Segment 10

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4012
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.3

Demand and Capacity

Directional Demand Flow Rate, veh/h	1018	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.90	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.60

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.3
Speed Slope Coefficient	3.92159	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.29082	PF Power Coefficient	0.76620
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	13.1
%Improved % Followers	3.5	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	211	955	2	52.5
2	Tangent	211	-	-	58.5
3	Horizontal Curve	1056	1432	2	58.4
4	Tangent	739	-	-	58.5
5	Horizontal Curve	1003	955	2	52.5
6	Tangent	792	-	-	58.5

Vehicle Results

Average Speed, mi/h	56.6	Percent Followers, %	73.0
Segment Travel Time, minutes	0.80	Follower Density, followers/mi/ln	12.7
Vehicle LOS	E		

Segment 11

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	5544
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	944	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1500	Demand/Capacity (D/C)	0.63

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	6.05501	Speed Power Coefficient	1.02649
PF Slope Coefficient	-1.08592	PF Power Coefficient	0.87983
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	10.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

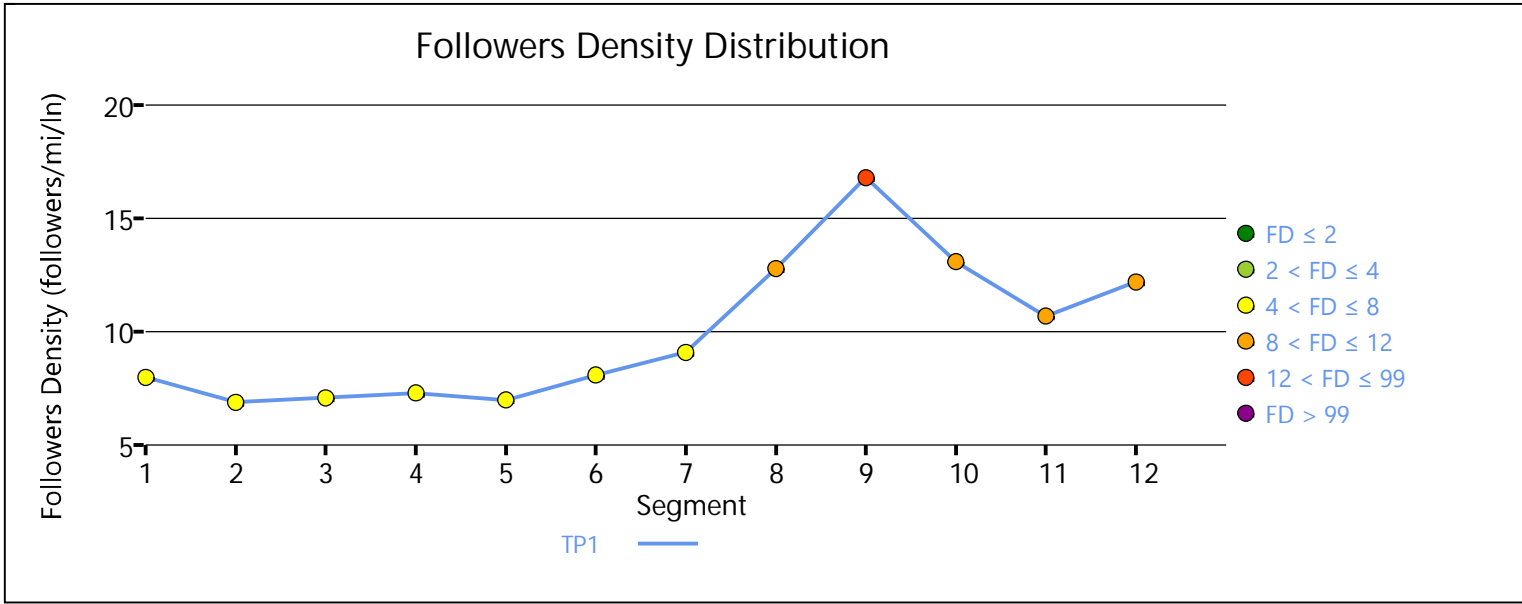
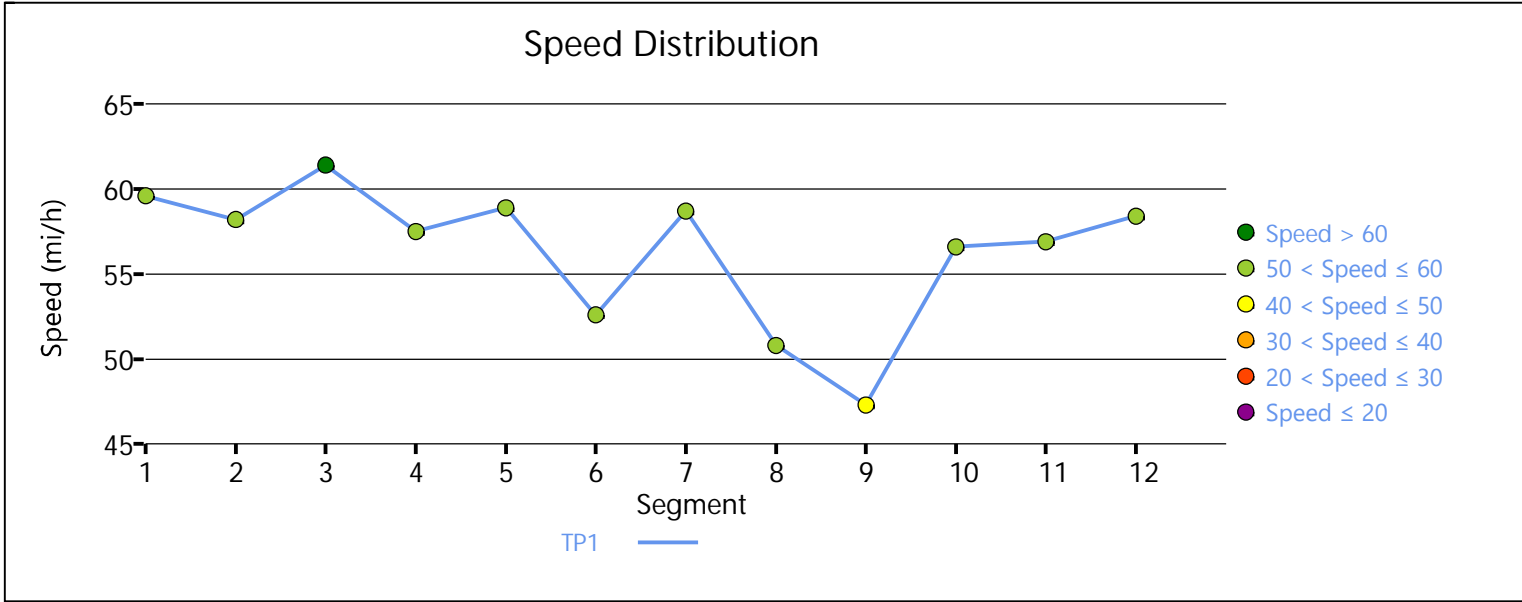
Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5544	-	-	56.9

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	536	407
Percentage of Heavy Vehicles (HV%), %	1.35	6.05

Average Speed at Midpoint (SPLmid), mi/h		61.9		57.7			
Percent Followers at Midpoint (PFPLmid), %		48.2		37.1			
Vehicle Results							
Average Speed, mi/h		56.9		Percent Followers, %		64.4	
Segment Travel Time, minutes		1.11		Follower Density, followers/mi/ln		10.7	
Vehicle LOS		D					
Segment 12							
Vehicle Inputs							
Segment Type		Passing Constrained		Length, ft		2060	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		0.0	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		944		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.87		Total Trucks, %		3.38	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.56	
Intermediate Results							
Segment Vertical Class		3		Free-Flow Speed, mi/h		62.1	
Speed Slope Coefficient		5.36922		Speed Power Coefficient		0.56005	
PF Slope Coefficient		-1.41079		PF Power Coefficient		0.74808	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln		12.2	
%Improved % Followers		18.8		% Improved Avg Speed		2.2	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	1162	-	-	57.2		
2	Horizontal Curve	898	1432	2	57.2		
Vehicle Results							
Average Speed, mi/h		58.4		Percent Followers, %		74.1	
Segment Travel Time, minutes		0.40		Follower Density, followers/mi/ln		9.7	
Vehicle LOS		D					
Facility Results							
T	Follower Density, followers/mi/ln			LOS			
1	9.2			D			



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Reedsport south UGB to Lakeside north UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2852
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.7
Demand and Capacity					
Directional Demand Flow Rate, veh/h		982	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		3.38
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.58
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		61.1
Speed Slope Coefficient		5.63365	Speed Power Coefficient		0.56011
PF Slope Coefficient		-1.38201	PF Power Coefficient		0.74828
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		13.1
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	898	1432	2	55.9
2	Tangent	1954	-	-	55.9
Vehicle Results					
Average Speed, mi/h		55.9	Percent Followers, %		74.4
Segment Travel Time, minutes		0.58	Follower Density, followers/mi/ln		13.1
Vehicle LOS		E			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		9450
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1057	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.90	Total Trucks, %		3.38
			(D/C)		0.62

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Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.95736	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28026	PF Power Coefficient	0.74675
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	13.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5544	-	-	58.2
2	Horizontal Curve	1003	955	2	52.5
3	Tangent	739	-	-	58.2
4	Horizontal Curve	1056	1432	2	58.2
5	Tangent	211	-	-	58.2
6	Horizontal Curve	211	955	2	52.5
7	Horizontal Curve	686	955	2	52.5

Vehicle Results			
Average Speed, mi/h	57.0	Percent Followers, %	73.7
Segment Travel Time, minutes	1.88	Follower Density, followers/mi/ln	13.7
Vehicle LOS	E		

Segment 3

Vehicle Inputs			
Segment Type	Passing Lanes	Length, ft	8078
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	5.9

Demand and Capacity			
Directional Demand Flow Rate, veh/h	836	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.88	Total Trucks, %	3.38
Segment Capacity, veh/h	1500	Demand/Capacity (D/C)	0.56

Intermediate Results			
Segment Vertical Class	5	Free-Flow Speed, mi/h	60.1
Speed Slope Coefficient	8.43347	Speed Power Coefficient	1.16749
PF Slope Coefficient	-0.95601	PF Power Coefficient	0.91400
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	8.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	955	2	52.7
2	Tangent	686	-	-	54.2
3	Tangent	4013	-	-	54.2

			2	54.2
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5	Tangent	317	-	-	54.2
6	Horizontal Curve	1056	1146	2	52.7
7	Tangent	53	-	-	54.2
8	Horizontal Curve	317	1432	2	54.2

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	481	355
Percentage of Heavy Vehicles (HV%), %	1.35	6.13
Initial Average Speed (Sint), mi/h	58.9	57.1
Average Speed at Midpoint (SPLmid), mi/h	60.6	55.4
Percent Followers at Midpoint (PFPLmid), %	40.9	30.8

Vehicle Results

Average Speed, mi/h	54.0	Percent Followers, %	55.6
Segment Travel Time, minutes	1.70	Follower Density, followers/mi/ln	8.6
Vehicle LOS	D		

Segment 4

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	11088
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	691	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.41

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.5
Speed Slope Coefficient	3.99185	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28801	PF Power Coefficient	0.73475
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	7.7
%Improved % Followers	14.7	% Improved Avg Speed	2.2

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	845	1432	2	58.8
2	Tangent	2640	-	-	59.3
3	Horizontal Curve	898	973	2	52.8
4	Tangent	158	-	-	59.3
5	Horizontal Curve	898	568	2	46.3
6	Tangent	739	-	-	59.3
7	Horizontal Curve	475	587	2	46.3
8	Tangent	158	-	-	59.3
				2	52.8

10	Tangent	53	-	-	59.3
11	Horizontal Curve	634	969	2	52.8
12	Horizontal Curve	1584	2086	2	58.8
13	Tangent	1531	-	-	59.3

Vehicle Results

Average Speed, mi/h	57.6	Percent Followers, %	62.5
Segment Travel Time, minutes	2.19	Follower Density, followers/mi/ln	6.4
Vehicle LOS	C		

Segment 5

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1426
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	691	Opposing Demand Flow Rate, veh/h	664
Peak Hour Factor	0.87	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.41

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.6
Speed Slope Coefficient	3.76870	Speed Power Coefficient	0.46311
PF Slope Coefficient	-1.34616	PF Power Coefficient	0.76916
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	7.4
%Improved % Followers	14.0	% Improved Avg Speed	1.9

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1426	-	-	59.6

Vehicle Results

Average Speed, mi/h	60.8	Percent Followers, %	63.7
Segment Travel Time, minutes	0.27	Follower Density, followers/mi/ln	6.2
Vehicle LOS	C		

Segment 6

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2165
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	4.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	691	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	3.38
		Demand/Capacity (D/C)	0.41

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.4
Speed Slope Coefficient	3.84901	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.34316	PF Power Coefficient	0.75248
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	7.6
%Improved % Followers	13.2	% Improved Avg Speed	1.6

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2165	-	-	58.3

Vehicle Results			
Average Speed, mi/h	59.2	Percent Followers, %	63.8
Segment Travel Time, minutes	0.42	Follower Density, followers/mi/ln	6.5
Vehicle LOS	C		

Segment 7

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	6653
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.8

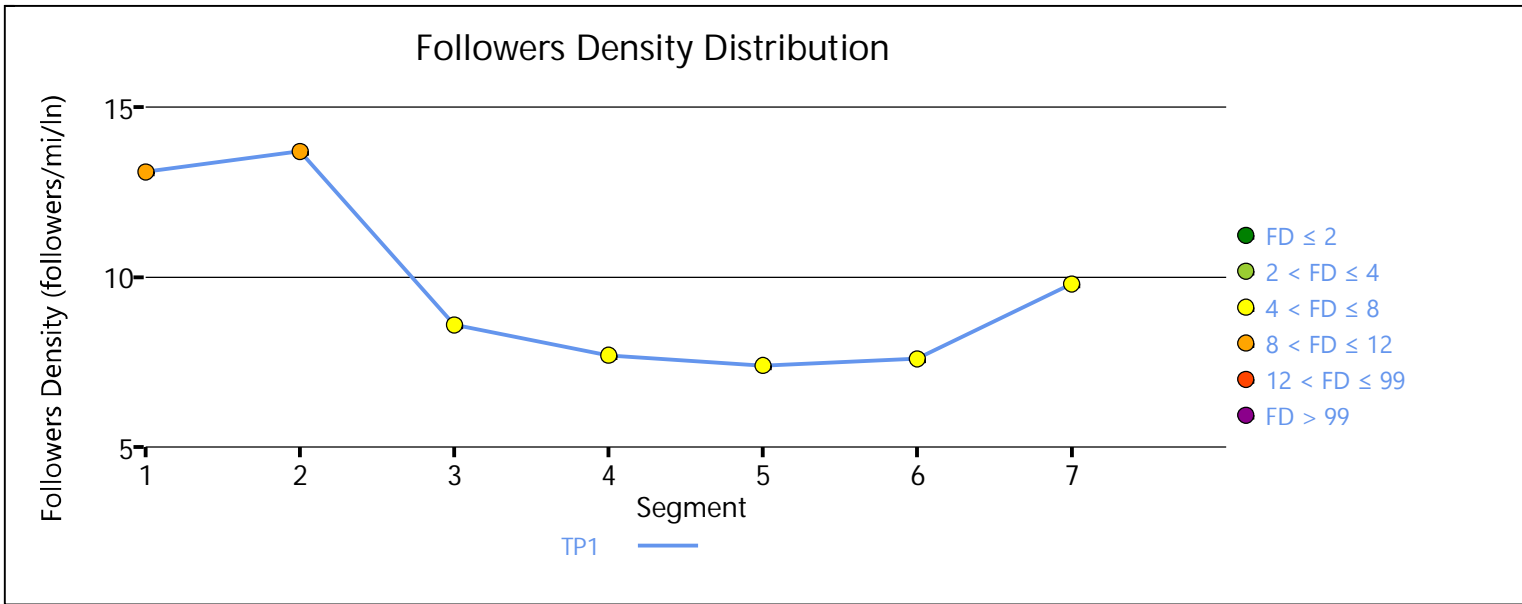
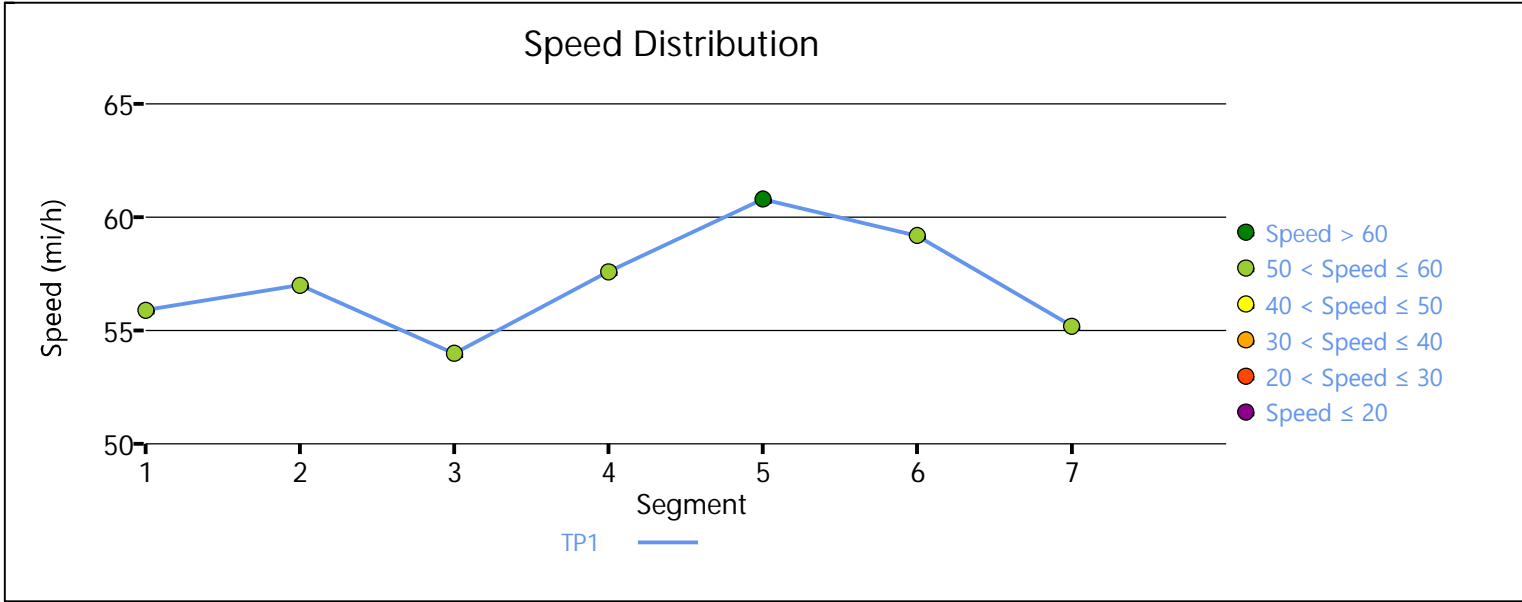
Demand and Capacity			
Directional Demand Flow Rate, veh/h	726	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	3.38
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.43

Intermediate Results			
Segment Vertical Class	4	Free-Flow Speed, mi/h	61.4
Speed Slope Coefficient	8.13180	Speed Power Coefficient	0.49363
PF Slope Coefficient	-1.73905	PF Power Coefficient	0.76208
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	9.8
%Improved % Followers	10.6	% Improved Avg Speed	0.4

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	6653	-	-	54.9

Vehicle Results			
Average Speed, mi/h	55.2	Percent Followers, %	74.4
Segment Travel Time, minutes	1.37	Follower Density, followers/mi/ln	8.8
Vehicle LOS	D		

Facility Results		
T	Follower Density, followers/mi/ln	LOS
1	9.3	D



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/27/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		North Bend north UGB to Lakeside south UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2059
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		35	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1520	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.90	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.89
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		39.3
Speed Slope Coefficient		3.45778	Speed Power Coefficient		0.41622
PF Slope Coefficient		-1.56096	PF Power Coefficient		0.67401
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		37.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-	-	35.3
Vehicle Results					
Average Speed, mi/h		35.3	Percent Followers, %		87.4
Segment Travel Time, minutes		0.66	Follower Density, followers/mi/ln		37.7
Vehicle LOS		E			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1953
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		45	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1520	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.90	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.89
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Segment Vertical Class	1	Free-Flow Speed, mi/h	50.7
Speed Slope Coefficient	3.26622	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.43272	PF Power Coefficient	0.72503
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	27.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1478	-	-	46.9
2	Horizontal Curve	475	1432	2	46.9

Vehicle Results

Average Speed, mi/h	46.9	Percent Followers, %	85.6
Segment Travel Time, minutes	0.47	Follower Density, followers/mi/ln	27.8
Vehicle LOS	E		

Segment 3

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2693
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	1520	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.90	Total Trucks, %	18.89
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.89

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.1
Speed Slope Coefficient	3.89501	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31773	PF Power Coefficient	0.76150
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	22.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	581	1432	2	57.3
2	Tangent	2112	-	-	57.6

Vehicle Results

Average Speed, mi/h	57.5	Percent Followers, %	83.7
Segment Travel Time, minutes	0.53	Follower Density, followers/mi/ln	22.1
Vehicle LOS	E		

Segment 4

Vehicle Inputs

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Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		873	Opposing Demand Flow Rate, veh/h		1024
Peak Hour Factor		0.92	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.51
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.80904	Speed Power Coefficient		0.43578
PF Slope Coefficient		-1.35372	PF Power Coefficient		0.76223
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		10.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1637	-	-	58.7
Vehicle Results					
Average Speed, mi/h		58.7	Percent Followers, %		70.5
Segment Travel Time, minutes		0.32	Follower Density, followers/mi/ln		10.5
Vehicle LOS		D			
Segment 5					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		6336
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		873	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.51
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.93424	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.27244	PF Power Coefficient		0.76619
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		10.2
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1214	2292	2	58.5
2	Tangent	53	-	-	58.5
3	Horizontal Curve	3221	2292	2	58.5
				-	58.5

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Vehicle Results											
Average Speed, mi/h		58.5		Percent Followers, %		68.2					
Segment Travel Time, minutes		1.23		Follower Density, followers/mi/ln		10.2					
Vehicle LOS		D									
Segment 6											
Vehicle Inputs											
Segment Type		Passing Lanes		Length, ft		2640					
Lane Width, ft		12		Shoulder Width, ft		6					
Speed Limit, mi/h		55		Access Point Density, pts/mi		0.0					
Demand and Capacity											
Directional Demand Flow Rate, veh/h		895		Opposing Demand Flow Rate, veh/h		-					
Peak Hour Factor		0.94		Total Trucks, %		18.89					
Segment Capacity, veh/h		1300		Demand/Capacity (D/C)		0.69					
Intermediate Results											
Segment Vertical Class		1		Free-Flow Speed, mi/h		62.1					
Speed Slope Coefficient		7.20136		Speed Power Coefficient		0.83235					
PF Slope Coefficient		-1.25823		PF Power Coefficient		0.77064					
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln		10.9					
%Improved % Followers		0.0		% Improved Avg Speed		0.0					
Subsegment Data											
#	Segment Type		Length, ft		Radius, ft		Superelevation, %		Average Speed, mi/h		
1	Tangent		2640		-		-		56.1		
Passing Lane Results											
			Faster Lane				Slower Lane				
Flow Rate, veh/h			474				421				
Percentage of Heavy Vehicles (HV%), %			7.56				31.66				
Initial Average Speed (Sint), mi/h			59.8				58.4				
Average Speed at Midpoint (SPLmid), mi/h			61.7				56.5				
Percent Followers at Midpoint (PFPLmid), %			51.5				46.7				
Vehicle Results											
Average Speed, mi/h			56.1			Percent Followers, %			68.5		
Segment Travel Time, minutes			0.53			Follower Density, followers/mi/ln			10.9		
Vehicle LOS			D								
Segment 7											
Vehicle Inputs											
Segment Type			Passing Constrained			Length, ft			1637		
Lane Width, ft			12			Shoulder Width, ft			6		
Speed Limit, mi/h			55			Access Point Density, pts/mi			0.0		

Directional Demand Flow Rate, veh/h		895	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.53
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.87881	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.35731	PF Power Coefficient		0.74907
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		10.9
%Improved % Followers		21.3	% Improved Avg Speed		2.1
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1637	-	-	58.5
Vehicle Results					
Average Speed, mi/h		59.8	Percent Followers, %		71.3
Segment Travel Time, minutes		0.31	Follower Density, followers/mi/ln		8.4
Vehicle LOS		D			
Segment 8					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		8184
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		11.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		895	Opposing Demand Flow Rate, veh/h		1045
Peak Hour Factor		0.94	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.53
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		59.3
Speed Slope Coefficient		3.73279	Speed Power Coefficient		0.43462
PF Slope Coefficient		-1.29013	PF Power Coefficient		0.76270
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		11.1
%Improved % Followers		11.9	% Improved Avg Speed		0.8
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	8184	-	-	55.9
Vehicle Results					
Average Speed, mi/h		56.4	Percent Followers, %		69.4
Segment Travel Time, minutes		1.65	Follower Density, followers/mi/ln		9.7
Vehicle LOS		D			

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	2006
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.7

Demand and Capacity			
Directional Demand Flow Rate, veh/h	749	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	18.89
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.44

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	60.9
Speed Slope Coefficient	5.03500	Speed Power Coefficient	0.47283
PF Slope Coefficient	-1.42115	PF Power Coefficient	0.74191
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	9.0
%Improved % Followers	12.1	% Improved Avg Speed	1.3

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2006	-	-	56.8

Vehicle Results			
Average Speed, mi/h	57.5	Percent Followers, %	68.2
Segment Travel Time, minutes	0.40	Follower Density, followers/mi/ln	7.8
Vehicle LOS	C		

Segment 10

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	7339
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	15.8

Demand and Capacity			
Directional Demand Flow Rate, veh/h	718	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	18.89
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.42

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	58.1
Speed Slope Coefficient	3.72874	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.30453	PF Power Coefficient	0.75162
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	8.3
%Improved % Followers	8.8	% Improved Avg Speed	0.3

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
				-	55.1

Vehicle Results			
Average Speed, mi/h	55.2	Percent Followers, %	63.8
Segment Travel Time, minutes	1.51	Follower Density, followers/mi/ln	7.6
Vehicle LOS	C		

Segment 11

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	3802
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.6

Demand and Capacity			
Directional Demand Flow Rate, veh/h	718	Opposing Demand Flow Rate, veh/h	836
Peak Hour Factor	0.96	Total Trucks, %	18.89
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.42

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.4
Speed Slope Coefficient	3.77193	Speed Power Coefficient	0.44813
PF Slope Coefficient	-1.28874	PF Power Coefficient	0.78499
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	7.7
%Improved % Followers	7.4	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3802	-	-	58.4

Vehicle Results			
Average Speed, mi/h	58.4	Percent Followers, %	63.0
Segment Travel Time, minutes	0.74	Follower Density, followers/mi/ln	7.2
Vehicle LOS	C		

Segment 12

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	1373
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	718	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	18.89
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.42

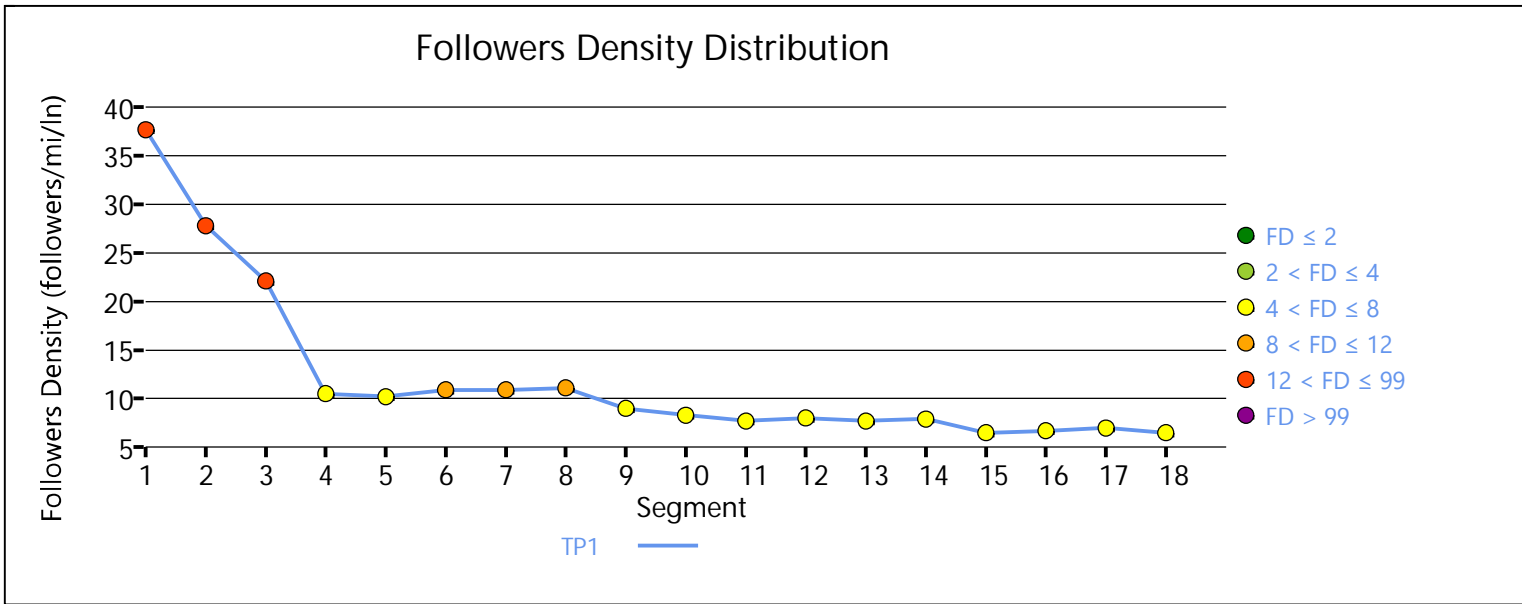
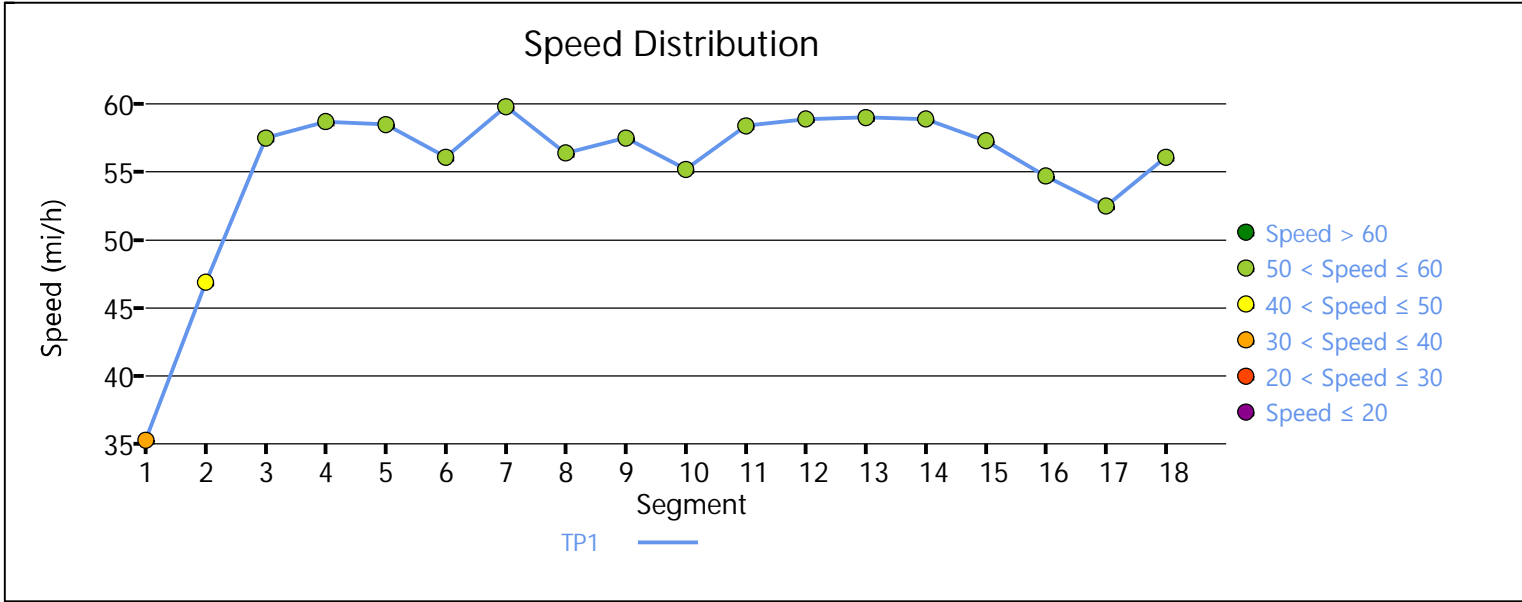
Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.1
Speed Slope Coefficient	3.87399	Speed Power Coefficient	0.41674
		ent	0.74431

In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		8.0
%Improved % Followers		6.9	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1373	-	-	58.9
Vehicle Results					
Average Speed, mi/h		58.9	Percent Followers, %		65.8
Segment Travel Time, minutes		0.26	Follower Density, followers/mi/ln		7.5
Vehicle LOS		C			
Segment 13					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2693
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		718	Opposing Demand Flow Rate, veh/h		836
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.42
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.79333	Speed Power Coefficient		0.44813
PF Slope Coefficient		-1.30770	PF Power Coefficient		0.78064
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		7.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2693	-	-	59.0
Vehicle Results					
Average Speed, mi/h		59.0	Percent Followers, %		63.6
Segment Travel Time, minutes		0.52	Follower Density, followers/mi/ln		7.7
Vehicle LOS		C			
Segment 14					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1848
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		718	Opposing Demand Flow Rate, veh/h		-
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Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.42
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.88239	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.34741	PF Power Coefficient		0.75230
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		7.9
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1848	-	-	58.9
Vehicle Results					
Average Speed, mi/h		58.9	Percent Followers, %		65.0
Segment Travel Time, minutes		0.36	Follower Density, followers/mi/ln		7.9
Vehicle LOS		C			
Segment 15					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1584
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		716
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		60.5
Speed Slope Coefficient		4.59011	Speed Power Coefficient		0.51774
PF Slope Coefficient		-1.38059	PF Power Coefficient		0.76382
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1584	-	-	57.3
Vehicle Results					
Average Speed, mi/h		57.3	Percent Followers, %		61.2
Segment Travel Time, minutes		0.31	Follower Density, followers/mi/ln		6.5
Vehicle LOS		C			
Segment 16					
Vehicle Inputs					
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Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		18.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		57.5
Speed Slope Coefficient		3.67034	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.32237	PF Power Coefficient		0.75696
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4541	-	-	54.7
Vehicle Results					
Average Speed, mi/h		54.7	Percent Followers, %		59.8
Segment Travel Time, minutes		0.94	Follower Density, followers/mi/ln		6.7
Vehicle LOS		C			
Segment 17					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		4646
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		58.2
Speed Slope Coefficient		8.86965	Speed Power Coefficient		0.64081
PF Slope Coefficient		-1.33693	PF Power Coefficient		0.75993
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		7.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4646	-	-	52.5
Vehicle Results					
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Segment Travel Time, minutes		1.01	Follower Density, followers/mi/ln		7.0
Vehicle LOS		C			
Segment 18					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		5492
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		59.8
Speed Slope Coefficient		5.08820	Speed Power Coefficient		0.47949
PF Slope Coefficient		-1.33179	PF Power Coefficient		0.75253
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1109	-	-	56.1
2	Horizontal Curve	2218	2292	2	56.1
3	Tangent	2165	-	-	56.1
Vehicle Results					
Average Speed, mi/h		56.1	Percent Followers, %		60.1
Segment Travel Time, minutes		1.11	Follower Density, followers/mi/ln		6.5
Vehicle LOS		C			
Facility Results					
T	Follower Density, followers/mi/ln			LOS	
1	10.4			D	



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Lakeside south UGB to North Bend north UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	7234
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	2.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		716		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.96		Total Trucks, %	18.89
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.42
Intermediate Results					
Segment Vertical Class		2		Free-Flow Speed, mi/h	60.2
Speed Slope Coefficient		5.39045		Speed Power Coefficient	0.48902
PF Slope Coefficient		-1.32248		PF Power Coefficient	0.74997
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	8.2
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2165	-	-	56.0
2	Horizontal Curve	2218	2292	2	56.0
3	Tangent	2851	-	-	56.0
Vehicle Results					
Average Speed, mi/h		56.0		Percent Followers, %	64.3
Segment Travel Time, minutes		1.47		Follower Density, followers/mi/ln	8.2
Vehicle LOS		D			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Lanes		Length, ft	1901
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	2.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		716		Opposing Demand Flow Rate, veh/h	-
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Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.42
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		60.3
Speed Slope Coefficient		4.98706	Speed Power Coefficient		0.47196
PF Slope Coefficient		-1.39217	PF Power Coefficient		0.74623
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		8.4
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1901	-	-	56.4
Vehicle Results					
Average Speed, mi/h		56.4	Percent Followers, %		66.2
Segment Travel Time, minutes		0.38	Follower Density, followers/mi/ln		8.4
Vehicle LOS		D			
Segment 3					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		4699
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		716	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.42
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.5
Speed Slope Coefficient		3.88878	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.28725	PF Power Coefficient		0.76744
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		7.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4699	-	-	58.3
Vehicle Results					
Average Speed, mi/h		58.3	Percent Followers, %		63.1
Segment Travel Time, minutes		0.92	Follower Density, followers/mi/ln		7.7
Vehicle LOS		C			
Segment 4					
Vehicle Inputs					
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Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		836	Opposing Demand Flow Rate, veh/h		718
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.49
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		60.4
Speed Slope Coefficient		4.55177	Speed Power Coefficient		0.51654
PF Slope Coefficient		-1.39017	PF Power Coefficient		0.76177
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		10.4
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1478	-	-	56.5
Vehicle Results					
Average Speed, mi/h		56.5	Percent Followers, %		70.3
Segment Travel Time, minutes		0.30	Follower Density, followers/mi/ln		10.4
Vehicle LOS		D			
Segment 5					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1584
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		836	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.49
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.87788	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.36001	PF Power Coefficient		0.74819
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		9.9
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1584	-	-	58.7
Vehicle Results					
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Segment Travel Time, minutes		0.31	Follower Density, followers/mi/ln		9.9
Vehicle LOS		D			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2957
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		836	Opposing Demand Flow Rate, veh/h		718
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.49
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.77476	Speed Power Coefficient		0.45802
PF Slope Coefficient		-1.29463	PF Power Coefficient		0.78675
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		9.6
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2957	-	-	58.8
Vehicle Results					
Average Speed, mi/h		58.8	Percent Followers, %		67.5
Segment Travel Time, minutes		0.57	Follower Density, followers/mi/ln		9.6
Vehicle LOS		D			
Segment 7					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1742
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		836	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.49
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.88062	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.35222	PF Power Coefficient		0.75074
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		9.9
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Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1742	-	-	58.7
Vehicle Results					
Average Speed, mi/h		58.7	Percent Followers, %		69.4
Segment Travel Time, minutes		0.34	Follower Density, followers/mi/ln		9.9
Vehicle LOS		D			
Segment 8					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		3274
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		6.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		836	Opposing Demand Flow Rate, veh/h		718
Peak Hour Factor		0.96	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.49
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.4
Speed Slope Coefficient		3.69070	Speed Power Coefficient		0.45802
PF Slope Coefficient		-1.29863	PF Power Coefficient		0.78450
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		9.9
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3274	-	-	57.2
Vehicle Results					
Average Speed, mi/h		57.2	Percent Followers, %		67.7
Segment Travel Time, minutes		0.65	Follower Density, followers/mi/ln		9.9
Vehicle LOS		D			
Segment 9					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		8448
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		5.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		878	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.52

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	60.8
Speed Slope Coefficient	3.88393	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28453	PF Power Coefficient	0.75263
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	10.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	8448	-	-	57.3

Vehicle Results			
Average Speed, mi/h	57.3	Percent Followers, %	68.8
Segment Travel Time, minutes	1.67	Follower Density, followers/mi/ln	10.5
Vehicle LOS	D		

Segment 10

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	1690
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.1

Demand and Capacity			
Directional Demand Flow Rate, veh/h	878	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	18.89
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.52

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	60.3
Speed Slope Coefficient	4.84700	Speed Power Coefficient	0.46818
PF Slope Coefficient	-1.44879	PF Power Coefficient	0.73693
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	11.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690	-	-	56.0

Vehicle Results			
Average Speed, mi/h	56.0	Percent Followers, %	73.2
Segment Travel Time, minutes	0.34	Follower Density, followers/mi/ln	11.5
Vehicle LOS	D		

Segment 11

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	7550
			6

Speed Limit, mi/h		55	Access Point Density, pts/mi		5.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1045	Opposing Demand Flow Rate, veh/h		895
Peak Hour Factor		0.94	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.61
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.7
Speed Slope Coefficient		3.77727	Speed Power Coefficient		0.44391
PF Slope Coefficient		-1.27404	PF Power Coefficient		0.77462
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		13.4
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7550	-	-	57.0
Vehicle Results					
Average Speed, mi/h		57.0	Percent Followers, %		73.2
Segment Travel Time, minutes		1.51	Follower Density, followers/mi/ln		13.4
Vehicle LOS		E			
Segment 12					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1690
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1045	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.61
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.87973	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.35470	PF Power Coefficient		0.74993
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		13.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690	-	-	58.3
Vehicle Results					
Average Speed, mi/h		58.3	Percent Followers, %		75.3

Vehicle LOS		E			
Segment 13					
Vehicle Inputs					
Segment Type		Passing Lanes		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1045		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.94		Total Trucks, %	
Segment Capacity, veh/h		1300		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		7.24671		Speed Power Coefficient	
PF Slope Coefficient		-1.19239		PF Power Coefficient	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	
%Improved % Followers		0.0		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3538	-	-	55.2
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		536		508	
Percentage of Heavy Vehicles (HV%), %		7.56		30.85	
Initial Average Speed (Sint), mi/h		59.5		57.9	
Average Speed at Midpoint (SPLmid), mi/h		61.6		55.8	
Percent Followers at Midpoint (PFPLmid), %		52.4		49.6	
Vehicle Results					
Average Speed, mi/h		55.2		Percent Followers, %	
Segment Travel Time, minutes		0.73		Follower Density, followers/mi/ln	
Vehicle LOS		E			
Segment 14					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1024		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.92		Total Trucks, %	
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				0.60	

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.2
Speed Slope Coefficient	3.88164	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28179	PF Power Coefficient	0.76506
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	13.0
%Improved % Followers	14.8	% Improved Avg Speed	1.5

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1848	-	-	57.4
2	Horizontal Curve	3221	2292	2	57.4
3	Tangent	53	-	-	57.4
4	Horizontal Curve	792	2292	2	57.4

Vehicle Results			
Average Speed, mi/h	58.3	Percent Followers, %	72.9
Segment Travel Time, minutes	1.15	Follower Density, followers/mi/ln	10.9
Vehicle LOS	D		

Segment 15

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1478
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	7.1

Demand and Capacity			
Directional Demand Flow Rate, veh/h	1024	Opposing Demand Flow Rate, veh/h	873
Peak Hour Factor	0.92	Total Trucks, %	18.89
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.60

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	60.3
Speed Slope Coefficient	3.68453	Speed Power Coefficient	0.44545
PF Slope Coefficient	-1.37064	PF Power Coefficient	0.76002
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	13.6
%Improved % Followers	13.5	% Improved Avg Speed	1.3

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	2292	2	56.7
2	Tangent	1056	-	-	56.7

Vehicle Results			
Average Speed, mi/h	57.5	Percent Followers, %	75.2
Segment Travel Time, minutes	0.29	Follower Density, followers/mi/ln	11.6
Vehicle LOS	D		

Segment 16					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1373
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1024	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.60
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.1
Speed Slope Coefficient		3.82250	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.38089	PF Power Coefficient		0.74223
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		13.5
%Improved % Followers		12.5	% Improved Avg Speed		1.1
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1373	-	-	57.4
Vehicle Results					
Average Speed, mi/h		58.0	Percent Followers, %		75.5
Segment Travel Time, minutes		0.27	Follower Density, followers/mi/ln		11.7
Vehicle LOS		D			
Segment 17					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		2429
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1259	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.98	Total Trucks, %		18.89
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.74
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		60.5
Speed Slope Coefficient		5.02643	Speed Power Coefficient		0.47285
PF Slope Coefficient		-1.39087	PF Power Coefficient		0.74660
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		18.5
%Improved % Followers		8.6	% Improved Avg Speed		0.0
Subsegment Data					

1	Tangent	1320	-	-	55.1
2	Horizontal Curve	581	1432	2	55.1
3	Horizontal Curve	475	1432	2	55.1
4	Tangent	53	-	-	55.1

Vehicle Results

Average Speed, mi/h	55.1	Percent Followers, %	80.8
Segment Travel Time, minutes	0.50	Follower Density, followers/mi/ln	16.9
Vehicle LOS	E		

Segment 18

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3485
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	35	Access Point Density, pts/mi	1.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	1259	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.98	Total Trucks, %	18.89
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.74

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	38.9
Speed Slope Coefficient	4.05523	Speed Power Coefficient	0.45092
PF Slope Coefficient	-1.51812	PF Power Coefficient	0.68351
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	30.3
%Improved % Followers	6.7	% Improved Avg Speed	0.0

Subsegment Data

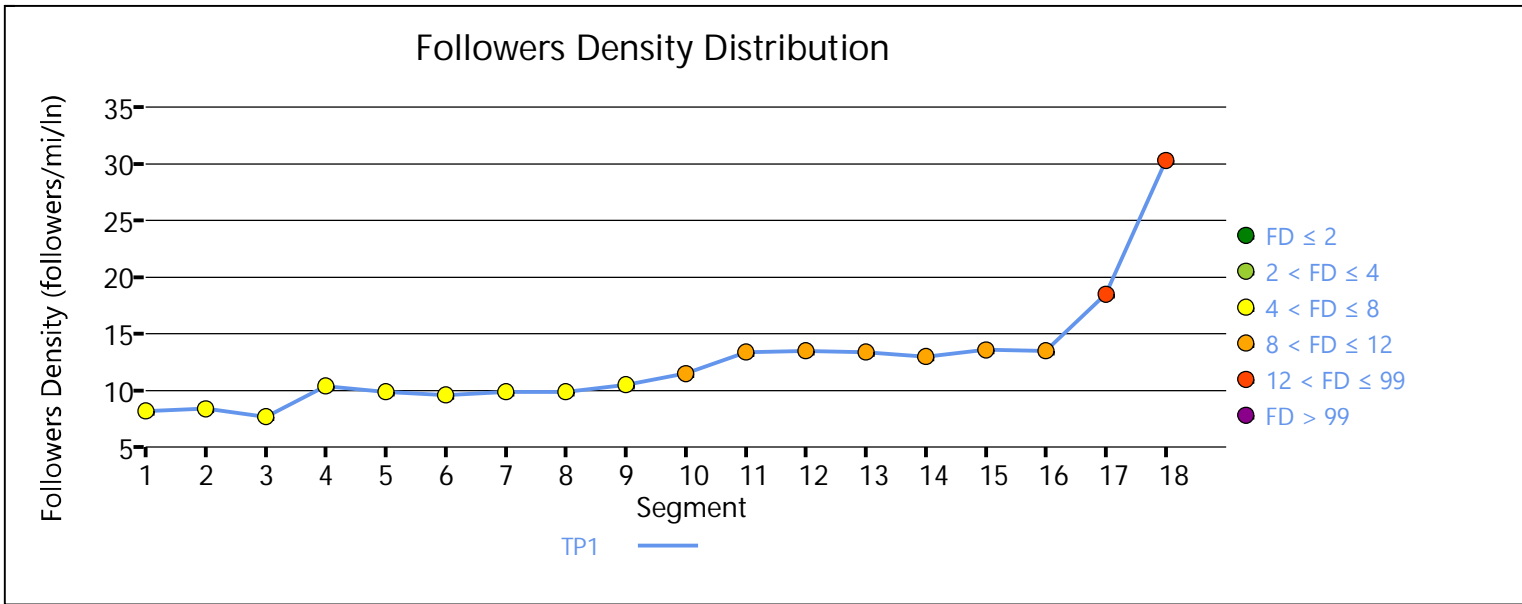
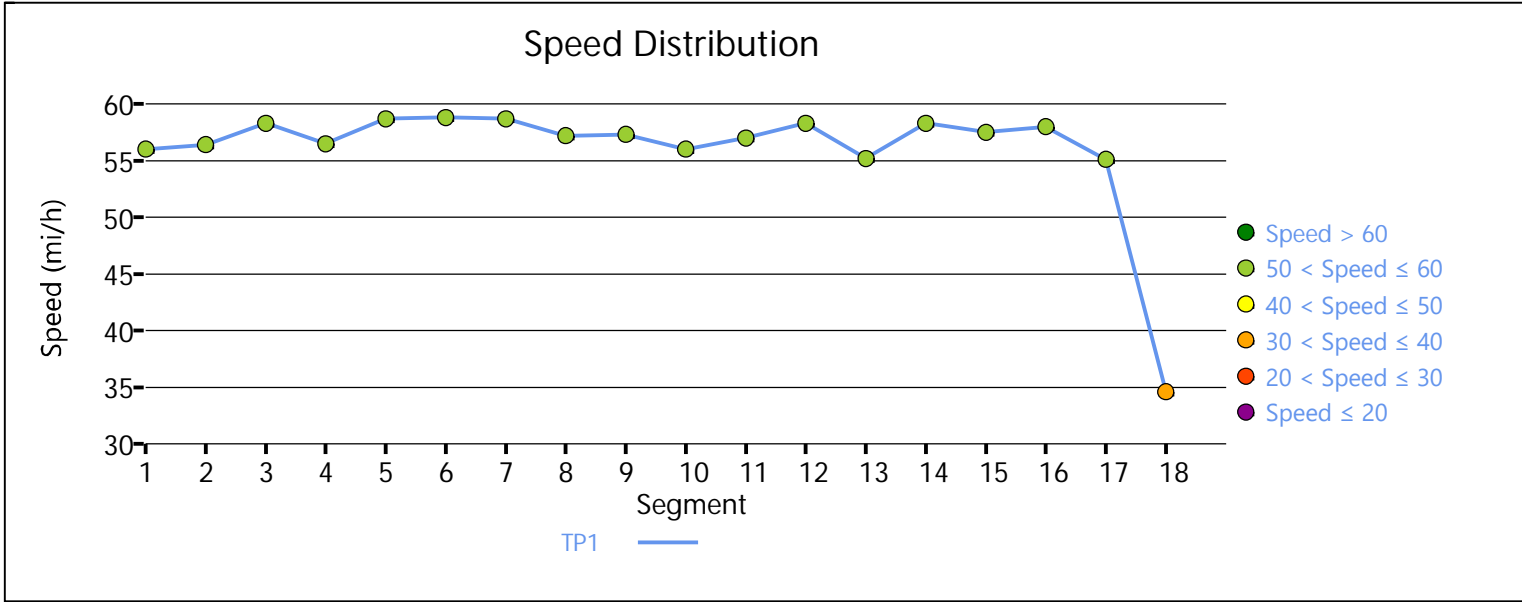
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3485	-	-	34.6

Vehicle Results

Average Speed, mi/h	34.6	Percent Followers, %	83.1
Segment Travel Time, minutes	1.15	Follower Density, followers/mi/ln	28.2
Vehicle LOS	E		

Facility Results

T	Follower Density, followers/mi/ln	LOS
1	11.8	D



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/27/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Bandon north UGB to US 101/OR 42 junction		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	11458
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		733		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.97		Total Trucks, %	7.70
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.43
Intermediate Results					
Segment Vertical Class		4		Free-Flow Speed, mi/h	60.1
Speed Slope Coefficient		11.19658		Speed Power Coefficient	0.40379
PF Slope Coefficient		-1.96698		PF Power Coefficient	0.75522
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	11.4
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3749	-	-	50.8
2	Horizontal Curve	1056	1910	2	50.8
3	Tangent	6653	-	-	50.8
Vehicle Results					
Average Speed, mi/h		50.8		Percent Followers, %	78.9
Segment Travel Time, minutes		2.56		Follower Density, followers/mi/ln	11.4
Vehicle LOS		D			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Zone		Length, ft	3749
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	14.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		764		Opposing Demand Flow Rate, veh/h	724
					7.70
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Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.45
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		58.4
Speed Slope Coefficient		3.45632	Speed Power Coefficient		0.49936
PF Slope Coefficient		-1.30991	PF Power Coefficient		0.76850
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		9.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3749	-	-	55.6
Vehicle Results					
Average Speed, mi/h		55.6	Percent Followers, %		65.5
Segment Travel Time, minutes		0.77	Follower Density, followers/mi/ln		9.0
Vehicle LOS		D			
Segment 3					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2482
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		7.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		764	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.89	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.45
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.7
Speed Slope Coefficient		3.81606	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.33814	PF Power Coefficient		0.75470
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		8.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2482	-	-	57.5
Vehicle Results					
Average Speed, mi/h		57.5	Percent Followers, %		66.5
Segment Travel Time, minutes		0.49	Follower Density, followers/mi/ln		8.8
Vehicle LOS		D			
Segment 4					
Vehicle Inputs					
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Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		764	Opposing Demand Flow Rate, veh/h		724
Peak Hour Factor		0.89	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.45
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.4
Speed Slope Coefficient		3.78251	Speed Power Coefficient		0.45748
PF Slope Coefficient		-1.32317	PF Power Coefficient		0.77663
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		8.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2006	-	-	59.3
Vehicle Results					
Average Speed, mi/h		59.3	Percent Followers, %		65.8
Segment Travel Time, minutes		0.38	Follower Density, followers/mi/ln		8.5
Vehicle LOS		D			
Segment 5					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3326
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.4
Demand and Capacity					
Directional Demand Flow Rate, veh/h		764	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.89	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.45
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.6
Speed Slope Coefficient		3.87731	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.30825	PF Power Coefficient		0.76274
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		8.6
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3326	-	-	58.3
Vehicle Results					
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Segment Travel Time, minutes		0.65	Follower Density, followers/mi/ln		8.6
Vehicle LOS		D			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		4858
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		764	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.89	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.45
Intermediate Results					
Segment Vertical Class		4	Free-Flow Speed, mi/h		60.1
Speed Slope Coefficient		9.45901	Speed Power Coefficient		0.56714
PF Slope Coefficient		-1.65922	PF Power Coefficient		0.75272
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		10.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3168	-	-	52.6
2	Horizontal Curve	1690	955	2	52.6
Vehicle Results					
Average Speed, mi/h		52.6	Percent Followers, %		74.2
Segment Travel Time, minutes		1.05	Follower Density, followers/mi/ln		10.8
Vehicle LOS		D			
Segment 7					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		4119
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.3
Demand and Capacity					
Directional Demand Flow Rate, veh/h		764	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.89	Total Trucks, %		7.70
Segment Capacity, veh/h		1400	Demand/Capacity (D/C)		0.55
Intermediate Results					
Segment Vertical Class		5	Free-Flow Speed, mi/h		60.0
Speed Slope Coefficient		9.76952	Speed Power Coefficient		1.02347
PF Slope Coefficient		-1.01573	PF Power Coefficient		0.83248
			Density, veh/mi/ln		8.0

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%Improved % Followers	0.0	% Improved Avg Speed	0.0
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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	792	-	-	53.6
2	Horizontal Curve	1373	955	2	52.6
3	Tangent	106	-	-	53.6
4	Horizontal Curve	1848	1910	2	53.6

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	436	328
Percentage of Heavy Vehicles (HV%), %	3.08	13.84
Initial Average Speed (Sint), mi/h	59.5	55.4
Average Speed at Midpoint (SPLmid), mi/h	61.2	53.7
Percent Followers at Midpoint (PFPLmid), %	41.2	31.7

Vehicle Results

Average Speed, mi/h	53.3	Percent Followers, %	55.6
Segment Travel Time, minutes	0.88	Follower Density, followers/mi/ln	8.0
Vehicle LOS	C		

Segment 8

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	3591
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.8

Demand and Capacity

Directional Demand Flow Rate, veh/h	764	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.70
Segment Capacity, veh/h	1500	Demand/Capacity (D/C)	0.51

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	60.2
Speed Slope Coefficient	7.04578	Speed Power Coefficient	0.95917
PF Slope Coefficient	-1.07485	PF Power Coefficient	0.85510
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	7.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	634	-	-	55.4
2	Horizontal Curve	2957	2292	2	55.4

Passing Lane Results

	Faster Lane	Slower Lane
		328

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Percentage of Heavy Vehicles (HV%), %	3.08	13.84
Initial Average Speed (Sint), mi/h	59.1	56.9
Average Speed at Midpoint (SPLmid), mi/h	60.9	55.2
Percent Followers at Midpoint (PFPLmid), %	44.2	34.4

Vehicle Results

Average Speed, mi/h	55.4	Percent Followers, %	57.4
Segment Travel Time, minutes	0.74	Follower Density, followers/mi/ln	7.9
Vehicle LOS	C		

Segment 9

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	7234
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	5.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	764	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.70
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.45

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.0
Speed Slope Coefficient	3.88628	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28166	PF Power Coefficient	0.75825
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	8.6
%Improved % Followers	14.3	% Improved Avg Speed	0.6

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4066	-	-	57.8
2	Horizontal Curve	1584	1432	2	57.8
3	Tangent	1584	-	-	57.8

Vehicle Results

Average Speed, mi/h	58.1	Percent Followers, %	64.8
Segment Travel Time, minutes	1.41	Follower Density, followers/mi/ln	7.3
Vehicle LOS	C		

Segment 10

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	7920
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.0

Demand and Capacity

		id Flow Rate, veh/h	-
--	--	---------------------	---

Peak Hour Factor		0.89	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.45
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		61.4
Speed Slope Coefficient		4.90556	Speed Power Coefficient		0.48525
PF Slope Coefficient		-1.32529	PF Power Coefficient		0.74255
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		8.8
%Improved % Followers		9.5	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-	-	57.4
2	Horizontal Curve	2112	2292	2	57.4
3	Tangent	5227	-	-	57.4
Vehicle Results					
Average Speed, mi/h		57.4	Percent Followers, %		66.2
Segment Travel Time, minutes		1.57	Follower Density, followers/mi/ln		8.0
Vehicle LOS		C			
Segment 11					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		4594
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		18.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		587
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		57.5
Speed Slope Coefficient		3.21762	Speed Power Coefficient		0.51423
PF Slope Coefficient		-1.28002	PF Power Coefficient		0.77453
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		6.4
%Improved % Followers		9.1	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4594	-	-	55.2
Vehicle Results					
Average Speed, mi/h		55.2	Percent Followers, %		58.2
Segment Travel Time, minutes		0.94	Follower Density, followers/mi/ln		5.8
Vehicle LOS		C			

Segment 12					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		3274
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		587
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.73710	Speed Power Coefficient		0.47140
PF Slope Coefficient		-1.28136	PF Power Coefficient		0.79134
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		6.0
%Improved % Followers		8.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3274	-	-	59.1
Vehicle Results					
Average Speed, mi/h		59.1	Percent Followers, %		58.0
Segment Travel Time, minutes		0.63	Follower Density, followers/mi/ln		5.5
Vehicle LOS		C			
Segment 13					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1373
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.4
Speed Slope Coefficient		3.89419	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.36947	PF Power Coefficient		0.74352
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		6.8
%Improved % Followers		7.5	% Improved Avg Speed		0.0
Subsegment Data					

1	Tangent	475	-	-	59.5
2	Horizontal Curve	898	955	2	52.8

Vehicle Results

Average Speed, mi/h	55.1	Percent Followers, %	61.3
Segment Travel Time, minutes	0.28	Follower Density, followers/mi/ln	6.3
Vehicle LOS	C		

Segment 14

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4014
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	610	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.97	Total Trucks, %	7.70
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.36

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	60.6
Speed Slope Coefficient	7.37128	Speed Power Coefficient	0.61404
PF Slope Coefficient	-1.35407	PF Power Coefficient	0.75269
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	6.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1162	955	2	52.8
2	Tangent	370	-	-	55.7
3	Horizontal Curve	1584	1910	2	55.7
4	Tangent	898	-	-	55.7

Vehicle Results

Average Speed, mi/h	54.9	Percent Followers, %	60.7
Segment Travel Time, minutes	0.83	Follower Density, followers/mi/ln	6.8
Vehicle LOS	C		

Segment 15

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5016
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	610	Opposing Demand Flow Rate, veh/h	-
			7.70

Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		5	Free-Flow Speed, mi/h		59.3
Speed Slope Coefficient		13.78285	Speed Power Coefficient		0.55070
PF Slope Coefficient		-1.88380	PF Power Coefficient		0.81718
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		8.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5016	-	-	49.7
Vehicle Results					
Average Speed, mi/h		49.7	Percent Followers, %		71.6
Segment Travel Time, minutes		1.15	Follower Density, followers/mi/ln		8.8
Vehicle LOS		D			
Segment 16					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1531
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.87544	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.36445	PF Power Coefficient		0.74560
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.3
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1531	-	-	59.1
Vehicle Results					
Average Speed, mi/h		59.1	Percent Followers, %		61.1
Segment Travel Time, minutes		0.29	Follower Density, followers/mi/ln		6.3
Vehicle LOS		C			
Segment 17					
Vehicle Inputs					
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Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	610	Opposing Demand Flow Rate, veh/h	587
Peak Hour Factor	0.97	Total Trucks, %	7.70
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.36

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.4
Speed Slope Coefficient	3.76900	Speed Power Coefficient	0.47140
PF Slope Coefficient	-1.28280	PF Power Coefficient	0.79142
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	5.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3010	-	-	59.7

Vehicle Results

Average Speed, mi/h	59.7	Percent Followers, %	58.0
Segment Travel Time, minutes	0.57	Follower Density, followers/mi/ln	5.9
Vehicle LOS	C		

Segment 18

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3749
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	610	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.97	Total Trucks, %	7.70
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.36

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.4
Speed Slope Coefficient	3.92842	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.29273	PF Power Coefficient	0.76656
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	6.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

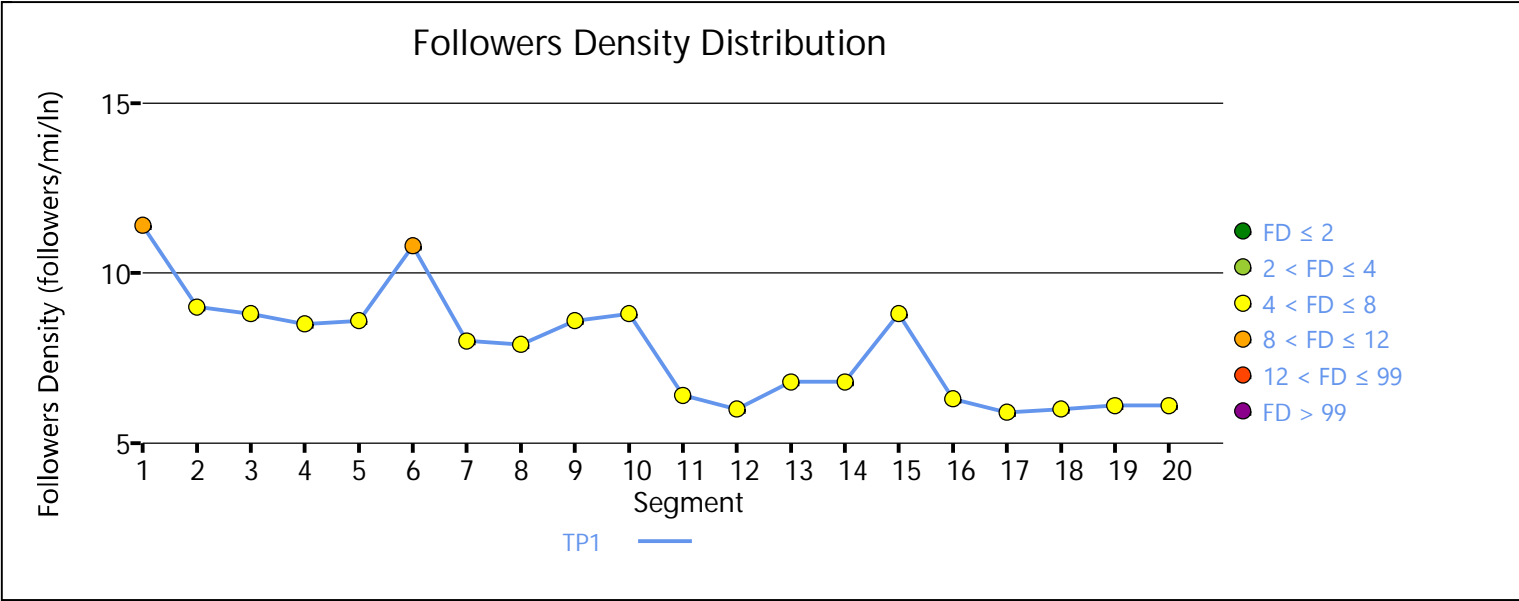
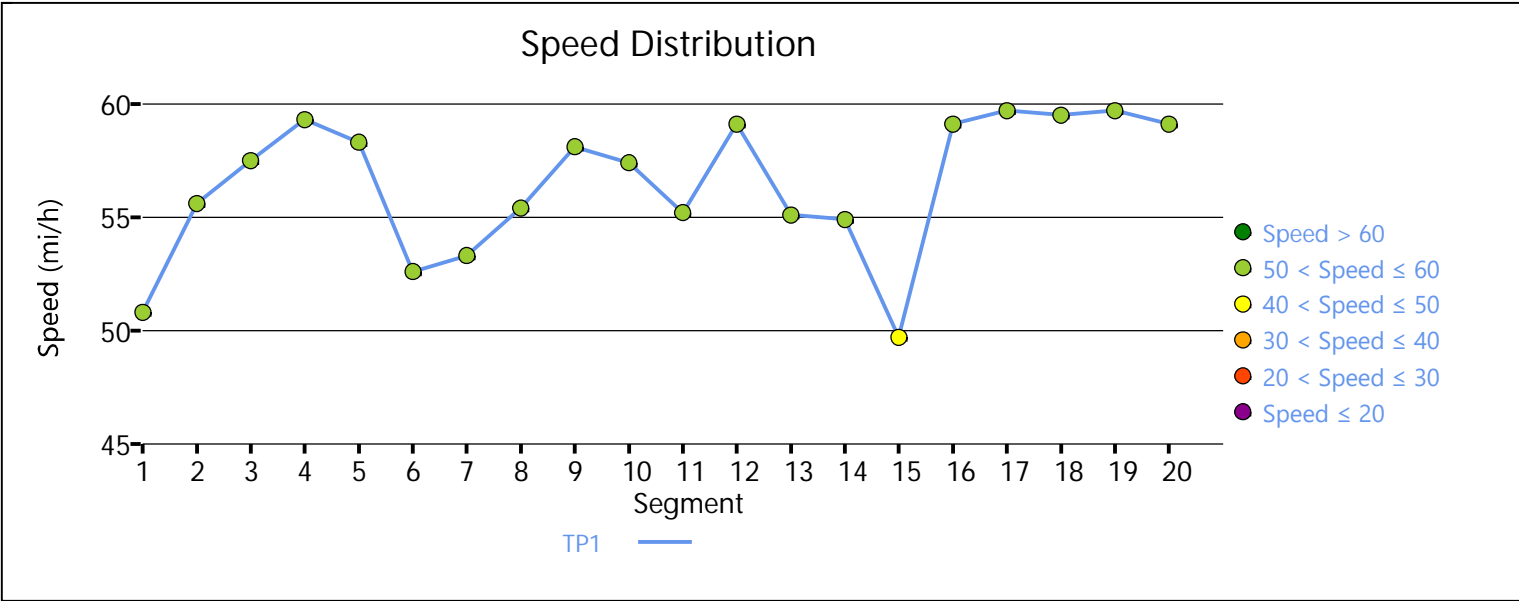
Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2957	2292	2	59.5
2	Tangent	792	-	-	59.5

Average Speed, mi/h		59.5	Percent Followers, %		58.7
Segment Travel Time, minutes		0.72	Follower Density, followers/mi/ln		6.0
Vehicle LOS		C			
Segment 19					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1426
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		587
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.4
Speed Slope Coefficient		3.74478	Speed Power Coefficient		0.47140
PF Slope Coefficient		-1.34057	PF Power Coefficient		0.77234
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.1
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1426	-	-	59.7
Vehicle Results					
Average Speed, mi/h		59.7	Percent Followers, %		60.0
Segment Travel Time, minutes		0.27	Follower Density, followers/mi/ln		6.1
Vehicle LOS		C			
Segment 20					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3802
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.4
Demand and Capacity					
Directional Demand Flow Rate, veh/h		610	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.36
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.1
Speed Slope Coefficient		3.91006	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.29505	PF Power Coefficient		0.76585
			ensity, veh/mi/ln		6.1

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%Improved % Followers		0.0		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	3802	-	-	59.1		
Vehicle Results							
Average Speed, mi/h		59.1		Percent Followers, %		58.8	
Segment Travel Time, minutes		0.73		Follower Density, followers/mi/ln		6.1	
Vehicle LOS		C					
Facility Results							
T		Follower Density, followers/mi/ln			LOS		
1		8.1			D		



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		US 101/OR 42 juntion to Bandon north UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		4805
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		587	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.35
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.2
Speed Slope Coefficient		3.92497	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.28177	PF Power Coefficient		0.76747
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4805	-	-	59.3
Vehicle Results					
Average Speed, mi/h		59.3	Percent Followers, %		57.3
Segment Travel Time, minutes		0.92	Follower Density, followers/mi/ln		5.7
Vehicle LOS		C			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1214
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		587	Opposing Demand Flow Rate, veh/h		610
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.35
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Segment Vertical Class	1	Free-Flow Speed, mi/h	62.4
Speed Slope Coefficient	3.74778	Speed Power Coefficient	0.46876
PF Slope Coefficient	-1.34875	PF Power Coefficient	0.76928
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	5.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1214	-	-	59.8

Vehicle Results

Average Speed, mi/h	59.8	Percent Followers, %	59.1
Segment Travel Time, minutes	0.23	Follower Density, followers/mi/ln	5.8
Vehicle LOS	C		

Segment 3

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2218
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	4.8

Demand and Capacity

Directional Demand Flow Rate, veh/h	587	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.97	Total Trucks, %	7.70
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.35

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.2
Speed Slope Coefficient	3.84337	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.34179	PF Power Coefficient	0.75342
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	6.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2218	2292	2	58.4

Vehicle Results

Average Speed, mi/h	58.4	Percent Followers, %	59.3
Segment Travel Time, minutes	0.43	Follower Density, followers/mi/ln	6.0
Vehicle LOS	C		

Segment 4

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2429
Lane Width, ft	12	Shoulder Width, ft	6
			0.0

Demand and Capacity					
Directional Demand Flow Rate, veh/h		587	Opposing Demand Flow Rate, veh/h		610
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.35
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.4
Speed Slope Coefficient		3.76612	Speed Power Coefficient		0.46876
PF Slope Coefficient		-1.30043	PF Power Coefficient		0.78570
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.6
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	739	2292	2	59.8
2	Tangent	1690	-	-	59.8
Vehicle Results					
Average Speed, mi/h		59.8	Percent Followers, %		57.5
Segment Travel Time, minutes		0.46	Follower Density, followers/mi/ln		5.6
Vehicle LOS		C			
Segment 5					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2904
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		587	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.35
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.89364	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.31419	PF Power Coefficient		0.76126
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		5.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2904	-	-	59.1
Vehicle Results					
Average Speed, mi/h		59.1	Percent Followers, %		58.3
			followers/mi/ln		5.8

Vehicle LOS		C			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft	7445	
Lane Width, ft		12	Shoulder Width, ft	6	
Speed Limit, mi/h		55	Access Point Density, pts/mi	1.4	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		587	Opposing Demand Flow Rate, veh/h	-	
Peak Hour Factor		0.97	Total Trucks, %	7.70	
Segment Capacity, veh/h		1400	Demand/Capacity (D/C)	0.42	
Intermediate Results					
Segment Vertical Class		5	Free-Flow Speed, mi/h	59.9	
Speed Slope Coefficient		12.09349	Speed Power Coefficient	1.13325	
PF Slope Coefficient		-0.93529	PF Power Coefficient	0.92154	
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln	4.7	
%Improved % Followers		0.0	% Improved Avg Speed	0.0	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5861	-	-	54.6
2	Horizontal Curve	1584	1910	2	54.6
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		345		242	
Percentage of Heavy Vehicles (HV%), %		3.08		14.30	
Initial Average Speed (Sint), mi/h		59.7		56.1	
Average Speed at Midpoint (SPLmid), mi/h		61.4		54.4	
Percent Followers at Midpoint (PFPLmid), %		31.0		20.6	
Vehicle Results					
Average Speed, mi/h		54.6	Percent Followers, %	43.6	
Segment Travel Time, minutes		1.55	Follower Density, followers/mi/ln	4.7	
Vehicle LOS		C			
Segment 7					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft	2693	
Lane Width, ft		12	Shoulder Width, ft	6	
Speed Limit, mi/h		55	Access Point Density, pts/mi	0.0	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		587	Opposing Demand Flow Rate, veh/h	-	
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Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.35
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		4.41005	Speed Power Coefficient		0.46880
PF Slope Coefficient		-1.38596	PF Power Coefficient		0.74309
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		6.4
%Improved % Followers		19.5	% Improved Avg Speed		2.4
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	686	1910	2	58.9
2	Tangent	370	-	-	58.9
3	Horizontal Curve	1637	955	2	52.8
Vehicle Results					
Average Speed, mi/h		56.5	Percent Followers, %		60.6
Segment Travel Time, minutes		0.54	Follower Density, followers/mi/ln		5.1
Vehicle LOS		C			
Segment 8					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		5438
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.9
Demand and Capacity					
Directional Demand Flow Rate, veh/h		587	Opposing Demand Flow Rate, veh/h		610
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.35
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		61.3
Speed Slope Coefficient		4.30103	Speed Power Coefficient		0.53678
PF Slope Coefficient		-1.25039	PF Power Coefficient		0.78602
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		5.7
%Improved % Followers		15.7	% Improved Avg Speed		1.6
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	955	2	52.8
2	Tangent	5016	-	-	58.4
Vehicle Results					
Average Speed, mi/h		58.9	Percent Followers, %		56.1
Segment Travel Time, minutes		1.05	Follower Density, followers/mi/ln		4.7
Vehicle LOS		C			

Segment 9					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1003
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		735	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.89	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.43
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.4
Speed Slope Coefficient		3.89316	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.37269	PF Power Coefficient		0.74245
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		8.2
%Improved % Followers		13.7	% Improved Avg Speed		0.7
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1003	-	-	59.2
Vehicle Results					
Average Speed, mi/h		59.6	Percent Followers, %		66.4
Segment Travel Time, minutes		0.19	Follower Density, followers/mi/ln		7.1
Vehicle LOS		C			
Segment 10					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2746
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		735	Opposing Demand Flow Rate, veh/h		764
Peak Hour Factor		0.89	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.43
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.5
Speed Slope Coefficient		3.74949	Speed Power Coefficient		0.45394
PF Slope Coefficient		-1.30813	PF Power Coefficient		0.78048
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		8.1
%Improved % Followers		12.3	% Improved Avg Speed		0.3
Subsegment Data					

1	Tangent	2746	-	-	58.4
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Vehicle Results

Average Speed, mi/h	58.6	Percent Followers, %	64.2
Segment Travel Time, minutes	0.53	Follower Density, followers/mi/ln	7.1
Vehicle LOS	C		

Segment 11

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1056
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	735	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.70
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.43

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.4
Speed Slope Coefficient	3.89316	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.37269	PF Power Coefficient	0.74245
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	8.2
%Improved % Followers	11.9	% Improved Avg Speed	0.1

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1056	-	-	59.2

Vehicle Results

Average Speed, mi/h	59.3	Percent Followers, %	66.4
Segment Travel Time, minutes	0.20	Follower Density, followers/mi/ln	7.3
Vehicle LOS	C		

Segment 12

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	5175
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	735	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.70
Segment Capacity, veh/h	1500	Demand/Capacity (D/C)	0.49

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	61.9
		fficient	1.01950

PF Slope Coefficient	-1.09316	PF Power Coefficient	0.85272
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	7.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3749	-	-	58.0
2	Horizontal Curve	1426	2292	2	58.0

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	421	313
Percentage of Heavy Vehicles (HV%), %	3.08	13.91
Initial Average Speed (Sint), mi/h	60.5	60.0
Average Speed at Midpoint (SPLmid), mi/h	62.2	58.3
Percent Followers at Midpoint (PFPLmid), %	43.2	32.5

Vehicle Results

Average Speed, mi/h	58.0	Percent Followers, %	56.9
Segment Travel Time, minutes	1.01	Follower Density, followers/mi/ln	7.2
Vehicle LOS	C		

Segment 13

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	8712
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	735	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.70
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.43

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	3.93324	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27925	PF Power Coefficient	0.75159
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	8.0
%Improved % Followers	14.8	% Improved Avg Speed	1.6

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	686	2292	2	58.4
2	Tangent	2165	-	-	58.4
3	Horizontal Curve	1584	1432	2	58.4
4	Tangent	4277	-	-	58.4

Average Speed, mi/h	59.4	Percent Followers, %	63.8		
Segment Travel Time, minutes	1.67	Follower Density, followers/mi/ln	6.7		
Vehicle LOS	C				
Segment 14					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	3380		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.6		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	735	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.89	Total Trucks, %	7.70		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.43		
Intermediate Results					
Segment Vertical Class	3	Free-Flow Speed, mi/h	60.8		
Speed Slope Coefficient	7.19020	Speed Power Coefficient	0.60950		
PF Slope Coefficient	-1.36016	PF Power Coefficient	0.75422		
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	8.8		
%Improved % Followers	12.9	% Improved Avg Speed	1.1		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2746	2292	2	55.4
2	Tangent	634	-	-	55.4
Vehicle Results					
Average Speed, mi/h	56.0	Percent Followers, %	66.0		
Segment Travel Time, minutes	0.69	Follower Density, followers/mi/ln	7.5		
Vehicle LOS	C				
Segment 15					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	5809		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.8		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	735	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.89	Total Trucks, %	7.70		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.43		
Intermediate Results					
Segment Vertical Class	5	Free-Flow Speed, mi/h	58.6		
Speed Slope Coefficient	14.17492	Speed Power Coefficient	0.51110		
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In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	12.0
%Improved % Followers	10.3	% Improved Avg Speed	0.2

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1848	1910	2	47.3
2	Tangent	106	-	-	47.3
3	Horizontal Curve	1373	955	2	47.3
4	Tangent	792	-	-	47.3
5	Horizontal Curve	1690	955	2	47.3

Vehicle Results

Average Speed, mi/h	47.4	Percent Followers, %	77.5
Segment Travel Time, minutes	1.39	Follower Density, followers/mi/ln	10.8
Vehicle LOS	D		

Segment 16

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	2059
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	735	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.70
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.43

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	60.6
Speed Slope Coefficient	6.80542	Speed Power Coefficient	0.59922
PF Slope Coefficient	-1.38035	PF Power Coefficient	0.75245
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	8.8
%Improved % Followers	9.6	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-	-	55.4

Vehicle Results

Average Speed, mi/h	55.4	Percent Followers, %	66.5
Segment Travel Time, minutes	0.42	Follower Density, followers/mi/ln	8.0
Vehicle LOS	C		

Segment 17

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3485
			6

Speed Limit, mi/h		55		Access Point Density, pts/mi		1.5	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		735		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.89		Total Trucks, %		7.70	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.43	
Intermediate Results							
Segment Vertical Class		4		Free-Flow Speed, mi/h		59.8	
Speed Slope Coefficient		8.80775		Speed Power Coefficient		0.59912	
PF Slope Coefficient		-1.60976		PF Power Coefficient		0.72687	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln		10.0	
%Improved % Followers		8.4		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	3485	-	-	53.1		
Vehicle Results							
Average Speed, mi/h		53.1		Percent Followers, %		72.4	
Segment Travel Time, minutes		0.75		Follower Density, followers/mi/ln		9.2	
Vehicle LOS		D					
Segment 18							
Vehicle Inputs							
Segment Type		Passing Zone		Length, ft		1901	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		0.0	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		735		Opposing Demand Flow Rate, veh/h		764	
Peak Hour Factor		0.89		Total Trucks, %		7.70	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.43	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		62.4	
Speed Slope Coefficient		3.78851		Speed Power Coefficient		0.45394	
PF Slope Coefficient		-1.32979		PF Power Coefficient		0.77380	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln		8.0	
%Improved % Followers		7.9		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	1901	-	-	59.4		
Vehicle Results							
Average Speed, mi/h		59.4		Percent Followers, %		64.9	
				followers/mi/ln		7.4	

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Vehicle LOS		C			
Segment 19					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		735		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.89		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.83526		Speed Power Coefficient	
PF Slope Coefficient		-1.32915		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
%Improved % Followers		7.1		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2693	-	-	57.8
Vehicle Results					
Average Speed, mi/h		57.8		Percent Followers, %	
Segment Travel Time, minutes		0.53		Follower Density, followers/mi/ln	
Vehicle LOS		C			
Segment 20					
Vehicle Inputs					
Segment Type		Passing Zone		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		735		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.89		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.73168		Speed Power Coefficient	
PF Slope Coefficient		-1.29311		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
%Improved % Followers		6.2		% Improved Avg Speed	

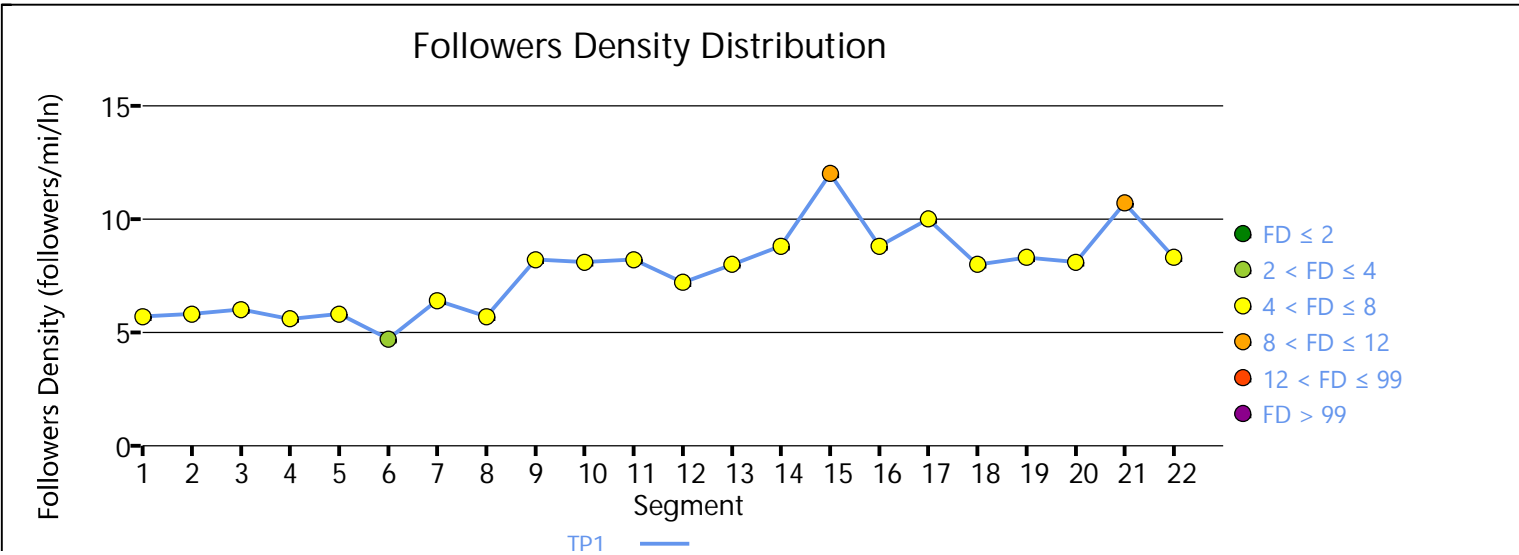
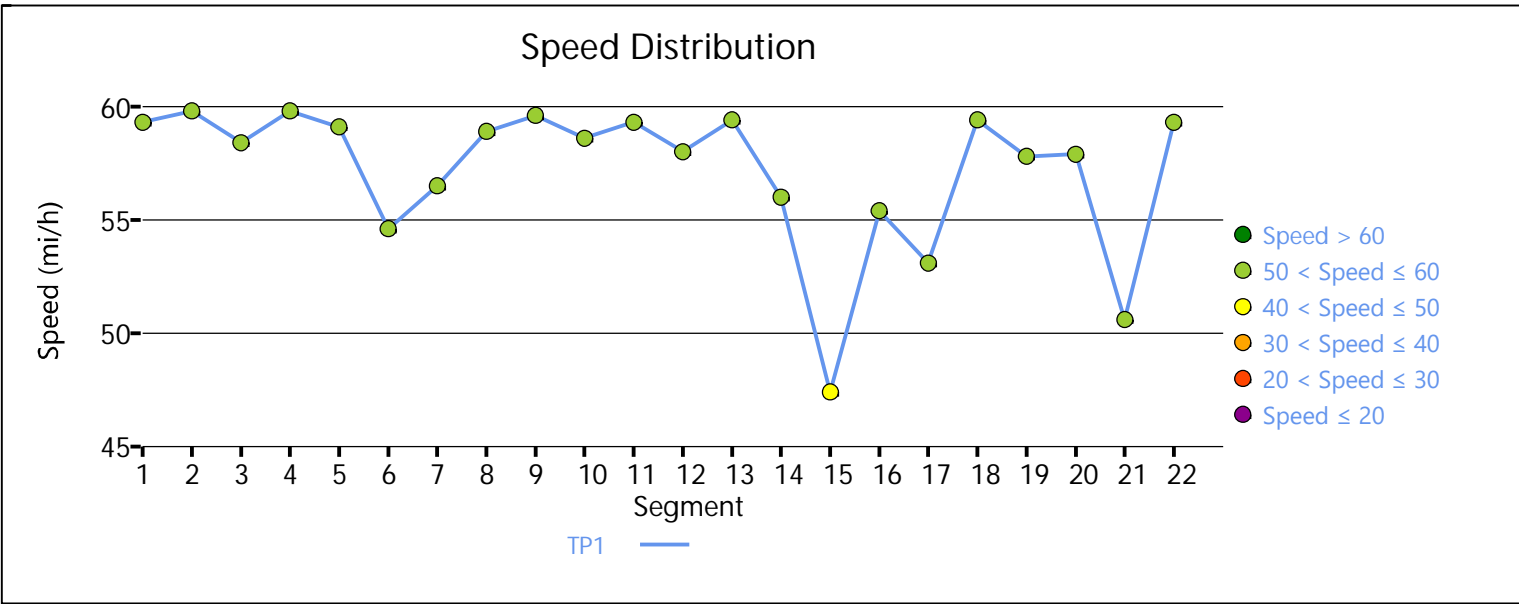
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3590	-	-	57.9
Vehicle Results					
Average Speed, mi/h		57.9	Percent Followers, %		63.8
Segment Travel Time, minutes		0.70	Follower Density, followers/mi/ln		7.6
Vehicle LOS		C			
Segment 21					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		10349
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		704	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.97	Total Trucks, %		7.70
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.41
Intermediate Results					
Segment Vertical Class		4	Free-Flow Speed, mi/h		58.9
Speed Slope Coefficient		10.31524	Speed Power Coefficient		0.42509
PF Slope Coefficient		-1.91262	PF Power Coefficient		0.76108
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		10.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7656	-	-	50.6
2	Horizontal Curve	1056	1910	2	50.6
3	Tangent	1637	-	-	50.6
Vehicle Results					
Average Speed, mi/h		50.6	Percent Followers, %		76.9
Segment Travel Time, minutes		2.32	Follower Density, followers/mi/ln		10.7
Vehicle LOS		D			
Segment 22					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2112
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		749	Opposing Demand Flow Rate, veh/h		811
Peak Hour Factor		0.97	Total Trucks, %		7.70
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Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.4
Speed Slope Coefficient	3.80059	Speed Power Coefficient	0.45007
PF Slope Coefficient	-1.32381	PF Power Coefficient	0.77494
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	8.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-	-	59.3

Vehicle Results			
Average Speed, mi/h	59.3	Percent Followers, %	65.3
Segment Travel Time, minutes	0.40	Follower Density, followers/mi/ln	8.3
Vehicle LOS	D		

Facility Results		
T	Follower Density, followers/mi/ln	LOS
1	7.3	C



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/27/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Port Orford north UGB to Bandon south UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	6020
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	12.9
Demand and Capacity					
Directional Demand Flow Rate, veh/h		402		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.95		Total Trucks, %	7.18
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.24
Intermediate Results					
Segment Vertical Class		4		Free-Flow Speed, mi/h	57.1
Speed Slope Coefficient		8.21304		Speed Power Coefficient	0.51902
PF Slope Coefficient		-1.71709		PF Power Coefficient	0.75838
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	4.4
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5650	-	-	52.7
2	Horizontal Curve	370	1910	2	52.7
Vehicle Results					
Average Speed, mi/h		52.7		Percent Followers, %	57.7
Segment Travel Time, minutes		1.30		Follower Density, followers/mi/ln	4.4
Vehicle LOS		C			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Lanes		Length, ft	4224
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	20.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		411		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.94		Total Trucks, %	7.18
				(D/C)	0.27
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Intermediate Results					
Segment Vertical Class		4	Free-Flow Speed, mi/h		56.2
Speed Slope Coefficient		5.66561	Speed Power Coefficient		1.02023
PF Slope Coefficient		-1.05987	PF Power Coefficient		0.84920
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		3.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	845	1910	2	54.5
2	Tangent	3379	-	-	54.5
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		251		160	
Percentage of Heavy Vehicles (HV%), %		2.87		13.94	
Initial Average Speed (S _{int}), mi/h		56.4		54.4	
Average Speed at Midpoint (S _{PLmid}), mi/h		58.0		52.8	
Percent Followers at Midpoint (PF _{PLmid}), %		30.4		19.9	
Vehicle Results					
Average Speed, mi/h		54.5	Percent Followers, %		39.2
Segment Travel Time, minutes		0.88	Follower Density, followers/mi/ln		3.0
Vehicle LOS		B			
Segment 3					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		5069
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.4
Demand and Capacity					
Directional Demand Flow Rate, veh/h		405	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		60.5
Speed Slope Coefficient		7.57296	Speed Power Coefficient		0.62051
PF Slope Coefficient		-1.35655	PF Power Coefficient		0.74785
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.6
%Improved % Followers		20.0	% Improved Avg Speed		2.9
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tanqent	5069	-	-	56.9

Vehicle Results			
Average Speed, mi/h	58.5	Percent Followers, %	49.9
Segment Travel Time, minutes	0.98	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 4

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1690
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.4

Demand and Capacity			
Directional Demand Flow Rate, veh/h	405	Opposing Demand Flow Rate, veh/h	405
Peak Hour Factor	0.95	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.1
Speed Slope Coefficient	3.68911	Speed Power Coefficient	0.49597
PF Slope Coefficient	-1.30962	PF Power Coefficient	0.78390
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.2
%Improved % Followers	18.5	% Improved Avg Speed	2.7

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690	-	-	60.1

Vehicle Results			
Average Speed, mi/h	61.7	Percent Followers, %	47.5
Segment Travel Time, minutes	0.31	Follower Density, followers/mi/ln	2.5
Vehicle LOS	B		

Segment 5

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	5069
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	405	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.95	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.5
Speed Slope Coefficient	3.94348	Speed Power Coefficient	0.41674
		ent	0.76806

In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.3
%Improved % Followers		15.2	% Improved Avg Speed		1.9
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1056	955	2	53.0
2	Tangent	845	-	-	60.1
3	Horizontal Curve	634	788	2	53.0
4	Tangent	2534	-	-	60.1
Vehicle Results					
Average Speed, mi/h		58.8	Percent Followers, %		47.2
Segment Travel Time, minutes		0.98	Follower Density, followers/mi/ln		2.8
Vehicle LOS		B			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1531
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		457	Opposing Demand Flow Rate, veh/h		422
Peak Hour Factor		0.95	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.27
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.2
Speed Slope Coefficient		3.69330	Speed Power Coefficient		0.49330
PF Slope Coefficient		-1.31933	PF Power Coefficient		0.78043
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.9
%Improved % Followers		13.9	% Improved Avg Speed		1.4
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1531	-	-	59.9
Vehicle Results					
Average Speed, mi/h		60.8	Percent Followers, %		51.1
Segment Travel Time, minutes		0.29	Follower Density, followers/mi/ln		3.3
Vehicle LOS		B			
Segment 7					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		10876
Lane Width, ft		12	Shoulder Width, ft		6
			Access Point Density, pts/mi		2.7

Demand and Capacity					
Directional Demand Flow Rate, veh/h		472	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.95375	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.29186	PF Power Coefficient		0.73539
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.3
%Improved % Followers		9.5	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5333	-	-	59.2
2	Horizontal Curve	264	2292	2	59.2
3	Tangent	739	-	-	59.2
4	Horizontal Curve	317	716	2	46.3
5	Tangent	634	-	-	59.2
6	Horizontal Curve	950	1637	2	59.1
7	Tangent	1214	-	-	59.2
8	Horizontal Curve	686	1146	2	52.9
9	Tangent	53	-	-	59.2
10	Horizontal Curve	686	1146	2	52.9
Vehicle Results					
Average Speed, mi/h		58.0	Percent Followers, %		52.5
Segment Travel Time, minutes		2.13	Follower Density, followers/mi/ln		3.9
Vehicle LOS		B			
Segment 8					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		2165
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		472	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.5
Speed Slope Coefficient		3.91541	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.31699	PF Power Coefficient		0.76030
			Density, veh/mi/ln		4.1

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%Improved % Followers		8.9		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	1426	-	-	59.9		
2	Horizontal Curve	317	1432	2	59.1		
3	Tangent	422	-	-	59.9		
Vehicle Results							
Average Speed, mi/h		59.8		Percent Followers, %		52.5	
Segment Travel Time, minutes		0.41		Follower Density, followers/mi/ln		3.8	
Vehicle LOS		B					
Segment 9							
Vehicle Inputs							
Segment Type		Passing Constrained		Length, ft		6759	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		1.1	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		472		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.92		Total Trucks, %		7.18	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.28	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		62.2	
Speed Slope Coefficient		3.94417		Speed Power Coefficient		0.41674	
PF Slope Coefficient		-1.27197		PF Power Coefficient		0.76323	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln		4.1	
%Improved % Followers		7.1		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	370	-	-	59.6		
2	Horizontal Curve	528	955	2	52.9		
3	Tangent	264	-	-	59.6		
4	Horizontal Curve	422	1910	2	59.1		
5	Tangent	1109	-	-	59.6		
6	Horizontal Curve	317	881	2	52.9		
7	Tangent	1901	-	-	59.6		
8	Horizontal Curve	317	1910	2	59.1		
9	Tangent	1531	-	-	59.6		
Vehicle Results							
Average Speed, mi/h		58.7		Percent Followers, %		51.2	
Segment Travel Time, minutes		1.31		Follower Density, followers/mi/ln		3.8	
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Segment 10					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		4646
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.7
Demand and Capacity					
Directional Demand Flow Rate, veh/h		472	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1500	Demand/Capacity (D/C)		0.31
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		5.83329	Speed Power Coefficient		0.91415
PF Slope Coefficient		-1.17880	PF Power Coefficient		0.84429
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		3.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4646	-	-	59.7
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		284		188	
Percentage of Heavy Vehicles (HV%), %		2.87		13.71	
Initial Average Speed (Sint), mi/h		61.0		61.1	
Average Speed at Midpoint (SPLmid), mi/h		62.7		59.5	
Percent Followers at Midpoint (PFPLmid), %		35.0		24.8	
Vehicle Results					
Average Speed, mi/h		59.7	Percent Followers, %		46.5
Segment Travel Time, minutes		0.88	Follower Density, followers/mi/ln		3.7
Vehicle LOS		B			
Segment 11					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1003
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		472	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.5
Speed Slope Coefficient	3.89410	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.37258	PF Power Coefficient	0.74241
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.3
%Improved % Followers	23.4	% Improved Avg Speed	2.6

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1003	-	-	59.9

Vehicle Results

Average Speed, mi/h	61.4	Percent Followers, %	54.4
Segment Travel Time, minutes	0.19	Follower Density, followers/mi/ln	3.2
Vehicle LOS	B		

Segment 12

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2798
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	25.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	472	Opposing Demand Flow Rate, veh/h	436
Peak Hour Factor	0.92	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.28

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	56.2
Speed Slope Coefficient	3.39375	Speed Power Coefficient	0.49119
PF Slope Coefficient	-1.30722	PF Power Coefficient	0.77973
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.5
%Improved % Followers	19.8	% Improved Avg Speed	2.1

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2798	-	-	54.1

Vehicle Results

Average Speed, mi/h	55.3	Percent Followers, %	51.7
Segment Travel Time, minutes	0.58	Follower Density, followers/mi/ln	3.5
Vehicle LOS	B		

Segment 13

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	581
Lane Width, ft	12	Shoulder Width, ft	6
			0.0

Demand and Capacity					
Directional Demand Flow Rate, veh/h		472	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.5
Speed Slope Coefficient		3.89410	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.37258	PF Power Coefficient		0.74241
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.3
%Improved % Followers		19.3	% Improved Avg Speed		2.1
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	264	-	-	59.9
2	Horizontal Curve	317	1910	2	59.1
Vehicle Results					
Average Speed, mi/h		60.7	Percent Followers, %		54.4
Segment Travel Time, minutes		0.11	Follower Density, followers/mi/ln		3.4
Vehicle LOS		B			
Segment 14					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		4858
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		40	Access Point Density, pts/mi		99.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		472	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		35.4
Speed Slope Coefficient		2.47253	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.39343	PF Power Coefficient		0.67872
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		7.9
%Improved % Followers		15.5	% Improved Avg Speed		1.3
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	792	1910	2	33.7
2	Tangent	4066	-	-	33.7
Vehicle Results					

Segment Travel Time, minutes		1.62	Follower Density, followers/mi/ln		6.6
Vehicle LOS		C			
Segment 15					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1531
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		472	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.5
Speed Slope Coefficient		3.89806	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.36046	PF Power Coefficient		0.74645
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.3
%Improved % Followers		14.6	% Improved Avg Speed		1.1
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	1432	2	59.1
2	Tangent	1109	-	-	59.9
Vehicle Results					
Average Speed, mi/h		60.3	Percent Followers, %		54.0
Segment Travel Time, minutes		0.29	Follower Density, followers/mi/ln		3.6
Vehicle LOS		B			
Segment 16					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1531
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		10.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		472	Opposing Demand Flow Rate, veh/h		436
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		59.8
Speed Slope Coefficient		3.57073	Speed Power Coefficient		0.49119
PF Slope Coefficient		-1.33558	PF Power Coefficient		0.77406
			ensity, veh/mi/ln		4.3

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%Improved % Followers		13.7		% Improved Avg Speed		0.9	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	1531	-	-	57.6		
Vehicle Results							
Average Speed, mi/h		58.1		Percent Followers, %		52.6	
Segment Travel Time, minutes		0.30		Follower Density, followers/mi/ln		3.7	
Vehicle LOS		B					
Segment 17							
Vehicle Inputs							
Segment Type		Passing Constrained		Length, ft		10876	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		0.8	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		472		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.92		Total Trucks, %		7.18	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.28	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		62.3	
Speed Slope Coefficient		3.97950		Speed Power Coefficient		0.41674	
PF Slope Coefficient		-1.28761		PF Power Coefficient		0.73661	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln		4.2	
%Improved % Followers		9.4		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	6072	-	-	59.6		
2	Horizontal Curve	317	955	2	52.9		
3	Tangent	106	-	-	59.6		
4	Horizontal Curve	264	9955	2	59.6		
5	Tangent	1320	-	-	59.6		
6	Horizontal Curve	158	573	2	46.3		
7	Tangent	792	-	-	59.6		
8	Horizontal Curve	211	955	2	52.9		
9	Tangent	1003	-	-	59.6		
10	Horizontal Curve	158	955	2	52.9		
11	Tangent	475	-	-	59.6		
Vehicle Results							
Average Speed, mi/h		59.0		Percent Followers, %		52.3	
Segment Travel Time, minutes		2.09		Follower Density, followers/mi/ln		3.8	
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Segment 18					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		2059
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		42.9
Demand and Capacity					
Directional Demand Flow Rate, veh/h		515	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.89	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.30
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		52.5
Speed Slope Coefficient		3.37341	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.39752	PF Power Coefficient		0.73487
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		5.9
%Improved % Followers		8.4	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-	-	50.1
Vehicle Results					
Average Speed, mi/h		50.1	Percent Followers, %		57.6
Segment Travel Time, minutes		0.47	Follower Density, followers/mi/ln		5.4
Vehicle LOS		C			
Segment 19					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		4858
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		6.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		515	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.89	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.30
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.9
Speed Slope Coefficient		3.85734	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.29243	PF Power Coefficient		0.76416
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.9
%Improved % Followers		7.0	% Improved Avg Speed		0.0
Subsegment Data					
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1	Tangent	1584	-	-	58.2
2	Horizontal Curve	106	573	2	46.3
3	Tangent	845	-	-	58.2
4	Horizontal Curve	264	716	2	46.3
5	Tangent	2059	-	-	58.2

Vehicle Results

Average Speed, mi/h	57.3	Percent Followers, %	54.1
Segment Travel Time, minutes	0.96	Follower Density, followers/mi/ln	4.5
Vehicle LOS	C		

Segment 20

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2429
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	515	Opposing Demand Flow Rate, veh/h	476
Peak Hour Factor	0.89	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.30

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	3.69658	Speed Power Coefficient	0.48529
PF Slope Coefficient	-1.29276	PF Power Coefficient	0.78936
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.6
%Improved % Followers	6.4	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2429	-	-	59.3

Vehicle Results

Average Speed, mi/h	59.3	Percent Followers, %	53.5
Segment Travel Time, minutes	0.47	Follower Density, followers/mi/ln	4.3
Vehicle LOS	C		

Segment 21

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6758
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.7

Demand and Capacity

Directional Demand Flow Rate, veh/h	501	Opposing Demand Flow Rate, veh/h	-
			7.18

Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.29
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Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.92248	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27550	PF Power Coefficient	0.76219
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.5
%Improved % Followers	5.1	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4541	-	-	59.1
2	Horizontal Curve	158	573	2	46.3
3	Tangent	1214	-	-	59.1
4	Horizontal Curve	264	1432	2	59.1
5	Tangent	581	-	-	59.1

Vehicle Results

Average Speed, mi/h	58.8	Percent Followers, %	52.9
Segment Travel Time, minutes	1.31	Follower Density, followers/mi/ln	4.3
Vehicle LOS	C		

Segment 22

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	2746
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	6.2

Demand and Capacity

Directional Demand Flow Rate, veh/h	501	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.93	Total Trucks, %	7.18
Segment Capacity, veh/h	1500	Demand/Capacity (D/C)	0.33

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	60.9
Speed Slope Coefficient	5.63146	Speed Power Coefficient	0.79859
PF Slope Coefficient	-1.31101	PF Power Coefficient	0.79135
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	370	-	-	58.2
2	Horizontal Curve	264	1432	2	58.2
3	Tangent	2112	-	-	58.2

Passing Lane Results

Flow Rate, veh/h	300	201
Percentage of Heavy Vehicles (HV%), %	2.87	13.61
Initial Average Speed (Sint), mi/h	59.6	59.7
Average Speed at Midpoint (SPLmid), mi/h	61.3	58.1
Percent Followers at Midpoint (PFPLmid), %	41.8	30.4

Vehicle Results

Average Speed, mi/h	58.2	Percent Followers, %	53.2
Segment Travel Time, minutes	0.54	Follower Density, followers/mi/ln	4.6
Vehicle LOS	C		

Segment 23

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	3749
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	21.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	501	Opposing Demand Flow Rate, veh/h	463
Peak Hour Factor	0.93	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.29

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient	3.45430	Speed Power Coefficient	0.48713
PF Slope Coefficient	-1.28726	PF Power Coefficient	0.78565
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.8
%Improved % Followers	20.2	% Improved Avg Speed	2.2

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3749	-	-	54.8

Vehicle Results

Average Speed, mi/h	56.0	Percent Followers, %	52.7
Segment Travel Time, minutes	0.76	Follower Density, followers/mi/ln	3.8
Vehicle LOS	B		

Segment 24

Vehicle Inputs

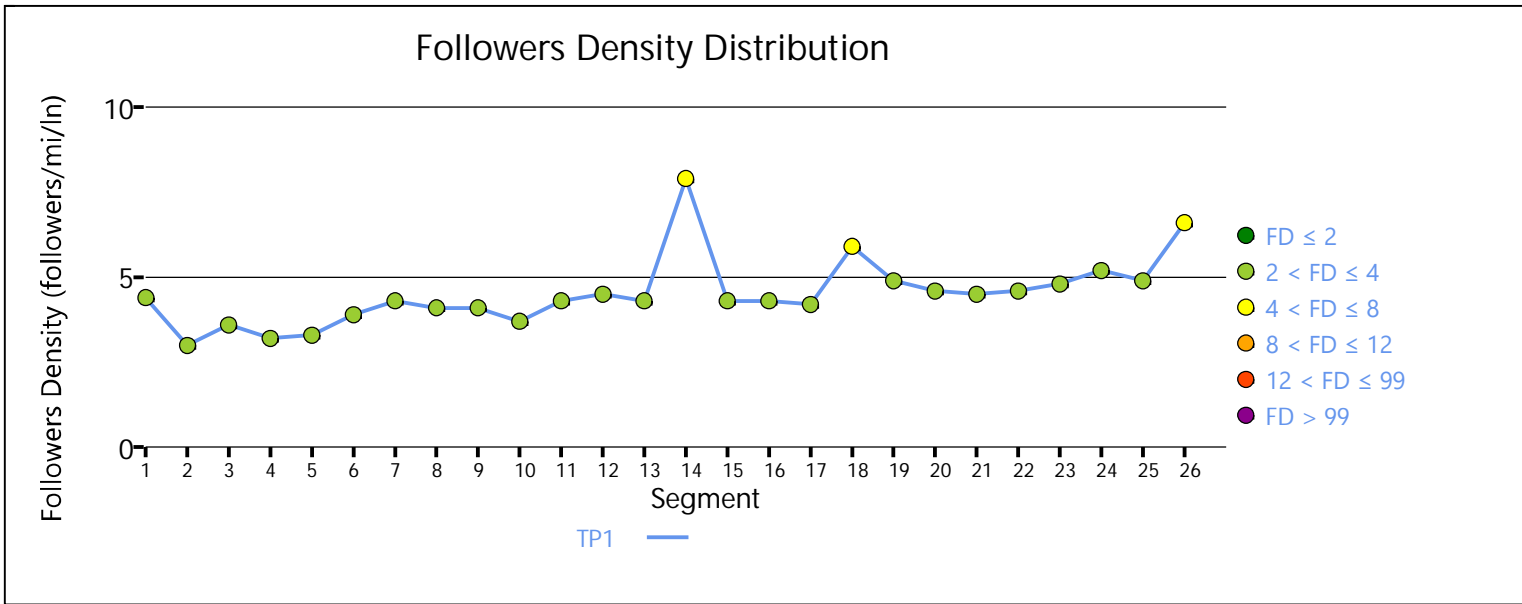
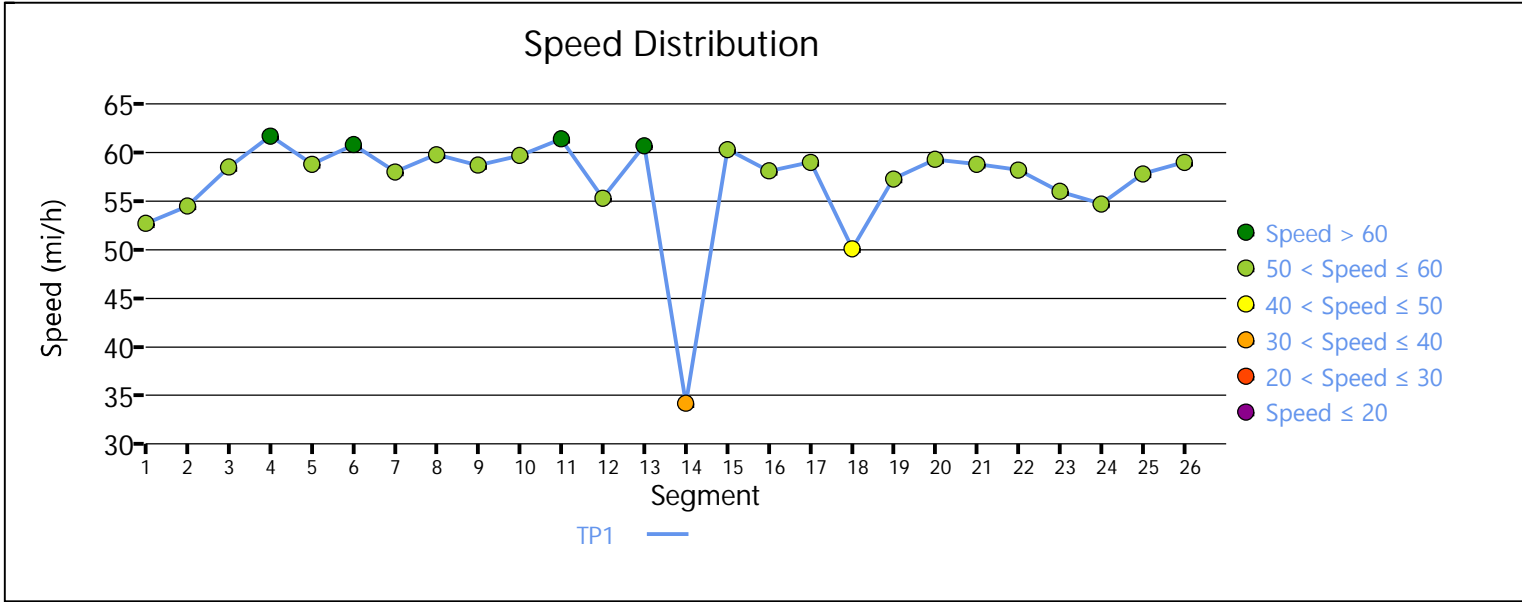
Segment Type	Passing Constrained	Length, ft	3221
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	50	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	501	Opposing Demand Flow Rate, veh/h	-
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Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.29
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		56.8
Speed Slope Coefficient		3.61408	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.35138	PF Power Coefficient		0.74994
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		5.2
%Improved % Followers		16.7	% Improved Avg Speed		1.7
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3115	-	-	54.3
2	Horizontal Curve	106	358	2	37.7
Vehicle Results					
Average Speed, mi/h		54.7	Percent Followers, %		55.3
Segment Travel Time, minutes		0.67	Follower Density, followers/mi/ln		4.2
Vehicle LOS		B			
Segment 25					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1478
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		501	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.93	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.29
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.5
Speed Slope Coefficient		3.89709	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.36334	PF Power Coefficient		0.74549
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.9
%Improved % Followers		15.4	% Improved Avg Speed		1.5
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-	-	59.8
2	Horizontal Curve	211	358	2	39.7
3	Tangent	686	-	-	59.8
Vehicle Results					
Average Speed, mi/h		57.8	Percent Followers, %		55.7
Segment Travel Time, minutes		0.29	Follower Density, followers/mi/ln		4.1
Vehicle LOS		C			

Segment 26					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		15575
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		628	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.37
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.5
Speed Slope Coefficient		4.01938	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.33984	PF Power Coefficient		0.69081
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		6.6
%Improved % Followers		6.5	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	158	716	2	46.2
2	Tangent	1478	-	-	59.4
3	Horizontal Curve	106	573	2	46.2
4	Tangent	317	-	-	59.4
5	Horizontal Curve	475	1432	2	58.8
6	Tangent	528	-	-	59.4
7	Horizontal Curve	211	716	2	46.2
8	Tangent	12302	-	-	59.4
Vehicle Results					
Average Speed, mi/h		59.0	Percent Followers, %		62.2
Segment Travel Time, minutes		3.00	Follower Density, followers/mi/ln		6.2
Vehicle LOS		C			
Facility Results					
T	Follower Density, followers/mi/ln			LOS	
1	4.2			C	



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Bandon south UGB to Port Orford north UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		15417
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		581	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.34
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.3
Speed Slope Coefficient		3.95344	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.34871	PF Power Coefficient		0.68967
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	12302	-	-	58.3
2	Horizontal Curve	211	716	2	46.3
3	Tangent	528	-	-	58.3
4	Horizontal Curve	475	1432	2	58.3
5	Tangent	317	-	-	58.3
6	Horizontal Curve	106	573	2	46.3
7	Tangent	1478	-	-	58.3
Vehicle Results					
Average Speed, mi/h		58.1	Percent Followers, %		60.4
Segment Travel Time, minutes		3.02	Follower Density, followers/mi/ln		6.0
Vehicle LOS		C			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1636
Lane Width, ft		12	Shoulder Width, ft		6
			Access Point Density, pts/mi		0.0

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Demand and Capacity					
Directional Demand Flow Rate, veh/h		581	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.34
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		61.3
Speed Slope Coefficient		6.29432	Speed Power Coefficient		0.59126
PF Slope Coefficient		-1.43299	PF Power Coefficient		0.74843
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		6.6
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	158	716	2	46.3
2	Tangent	686	-	-	57.3
3	Horizontal Curve	211	358	2	39.6
4	Tangent	581	-	-	57.3
Vehicle Results					
Average Speed, mi/h		53.9	Percent Followers, %		61.5
Segment Travel Time, minutes		0.34	Follower Density, followers/mi/ln		6.6
Vehicle LOS		C			
Segment 3					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3221
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		50	Access Point Density, pts/mi		8.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		463	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.93	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.27
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		54.7
Speed Slope Coefficient		3.50297	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.36673	PF Power Coefficient		0.74451
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		4.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	106	358	2	37.7
2	Tanqent	3115	-	-	52.4

Vehicle Results			
Average Speed, mi/h	51.9	Percent Followers, %	53.7
Segment Travel Time, minutes	0.70	Follower Density, followers/mi/ln	4.8
Vehicle LOS	B		

Segment 4

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	2376
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	13.3

Demand and Capacity			
Directional Demand Flow Rate, veh/h	463	Opposing Demand Flow Rate, veh/h	501
Peak Hour Factor	0.93	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.27

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	59.1
Speed Slope Coefficient	3.56203	Speed Power Coefficient	0.48193
PF Slope Coefficient	-1.31277	PF Power Coefficient	0.78112
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2376	-	-	56.9

Vehicle Results			
Average Speed, mi/h	56.9	Percent Followers, %	51.3
Segment Travel Time, minutes	0.47	Follower Density, followers/mi/ln	4.2
Vehicle LOS	C		

Segment 5

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	10137
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	4.2

Demand and Capacity			
Directional Demand Flow Rate, veh/h	463	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.93	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.27

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.4
Speed Slope Coefficient	3.92832	Speed Power Coefficient	0.41674
		ent	0.74047

In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3485	-	-	58.8
2	Horizontal Curve	264	1432	2	58.8
3	Tangent	950	-	-	58.8
4	Horizontal Curve	264	1432	2	58.8
5	Tangent	1214	-	-	58.8
6	Horizontal Curve	158	573	2	46.3
7	Tangent	3802	-	-	58.8

Vehicle Results

Average Speed, mi/h	58.6	Percent Followers, %	51.8
Segment Travel Time, minutes	1.96	Follower Density, followers/mi/ln	4.1
Vehicle LOS	C		

Segment 6

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2323
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	4.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	463	Opposing Demand Flow Rate, veh/h	501
Peak Hour Factor	0.93	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.27

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.3
Speed Slope Coefficient	3.68050	Speed Power Coefficient	0.48193
PF Slope Coefficient	-1.30122	PF Power Coefficient	0.78622
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2323	-	-	59.1

Vehicle Results

Average Speed, mi/h	59.1	Percent Followers, %	50.9
Segment Travel Time, minutes	0.45	Follower Density, followers/mi/ln	4.0
Vehicle LOS	B		

Segment 7

Segment Type	Passing Constrained	Length, ft	8079
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	4.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	476	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.28

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.3
Speed Slope Coefficient	3.90761	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28059	PF Power Coefficient	0.75442
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2904	-	-	58.7
2	Horizontal Curve	264	716	2	46.3
3	Tangent	845	-	-	58.7
4	Horizontal Curve	106	573	2	46.3
5	Tangent	3960	-	-	58.7

Vehicle Results

Average Speed, mi/h	58.1	Percent Followers, %	51.9
Segment Travel Time, minutes	1.58	Follower Density, followers/mi/ln	4.3
Vehicle LOS	C		

Segment 8

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	2480
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.1

Demand and Capacity

Directional Demand Flow Rate, veh/h	476	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.28

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.9
Speed Slope Coefficient	3.88696	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.32188	PF Power Coefficient	0.75904
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	158	-	-	59.3
2	Horizontal Curve	158	955	2	52.9
3	Tangent	1003	-	-	59.3
4	Horizontal Curve	211	955	2	52.9
5	Tangent	792	-	-	59.3
6	Horizontal Curve	158	573	2	46.3

Vehicle Results

Average Speed, mi/h	57.6	Percent Followers, %	52.9
Segment Travel Time, minutes	0.49	Follower Density, followers/mi/ln	4.4
Vehicle LOS	C		

Segment 9

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4911
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	476	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.89	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.28

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.5
Speed Slope Coefficient	3.94189	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27823	PF Power Coefficient	0.76813
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1320	-	-	59.8
2	Horizontal Curve	264	955	2	52.9
3	Tangent	106	-	-	59.8
4	Horizontal Curve	317	955	2	52.9
5	Tangent	2904	-	-	59.8

Vehicle Results

Average Speed, mi/h	59.0	Percent Followers, %	51.5
Segment Travel Time, minutes	0.95	Follower Density, followers/mi/ln	4.2
Vehicle LOS	C		

Segment 10

Vehicle Inputs

Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	476	Opposing Demand Flow Rate, veh/h	515
Peak Hour Factor	0.89	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.28

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.1
Speed Slope Coefficient	3.73961	Speed Power Coefficient	0.48015
PF Slope Coefficient	-1.26889	PF Power Coefficient	0.79609
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3485	-	-	59.7

Vehicle Results

Average Speed, mi/h	59.7	Percent Followers, %	50.5
Segment Travel Time, minutes	0.66	Follower Density, followers/mi/ln	4.0
Vehicle LOS	C		

Segment 11

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2745
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	50	Access Point Density, pts/mi	5.8

Demand and Capacity

Directional Demand Flow Rate, veh/h	436	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	55.3
Speed Slope Coefficient	3.52932	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.37455	PF Power Coefficient	0.74333
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2323	-	-	53.1
2	Horizontal Curve	422	1432	2	53.1

Average Speed, mi/h	53.1	Percent Followers, %	52.4		
Segment Travel Time, minutes	0.59	Follower Density, followers/mi/ln	4.3		
Vehicle LOS	B				
Segment 12					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	4541		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	19.8		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	436	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.92	Total Trucks, %	7.18		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	57.5		
Speed Slope Coefficient	3.66979	Speed Power Coefficient	0.41674		
PF Slope Coefficient	-1.32386	PF Power Coefficient	0.75524		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.0		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4066	-	-	55.2
2	Horizontal Curve	475	3000	0	55.2
Vehicle Results					
Average Speed, mi/h	55.2	Percent Followers, %	50.7		
Segment Travel Time, minutes	0.94	Follower Density, followers/mi/ln	4.0		
Vehicle LOS	C				
Segment 13					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	2482		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	436	Opposing Demand Flow Rate, veh/h	472		
Peak Hour Factor	0.92	Total Trucks, %	7.18		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.5		
Speed Slope Coefficient	3.73688	Speed Power Coefficient	0.48595		
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In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	317	1910	2	59.2
2	Horizontal Curve	317	1910	2	59.2
3	Tangent	1848	-	-	60.3

Vehicle Results

Average Speed, mi/h	60.0	Percent Followers, %	48.6
Segment Travel Time, minutes	0.47	Follower Density, followers/mi/ln	3.5
Vehicle LOS	B		

Segment 14

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2218
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	4.8

Demand and Capacity

Directional Demand Flow Rate, veh/h	436	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.3
Speed Slope Coefficient	3.84431	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.34170	PF Power Coefficient	0.75338
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2218	-	-	58.8

Vehicle Results

Average Speed, mi/h	58.8	Percent Followers, %	51.2
Segment Travel Time, minutes	0.43	Follower Density, followers/mi/ln	3.8
Vehicle LOS	B		

Segment 15

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	3062
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Directional Demand Flow Rate, veh/h	436	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	7.18
Segment Capacity, veh/h	1500	Demand/Capacity (D/C)	0.29

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.5
Speed Slope Coefficient	5.79327	Speed Power Coefficient	0.81022
PF Slope Coefficient	-1.27697	PF Power Coefficient	0.80408
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3062	-	-	60.1

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	265	171
Percentage of Heavy Vehicles (HV%), %	2.87	13.84
Initial Average Speed (Sint), mi/h	61.3	61.5
Average Speed at Midpoint (SPLmid), mi/h	63.0	59.9
Percent Followers at Midpoint (PFPLmid), %	37.4	26.2

Vehicle Results

Average Speed, mi/h	60.1	Percent Followers, %	48.1
Segment Travel Time, minutes	0.58	Follower Density, followers/mi/ln	3.5
Vehicle LOS	B		

Segment 16

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	11194
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	436	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.96673	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.29275	PF Power Coefficient	0.73317
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.8
%Improved % Followers	14.2	% Improved Avg Speed	1.2

Subsegment Data

1	Tangent	3115	-	-	59.5
2	Horizontal Curve	317	1910	2	59.2
3	Tangent	1901	-	-	59.5
4	Horizontal Curve	317	881	2	53.0
5	Tangent	1109	-	-	59.5
6	Horizontal Curve	422	1910	2	59.2
7	Tangent	264	-	-	59.5
8	Horizontal Curve	528	955	2	53.0
9	Tangent	792	-	-	59.5
10	Horizontal Curve	317	1432	2	59.2
11	Tangent	1426	-	-	59.5
12	Horizontal Curve	686	1146	2	53.0

Vehicle Results

Average Speed, mi/h	59.3	Percent Followers, %	50.5
Segment Travel Time, minutes	2.15	Follower Density, followers/mi/ln	3.2
Vehicle LOS	B		

Segment 17

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1953
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	5.4

Demand and Capacity

Directional Demand Flow Rate, veh/h	436	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	60.7
Speed Slope Coefficient	3.98000	Speed Power Coefficient	0.45706
PF Slope Coefficient	-1.43801	PF Power Coefficient	0.73314
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.2
%Improved % Followers	13.0	% Improved Avg Speed	0.9

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	53	-	-	58.3
2	Horizontal Curve	686	1146	2	53.0
3	Tangent	1214	-	-	58.3

Vehicle Results

Average Speed, mi/h	57.0	Percent Followers, %	54.3
Segment Travel Time, minutes	0.39	Follower Density, followers/mi/ln	3.6
Vehicle LOS	B		

Segment 18					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		7445
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		436	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.26
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.9
Speed Slope Coefficient		3.93639	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.27406	PF Power Coefficient		0.75949
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.6
%Improved % Followers		9.7	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	950	1637	2	59.2
2	Tangent	634	-	-	59.4
3	Horizontal Curve	317	716	2	46.4
4	Tangent	739	-	-	59.4
5	Horizontal Curve	264	2292	2	59.4
6	Tangent	4541	-	-	59.4
Vehicle Results					
Average Speed, mi/h		58.9	Percent Followers, %		49.2
Segment Travel Time, minutes		1.44	Follower Density, followers/mi/ln		3.3
Vehicle LOS		B			
Segment 19					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1426
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		436	Opposing Demand Flow Rate, veh/h		472
Peak Hour Factor		0.92	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.26
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.5
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PF Slope Coefficient	-1.32903	PF Power Coefficient	0.77694
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.6
%Improved % Followers	9.2	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1426	-	-	60.3

Vehicle Results

Average Speed, mi/h	60.3	Percent Followers, %	50.2
Segment Travel Time, minutes	0.27	Follower Density, followers/mi/ln	3.3
Vehicle LOS	B		

Segment 20

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4066
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	436	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.89772	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.29367	PF Power Coefficient	0.76574
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.7
%Improved % Followers	7.9	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3432	-	-	59.3
2	Horizontal Curve	634	788	2	53.0

Vehicle Results

Average Speed, mi/h	58.3	Percent Followers, %	49.6
Segment Travel Time, minutes	0.79	Follower Density, followers/mi/ln	3.4
Vehicle LOS	B		

Segment 21

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1267
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Directional Demand Flow Rate, veh/h	405	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.95	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	61.3
Speed Slope Coefficient	6.08907	Speed Power Coefficient	0.58785
PF Slope Coefficient	-1.46238	PF Power Coefficient	0.74548
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.8
%Improved % Followers	7.8	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	845	-	-	58.3
2	Horizontal Curve	422	955	2	53.0

Vehicle Results

Average Speed, mi/h	56.5	Percent Followers, %	52.6
Segment Travel Time, minutes	0.25	Follower Density, followers/mi/ln	3.5
Vehicle LOS	B		

Segment 22

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1426
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	7.4

Demand and Capacity

Directional Demand Flow Rate, veh/h	405	Opposing Demand Flow Rate, veh/h	405
Peak Hour Factor	0.95	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	60.6
Speed Slope Coefficient	3.60307	Speed Power Coefficient	0.49597
PF Slope Coefficient	-1.33240	PF Power Coefficient	0.77537
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.5
%Improved % Followers	7.4	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	634	955	2	53.0
2	Tangent	792	-	-	58.6

Vehicle Results

Average Speed, mi/h	56.1	Percent Followers, %	48.4
Segment Travel Time, minutes	0.29	Follower Density, followers/mi/ln	3.2

Segment 23					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3326
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		405	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		7.18
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		60.5
Speed Slope Coefficient		6.95129	Speed Power Coefficient		0.60216
PF Slope Coefficient		-1.36393	PF Power Coefficient		0.75251
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.5
%Improved % Followers		6.6	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3326	-	-	57.1
Vehicle Results					
Average Speed, mi/h		57.1	Percent Followers, %		49.9
Segment Travel Time, minutes		0.66	Follower Density, followers/mi/ln		3.3
Vehicle LOS		B			
Segment 24					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		5122
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		411	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		7.18
Segment Capacity, veh/h		1500	Demand/Capacity (D/C)		0.27
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		61.0
Speed Slope Coefficient		6.76267	Speed Power Coefficient		1.09026
PF Slope Coefficient		-1.06016	PF Power Coefficient		0.85035
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
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1	Tangent	5122	-	-	59.1
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Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	251	160
Percentage of Heavy Vehicles (HV%), %	2.87	13.94
Initial Average Speed (Sint), mi/h	60.9	59.5
Average Speed at Midpoint (SPLmid), mi/h	62.5	57.8
Percent Followers at Midpoint (PFPLmid), %	30.6	19.2

Vehicle Results

Average Speed, mi/h	59.1	Percent Followers, %	39.2
Segment Travel Time, minutes	0.99	Follower Density, followers/mi/ln	2.7
Vehicle LOS	B		

Segment 25

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3643
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.4

Demand and Capacity

Directional Demand Flow Rate, veh/h	402	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.95	Total Trucks, %	7.18
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	61.0
Speed Slope Coefficient	7.19556	Speed Power Coefficient	0.60971
PF Slope Coefficient	-1.35689	PF Power Coefficient	0.75375
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.5
%Improved % Followers	20.4	% Improved Avg Speed	2.4

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	898	-	-	57.5
2	Horizontal Curve	1214	1910	2	57.5
3	Tangent	1531	-	-	57.5

Vehicle Results

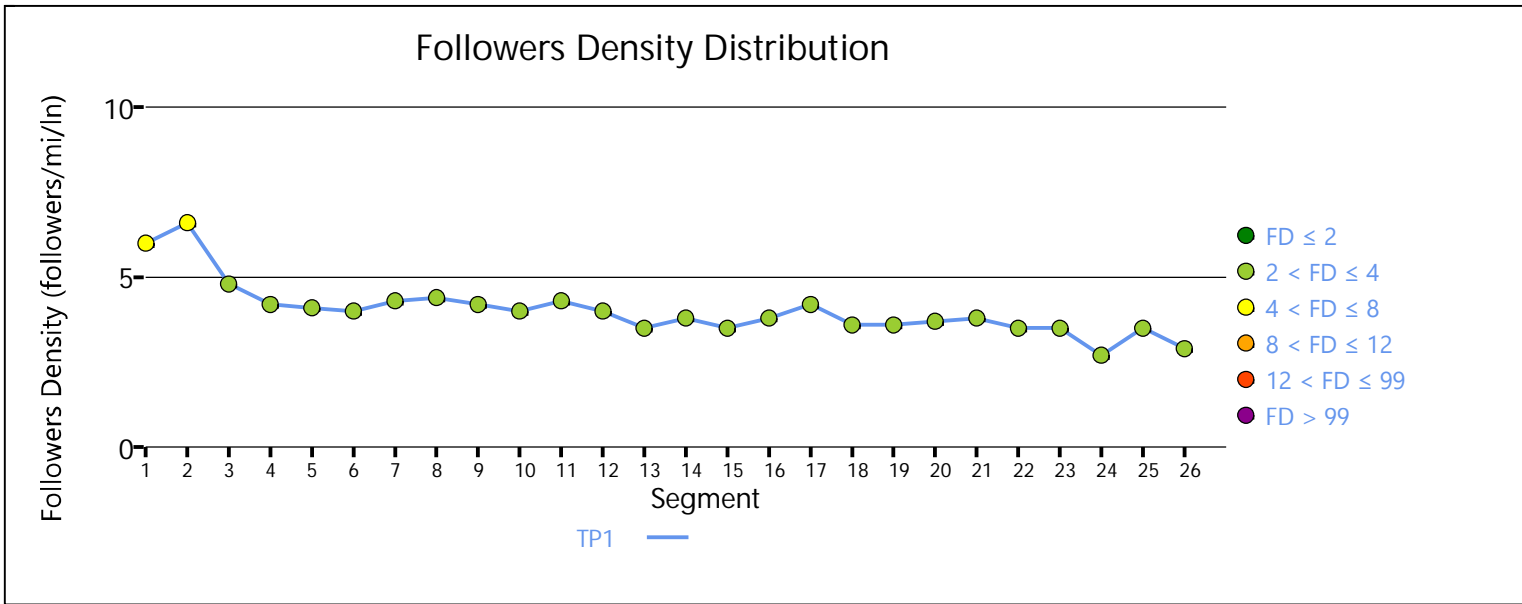
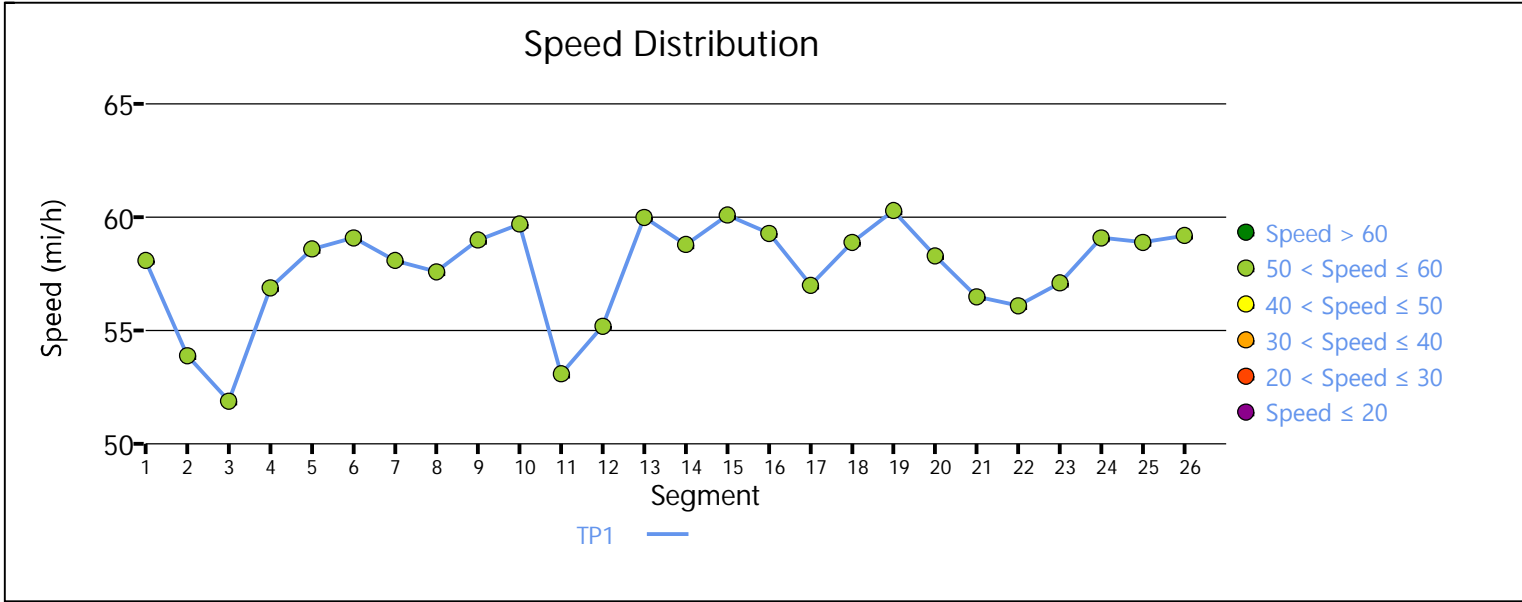
Average Speed, mi/h	58.9	Percent Followers, %	49.5
Segment Travel Time, minutes	0.70	Follower Density, followers/mi/ln	2.7
Vehicle LOS	B		

Segment 26

Vehicle Inputs

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Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		5.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		402	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		7.18
Segment Capacity, veh/h		1500	Demand/Capacity (D/C)		0.27
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.2
Speed Slope Coefficient		5.72664	Speed Power Coefficient		0.88503
PF Slope Coefficient		-1.20973	PF Power Coefficient		0.83026
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.9
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4118	-	-	59.2
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		246		156	
Percentage of Heavy Vehicles (HV%), %		2.87		13.98	
Initial Average Speed (Sint), mi/h		60.4		60.5	
Average Speed at Midpoint (SPLmid), mi/h		62.0		58.9	
Percent Followers at Midpoint (PFPLmid), %		33.0		22.6	
Vehicle Results					
Average Speed, mi/h		59.2	Percent Followers, %		43.3
Segment Travel Time, minutes		0.79	Follower Density, followers/mi/ln		2.9
Vehicle LOS		B			
Facility Results					
T	Follower Density, followers/mi/ln			LOS	
1	4.0			C	



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/27/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Gold Beach north UGB to Port Orford south UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Zone		Length, ft	7920
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	1.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		402		Opposing Demand Flow Rate, veh/h	434
Peak Hour Factor		0.90		Total Trucks, %	22.00
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.24
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	61.5
Speed Slope Coefficient		3.73213		Speed Power Coefficient	0.49140
PF Slope Coefficient		-1.23545		PF Power Coefficient	0.79365
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	3.1
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7920	-	-	59.4
Vehicle Results					
Average Speed, mi/h		59.4		Percent Followers, %	45.1
Segment Travel Time, minutes		1.51		Follower Density, followers/mi/ln	3.1
Vehicle LOS		B			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	1690
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		356		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.84		Total Trucks, %	22.00
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.21
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Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.87412	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.35531	PF Power Coefficient	0.75014
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690	-	-	59.8

Vehicle Results

Average Speed, mi/h	59.8	Percent Followers, %	46.4
Segment Travel Time, minutes	0.32	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 3

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	15365
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	75.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	356	Opposing Demand Flow Rate, veh/h	385
Peak Hour Factor	0.84	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	52.0
Speed Slope Coefficient	3.22122	Speed Power Coefficient	0.49940
PF Slope Coefficient	-1.28376	PF Power Coefficient	0.74985
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	15365	-	-	50.3

Vehicle Results

Average Speed, mi/h	50.3	Percent Followers, %	44.7
Segment Travel Time, minutes	3.47	Follower Density, followers/mi/ln	3.2
Vehicle LOS	B		

Segment 4

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3801
Lane Width, ft	12	Shoulder Width, ft	6
		Access Point Density, pts/mi	21.9

Demand and Capacity					
Directional Demand Flow Rate, veh/h		322	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		56.5
Speed Slope Coefficient		3.60647	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.34031	PF Power Coefficient		0.75354
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.6
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2851	-	-	54.6
2	Horizontal Curve	950	2292	2	54.6
Vehicle Results					
Average Speed, mi/h		54.6	Percent Followers, %		43.5
Segment Travel Time, minutes		0.79	Follower Density, followers/mi/ln		2.6
Vehicle LOS		B			
Segment 5					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		6231
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		322	Opposing Demand Flow Rate, veh/h		348
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.71967	Speed Power Coefficient		0.50579
PF Slope Coefficient		-1.22211	PF Power Coefficient		0.80700
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.1
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	634	2292	2	60.2
2	Tangent	5597	-	-	60.2
Vehicle Results					

Segment Travel Time, minutes		1.18	Follower Density, followers/mi/ln		2.1
Vehicle LOS		B			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1162
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		314	Opposing Demand Flow Rate, veh/h		339
Peak Hour Factor		0.85	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.65669	Speed Power Coefficient		0.50754
PF Slope Coefficient		-1.31821	PF Power Coefficient		0.78183
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.2
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1162	-	-	60.3
Vehicle Results					
Average Speed, mi/h		60.3	Percent Followers, %		41.3
Segment Travel Time, minutes		0.22	Follower Density, followers/mi/ln		2.2
Vehicle LOS		B			
Segment 7					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2957
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		5.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		314	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.85	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.6
Speed Slope Coefficient		3.81703	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.32403	PF Power Coefficient		0.76020
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.3
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Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2957	-	-	58.6
Vehicle Results					
Average Speed, mi/h		58.6	Percent Followers, %		42.2
Segment Travel Time, minutes		0.57	Follower Density, followers/mi/ln		2.3
Vehicle LOS		B			
Segment 8					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		3326
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		314	Opposing Demand Flow Rate, veh/h		339
Peak Hour Factor		0.85	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.6
Speed Slope Coefficient		3.66523	Speed Power Coefficient		0.50754
PF Slope Coefficient		-1.25155	PF Power Coefficient		0.80480
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3326	-	-	59.9
Vehicle Results					
Average Speed, mi/h		59.9	Percent Followers, %		38.9
Segment Travel Time, minutes		0.63	Follower Density, followers/mi/ln		2.0
Vehicle LOS		B			
Segment 9					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1742
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		314	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.85	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.87501	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.35283	PF Power Coefficient	0.75095
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1742	-	-	59.9

Vehicle Results			
Average Speed, mi/h	59.9	Percent Followers, %	43.3
Segment Travel Time, minutes	0.33	Follower Density, followers/mi/ln	2.3
Vehicle LOS	B		

Segment 10

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	3432
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	299	Opposing Demand Flow Rate, veh/h	323
Peak Hour Factor	0.90	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.68379	Speed Power Coefficient	0.51051
PF Slope Coefficient	-1.24479	PF Power Coefficient	0.80729
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3432	-	-	60.4

Vehicle Results			
Average Speed, mi/h	60.4	Percent Followers, %	37.5
Segment Travel Time, minutes	0.65	Follower Density, followers/mi/ln	1.9
Vehicle LOS	A		

Segment 11

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	2323
			6

Speed Limit, mi/h	55	Access Point Density, pts/mi	1.2
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Demand and Capacity

Directional Demand Flow Rate, veh/h	299	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.90	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	3.86790	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.33247	PF Power Coefficient	0.75760
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-	-	59.7
2	Horizontal Curve	1848	1432	2	59.1

Vehicle Results

Average Speed, mi/h	59.3	Percent Followers, %	41.4
Segment Travel Time, minutes	0.45	Follower Density, followers/mi/ln	2.1
Vehicle LOS	B		

Segment 12

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	2534
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	299	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.90	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	58.5
Speed Slope Coefficient	8.77159	Speed Power Coefficient	0.62509
PF Slope Coefficient	-1.35444	PF Power Coefficient	0.76708
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1584	-	-	55.4
2	Horizontal Curve	950	1273	2	55.4

Vehicle Results

Average Speed, mi/h	55.4	Percent Followers, %	41.5		
Segment Travel Time, minutes	0.52	Follower Density, followers/mi/ln	2.2		
Vehicle LOS	B				
Segment 13					
Vehicle Inputs					
Segment Type	Passing Lanes	Length, ft	2639		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	299	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.90	Total Trucks, %	22.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0		
Speed Slope Coefficient	3.88867	Speed Power Coefficient	0.41674		
PF Slope Coefficient	-1.31981	PF Power Coefficient	0.76127		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.5		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	739	573	2	46.1
2	Tangent	158	-	-	60.0
3	Horizontal Curve	686	651	2	46.1
4	Horizontal Curve	1056	955	2	52.8
Vehicle Results					
Average Speed, mi/h	49.6	Percent Followers, %	40.9		
Segment Travel Time, minutes	0.60	Follower Density, followers/mi/ln	2.5		
Vehicle LOS	B				
Segment 14					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	8659		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.8		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	300	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	22.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18		
Intermediate Results					
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Speed Slope Coefficient	3.89619	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28324	PF Power Coefficient	0.75225
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	106	-	-	59.0
2	Horizontal Curve	739	573	2	46.1
3	Horizontal Curve	792	1115	2	52.8
4	Tangent	53	-	-	59.0
5	Horizontal Curve	686	716	2	46.1
6	Tangent	158	-	-	59.0
7	Horizontal Curve	686	716	2	46.1
8	Tangent	739	-	-	59.0
9	Horizontal Curve	1373	1432	2	59.0
10	Tangent	211	-	-	59.0
11	Horizontal Curve	1056	573	2	46.1
12	Tangent	53	-	-	59.0
13	Horizontal Curve	898	1432	2	59.0
14	Horizontal Curve	1109	955	2	52.8

Vehicle Results			
Average Speed, mi/h	52.9	Percent Followers, %	40.5
Segment Travel Time, minutes	1.86	Follower Density, followers/mi/ln	2.3
Vehicle LOS	B		

Segment 15

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3011
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	300	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results			
Segment Vertical Class	4	Free-Flow Speed, mi/h	55.5
Speed Slope Coefficient	10.48118	Speed Power Coefficient	0.62210
PF Slope Coefficient	-1.57592	PF Power Coefficient	0.72926
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

1	Tangent	634	-	-	51.6
2	Horizontal Curve	898	955	2	51.6
3	Tangent	106	-	-	51.6
4	Horizontal Curve	1373	881	2	51.6

Vehicle Results

Average Speed, mi/h	51.6	Percent Followers, %	48.1
Segment Travel Time, minutes	0.66	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 16

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2904
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	6.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	300	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	60.3
Speed Slope Coefficient	3.80414	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.32735	PF Power Coefficient	0.75929
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1214	-	-	58.4
2	Horizontal Curve	1056	1432	2	58.4
3	Tangent	634	-	-	58.4

Vehicle Results

Average Speed, mi/h	58.4	Percent Followers, %	41.3
Segment Travel Time, minutes	0.57	Follower Density, followers/mi/ln	2.1
Vehicle LOS	B		

Segment 17

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4805
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

		id Flow Rate, veh/h	-
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Peak Hour Factor		0.94	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		5	Free-Flow Speed, mi/h		53.1
Speed Slope Coefficient		15.33504	Speed Power Coefficient		0.60343
PF Slope Coefficient		-1.85038	PF Power Coefficient		0.84240
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		3.1
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	264	-	-	47.2
2	Horizontal Curve	1056	1432	2	47.2
3	Horizontal Curve	898	958	2	47.2
4	Tangent	264	-	-	47.2
5	Horizontal Curve	1214	1637	0	47.2
6	Horizontal Curve	581	819	0	47.2
7	Horizontal Curve	475	819	0	47.2
8	Tangent	53	-	-	47.2
Vehicle Results					
Average Speed, mi/h		47.2	Percent Followers, %		48.9
Segment Travel Time, minutes		1.16	Follower Density, followers/mi/ln		3.1
Vehicle LOS		B			
Segment 18					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1267
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		5.9
Demand and Capacity					
Directional Demand Flow Rate, veh/h		300	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		57.1
Speed Slope Coefficient		7.66098	Speed Power Coefficient		0.59732
PF Slope Coefficient		-1.44589	PF Power Coefficient		0.75314
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
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2	Tangent	317	-	-	54.1
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Vehicle Results					
Average Speed, mi/h	53.1		Percent Followers, %	44.2	
Segment Travel Time, minutes	0.27		Follower Density, followers/mi/ln	2.5	
Vehicle LOS	B				

Segment 19

Vehicle Inputs					
Segment Type	Passing Constrained		Length, ft	2377	
Lane Width, ft	12		Shoulder Width, ft	6	
Speed Limit, mi/h	55		Access Point Density, pts/mi	0.0	

Demand and Capacity					
Directional Demand Flow Rate, veh/h	300		Opposing Demand Flow Rate, veh/h	-	
Peak Hour Factor	0.94		Total Trucks, %	22.00	
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)	0.18	

Intermediate Results					
Segment Vertical Class	3		Free-Flow Speed, mi/h	58.5	
Speed Slope Coefficient	8.66630		Speed Power Coefficient	0.62225	
PF Slope Coefficient	-1.36458		PF Power Coefficient	0.76605	
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln	2.7	
%Improved % Followers	0.0		% Improved Avg Speed	0.0	

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	739	637	2	46.1
2	Tangent	106	-	-	55.4
3	Horizontal Curve	845	573	2	46.1
4	Tangent	106	-	-	55.4
5	Horizontal Curve	581	716	2	46.1

Vehicle Results					
Average Speed, mi/h	46.9		Percent Followers, %	41.9	
Segment Travel Time, minutes	0.58		Follower Density, followers/mi/ln	2.7	
Vehicle LOS	B				

Segment 20

Vehicle Inputs					
Segment Type	Passing Constrained		Length, ft	4488	
Lane Width, ft	12		Shoulder Width, ft	6	
Speed Limit, mi/h	55		Access Point Density, pts/mi	0.0	

Demand and Capacity					
Directional Demand Flow Rate, veh/h	300		Opposing Demand Flow Rate, veh/h	-	

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Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.91077	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.28518	PF Power Coefficient		0.76892
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.1
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3274	-	-	60.0
2	Horizontal Curve	1214	669	0	46.1
Vehicle Results					
Average Speed, mi/h		56.2	Percent Followers, %		39.9
Segment Travel Time, minutes		0.91	Follower Density, followers/mi/ln		2.1
Vehicle LOS		B			
Segment 21					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2060
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		58.5
Speed Slope Coefficient		8.53130	Speed Power Coefficient		0.61883
PF Slope Coefficient		-1.38009	PF Power Coefficient		0.76430
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	634	-	-	55.2
2	Horizontal Curve	792	716	2	46.1
3	Tangent	634	-	-	55.2
Vehicle Results					
Average Speed, mi/h		51.7	Percent Followers, %		44.1
Segment Travel Time, minutes		0.45	Follower Density, followers/mi/ln		2.8
Vehicle LOS		B			

Segment 22					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3009
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.89358	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.31015	PF Power Coefficient		0.76397
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.3
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-	-	59.9
2	Horizontal Curve	686	1432	2	59.1
3	Tangent	1637	-	-	59.9
Vehicle Results					
Average Speed, mi/h		59.7	Percent Followers, %		42.5
Segment Travel Time, minutes		0.57	Follower Density, followers/mi/ln		2.3
Vehicle LOS		B			
Segment 23					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		3221
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		336
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.68471	Speed Power Coefficient		0.50814
PF Slope Coefficient		-1.25084	PF Power Coefficient		0.80545
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.1
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Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3221	-	-	60.2
Vehicle Results					
Average Speed, mi/h		60.2	Percent Followers, %		39.6
Segment Travel Time, minutes		0.61	Follower Density, followers/mi/ln		2.1
Vehicle LOS		B			
Segment 24					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1901
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.87765	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.34571	PF Power Coefficient		0.75326
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.4
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1901	-	-	59.9
Vehicle Results					
Average Speed, mi/h		59.9	Percent Followers, %		43.7
Segment Travel Time, minutes		0.36	Follower Density, followers/mi/ln		2.4
Vehicle LOS		B			
Segment 25					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2112
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		336
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.66942	Speed Power Coefficient	0.50814
PF Slope Coefficient	-1.28121	PF Power Coefficient	0.79541
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-	-	60.3

Vehicle Results			
Average Speed, mi/h	60.3	Percent Followers, %	40.6
Segment Travel Time, minutes	0.40	Follower Density, followers/mi/ln	2.2
Vehicle LOS	B		

Segment 26

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	9508
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	323	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	3.94044	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28122	PF Power Coefficient	0.74821
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-	-	59.6
2	Horizontal Curve	2218	955	2	52.7
3	Tangent	581	-	-	59.6
4	Horizontal Curve	106	235	2	32.7
5	Horizontal Curve	158	266	2	32.7
6	Tangent	53	-	-	59.6
7	Horizontal Curve	158	292	2	32.7
8	Tangent	158	-	-	59.6
9	Horizontal Curve	370	305	2	39.4

				2	52.7
--	--	--	--	---	------

11	Tangent	317	-	-	59.6
12	Horizontal Curve	264	190	2	32.7
13	Tangent	53	-	-	59.6
14	Horizontal Curve	106	243	2	32.7
15	Tangent	106	-	-	59.6
16	Horizontal Curve	53	1280	2	59.1
17	Tangent	106	-	-	59.6
18	Horizontal Curve	211	673	2	46.1
19	Tangent	53	-	-	59.6
20	Horizontal Curve	158	259	2	32.7
21	Tangent	370	-	-	59.6
22	Horizontal Curve	1373	716	2	46.1
23	Tangent	106	-	-	59.6
24	Horizontal Curve	634	1433	2	59.1
25	Tangent	581	-	-	59.6
26	Horizontal Curve	370	615	2	46.1

Vehicle Results

Average Speed, mi/h	51.5	Percent Followers, %	42.3
Segment Travel Time, minutes	2.10	Follower Density, followers/mi/ln	2.7
Vehicle LOS	B		

Segment 27

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	2851
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	323	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1200	Demand/Capacity (D/C)	0.27

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	58.2
Speed Slope Coefficient	11.62596	Speed Power Coefficient	1.07737
PF Slope Coefficient	-1.09139	PF Power Coefficient	0.88720
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1373	615	2	46.1
2	Horizontal Curve	317	2548	2	55.8
3	Tangent	211	-	-	55.8

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	197	126
Percentage of Heavy Vehicles (HV%), %	8.80	42.68
Initial Average Speed (Sint), mi/h	60.0	53.8
Average Speed at Midpoint (SPLmid), mi/h	61.9	51.9
Percent Followers at Midpoint (PFPLmid), %	24.3	9.1

Vehicle Results

Average Speed, mi/h	47.9	Percent Followers, %	33.0
Segment Travel Time, minutes	0.68	Follower Density, followers/mi/ln	2.2
Vehicle LOS	B		

Segment 28

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5861
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	323	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.92432	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27469	PF Power Coefficient	0.76772
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	2.4
%Improved % Followers	18.5	% Improved Avg Speed	1.7

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	634	-	-	59.9
2	Horizontal Curve	1214	573	2	46.1
3	Tangent	53	-	-	59.9
4	Horizontal Curve	950	573	2	46.1
5	Tangent	3010	-	-	59.9

Vehicle Results

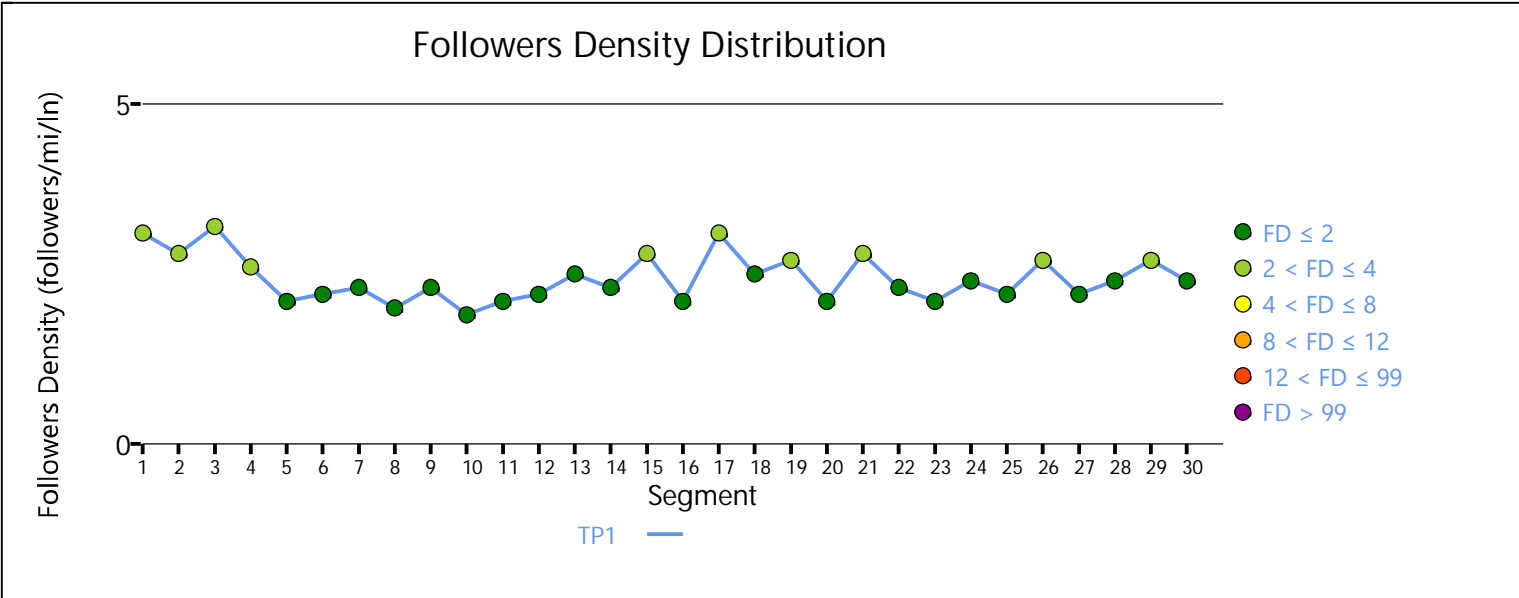
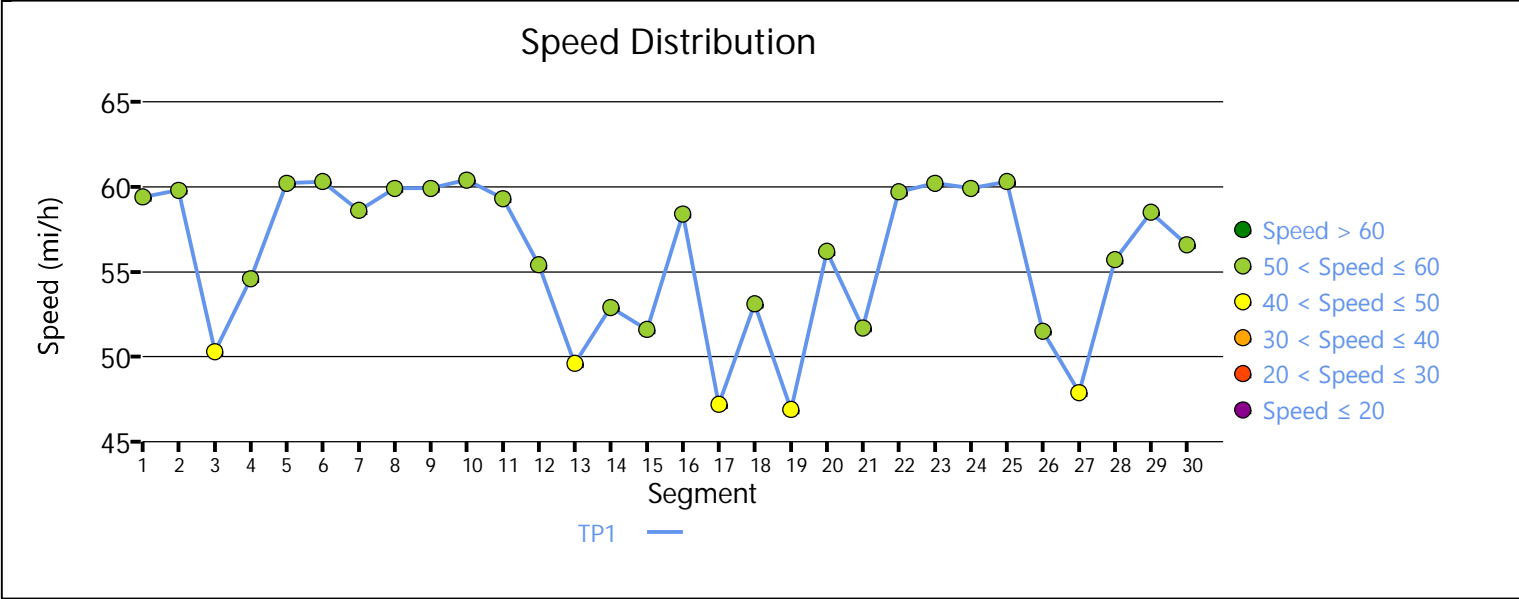
Average Speed, mi/h	55.7	Percent Followers, %	41.5
Segment Travel Time, minutes	1.20	Follower Density, followers/mi/ln	2.0
Vehicle LOS	A		

Segment 29

Vehicle Inputs

Segment Type		Passing Constrained	Length, ft		1373
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		60.1
Speed Slope Coefficient		4.94053	Speed Power Coefficient		0.46648
PF Slope Coefficient		-1.47554	PF Power Coefficient		0.73416
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		2.7
%Improved % Followers		17.2	% Improved Avg Speed		1.5
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1373	-	-	57.6
Vehicle Results					
Average Speed, mi/h		58.5	Percent Followers, %		47.5
Segment Travel Time, minutes		0.27	Follower Density, followers/mi/ln		2.2
Vehicle LOS		B			
Segment 30					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		6442
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.92956	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.27273	PF Power Coefficient		0.76602
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		2.4
%Improved % Followers		12.9	% Improved Avg Speed		0.5
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2957	-	-	59.9
2	Horizontal Curve	739	573	0	39.4
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4	Tangent	1637	-	-	59.9
Vehicle Results					
Average Speed, mi/h		56.6	Percent Followers, %		41.5
Segment Travel Time, minutes		1.29	Follower Density, followers/mi/ln		2.1
Vehicle LOS		B			
Facility Results					
T	Follower Density, followers/mi/ln			LOS	
1	2.5			B	



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Port Orford south UGB to Gold Beach north UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	2746
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		336		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.87		Total Trucks, %	22.00
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.20
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient		3.89011		Speed Power Coefficient	0.41674
PF Slope Coefficient		-1.31685		PF Power Coefficient	0.76212
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	2.6
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1637	-	-	59.8
2	Horizontal Curve	1109	873	0	52.7
Vehicle Results					
Average Speed, mi/h		57.0		Percent Followers, %	43.6
Segment Travel Time, minutes		0.55		Follower Density, followers/mi/ln	2.6
Vehicle LOS		B			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Zone		Length, ft	1795
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		336		Opposing Demand Flow Rate, veh/h	323
Peak Hour Factor		0.87		Total Trucks, %	22.00
				Demand/Capacity (D/C)	0.20
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Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.66073	Speed Power Coefficient	0.51058
PF Slope Coefficient	-1.29164	PF Power Coefficient	0.79155
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	739	573	0	39.4
2	Tangent	1056	-	-	60.2

Vehicle Results			
Average Speed, mi/h	51.6	Percent Followers, %	42.0
Segment Travel Time, minutes	0.39	Follower Density, followers/mi/ln	2.7
Vehicle LOS	B		

Segment 3			
Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	950
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	5.6

Demand and Capacity			
Directional Demand Flow Rate, veh/h	336	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	60.6
Speed Slope Coefficient	3.79147	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.38900	PF Power Coefficient	0.74041
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	950	-	-	58.5

Vehicle Results			
Average Speed, mi/h	58.5	Percent Followers, %	46.1
Segment Travel Time, minutes	0.18	Follower Density, followers/mi/ln	2.6
Vehicle LOS	B		

Segment 4			
Vehicle Inputs			

Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.7
Demand and Capacity					
Directional Demand Flow Rate, veh/h		336	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1300	Demand/Capacity (D/C)		0.26
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		58.5
Speed Slope Coefficient		9.39564	Speed Power Coefficient		1.05207
PF Slope Coefficient		-0.84408	PF Power Coefficient		0.66141
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3115	-	-	56.5
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		204		132	
Percentage of Heavy Vehicles (HV%), %		8.80		42.44	
Initial Average Speed (Sint), mi/h		59.9		54.9	
Average Speed at Midpoint (SPLmid), mi/h		61.8		53.0	
Percent Followers at Midpoint (PFPLmid), %		26.6		18.7	
Vehicle Results					
Average Speed, mi/h		56.5	Percent Followers, %		33.6
Segment Travel Time, minutes		0.63	Follower Density, followers/mi/ln		2.0
Vehicle LOS		A			
Segment 5					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		6019
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		336	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.92577	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.27403	PF Power Coefficient		0.76732
			Density, veh/mi/ln		2.7

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%Improved % Followers	18.6	% Improved Avg Speed	2.0
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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2218	-	-	59.8
2	Horizontal Curve	950	573	2	46.1
3	Tangent	53	-	-	59.8
4	Horizontal Curve	1214	573	2	46.1
5	Tangent	634	-	-	59.8
6	Horizontal Curve	950	716	2	46.1

Vehicle Results

Average Speed, mi/h	53.8	Percent Followers, %	42.4
Segment Travel Time, minutes	1.27	Follower Density, followers/mi/ln	2.2
Vehicle LOS	B		

Segment 6

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2270
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	336	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	58.5
Speed Slope Coefficient	8.62180	Speed Power Coefficient	0.62110
PF Slope Coefficient	-1.36937	PF Power Coefficient	0.76552
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.1
%Improved % Followers	16.7	% Improved Avg Speed	1.7

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	211	-	-	55.0
2	Horizontal Curve	317	2548	2	55.0
3	Horizontal Curve	1742	615	2	46.1

Vehicle Results

Average Speed, mi/h	49.0	Percent Followers, %	44.8
Segment Travel Time, minutes	0.53	Follower Density, followers/mi/ln	2.6
Vehicle LOS	B		

Segment 7

Segment Type		Passing Constrained		Length, ft		8293			
Lane Width, ft		12		Shoulder Width, ft		6			
Speed Limit, mi/h		55		Access Point Density, pts/mi		2.5			
Demand and Capacity									
Directional Demand Flow Rate, veh/h		336		Opposing Demand Flow Rate, veh/h		-			
Peak Hour Factor		0.87		Total Trucks, %		22.00			
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.20			
Intermediate Results									
Segment Vertical Class		1		Free-Flow Speed, mi/h		61.3			
Speed Slope Coefficient		3.91099		Speed Power Coefficient		0.41674			
PF Slope Coefficient		-1.27917		PF Power Coefficient		0.75540			
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln		2.8			
%Improved % Followers		11.9		% Improved Avg Speed		0.4			
Subsegment Data									
#	Segment Type	Length, ft		Radius, ft		Superelevation, %		Average Speed, mi/h	
1	Tangent	581		-		-		59.2	
2	Horizontal Curve	634		1433		2		59.0	
3	Tangent	106		-		-		59.2	
4	Horizontal Curve	1373		716		2		46.1	
5	Tangent	370		-		-		59.2	
6	Horizontal Curve	158		259		2		32.7	
7	Tangent	53		-		-		59.2	
8	Horizontal Curve	211		673		2		46.1	
9	Tangent	106		-		-		59.2	
10	Horizontal Curve	53		1280		2		59.0	
11	Tangent	106		-		-		59.2	
12	Horizontal Curve	106		243		2		32.7	
13	Tangent	53		-		-		59.2	
14	Horizontal Curve	264		190		2		32.7	
15	Tangent	317		-		-		59.2	
16	Horizontal Curve	264		787		2		52.7	
17	Horizontal Curve	370		305		2		39.4	
18	Tangent	158		-		-		59.2	
19	Horizontal Curve	158		292		2		32.7	
20	Tangent	53		-		-		59.2	
21	Horizontal Curve	158		266		2		32.7	
22	Horizontal Curve	106		235		2		32.7	
23	Tangent	581		-		-		59.2	
24	Horizontal Curve	1954		955		2		52.7	
Vehicle Results									
Average Speed, mi/h		51.2		Percent Followers, %		42.9			
				followers/mi/ln		2.5			

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Vehicle LOS		B			
Segment 8					
Vehicle Inputs					
Segment Type		Passing Zone		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		336		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.87		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.63193		Speed Power Coefficient	
PF Slope Coefficient		-1.28281		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
%Improved % Followers		11.0		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	264	955	2	52.7
2	Tangent	1848	-	-	59.6
Vehicle Results					
Average Speed, mi/h		58.8		Percent Followers, %	
Segment Travel Time, minutes		0.41		Follower Density, followers/mi/ln	
Vehicle LOS		B			
Segment 9					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		336		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.87		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.87678		Speed Power Coefficient	
PF Slope Coefficient		-1.34801		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
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				0.0	

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1848	-	-	59.8
Vehicle Results					
Average Speed, mi/h		59.8	Percent Followers, %		44.7
Segment Travel Time, minutes		0.35	Follower Density, followers/mi/ln		2.3
Vehicle LOS		B			
Segment 10					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		3010
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		336	Opposing Demand Flow Rate, veh/h		323
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		61.1
Speed Slope Coefficient		4.96623	Speed Power Coefficient		0.59071
PF Slope Coefficient		-1.23508	PF Power Coefficient		0.80490
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		2.3
%Improved % Followers		9.2	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3010	-	-	59.0
Vehicle Results					
Average Speed, mi/h		59.0	Percent Followers, %		40.1
Segment Travel Time, minutes		0.58	Follower Density, followers/mi/ln		2.1
Vehicle LOS		B			
Segment 11					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2270
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		336	Opposing Demand Flow Rate, veh/h		323
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	61.1
Speed Slope Coefficient	4.86561	Speed Power Coefficient	0.58815
PF Slope Coefficient	-1.26387	PF Power Coefficient	0.79743
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	8.5	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2270	-	-	59.1

Vehicle Results			
Average Speed, mi/h	59.1	Percent Followers, %	41.1
Segment Travel Time, minutes	0.44	Follower Density, followers/mi/ln	2.1
Vehicle LOS	B		

Segment 12

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3907
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	336	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	60.7
Speed Slope Coefficient	5.44376	Speed Power Coefficient	0.47984
PF Slope Coefficient	-1.34497	PF Power Coefficient	0.75568
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	2.7
%Improved % Followers	7.4	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-	-	58.0
2	Horizontal Curve	686	1432	2	58.0
3	Tangent	1320	-	-	58.0
4	Horizontal Curve	792	716	2	46.1
5	Tangent	634	-	-	58.0

Vehicle Results			
Average Speed, mi/h	55.6	Percent Followers, %	44.5
Segment Travel Time, minutes	0.80	Follower Density, followers/mi/ln	2.5
Vehicle LOS	B		

Segment 13					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		4488
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		312	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		60.6
Speed Slope Coefficient		5.49563	Speed Power Coefficient		0.48185
PF Slope Coefficient		-1.33390	PF Power Coefficient		0.75686
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		2.4
%Improved % Followers		6.5	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1214	669	0	46.1
2	Tangent	3274	-	-	58.0
Vehicle Results					
Average Speed, mi/h		54.8	Percent Followers, %		42.4
Segment Travel Time, minutes		0.93	Follower Density, followers/mi/ln		2.3
Vehicle LOS		B			
Segment 14					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3644
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.4
Demand and Capacity					
Directional Demand Flow Rate, veh/h		312	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		4	Free-Flow Speed, mi/h		55.1
Speed Slope Coefficient		10.40263	Speed Power Coefficient		0.60449
PF Slope Coefficient		-1.59828	PF Power Coefficient		0.74511
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.2
%Improved % Followers		5.7	% Improved Avg Speed		0.0

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	581	716	2	46.1
2	Tangent	106	-	-	51.0
3	Horizontal Curve	845	573	2	46.1
4	Tangent	106	-	-	51.0
5	Horizontal Curve	739	637	2	46.1
6	Tangent	317	-	-	51.0
7	Horizontal Curve	950	902	2	51.0

Vehicle Results

Average Speed, mi/h	48.1	Percent Followers, %	48.9
Segment Travel Time, minutes	0.86	Follower Density, followers/mi/ln	3.0
Vehicle LOS	B		

Segment 15

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5439
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	312	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	5	Free-Flow Speed, mi/h	52.2
Speed Slope Coefficient	15.26525	Speed Power Coefficient	0.57177
PF Slope Coefficient	-1.88067	PF Power Coefficient	0.85124
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	53	-	-	46.0
2	Horizontal Curve	475	819	0	46.0
3	Horizontal Curve	581	819	0	46.0
4	Horizontal Curve	1214	1637	0	46.0
5	Tangent	264	-	-	46.0
6	Horizontal Curve	898	958	2	46.0
7	Horizontal Curve	1056	1432	2	46.0
8	Tangent	898	-	-	46.0

Vehicle Results

Average Speed, mi/h	46.0	Percent Followers, %	50.2
Segment Travel Time, minutes	1.34	Follower Density, followers/mi/ln	3.4

Segment 16					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2270
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.3
Demand and Capacity					
Directional Demand Flow Rate, veh/h		312	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.4
Speed Slope Coefficient		3.85221	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.33684	PF Power Coefficient		0.75639
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.2
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1056	1432	2	59.1
2	Tangent	1214	-	-	59.4
Vehicle Results					
Average Speed, mi/h		59.2	Percent Followers, %		42.5
Segment Travel Time, minutes		0.44	Follower Density, followers/mi/ln		2.2
Vehicle LOS		B			
Segment 17					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3011
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		312	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.94	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.18
Intermediate Results					
Segment Vertical Class		4	Free-Flow Speed, mi/h		55.0
Speed Slope Coefficient		10.19086	Speed Power Coefficient		0.61969
PF Slope Coefficient		-1.57720	PF Power Coefficient		0.72814
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		3.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1373	881	2	51.1
2	Tangent	106	-	-	51.1
3	Horizontal Curve	898	955	2	51.1
4	Tangent	634	-	-	51.1

Vehicle Results

Average Speed, mi/h	51.1	Percent Followers, %	49.1
Segment Travel Time, minutes	0.67	Follower Density, followers/mi/ln	3.0
Vehicle LOS	B		

Segment 18

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	11298
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	323	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.90	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.5
Speed Slope Coefficient	3.94068	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.29627	PF Power Coefficient	0.73316
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1109	955	2	52.7
2	Horizontal Curve	898	1432	2	59.1
3	Tangent	53	-	-	59.4
4	Horizontal Curve	1056	573	2	46.1
5	Tangent	211	-	-	59.4
6	Horizontal Curve	1373	1432	2	59.1
7	Tangent	739	-	-	59.4
8	Horizontal Curve	686	716	2	46.1
9	Tangent	158	-	-	59.4
10	Horizontal Curve	686	716	2	46.1
11	Tangent	53	-	-	59.4
12	Horizontal Curve	792	1115	2	52.7
13	Horizontal Curve	739	573	2	46.1
14	Tangent	106	-	-	59.4

16	Horizontal Curve	686	651	2	46.1
17	Tangent	158	-	-	59.4
18	Horizontal Curve	739	573	2	46.1
Vehicle Results					
Average Speed, mi/h		52.2	Percent Followers, %		43.2
Segment Travel Time, minutes		2.46	Follower Density, followers/mi/ln		2.7
Vehicle LOS		B			
Segment 19					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2534
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.90	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.19
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		58.5
Speed Slope Coefficient		8.72982	Speed Power Coefficient		0.62395
PF Slope Coefficient		-1.35826	PF Power Coefficient		0.76671
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.6
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	950	1273	2	55.1
2	Tangent	1584	-	-	55.1
Vehicle Results					
Average Speed, mi/h		55.1	Percent Followers, %		43.5
Segment Travel Time, minutes		0.52	Follower Density, followers/mi/ln		2.6
Vehicle LOS		B			
Segment 20					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1478
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h		323	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.90	Total Trucks, %		22.00
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Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.1
Speed Slope Coefficient	3.82157	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.37491	PF Power Coefficient	0.74454
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1478	1432	2	59.0

Vehicle Results			
Average Speed, mi/h	59.0	Percent Followers, %	44.7
Segment Travel Time, minutes	0.28	Follower Density, followers/mi/ln	2.5
Vehicle LOS	B		

Segment 21

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	3116
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	323	Opposing Demand Flow Rate, veh/h	299
Peak Hour Factor	0.90	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.67269	Speed Power Coefficient	0.51543
PF Slope Coefficient	-1.24699	PF Power Coefficient	0.80693
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	1432	2	59.1
2	Tangent	2746	-	-	60.3

Vehicle Results			
Average Speed, mi/h	60.1	Percent Followers, %	39.4
Segment Travel Time, minutes	0.59	Follower Density, followers/mi/ln	2.1
Vehicle LOS	B		

Segment 22

Vehicle Inputs			
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Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		339	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.85	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.88098	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.33723	PF Power Coefficient		0.75596
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-	-	59.8
Vehicle Results					
Average Speed, mi/h		59.8	Percent Followers, %		44.6
Segment Travel Time, minutes		0.40	Follower Density, followers/mi/ln		2.5
Vehicle LOS		B			
Segment 23					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		3432
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		339	Opposing Demand Flow Rate, veh/h		314
Peak Hour Factor		0.85	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.6
Speed Slope Coefficient		3.66079	Speed Power Coefficient		0.51233
PF Slope Coefficient		-1.24542	PF Power Coefficient		0.80683
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.3
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3432	-	-	59.8
Vehicle Results					

Segment Travel Time, minutes		0.65	Follower Density, followers/mi/ln		2.3
Vehicle LOS		B			
Segment 24					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2746
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		339	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.85	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.0
Speed Slope Coefficient		3.83862	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.32551	PF Power Coefficient		0.75981
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2746	-	-	58.9
Vehicle Results					
Average Speed, mi/h		58.9	Percent Followers, %		44.1
Segment Travel Time, minutes		0.53	Follower Density, followers/mi/ln		2.5
Vehicle LOS		B			
Segment 25					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		2059
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		348	Opposing Demand Flow Rate, veh/h		322
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20
Intermediate Results					
Segment Vertical Class		2	Free-Flow Speed, mi/h		61.2
Speed Slope Coefficient		4.83250	Speed Power Coefficient		0.58769
PF Slope Coefficient		-1.27423	PF Power Coefficient		0.79474
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.5
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Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-	-	59.0
Vehicle Results					
Average Speed, mi/h		59.0	Percent Followers, %		42.4
Segment Travel Time, minutes		0.40	Follower Density, followers/mi/ln		2.5
Vehicle LOS		B			
Segment 26					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		5597
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		348	Opposing Demand Flow Rate, veh/h		322
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.70634	Speed Power Coefficient		0.51080
PF Slope Coefficient		-1.22069	PF Power Coefficient		0.81007
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.3
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5597	-	-	60.1
Vehicle Results					
Average Speed, mi/h		60.1	Percent Followers, %		40.5
Segment Travel Time, minutes		1.06	Follower Density, followers/mi/ln		2.3
Vehicle LOS		B			
Segment 27					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3485
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		9.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		348	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.20

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	59.7
Speed Slope Coefficient	3.77620	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.32009	PF Power Coefficient	0.76077
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1584	2292	2	57.6
2	Tangent	1901	-	-	57.6

Vehicle Results			
Average Speed, mi/h	57.6	Percent Followers, %	44.7
Segment Travel Time, minutes	0.69	Follower Density, followers/mi/ln	2.7
Vehicle LOS	B		

Segment 28			
Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	3379
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.6

Demand and Capacity			
Directional Demand Flow Rate, veh/h	385	Opposing Demand Flow Rate, veh/h	356
Peak Hour Factor	0.84	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.23

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.6
Speed Slope Coefficient	3.67064	Speed Power Coefficient	0.50439
PF Slope Coefficient	-1.25313	PF Power Coefficient	0.80413
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

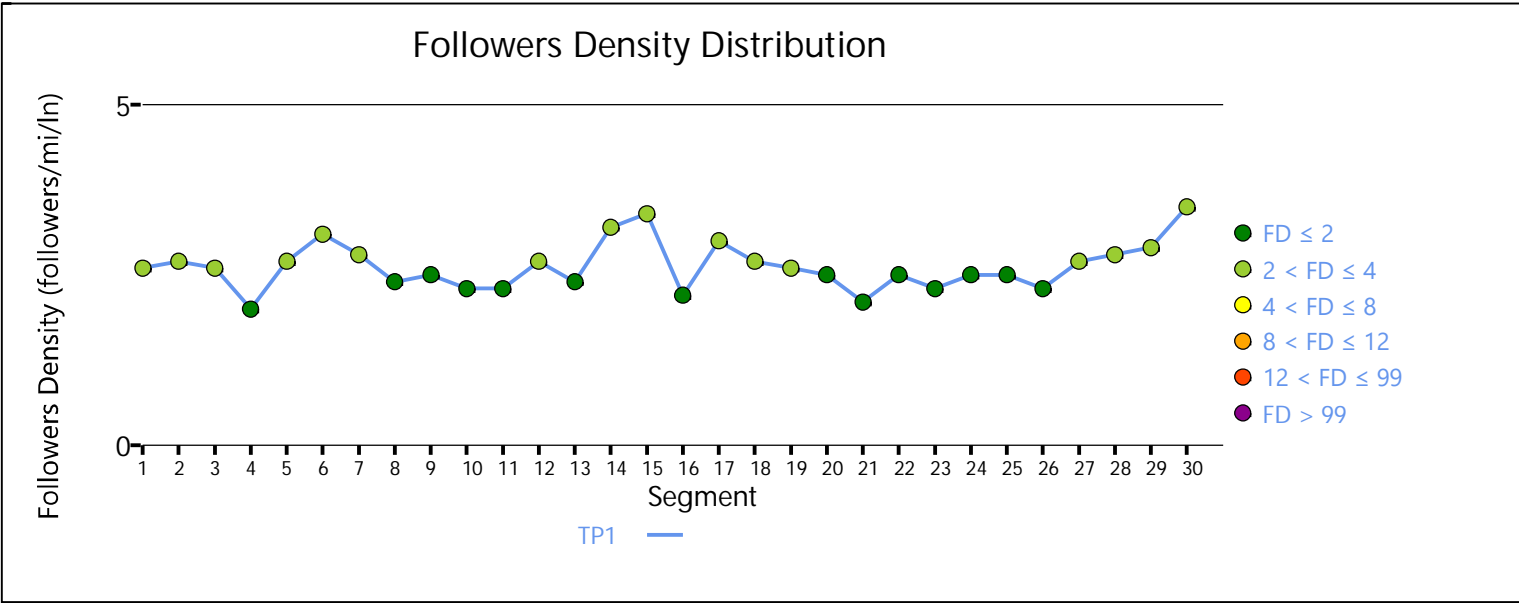
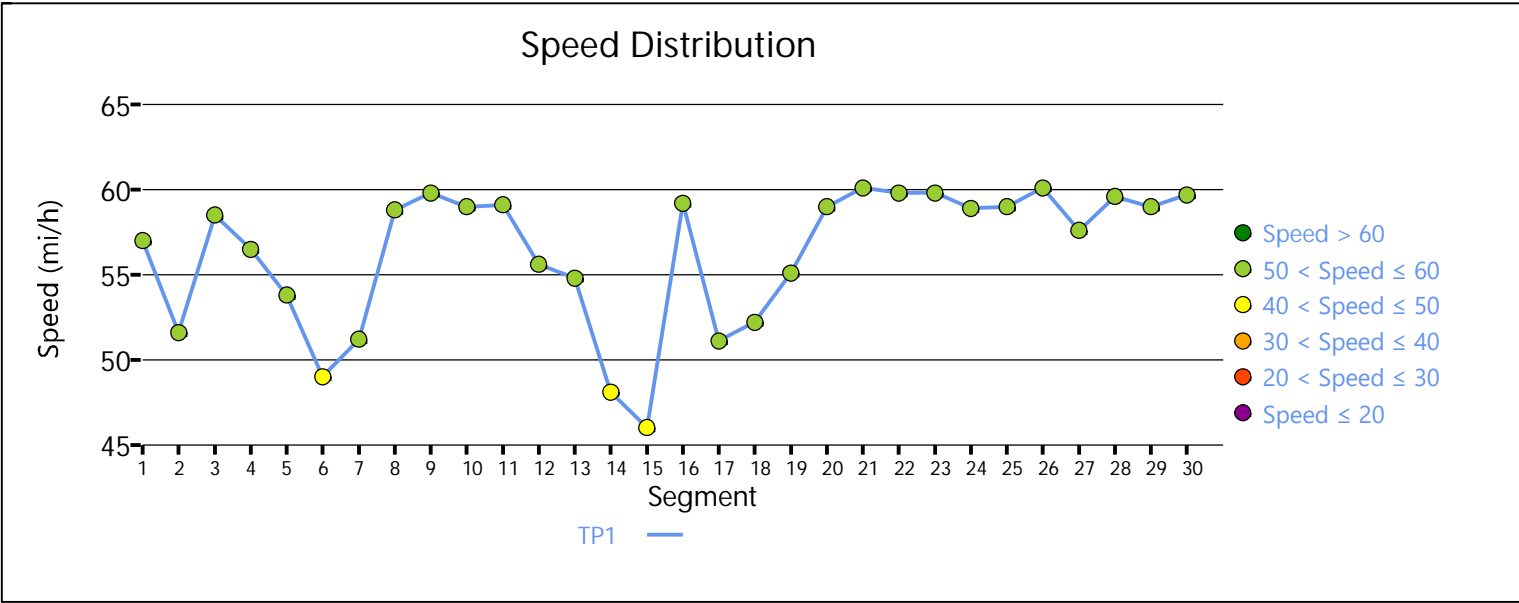
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3379	-	-	59.6

Vehicle Results			
Average Speed, mi/h	59.6	Percent Followers, %	44.1
Segment Travel Time, minutes	0.64	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 29			
Vehicle Inputs			

Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		385	Opposing Demand Flow Rate, veh/h		356
Peak Hour Factor		0.84	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.23
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.0
Speed Slope Coefficient		3.70133	Speed Power Coefficient		0.50439
PF Slope Coefficient		-1.24094	PF Power Coefficient		0.77740
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.9
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	11774	-	-	59.0
Vehicle Results					
Average Speed, mi/h		59.0	Percent Followers, %		44.6
Segment Travel Time, minutes		2.27	Follower Density, followers/mi/ln		2.9
Vehicle LOS		B			
Segment 30					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		10771
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		434	Opposing Demand Flow Rate, veh/h		402
Peak Hour Factor		0.90	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.26
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.76107	Speed Power Coefficient		0.49647
PF Slope Coefficient		-1.24231	PF Power Coefficient		0.77729
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		3.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	10771	-	-	59.7
Vehicle Results					

Segment Travel Time, minutes	2.05	Follower Density, followers/mi/ln	3.5
Vehicle LOS	B		
Facility Results			
T	Follower Density, followers/mi/ln		LOS
1	2.6		B



HCS7 Two-Lane Highway Report						
Project Information						
Analyst			Date		4/27/2024	
Agency			Analysis Year		2024	
Jurisdiction			Time Analyzed			
Project Description		Brookings north UGB to Gold Beach south UGB		Units	U.S. Customary	
Segment 1						
Vehicle Inputs						
Segment Type		Passing Lanes		Length, ft	5809	
Lane Width, ft		12		Shoulder Width, ft	6	
Speed Limit, mi/h		55		Access Point Density, pts/mi	0.0	
Demand and Capacity						
Directional Demand Flow Rate, veh/h		410		Opposing Demand Flow Rate, veh/h	-	
Peak Hour Factor		0.93		Total Trucks, %	22.00	
Segment Capacity, veh/h		1100		Demand/Capacity (D/C)	0.37	
Intermediate Results						
Segment Vertical Class		5		Free-Flow Speed, mi/h	55.9	
Speed Slope Coefficient		17.10441		Speed Power Coefficient	1.11767	
PF Slope Coefficient		-0.94737		PF Power Coefficient	0.94070	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	2.7	
%Improved % Followers		0.0		% Improved Avg Speed	0.0	
Subsegment Data						
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	1690	-	-	51.2	
2	Horizontal Curve	1426	1910	2	51.2	
3	Tangent	2693	-	-	51.2	
Passing Lane Results						
		Faster Lane		Slower Lane		
Flow Rate, veh/h		243		167		
Percentage of Heavy Vehicles (HV%), %		8.80		41.21		
Initial Average Speed (Sint), mi/h		58.5		49.1		
Average Speed at Midpoint (SPLmid), mi/h		60.4		47.2		
Percent Followers at Midpoint (PFPLmid), %		23.7		9.2		
Vehicle Results						
Average Speed, mi/h		51.2		Percent Followers, %		33.6
Segment Travel Time, minutes		1.29		Follower Density, followers/mi/ln		2.7
Vehicle LOS		B				
Seament 2						

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Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	5123
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	410	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.93	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	5	Free-Flow Speed, mi/h	52.8
Speed Slope Coefficient	15.39723	Speed Power Coefficient	0.58755
PF Slope Coefficient	-1.86522	PF Power Coefficient	0.84774
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	5.3
%Improved % Followers	17.2	% Improved Avg Speed	0.5

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	950	-	-	45.0
2	Horizontal Curve	1162	1432	2	45.0
3	Tangent	370	-	-	45.0
4	Horizontal Curve	1162	955	2	45.0
5	Tangent	53	-	-	45.0
6	Horizontal Curve	1320	1432	2	45.0
7	Tangent	106	-	-	45.0

Vehicle Results			
Average Speed, mi/h	45.3	Percent Followers, %	58.3
Segment Travel Time, minutes	1.29	Follower Density, followers/mi/ln	4.4
Vehicle LOS	C		

Segment 3

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	4330
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	10.3

Demand and Capacity			
Directional Demand Flow Rate, veh/h	410	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.93	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	59.4
Speed Slope Coefficient	3.76952	Speed Power Coefficient	0.41674
			0.76214

In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.5
%Improved % Followers		14.3	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1056	955	2	52.6
2	Tangent	211	-	-	57.1
3	Horizontal Curve	1426	1432	2	57.1
4	Tangent	211	-	-	57.1
5	Horizontal Curve	1426	1432	2	57.1
Vehicle Results					
Average Speed, mi/h		56.0	Percent Followers, %		48.5
Segment Travel Time, minutes		0.88	Follower Density, followers/mi/ln		3.0
Vehicle LOS		B			
Segment 4					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		1478
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		22.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h		410	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.93	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		53.0
Speed Slope Coefficient		6.57060	Speed Power Coefficient		0.57420
PF Slope Coefficient		-1.38904	PF Power Coefficient		0.74769
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.2
%Improved % Followers		13.5	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	475	1432	2	49.6
2	Tangent	1003	-	-	49.6
Vehicle Results					
Average Speed, mi/h		49.6	Percent Followers, %		51.0
Segment Travel Time, minutes		0.34	Follower Density, followers/mi/ln		3.6
Vehicle LOS		B			
Segment 5					
Vehicle Inputs					
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Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		410	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.93	Total Trucks, %		22.00
Segment Capacity, veh/h		1200	Demand/Capacity (D/C)		0.34
Intermediate Results					
Segment Vertical Class		4	Free-Flow Speed, mi/h		58.2
Speed Slope Coefficient		11.60796	Speed Power Coefficient		1.07320
PF Slope Coefficient		-1.10063	PF Power Coefficient		0.87959
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.9
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1478	1273	2	54.9
2	Tangent	1214	-	-	54.9
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		243		167	
Percentage of Heavy Vehicles (HV%), %		8.80		41.21	
Initial Average Speed (Sint), mi/h		59.6		53.7	
Average Speed at Midpoint (SPLmid), mi/h		61.5		51.8	
Percent Followers at Midpoint (PFPLmid), %		28.6		13.0	
Vehicle Results					
Average Speed, mi/h		54.9	Percent Followers, %		39.5
Segment Travel Time, minutes		0.56	Follower Density, followers/mi/ln		2.9
Vehicle LOS		B			
Segment 6					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		13147
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		364	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.21
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.5
Speed Slope Coefficient		3.95118	Speed Power Coefficient		0.41674
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In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.1
%Improved % Followers		13.5	% Improved Avg Speed		1.3
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1214	1273	2	59.0
2	Tangent	53	-	-	59.2
3	Horizontal Curve	2323	1910	2	59.0
4	Tangent	686	-	-	59.2
5	Horizontal Curve	1478	1146	2	52.7
6	Tangent	422	-	-	59.2
7	Horizontal Curve	1162	955	2	52.7
8	Tangent	264	-	-	59.2
9	Horizontal Curve	739	716	2	46.1
10	Tangent	106	-	-	59.2
11	Horizontal Curve	1003	716	2	46.1
12	Tangent	106	-	-	59.2
13	Horizontal Curve	898	955	2	52.7
14	Tangent	317	-	-	59.2
15	Horizontal Curve	1267	955	2	52.7
16	Tangent	317	-	-	59.2
17	Horizontal Curve	792	2547	2	59.2
Vehicle Results					
Average Speed, mi/h		55.7	Percent Followers, %		47.1
Segment Travel Time, minutes		2.68	Follower Density, followers/mi/ln		2.7
Vehicle LOS		B			
Segment 7					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1690
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		364	Opposing Demand Flow Rate, veh/h		425
Peak Hour Factor		0.96	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.21
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.68635	Speed Power Coefficient		0.49285
PF Slope Coefficient		-1.31139	PF Power Coefficient		0.78479
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		2.7
%Improved % Followers		12.6	% Improved Avg Speed		1.0

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	845	2547	2	60.1
2	Tangent	845	-	-	60.1

Vehicle Results

Average Speed, mi/h	60.7	Percent Followers, %	44.7
Segment Travel Time, minutes	0.32	Follower Density, followers/mi/ln	2.3
Vehicle LOS	B		

Segment 8

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	9346
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	364	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.6
Speed Slope Coefficient	3.93113	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28164	PF Power Coefficient	0.74900
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	2.9
%Improved % Followers	8.9	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2587	-	-	59.3
2	Horizontal Curve	1426	955	2	52.7
3	Tangent	264	-	-	59.3
4	Horizontal Curve	1056	1637	2	59.0
5	Tangent	739	-	-	59.3
6	Horizontal Curve	898	1146	2	52.7
7	Tangent	53	-	-	59.3
8	Horizontal Curve	2006	1273	2	59.0
9	Tangent	317	-	-	59.3

Vehicle Results

Average Speed, mi/h	57.5	Percent Followers, %	45.2
Segment Travel Time, minutes	1.85	Follower Density, followers/mi/ln	2.6
Vehicle LOS	B		

Segment 9

Vehicle Inputs

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Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.8

Demand and Capacity

Directional Demand Flow Rate, veh/h	364	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	55.3
Speed Slope Coefficient	10.25557	Speed Power Coefficient	0.63025
PF Slope Coefficient	-1.56477	PF Power Coefficient	0.71652
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.8
%Improved % Followers	8.1	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2323	1042	0	50.8

Vehicle Results

Average Speed, mi/h	50.8	Percent Followers, %	53.1
Segment Travel Time, minutes	0.52	Follower Density, followers/mi/ln	3.5
Vehicle LOS	B		

Segment 10

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	2112
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	364	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	58.5
Speed Slope Coefficient	8.77159	Speed Power Coefficient	0.62509
PF Slope Coefficient	-1.35444	PF Power Coefficient	0.76708
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.1
%Improved % Followers	7.5	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	106	-	-	54.7
2	Horizontal Curve	2006	1910	2	54.7

Vehicle Results

Average Speed, mi/h	54.7	Percent Followers, %	46.4
Segment Travel Time, minutes	0.44	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 11

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4435
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	364	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	5	Free-Flow Speed, mi/h	53.2
Speed Slope Coefficient	15.09084	Speed Power Coefficient	0.62191
PF Slope Coefficient	-1.83412	PF Power Coefficient	0.83425
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.3
%Improved % Followers	6.4	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	528	-	-	46.6
2	Horizontal Curve	1003	1273	2	46.6
3	Tangent	53	-	-	46.6
4	Horizontal Curve	1267	1273	2	46.6
5	Tangent	106	-	-	46.6
6	Horizontal Curve	1267	1042	2	46.6
7	Tangent	211	-	-	46.6

Vehicle Results

Average Speed, mi/h	46.6	Percent Followers, %	54.5
Segment Travel Time, minutes	1.08	Follower Density, followers/mi/ln	4.0
Vehicle LOS	B		

Segment 12

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	3326
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	348	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.95	Total Trucks, %	22.00
		/ (D/C)	0.29

Intermediate Results			
Segment Vertical Class	4	Free-Flow Speed, mi/h	57.4
Speed Slope Coefficient	11.24989	Speed Power Coefficient	1.09561
PF Slope Coefficient	-1.06349	PF Power Coefficient	0.90257
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2112	1432	2	55.0
2	Tangent	1214	-	-	55.0

Passing Lane Results		
	Faster Lane	Slower Lane
Flow Rate, veh/h	211	138
Percentage of Heavy Vehicles (HV%), %	8.80	42.21
Initial Average Speed (Sint), mi/h	59.2	53.0
Average Speed at Midpoint (SPLmid), mi/h	61.1	51.1
Percent Followers at Midpoint (PFPLmid), %	24.6	9.4

Vehicle Results			
Average Speed, mi/h	55.0	Percent Followers, %	33.7
Segment Travel Time, minutes	0.69	Follower Density, followers/mi/ln	2.1
Vehicle LOS	B		

Segment 13

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3591
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.6

Demand and Capacity			
Directional Demand Flow Rate, veh/h	348	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.95	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.6
Speed Slope Coefficient	3.87909	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.30170	PF Power Coefficient	0.76590
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	2.6
%Improved % Followers	22.0	% Improved Avg Speed	3.1

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tanqent	1373	-	-	59.4
				2	59.0

Vehicle Results			
Average Speed, mi/h	61.0	Percent Followers, %	44.0
Segment Travel Time, minutes	0.67	Follower Density, followers/mi/ln	2.0
Vehicle LOS	A		

Segment 14

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3432
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	348	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.95	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	4	Free-Flow Speed, mi/h	55.4
Speed Slope Coefficient	10.58564	Speed Power Coefficient	0.61163
PF Slope Coefficient	-1.58995	PF Power Coefficient	0.74089
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.5
%Improved % Followers	18.5	% Improved Avg Speed	2.6

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3432	-	-	50.9

Vehicle Results			
Average Speed, mi/h	52.3	Percent Followers, %	51.7
Segment Travel Time, minutes	0.75	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 15

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	4435
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	50.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	348	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.95	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	52.0
Speed Slope Coefficient	3.36821	Speed Power Coefficient	0.41674
		ent	0.74195

In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.2		
%Improved % Followers	15.3	% Improved Avg Speed	1.9		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4435	-	-	50.1
Vehicle Results					
Average Speed, mi/h	51.1	Percent Followers, %	46.4		
Segment Travel Time, minutes	0.99	Follower Density, followers/mi/ln	2.7		
Vehicle LOS	B				
Segment 16					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	6389		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.3		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	364	Opposing Demand Flow Rate, veh/h	425		
Peak Hour Factor	0.91	Total Trucks, %	22.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.4		
Speed Slope Coefficient	3.71023	Speed Power Coefficient	0.49281		
PF Slope Coefficient	-1.23523	PF Power Coefficient	0.80077		
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	2.6		
%Improved % Followers	12.0	% Improved Avg Speed	0.9		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	6389	-	-	59.5
Vehicle Results					
Average Speed, mi/h	60.0	Percent Followers, %	42.3		
Segment Travel Time, minutes	1.21	Follower Density, followers/mi/ln	2.3		
Vehicle LOS	B				
Segment 17					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	9610		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.7		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	391	Opposing Demand Flow Rate, veh/h	-		
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Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.23
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		61.5
Speed Slope Coefficient		3.93169	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.28334	PF Power Coefficient		0.74701
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.3
%Improved % Followers		8.5	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2904	-	-	59.2
2	Horizontal Curve	1056	1910	2	58.9
3	Tangent	158	-	-	59.2
4	Horizontal Curve	1267	955	2	52.6
5	Tangent	370	-	-	59.2
6	Horizontal Curve	1637	955	2	52.6
7	Tangent	53	-	-	59.2
8	Horizontal Curve	1109	955	2	52.6
9	Tangent	1056	-	-	59.2
Vehicle Results					
Average Speed, mi/h		56.4	Percent Followers, %		47.1
Segment Travel Time, minutes		1.94	Follower Density, followers/mi/ln		3.0
Vehicle LOS		B			
Segment 18					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		7482
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		409	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1100	Demand/Capacity (D/C)		0.37
Intermediate Results					
Segment Vertical Class		5	Free-Flow Speed, mi/h		55.5
Speed Slope Coefficient		17.67194	Speed Power Coefficient		1.12697
PF Slope Coefficient		-0.91272	PF Power Coefficient		0.99960
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.5
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
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2	Horizontal Curve	1214	1042	2	50.8
3	Tangent	264	-	-	50.8
4	Horizontal Curve	1109	955	2	50.8
5	Tangent	686	-	-	50.8
6	Horizontal Curve	792	881	2	50.8
7	Tangent	53	-	-	50.8
8	Horizontal Curve	634	1146	2	50.8
9	Tangent	528	-	-	50.8
10	Horizontal Curve	195	881	2	50.8
11	Tangent	1373	-	-	50.8

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	243	167
Percentage of Heavy Vehicles (HV%), %	8.80	41.22
Initial Average Speed (S _{int}), mi/h	58.2	48.5
Average Speed at Midpoint (S _{PLmid}), mi/h	60.2	46.6
Percent Followers at Midpoint (PF _{PLmid}), %	21.8	7.3

Vehicle Results

Average Speed, mi/h	50.8	Percent Followers, %	31.2
Segment Travel Time, minutes	1.67	Follower Density, followers/mi/ln	2.5
Vehicle LOS	B		

Segment 19

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	3168
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	384	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1300	Demand/Capacity (D/C)	0.30

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	7.60765	Speed Power Coefficient	0.87306
PF Slope Coefficient	-1.15694	PF Power Coefficient	0.78069
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

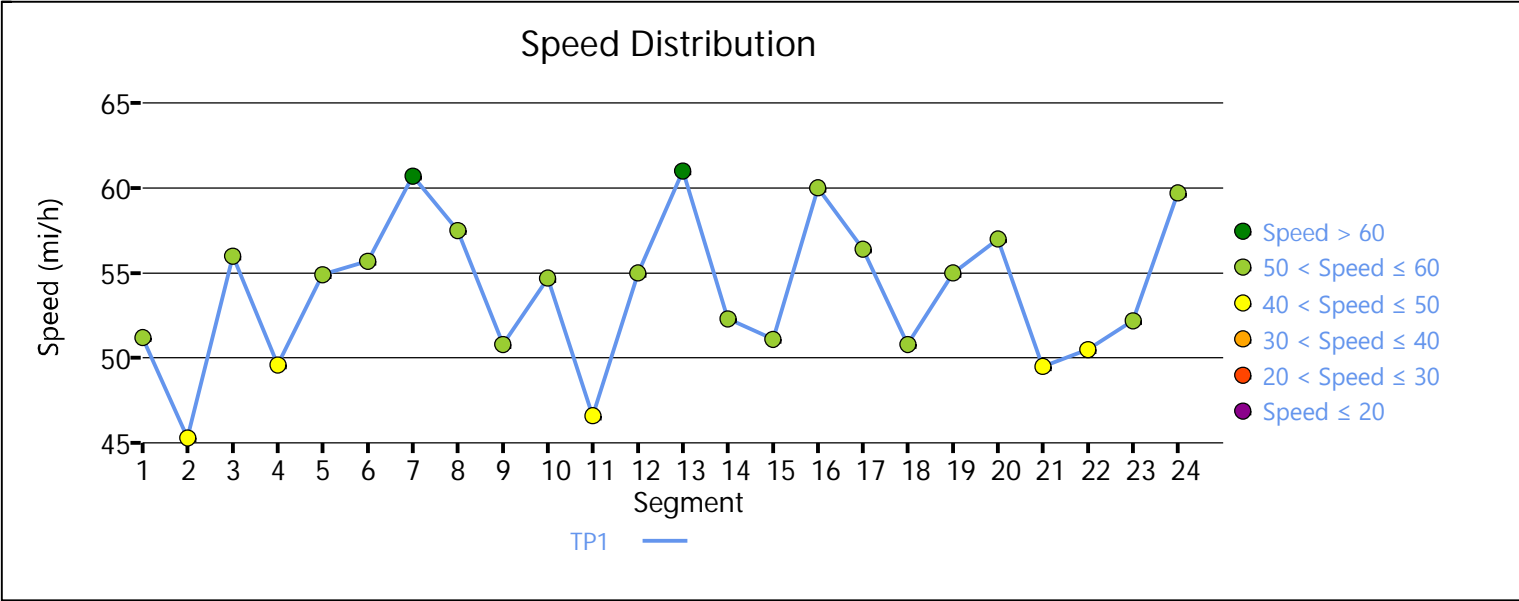
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1109	-	-	59.4
2	Horizontal Curve	2059	1042	2	52.6

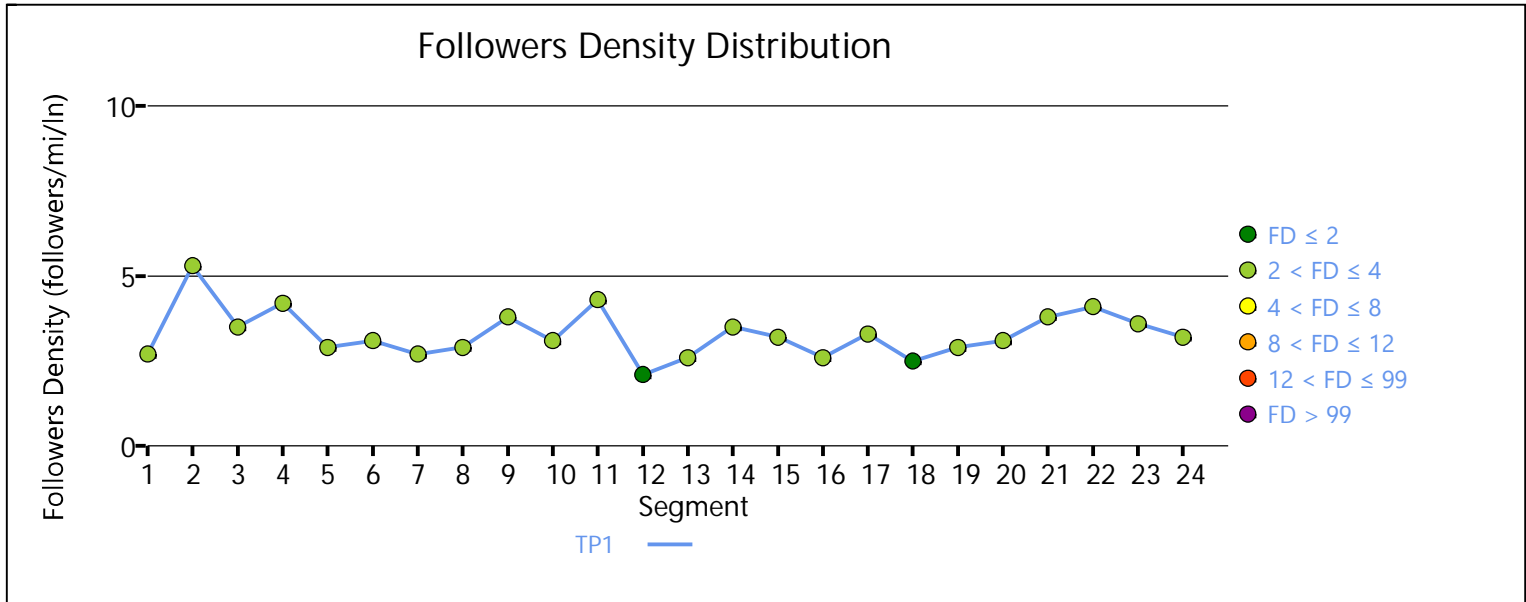
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		229		154	
Percentage of Heavy Vehicles (HV%), %		8.80		41.61	
Initial Average Speed (Sint), mi/h		61.3		60.7	
Average Speed at Midpoint (SPLmid), mi/h		63.2		58.8	
Percent Followers at Midpoint (PFPLmid), %		31.4		22.1	
Vehicle Results					
Average Speed, mi/h		55.0		Percent Followers, %	
Segment Travel Time, minutes		0.65		Follower Density, followers/mi/ln	
Vehicle LOS		B			
Segment 20					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		384		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.87		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.89525		Speed Power Coefficient	
PF Slope Coefficient		-1.28213		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
%Improved % Followers		17.4		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	634	1042	2	52.6
2	Tangent	53	-	-	59.2
3	Horizontal Curve	1214	955	2	52.6
4	Tangent	264	-	-	59.2
5	Horizontal Curve	1531	1273	2	58.9
6	Tangent	1531	-	-	59.2
Vehicle Results					
Average Speed, mi/h		57.0		Percent Followers, %	
Segment Travel Time, minutes		1.04		Follower Density, followers/mi/ln	
Vehicle LOS		B			
Segment 21					

Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2165
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		1.3
Demand and Capacity					
Directional Demand Flow Rate, veh/h		384	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.23
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		58.2
Speed Slope Coefficient		8.45373	Speed Power Coefficient		0.61698
PF Slope Coefficient		-1.37631	PF Power Coefficient		0.76388
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.8
%Improved % Followers		15.4	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	955	2	52.6
2	Tangent	53	-	-	54.3
3	Horizontal Curve	1056	716	2	46.0
4	Tangent	53	-	-	54.3
5	Horizontal Curve	581	955	2	52.6
Vehicle Results					
Average Speed, mi/h		49.5	Percent Followers, %		48.4
Segment Travel Time, minutes		0.50	Follower Density, followers/mi/ln		3.2
Vehicle LOS		B			
Segment 22					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3750
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		384	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.23
Intermediate Results					
Segment Vertical Class		4	Free-Flow Speed, mi/h		55.4
Speed Slope Coefficient		10.65976	Speed Power Coefficient		0.60372
PF Slope Coefficient		-1.60099	PF Power Coefficient		0.74834
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.1
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Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	106	-	-	50.5
2	Horizontal Curve	950	955	2	50.5
3	Tangent	53	-	-	50.5
4	Horizontal Curve	898	1042	2	50.5
5	Tangent	53	-	-	50.5
6	Horizontal Curve	845	996	2	50.5
7	Tangent	53	-	-	50.5
8	Horizontal Curve	792	1042	2	50.5
Vehicle Results					
Average Speed, mi/h		50.5	Percent Followers, %		54.3
Segment Travel Time, minutes		0.84	Follower Density, followers/mi/ln		3.6
Vehicle LOS		B			
Segment 23					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2482
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		11.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		384	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.23
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		55.8
Speed Slope Coefficient		7.62366	Speed Power Coefficient		0.59794
PF Slope Coefficient		-1.37647	PF Power Coefficient		0.75713
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.6
%Improved % Followers		11.4	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2482	-	-	52.2
Vehicle Results					
Average Speed, mi/h		52.2	Percent Followers, %		48.7
Segment Travel Time, minutes		0.54	Follower Density, followers/mi/ln		3.2
Vehicle LOS		B			
Segment 24					
Vehicle Inputs					

Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		384	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.87	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.23
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient		3.86735	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.37557	PF Power Coefficient		0.74346
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.2
%Improved % Followers		10.7	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1267	-	-	59.7
Vehicle Results					
Average Speed, mi/h		59.7	Percent Followers, %		49.1
Segment Travel Time, minutes		0.24	Follower Density, followers/mi/ln		2.8
Vehicle LOS		B			
Facility Results					
T	Follower Density, followers/mi/ln			LOS	
1	2.9			B	





HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Gold Beach south UGB to Brookings north UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Lanes		Length, ft	1267
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		449		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.87		Total Trucks, %	22.00
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.26
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient		3.88867		Speed Power Coefficient	0.41674
PF Slope Coefficient		-1.31981		PF Power Coefficient	0.76127
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	3.9
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1267	-	-	59.5
Vehicle Results					
Average Speed, mi/h		59.5		Percent Followers, %	51.2
Segment Travel Time, minutes		0.24		Follower Density, followers/mi/ln	3.9
Vehicle LOS		B			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Lanes		Length, ft	6232
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	1.7
Demand and Capacity					
Directional Demand Flow Rate, veh/h		449		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.87		Total Trucks, %	22.00
Segment Capacity, veh/h		1100		Demand/Capacity (D/C)	0.41
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Segment Vertical Class	5	Free-Flow Speed, mi/h	55.4
Speed Slope Coefficient	17.00975	Speed Power Coefficient	1.12201
PF Slope Coefficient	-0.93548	PF Power Coefficient	0.95436
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2482	-	-	50.2
2	Horizontal Curve	792	1042	2	50.2
3	Tangent	53	-	-	50.2
4	Horizontal Curve	845	996	2	50.2
5	Tangent	53	-	-	50.2
6	Horizontal Curve	898	1042	2	50.2
7	Tangent	53	-	-	50.2
8	Horizontal Curve	950	955	2	50.2
9	Tangent	106	-	-	50.2

Passing Lane Results

	Faster Lane	Slower Lane
Flow Rate, veh/h	263	186
Percentage of Heavy Vehicles (HV%), %	8.80	40.64
Initial Average Speed (Sint), mi/h	57.9	48.5
Average Speed at Midpoint (SPLmid), mi/h	59.8	46.6
Percent Followers at Midpoint (PFPLmid), %	24.7	9.9

Vehicle Results

Average Speed, mi/h	50.2	Percent Followers, %	35.3
Segment Travel Time, minutes	1.41	Follower Density, followers/mi/ln	3.2
Vehicle LOS	B		

Segment 3

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	2165
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.4

Demand and Capacity

Directional Demand Flow Rate, veh/h	449	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	54.9
Speed Slope Coefficient	10.00261	Speed Power Coefficient	0.62812
PF Slope Coefficient	-1.56591	PF Power Coefficient	0.71551
		ensity, veh/mi/ln	5.5

%Improved % Followers	21.1	% Improved Avg Speed	2.5
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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	581	955	2	49.7
2	Tangent	53	-	-	49.7
3	Horizontal Curve	1056	716	2	46.0
4	Tangent	53	-	-	49.7
5	Horizontal Curve	422	955	2	49.7

Vehicle Results

Average Speed, mi/h	49.1	Percent Followers, %	58.7
Segment Travel Time, minutes	0.50	Follower Density, followers/mi/ln	4.2
Vehicle LOS	C		

Segment 4

Vehicle Inputs

Segment Type	Passing Lanes	Length, ft	1267
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	449	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.0
Speed Slope Coefficient	3.88867	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31981	PF Power Coefficient	0.76127
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.9
%Improved % Followers	19.9	% Improved Avg Speed	2.3

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1267	-	-	59.5

Vehicle Results

Average Speed, mi/h	60.8	Percent Followers, %	51.2
Segment Travel Time, minutes	0.24	Follower Density, followers/mi/ln	3.0
Vehicle LOS	B		

Segment 5

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6128
Lane Width, ft	12	Shoulder Width, ft	6

Demand and Capacity			
Directional Demand Flow Rate, veh/h	449	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.87	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.26

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.6
Speed Slope Coefficient	3.90644	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27693	PF Power Coefficient	0.76604
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.0
%Improved % Followers	15.6	% Improved Avg Speed	1.4

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	264	-	-	59.1
2	Horizontal Curve	1531	1273	2	58.8
3	Tangent	264	-	-	59.1
4	Horizontal Curve	1214	955	2	52.6
5	Tangent	53	-	-	59.1
6	Horizontal Curve	1693	1042	2	52.6
7	Tangent	1109	-	-	59.1

Vehicle Results			
Average Speed, mi/h	56.7	Percent Followers, %	49.9
Segment Travel Time, minutes	1.23	Follower Density, followers/mi/ln	3.3
Vehicle LOS	B		

Segment 6

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	9187
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.1

Demand and Capacity			
Directional Demand Flow Rate, veh/h	457	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.91	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.27

Intermediate Results			
Segment Vertical Class	5	Free-Flow Speed, mi/h	48.9
Speed Slope Coefficient	14.87794	Speed Power Coefficient	0.38460
PF Slope Coefficient	-2.07860	PF Power Coefficient	0.85487
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	7.7
%Improved % Followers	11.5	% Improved Avg Speed	0.0

Subsegment Data			
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1	Tangent	1373	-	-	38.9
2	Horizontal Curve	1795	881	2	38.9
3	Tangent	528	-	-	38.9
4	Horizontal Curve	634	1146	2	38.9
5	Tangent	53	-	-	38.9
6	Horizontal Curve	792	881	2	38.9
7	Tangent	686	-	-	38.9
8	Horizontal Curve	1109	955	2	38.9
9	Tangent	264	-	-	38.9
10	Horizontal Curve	1214	1042	2	38.9
11	Tangent	739	-	-	38.9

Vehicle Results

Average Speed, mi/h	38.9	Percent Followers, %	65.5
Segment Travel Time, minutes	2.68	Follower Density, followers/mi/ln	6.8
Vehicle LOS	C		

Segment 7

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	8501
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.9

Demand and Capacity

Directional Demand Flow Rate, veh/h	457	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.91	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.27

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.5
Speed Slope Coefficient	3.92073	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27854	PF Power Coefficient	0.75451
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.2
%Improved % Followers	9.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	950	-	-	58.9
2	Horizontal Curve	1109	955	2	52.5
3	Tangent	53	-	-	58.9
4	Horizontal Curve	1637	955	2	52.5
5	Tangent	370	-	-	58.9
6	Horizontal Curve	1267	955	2	52.5
7	Tangent	158	-	-	58.9
8	Horizontal Curve	1056	1910	2	58.8

Vehicle Results			
Average Speed, mi/h	55.9	Percent Followers, %	50.8
Segment Travel Time, minutes	1.73	Follower Density, followers/mi/ln	3.8
Vehicle LOS	B		

Segment 8

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	6494
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.8

Demand and Capacity			
Directional Demand Flow Rate, veh/h	407	Opposing Demand Flow Rate, veh/h	348
Peak Hour Factor	0.95	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.71120	Speed Power Coefficient	0.50576
PF Slope Coefficient	-1.22261	PF Power Coefficient	0.80558
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	3.1
%Improved % Followers	7.9	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	6494	-	-	59.7

Vehicle Results			
Average Speed, mi/h	59.7	Percent Followers, %	44.7
Segment Travel Time, minutes	1.24	Follower Density, followers/mi/ln	2.8
Vehicle LOS	B		

Segment 9

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	5438
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	407	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.95	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	3.90678	Speed Power Coefficient	0.41674
		ent	0.76791

In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.3
%Improved % Followers		6.8	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5438	-	-	59.3
Vehicle Results					
Average Speed, mi/h		59.3	Percent Followers, %		47.4
Segment Travel Time, minutes		1.04	Follower Density, followers/mi/ln		3.0
Vehicle LOS		B			
Segment 10					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		4593
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		407	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		22.00
Segment Capacity, veh/h		1100	Demand/Capacity (D/C)		0.37
Intermediate Results					
Segment Vertical Class		5	Free-Flow Speed, mi/h		56.0
Speed Slope Coefficient		16.36392	Speed Power Coefficient		1.11192
PF Slope Coefficient		-0.98186	PF Power Coefficient		0.88989
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		2.8
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3326	-	-	51.5
2	Horizontal Curve	1267	1910	2	51.5
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		242		166	
Percentage of Heavy Vehicles (HV%), %		8.80		41.24	
Initial Average Speed (Sint), mi/h		58.6		49.4	
Average Speed at Midpoint (SPLmid), mi/h		60.5		47.5	
Percent Followers at Midpoint (PFPLmid), %		25.4		11.1	
Vehicle Results					
Average Speed, mi/h		51.5		Percent Followers, %	
Segment Travel Time, minutes		1.01		Follower Density, followers/mi/ln	
Vehicle LOS		B			

Segment 11					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		3537
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		4.5
Demand and Capacity					
Directional Demand Flow Rate, veh/h		407	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.8
Speed Slope Coefficient		3.83915	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.30913	PF Power Coefficient		0.76387
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.4
%Improved % Followers		20.4	% Improved Avg Speed		2.1
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	950	1910	2	58.5
2	Tangent	2587	-	-	58.5
Vehicle Results					
Average Speed, mi/h		59.7	Percent Followers, %		48.3
Segment Travel Time, minutes		0.67	Follower Density, followers/mi/ln		2.6
Vehicle LOS		B			
Segment 12					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		2323
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		2.3
Demand and Capacity					
Directional Demand Flow Rate, veh/h		407	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		58.0
Speed Slope Coefficient		8.42234	Speed Power Coefficient		0.61640
PF Slope Coefficient		-1.37014	PF Power Coefficient		0.76390
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		3.8
%Improved % Followers		18.2	% Improved Avg Speed		1.8

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2112	1432	2	53.9
2	Tangent	211	-	-	53.9
Vehicle Results					
Average Speed, mi/h		54.9	Percent Followers, %		49.8
Segment Travel Time, minutes		0.48	Follower Density, followers/mi/ln		3.0
Vehicle LOS		B			
Segment 13					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1373
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		407	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.95	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.24
Intermediate Results					
Segment Vertical Class		3	Free-Flow Speed, mi/h		58.5
Speed Slope Coefficient		8.19723	Speed Power Coefficient		0.61142
PF Slope Coefficient		-1.43155	PF Power Coefficient		0.75838
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		4.0
%Improved % Followers		17.1	% Improved Avg Speed		1.6
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1267	1042	2	52.6
2	Tangent	106	-	-	54.6
Vehicle Results					
Average Speed, mi/h		53.6	Percent Followers, %		51.5
Segment Travel Time, minutes		0.29	Follower Density, followers/mi/ln		3.2
Vehicle LOS		B			
Segment 14					
Vehicle Inputs					
Segment Type		Passing Lanes	Length, ft		2851
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.7
Demand and Capacity					
Directional Demand Flow Rate, veh/h		425	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.96	Total Trucks, %		22.00
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Intermediate Results			
Segment Vertical Class	4	Free-Flow Speed, mi/h	57.2
Speed Slope Coefficient	11.08813	Speed Power Coefficient	1.08475
PF Slope Coefficient	-1.08740	PF Power Coefficient	0.87947
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1267	1273	2	54.0
2	Tangent	53	-	-	54.0
3	Horizontal Curve	1003	1273	2	54.0
4	Tangent	528	-	-	54.0

Passing Lane Results		
	Faster Lane	Slower Lane
Flow Rate, veh/h	251	174
Percentage of Heavy Vehicles (HV%), %	8.80	40.98
Initial Average Speed (Sint), mi/h	58.7	52.8
Average Speed at Midpoint (SPLmid), mi/h	60.6	50.9
Percent Followers at Midpoint (PFPLmid), %	29.0	13.6

Vehicle Results			
Average Speed, mi/h	54.0	Percent Followers, %	40.1
Segment Travel Time, minutes	0.60	Follower Density, followers/mi/ln	3.2
Vehicle LOS	B		

Segment 15

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3010
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.8

Demand and Capacity			
Directional Demand Flow Rate, veh/h	425	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.25

Intermediate Results			
Segment Vertical Class	4	Free-Flow Speed, mi/h	55.0
Speed Slope Coefficient	10.19061	Speed Power Coefficient	0.61972
PF Slope Coefficient	-1.57717	PF Power Coefficient	0.72811
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.9
%Improved % Followers	21.8	% Improved Avg Speed	2.5

Subsegment Data			
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1	Horizontal Curve	2006	1910	2	49.9
2	Tangent	106	-	-	49.9
3	Horizontal Curve	898	1042	0	49.9

Vehicle Results

Average Speed, mi/h	51.2	Percent Followers, %	57.1
Segment Travel Time, minutes	0.67	Follower Density, followers/mi/ln	3.7
Vehicle LOS	B		

Segment 16

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	9875
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	1.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	425	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.96	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.25

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	54.8
Speed Slope Coefficient	11.33982	Speed Power Coefficient	0.44931
PF Slope Coefficient	-1.86542	PF Power Coefficient	0.77738
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	5.5
%Improved % Followers	13.2	% Improved Avg Speed	1.1

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1426	1042	0	48.0
2	Tangent	317	-	-	48.0
3	Horizontal Curve	2006	1273	2	48.0
4	Tangent	53	-	-	48.0
5	Horizontal Curve	898	1146	2	48.0
6	Tangent	739	-	-	48.0
7	Horizontal Curve	1056	1637	2	48.0
8	Tangent	264	-	-	48.0
9	Horizontal Curve	1426	955	2	48.0
10	Tangent	1690	-	-	48.0

Vehicle Results

Average Speed, mi/h	48.5	Percent Followers, %	61.7
Segment Travel Time, minutes	2.31	Follower Density, followers/mi/ln	4.7
Vehicle LOS	C		

Segment 17

Segment Type		Passing Zone		Length, ft		1742	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		0.0	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		425		Opposing Demand Flow Rate, veh/h		364	
Peak Hour Factor		0.96		Total Trucks, %		22.00	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.25	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		62.0	
Speed Slope Coefficient		3.67118		Speed Power Coefficient		0.50303	
PF Slope Coefficient		-1.30044		PF Power Coefficient		0.78859	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln		3.4	
%Improved % Followers		12.3		% Improved Avg Speed		0.8	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	1742	-	-	59.9		
Vehicle Results							
Average Speed, mi/h		60.4		Percent Followers, %		48.4	
Segment Travel Time, minutes		0.33		Follower Density, followers/mi/ln		3.0	
Vehicle LOS		B					
Segment 18							
Vehicle Inputs							
Segment Type		Passing Constrained		Length, ft		15206	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		55		Access Point Density, pts/mi		1.4	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		425		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.96		Total Trucks, %		22.00	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.25	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		61.6	
Speed Slope Coefficient		3.97156		Speed Power Coefficient		0.41674	
PF Slope Coefficient		-1.34056		PF Power Coefficient		0.69492	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln		4.0	
%Improved % Followers		6.8		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Horizontal Curve	1637	2547	2	59.1		
2	Tanqent	317	-	-	59.1		
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4	Tangent	317	-	-	59.1
5	Horizontal Curve	898	955	2	52.6
6	Tangent	106	-	-	59.1
7	Horizontal Curve	1003	716	2	46.0
8	Tangent	106	-	-	59.1
9	Horizontal Curve	739	716	2	46.0
10	Tangent	264	-	-	59.1
11	Horizontal Curve	1162	955	2	52.6
12	Tangent	422	-	-	59.1
13	Horizontal Curve	1478	1146	2	52.6
14	Tangent	686	-	-	59.1
15	Horizontal Curve	2323	1910	2	58.8
16	Tangent	53	-	-	59.1
17	Horizontal Curve	1214	1273	2	58.8
18	Tangent	1214	-	-	59.1

Vehicle Results

Average Speed, mi/h	55.5	Percent Followers, %	52.3
Segment Travel Time, minutes	3.11	Follower Density, followers/mi/ln	3.7
Vehicle LOS	B		

Segment 19

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2481
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	2.1

Demand and Capacity

Directional Demand Flow Rate, veh/h	477	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.93	Total Trucks, %	22.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.28

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	58.0
Speed Slope Coefficient	8.50328	Speed Power Coefficient	0.61856
PF Slope Coefficient	-1.36320	PF Power Coefficient	0.76477
In Passing Lane Effective Length?	Yes	Total Segment Density, veh/mi/ln	4.8
%Improved % Followers	5.6	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1478	1273	2	53.4
2	Tangent	1003	-	-	53.4

Vehicle Results

Average Speed, mi/h	53.4	Percent Followers, %	53.9
		followers/mi/ln	4.6

Vehicle LOS		C			
Segment 20					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		477		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.93		Total Trucks, %	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h	
Speed Slope Coefficient		3.85445		Speed Power Coefficient	
PF Slope Coefficient		-1.29156		PF Power Coefficient	
In Passing Lane Effective Length?		Yes		Total Segment Density, veh/mi/ln	
%Improved % Followers		4.5		% Improved Avg Speed	
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1901	1432	2	58.3
2	Tangent	211	-	-	58.3
3	Horizontal Curve	1426	1432	2	58.3
4	Tangent	211	-	-	58.3
5	Horizontal Curve	1056	955	2	52.5
Vehicle Results					
Average Speed, mi/h		57.0		Percent Followers, %	
Segment Travel Time, minutes		0.96		Follower Density, followers/mi/ln	
Vehicle LOS		C			
Segment 21					
Vehicle Inputs					
Segment Type		Passing Lanes		Length, ft	
Lane Width, ft		12		Shoulder Width, ft	
Speed Limit, mi/h		55		Access Point Density, pts/mi	
Demand and Capacity					
Directional Demand Flow Rate, veh/h		477		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.93		Total Trucks, %	
Segment Capacity, veh/h		1100		Demand/Capacity (D/C)	
Intermediate Results					
Segment Vertical Class		5		Free-Flow Speed, mi/h	
				fficient	
				1.12350	

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PF Slope Coefficient		-0.94419	PF Power Coefficient		0.92925
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		3.7
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	106	-	-	49.3
2	Horizontal Curve	1320	1432	2	49.3
3	Tangent	53	-	-	49.3
4	Horizontal Curve	1162	955	2	49.3
5	Tangent	370	-	-	49.3
6	Horizontal Curve	1162	1432	2	49.3
7	Tangent	1531	-	-	49.3
Passing Lane Results					
		Faster Lane		Slower Lane	
Flow Rate, veh/h		277		200	
Percentage of Heavy Vehicles (HV%), %		8.80		40.27	
Initial Average Speed (Sint), mi/h		57.1		47.9	
Average Speed at Midpoint (SPLmid), mi/h		59.0		46.0	
Percent Followers at Midpoint (PFPLmid), %		26.5		11.7	
Vehicle Results					
Average Speed, mi/h		49.3	Percent Followers, %		37.8
Segment Travel Time, minutes		1.32	Follower Density, followers/mi/ln		3.7
Vehicle LOS		B			
Segment 22					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		5228
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		3.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		477	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.93	Total Trucks, %		22.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.28
Intermediate Results					
Segment Vertical Class		5	Free-Flow Speed, mi/h		51.9
Speed Slope Coefficient		14.88471	Speed Power Coefficient		0.58231
PF Slope Coefficient		-1.87122	PF Power Coefficient		0.84644
In Passing Lane Effective Length?		Yes	Total Segment Density, veh/mi/ln		6.9
%Improved % Followers		18.3	% Improved Avg Speed		2.0

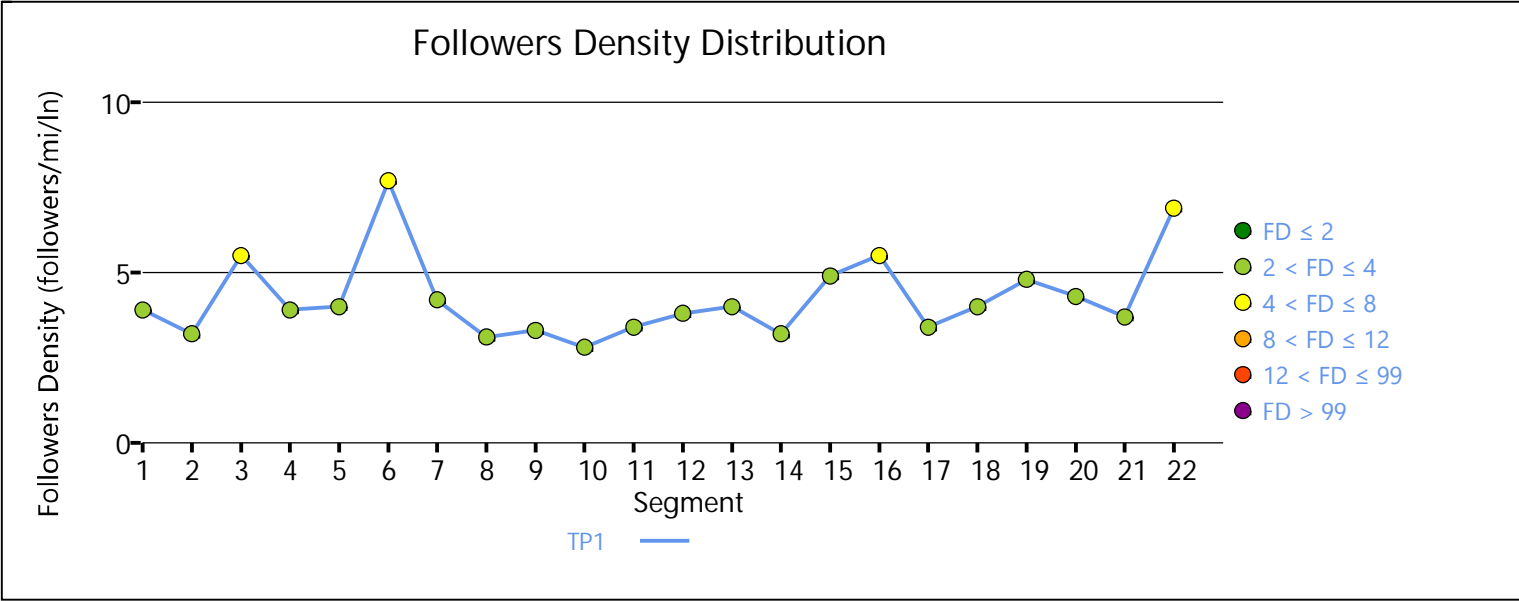
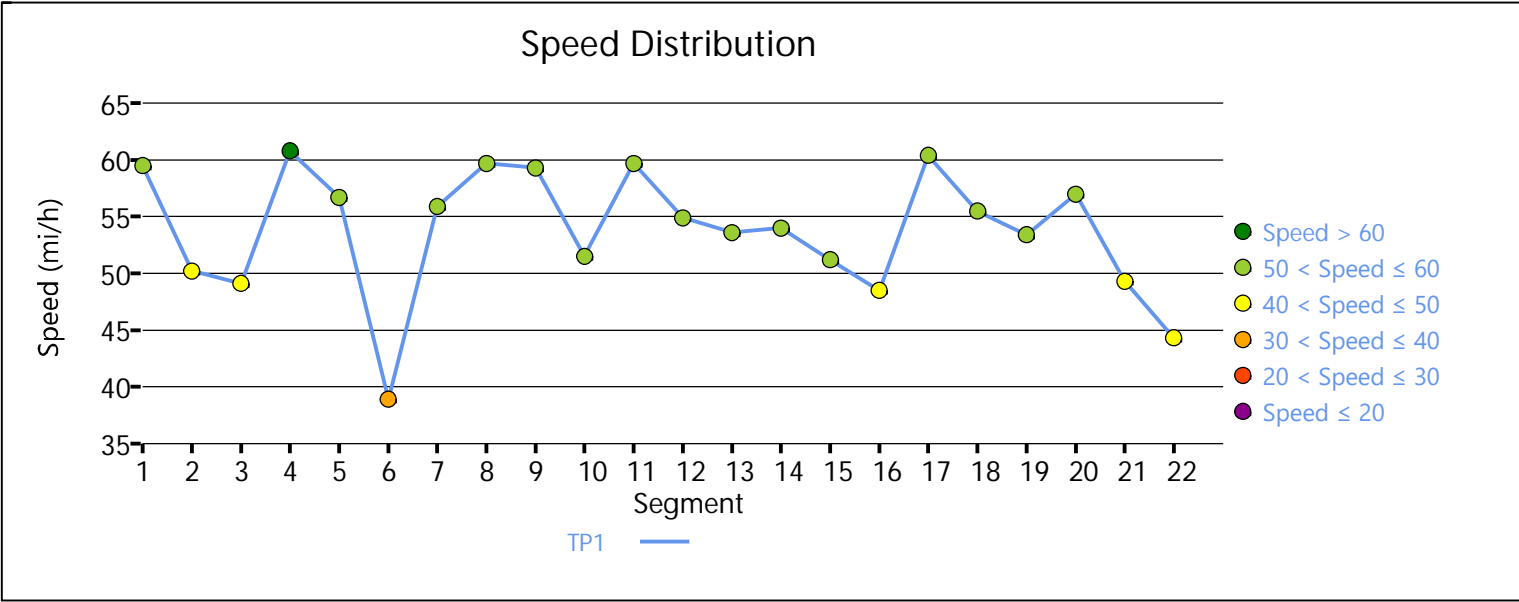
1	Tangent	2112	-	-	43.5
2	Horizontal Curve	1426	1910	2	43.5
3	Tangent	1690	-	-	43.5

Vehicle Results

Average Speed, mi/h	44.3	Percent Followers, %	63.2
Segment Travel Time, minutes	1.34	Follower Density, followers/mi/ln	5.6
Vehicle LOS	C		

Facility Results

T	Follower Density, followers/mi/ln	LOS
1	3.9	B



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/27/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		CA border to Brookings south UGB		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained		Length, ft	5650
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	9.3
Demand and Capacity					
Directional Demand Flow Rate, veh/h		929		Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor		0.92		Total Trucks, %	23.90
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.55
Intermediate Results					
Segment Vertical Class		2		Free-Flow Speed, mi/h	58.1
Speed Slope Coefficient		4.79071		Speed Power Coefficient	0.47129
PF Slope Coefficient		-1.33928		PF Power Coefficient	0.75116
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln	12.4
%Improved % Followers		0.0		% Improved Avg Speed	0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5650	-	-	53.7
Vehicle Results					
Average Speed, mi/h		53.7		Percent Followers, %	71.8
Segment Travel Time, minutes		1.20		Follower Density, followers/mi/ln	12.4
Vehicle LOS		E			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Zone		Length, ft	1267
Lane Width, ft		12		Shoulder Width, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		903		Opposing Demand Flow Rate, veh/h	1010
Peak Hour Factor		0.93		Total Trucks, %	23.90
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)	0.53
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Segment Vertical Class	1	Free-Flow Speed, mi/h	61.9
Speed Slope Coefficient	3.79184	Speed Power Coefficient	0.43660
PF Slope Coefficient	-1.37174	PF Power Coefficient	0.75716
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	11.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1267	-	-	58.5

Vehicle Results

Average Speed, mi/h	58.5	Percent Followers, %	71.9
Segment Travel Time, minutes	0.25	Follower Density, followers/mi/ln	11.1
Vehicle LOS	D		

Segment 3

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1478
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.6

Demand and Capacity

Directional Demand Flow Rate, veh/h	903	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.93	Total Trucks, %	23.90
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.53

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	59.8
Speed Slope Coefficient	5.00194	Speed Power Coefficient	0.46539
PF Slope Coefficient	-1.46637	PF Power Coefficient	0.73624
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	12.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

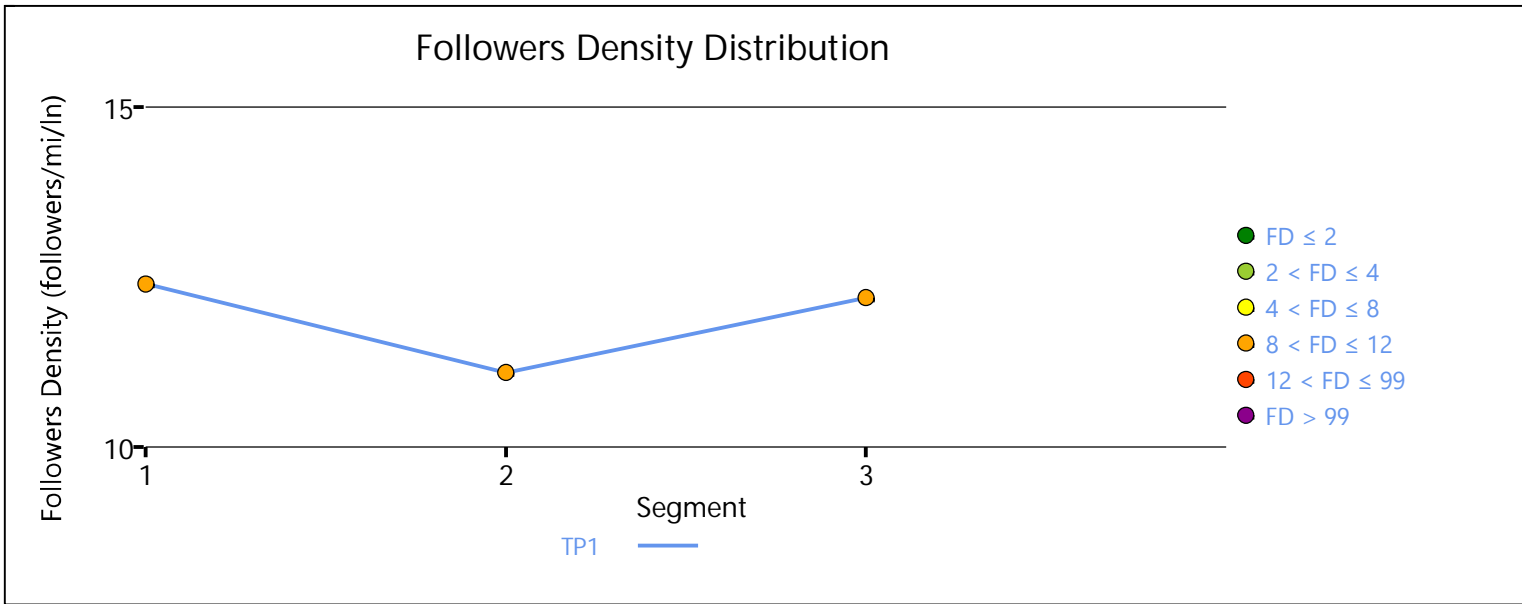
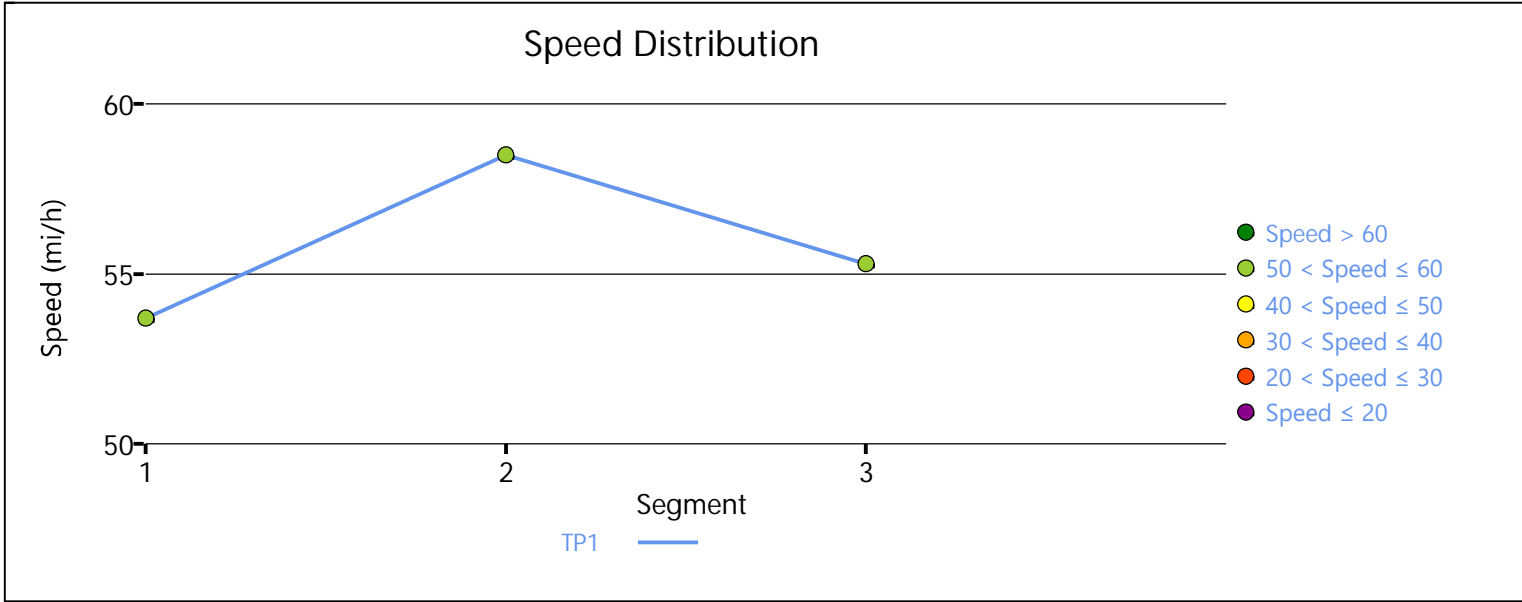
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1478	-	-	55.3

Vehicle Results

Average Speed, mi/h	55.3	Percent Followers, %	74.3
Segment Travel Time, minutes	0.30	Follower Density, followers/mi/ln	12.2
Vehicle LOS	E		

Facility Results

T	Follower Density, followers/mi/ln	LOS
1	12.2	E



HCS7 Two-Lane Highway Report					
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description		Brooking south UGB to CA border		Units	U.S. Customary
Segment 1					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		6230
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		6.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1010	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.93	Total Trucks, %		24.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.59
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		60.2
Speed Slope Coefficient		3.83193	Speed Power Coefficient		0.41674
PF Slope Coefficient		-1.28831	PF Power Coefficient		0.76237
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		13.0
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	6230	-	-	56.5
Vehicle Results					
Average Speed, mi/h		56.5	Percent Followers, %		72.7
Segment Travel Time, minutes		1.25	Follower Density, followers/mi/ln		13.0
Vehicle LOS		E			
Segment 2					
Vehicle Inputs					
Segment Type		Passing Constrained	Length, ft		1742
Lane Width, ft		12	Shoulder Width, ft		6
Speed Limit, mi/h		55	Access Point Density, pts/mi		6.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h		1010	Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.93	Total Trucks, %		24.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.59
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Segment Vertical Class	2	Free-Flow Speed, mi/h	59.1
Speed Slope Coefficient	4.88071	Speed Power Coefficient	0.46256
PF Slope Coefficient	-1.45026	PF Power Coefficient	0.73818
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	14.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1742	-	-	54.5

Vehicle Results

Average Speed, mi/h	54.5	Percent Followers, %	76.8
Segment Travel Time, minutes	0.36	Follower Density, followers/mi/ln	14.2
Vehicle LOS	E		

Segment 3

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	422
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	12.5

Demand and Capacity

Directional Demand Flow Rate, veh/h	1037	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.92	Total Trucks, %	24.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.61

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	58.8
Speed Slope Coefficient	3.69437	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.40521	PF Power Coefficient	0.73669
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	14.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-	-	55.2

Vehicle Results

Average Speed, mi/h	55.2	Percent Followers, %	76.4
Segment Travel Time, minutes	0.09	Follower Density, followers/mi/ln	14.4
Vehicle LOS	E		

Facility Results

T	Follower Density, followers/mi/ln	LOS
1	13.3	E

