# **TECHNICAL MEMORANDUM #6 (DRAFT)**

DATE: July 12, 2024

TO: Virginia Elandt | ODOT

FROM: Scott Beaird, PE | Kittelson & Associates

Robert Olney | Kittelson & Associates

Joel Rabinovitz | DKS Associates

SUBJECT: OR 42-US 101 Passing Lanes Study

**Future Year Traffic Operations** 

DKS P#22129-004

### **INTRODUCTION**

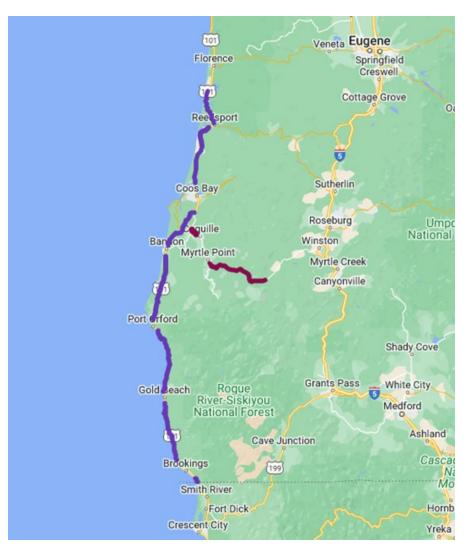
US 101 (Oregon Coast Highway; ODOT Highway #009) and OR 42 (Coos Bay-Roseburg Highway; ODOT Highway #035) are two highways in southwestern Oregon. US 101 travels north-south along the Oregon Coast, spanning the length of the state and traversing seven counties. It is an important corridor for tourism 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 rates<sup>1</sup>.

<sup>&</sup>lt;sup>1</sup> 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 30<sup>th</sup>-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
	7.10	9.38	Lampa Ln to Coquille west UGB	Facility 42-A (Eastbound and Westbound)
OR 42	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)
	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)
US 101	245.00	260.63	US 101/OR 42 junction to Bandon north UGB	Facility 101-D (Northbound and Southbound)
03 101	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  $HCM\ 6^{th}\ Edition$ . 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	
ТҮРЕ	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	
ТҮРЕ	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 <sup>1</sup>
SUPERELEVATION, %	Superelevation, %	ODOT Horizontal Curve Reports <sup>2</sup>

### Notes:

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

<sup>&</sup>lt;sup>1</sup> Calculated using curve length and central angle

<sup>&</sup>lt;sup>2</sup> Assumed 2% where not provided

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

### Notes:

As shown, only two facilities are shown to operate at worse than LOS D under 30<sup>th</sup> 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.

<sup>&</sup>lt;sup>1</sup> Followers/mile/lane

TABLE 4. US 101 SEGMENTS PROJECTED TO EXCEED MOBILITY TARGETS

DIRECTION	ENDING MILE POINT	BEGINNING MILE POINT	PASSING CONTEXT	DEMAND/CAPACITY
	233.93	233.54	Passing Constrained	0.89
NB	233.54	233.17	Passing Constrained	0.89
-	233.17	232.66	Passing Constrained	0.89
	230.48	231.15	Passing Lane	0.80
SB	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<sup>1,2,3</sup>

Daily Volume	Paved Shoulder Width				
(vpd)	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 <sup>4</sup>	BLTS R4	BLTS R3	BLTS R2		
> 7000	BLTS R4	BLTS R4	BLTS R3		

<sup>&</sup>lt;sup>1</sup> Based on p1-3 & Table 1-2 from the Oregon Bicycle and Pedestrian Design Guide, 2011.

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
	251.02	252.52	3	4
_	252.52	253.89	3	4
_	253.89	254.57	2	3
_	254.57	255.35	2	3
NB	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

<sup>&</sup>lt;sup>2</sup>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.

<sup>&</sup>lt;sup>3</sup>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.
<sup>4</sup>Over 1500 AADT, the Oregon Bicycle and Pedestrian Design Guide indicates the need for shoulders.

DIRECTION	ENDING MILE POINT	BEGINNING MILE POINT	EXISTING MAX BLTS	PROJECTED FUTURE MAX BLTS
	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
SB -	255.67	254.57	2	3
3B -	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	o-Lane	Highway R	eport	
Pro	ject Information					
Anal	yst	RXO	RXO			3/6/2024
Ager	ncy					2024
Juris	diction			Time Analyzed		
Proje	ect Description	OR 42 - Lampa L Coquille west UG		Units		U.S. Customary
			Segn	nent 1		
Ver	icle Inputs					
Segr	nent Type	Passing Constrain	ned	Length, ft		12040
Lane	Width, ft	12		Shoulder Width,	ft	6
Spec	d Limit, mi/h	55		Access Point Den	ısity, pts/mi	1.8
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	698		Opposing Demar	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.96		Total Trucks, %		14.00
Segr	nent Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.41
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed, mi/h		61.8
Spee	d Slope Coefficient	3.96134		Speed Power Coefficient		0.41674
PF SI	ope Coefficient	-1.30162		PF Power Coefficient		0.72605
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		7.9
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	segment Data					<u>'</u>
#	Segment Type	Length, ft	Rac	dius, 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	143	32	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	114	16	2	52.5
9	Tangent	53	-		-	58.6
10	Horizontal Curve	422	955	· )	2	52.5
	Tangent	2112	-		-	58.6
11	Horizontal Curve	1320	955	j	2	52.5
		F2			-	58.6
12	Tangent	53	-			
11 12 13 14	Tangent Horizontal Curve	845	191	0	2	58.5

Segment Travel Ti	me, minutes	2.44	Follower	Density, followers/mi/ln	7.9
Vehicle LOS		С			
Facility Resul	lts				
Т	Follower I	Density, followers/mi/ln		LOS	;
1		7.9		С	

Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 OR 42 - Facility A (EB) - FUTURE.xuf Generated: 05/02/2024 09:53:26

		HCS7 Two-	-Lane	Highway R	eport	
Pro	ject Information					
Anal	yst			Date		3/7/2024
Ager	псу			Analysis Year		2024
Juris	diction			Time Analyzed		
Proje	ect Description	OR 42 - Coquille w to Lampa Ln (WB)	est UGB	Units		U.S. Customary
			Segn	nent 1		
Ver	icle Inputs					
Segn	nent Type	Passing Constraine	ed	Length, ft		12040
Lane	Width, ft	12		Shoulder Width,	ft	6
Spee	d Limit, mi/h	55		Access Point Den	sity, pts/mi	1.8
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	852		Opposing Demar	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.96		Total Trucks, %		14.00
Segn	nent Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.50
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed, mi/h		61.8
Spee	d Slope Coefficient	3.96134		Speed Power Coefficient		0.41674
PF SI	ope Coefficient	-1.30162		PF Power Coefficient		0.72605
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		10.5
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	segment Data					<u>'</u>
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1162	-		-	58.3
2	Horizontal Curve	845	191	0	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	114	6	2	52.4
	Tangent	158	-		-	58.3
9	Horizontal Curve	792	955		2	52.4
9		53	-		-	58.3
	Tangent			_	2	58.3
10	Tangent Horizontal Curve	1426	143	2	2	00.0
10 11		1426 845	143	2	-	58.3
10 11 12	Horizontal Curve		143 - 573			

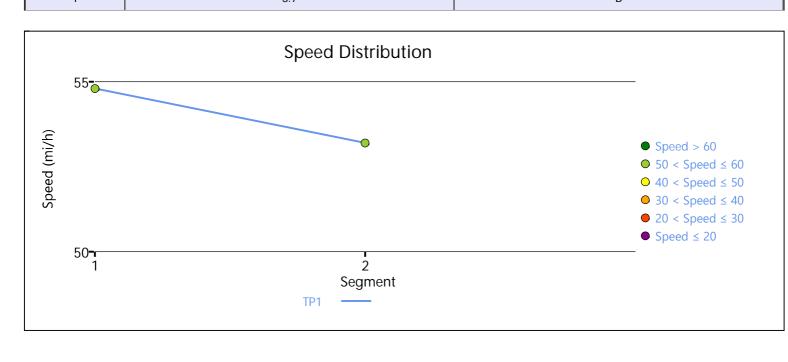
Segment Travel Time, minutes 2.45 Follower Density				Density, followers/mi/ln	10.5			
Vehicle LOS		D						
Facility Results								
Т	Follower Density, followers/mi/ln			LOS				
1		10.5		D				

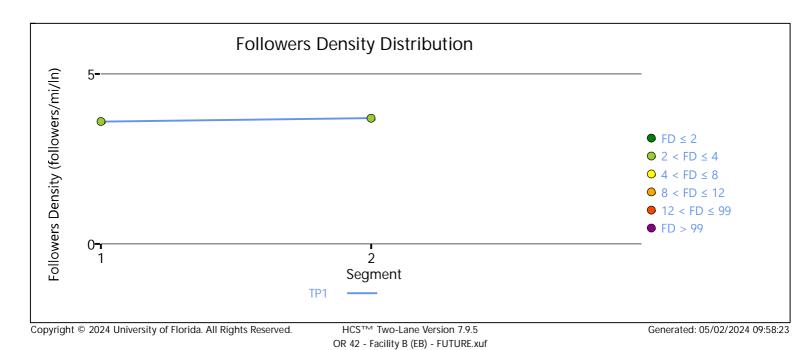
Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 OR 42 - Facility A (WB) - FUTURE.xuf Generated: 05/02/2024 09:55:31

		HCS7 Two	o-Lane	: Highway Re	eport	
Pro	oject Information		_			
Anal	lyst	RXO		Date		3/7/2024
Age				Analysis Year		2024
	sdiction			Time Analyzed		
Proj	ect Description	OR 42 - Myrtle F		Units		U.S. Customary
		UGB to OR 542	(EB)			
			Segr	ment 1		
Vel	hicle Inputs					
Segr	ment Type	Passing Constra	ined	Length, ft		2060
Lane	e Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h 55		55		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity					
Directional Demand Flow Rate, veh/h		393		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor		0.94		Total Trucks, %		24.00
Segment Capacity, veh/h		1700		Demand/Capacity	(D/C)	0.23
Int	ermediate Results					
Segr	Segment Vertical Class 2			Free-Flow Speed,	mi/h	60.6
Speed Slope Coefficient		5.31035		Speed Power Coe	fficient	0.47266
PF S	Slope Coefficient	-1.41505		PF Power Coefficie	ent	0.74528
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	3.6
%lm	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	lius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	898	-		-	57.7
2	Horizontal Curve	1162	95!	5	2	52.6
Vel	hicle Results	•				
Aver	rage Speed, mi/h	54.8		Percent Followers	, %	50.6
Segr	ment Travel Time, minutes	0.43		Follower Density,	followers/mi/ln	3.6
Vehi	icle LOS	В				
		<u>'</u>	Segr	ment 2		
Vel	hicle Inputs					
Segr	ment Type	Passing Constra	ined	Length, ft		5070
	e Width, ft	12		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	1.0
De	mand and Capacity	_				
	ectional Demand Flow Rate, veh/h	410		Opposing Deman	d Flow Rate, veh/h	-
Peak	k Hour Factor	0.84		Total Trucks, %		24.00
		 olication that isn't		1		-

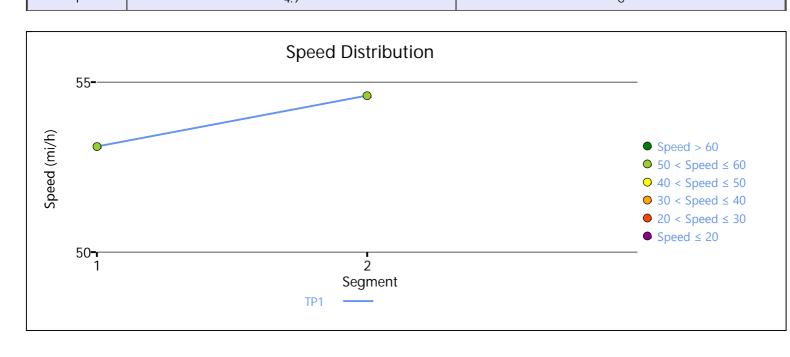
Int	ermediate	Results						
Seg	ment Vertical	Class	1	1		Free-Flow Speed, mi/h		61.7
Speed Slope Coefficient		3.89958	3.89958		ower Coef	fficient	0.41674	
PF S	lope Coefficie	ent	-1.28215		PF Powe	r Coefficie	ent	0.76844
In Pa	assing Lane Ef	fective Length?	No		Total Seg	gment De	nsity, veh/mi/ln	3.7
%Improved % Followers			0.0		% Impro	ved Avg S	Speed	0.0
Sul	bsegment	Data						
#	Segment Ty	pe	Length, ft	Rac	lius, 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	143	3		2	58.8
8	Tangent		53	-			-	59.3
9	Horizontal (	Curve	845	114	6		2	52.6
10	Tangent		370	-			-	59.3
11	Horizontal (	Curve	370	477	1		2	46.0
Vel	nicle Resu	lts						
Ave	rage Speed, m	ni/h	53.2		Percent	Followers,	%	47.6
Seg	ment Travel Ti	me, minutes	1.08		Follower	Density, 1	followers/mi/ln	3.7
Vehi	icle LOS		В					
Fac	ility Resu	lts	,					
	Т	Follow	ver Density, followers	s/mi/ln			LC	DS .
	1		3.7			В		

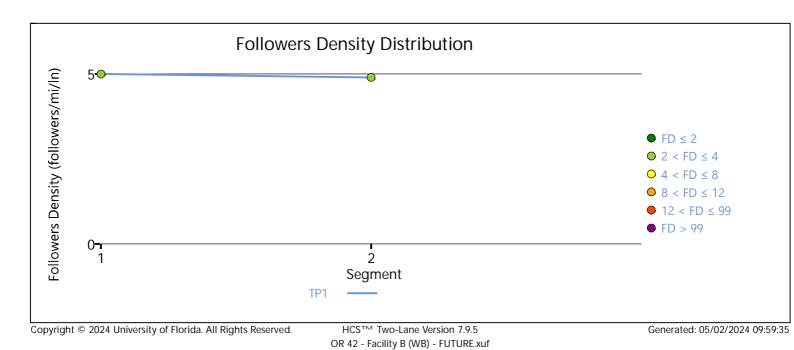




		HCS7 Two	o-Lane	Highwa	y Report	
Pro	oject Information					
Ana	lyst			Date		3/7/2024
Age	ncy			Analysis Year		2024
Juris	sdiction			Time Analyz	ed	
Proj	Project Description OR 42 Coquil		to GB (WB)	Units		U.S. Customary
		<u>'</u>	Segn	nent 1		
Vel	hicle Inputs					
Segi	ment Type	Passing Constrai	ned	Length, ft		5070
Lane	e Width, ft	12		Shoulder Wi	dth, ft	6
Speed Limit, mi/h 55		Access Point	Density, pts/mi	1.0		
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	499		Opposing D	emand Flow Rate, veh/h	-
Peak Hour Factor		0.84		Total Trucks,	%	24.00
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.29
Int	ermediate Results					
Segment Vertical Class		1		Free-Flow Sp	peed, mi/h	61.7
Spe	ed Slope Coefficient	3.89958		Speed Powe	r Coefficient	0.41674
PF S	Slope Coefficient	-1.28215		PF Power Co	efficient	0.76844
In Pa	assing Lane Effective Length?	No	No		nt Density, veh/mi/ln	5.0
%lm	nproved % Followers	0.0	0.0		Avg Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	477	,	2	45.9
2	Tangent	370	-		-	59.0
3	Horizontal Curve	845	114	6	2	52.4
4	Tangent	53	-		-	59.0
5	Horizontal Curve	106	143	3	2	58.6
6	Tangent	211	-		-	59.0
7	Horizontal Curve	739	143	3	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
Vel	hicle Results	•				
Aver	rage Speed, mi/h	53.1		Percent Follo	owers, %	52.8
Segi	ment Travel Time, minutes	1.09		Follower Dei	nsity, followers/mi/ln	5.0
Vehicle LOS		С				

Ve	hicle Input	ts						
Seg	ment Type		Passing Constraine	d	Length, f	t		2060
Lan	e Width, ft		12		Shoulde	r Width, ft	t	6
Speed Limit, mi/h		55		Access P	oint Dens	sity, pts/mi	0.0	
De	mand and	Capacity						
Dire	ectional Demar	nd Flow Rate, veh/h	478		Opposin	g Deman	d Flow Rate, veh/h	-
Peak Hour Factor		0.94		Total Tru	cks, %		24.00	
Segment Capacity, veh/h			1700		Demand	/Capacity	(D/C)	0.28
Int	ermediate	Results						
Segment Vertical Class			2		Free-Flow Speed, mi/h		mi/h	60.6
Speed Slope Coefficient		5.31035		Speed Po	Speed Power Coefficient		0.47266	
PF S	Slope Coefficie	nt	-1.41505		PF Powe	r Coefficie	ent	0.74528
In P	assing Lane Ef	fective Length?	No		Total Seg	gment De	nsity, veh/mi/ln	4.9
%In	nproved % Foll	lowers	0.0		% Improved Avg Speed			0.0
Su	bsegment	Data						
#	Segment Ty	pe	Length, ft	Rac	dius, ft		Superelevation, %	Average Speed, mi/h
1	Horizontal C	Curve	1162	955	j		2	52.5
2	Tangent		898	-			-	57.3
Ve	hicle Resu	lts						
Ave	rage Speed, m	ni/h	54.6		Percent I	Followers,	, %	55.8
Seg	ment Travel Ti	me, minutes	0.43		Follower	Follower Density, followers/mi/ln		4.9
Veh	icle LOS		С					
Fac	cility Resul	lts						
	Т	Follower	Density, followers/	mi/ln			LC	)S
	1	4.9			С			





	HCS7 Two	o-Lane	e Highway R	eport	
Project Information					
Analyst	RXO		Date		3/7/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description OR 42 - OR 542 to OR 42 couplet (EB)		Units		U.S. Customary	
		Segr	ment 1		
Vehicle Inputs					
Segment Type Passing Constrained L		Length, ft		2745	
Lane Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h 55		Access Point Dens	sity, pts/mi	9.6	
Demand and Capacity					
Directional Demand Flow Rate, veh/h	305		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.75		Total Trucks, %		27.00
Segment Capacity, veh/h 1700		Demand/Capacity	ι (D/C)	0.18	
Intermediate Results					
Segment Vertical Class 1			Free-Flow Speed,	mi/h	59.4
Speed Slope Coefficient	3.75099		Speed Power Coe	fficient	0.41674
PF Slope Coefficient	-1.33918		PF Power Coeffici	ent	0.75657
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.5
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	lius, ft Superelevation, %		Average Speed, mi/h
1 Horizontal Curve	950	95	5	2	52.6
2 Tangent	264	-		-	57.5
3 Horizontal Curve	1056	57	3	2	46.0
4 Tangent	475	-		-	57.5
Vehicle Results					
Average Speed, mi/h	51.4		Percent Followers	, %	42.1
Segment Travel Time, minutes	0.61		Follower Density,	followers/mi/ln	2.5
Vehicle LOS	В				
		Segr	ment 2		•
Vehicle Inputs					
Segment Type	Passing Constrai	ned	Length, ft		3802
Lane Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h	55		Access Point Dens		4.2
Demand and Capacity					
This document was created by an a	application that ion't	licenced	to use noveDDE	d Flow Data wat //-	
nis document was created by an a Purchase a license to generate PD			to use <u>novapup</u> .	u Flow Rate, veh/h	-

Peak Hour Factor		0.75	0.75			27.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.18
Int	ermediate Results					<u>'</u>
Seg	ment Vertical Class	2		Free-Flow Speed,	mi/h	59.2
Speed Slope Coefficient		5.24044		Speed Power Coe	fficient	0.47072
PF S	lope Coefficient	-1.35509		PF Power Coeffici	ent	0.75482
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.7
%Improved % Followers 0.0		% Improved Avg	Speed	0.0		
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	898	898 637		2	46.0
2	Tangent	317	317 -		-	56.7
3	Horizontal Curve	634	634 573		2	46.0
4	Tangent	264	264 -		-	56.7
5	Horizontal Curve	1003	1003 573		2	46.0
6	Tangent	211	-		-	56.7
7	Horizontal Curve	475 573		2		46.0
Vel	nicle Results					
Avei	rage Speed, mi/h	48.2		Percent Followers	 ;, %	42.5
	ment Travel Time, minutes	0.90		Follower Density,		2.7
	icle LOS	В		31		
			Sean	nent 3		
Vel	nicle Inputs					
	ment Type	Passing Zone		Length, ft		1109
	e Width, ft	12			it	6
	ed Limit, mi/h	55			sity, pts/mi	0.0
	mand and Capacity				3.1	<b>1</b>
	ctional Demand Flow Rate, veh/h	305		Onnosing Deman	nd Flow Rate, veh/h	473
	K Hour Factor	0.75		Total Trucks, %	A FIOW NAIC, VEH/H	27.00
	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.18
	ermediate Results	1700		Demand/Capacity	(D/C)	0.10
		1		Fron Flour Cross-	mi/h	410
Segment Vertical Class 1				Free-Flow Speed,		61.8
	Speed Slope Coefficient 3.68238			Speed Power Coe		0.48572
Spe	<u> </u>	4.00700	PF Slope Coefficient -1.33738		ent	
Spe	lope Coefficient			PF Power Coefficient		0.77598
Spec PF S	lope Coefficient assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.1
Spe PF S	lope Coefficient				ensity, veh/mi/ln	+
Spec PF S In Pa	lope Coefficient assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.1
Spec PF S In Pa	assing Lane Effective Length?	No	Rac	Total Segment De	ensity, veh/mi/ln	2.1

Aver	rage Speed, mi/h	60.1		Percent Follo	wers, %	41.3
Segr	ment Travel Time, minutes	0.21		Follower Den	sity, followers/mi/ln	2.1
Vehi	cle LOS	В				
			Segn	nent 4		
Veł	nicle Inputs					
Segr	ment Type	Passing Constrai	ned	Length, ft		6546
Lane	e Width, ft	12		Shoulder Wid	dth, ft	6
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	1.6
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	305		Opposing De	emand Flow Rate, veh/h	-
Peak	Hour Factor	0.75		Total Trucks,	%	27.00
Segr	ment Capacity, veh/h	1700		Demand/Cap	pacity (D/C)	0.18
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Sp	eed, 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 Segmer	nt Density, veh/mi/ln	2.4
%Improved % Followers		0.0		% Improved	Avg Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-		-	59.4
2	Horizontal Curve	1742	573	3	2	46.0
3	Tangent	422	-		-	59.4
4	Horizontal Curve	634	536	Ò	2	46.0
5	Tangent	53	-		-	59.4
6	Horizontal Curve	845	477	1	2	46.0
7	Tangent	1214	-		-	59.4
8	Horizontal Curve	739	955	5	2	52.6
9	Tangent	53	-		-	59.4
10	Horizontal Curve	422	573	3	2	46.0
Veł	nicle Results					
Aver	age Speed, mi/h	51.2		Percent Follo	wers, %	40.3
Segr	ment Travel Time, minutes	1.45		Follower Den	nsity, followers/mi/ln	2.4
Vehi	cle LOS	В				
			Segn	nent 5		
	nicle Inputs					
Veł	iicie iriputs	•				
	ment Type	Passing Zone		Length, ft		1372
Segr	•	Passing Zone		Length, ft Shoulder Wic	dth, ft	1372 6

Dire	ctional Demand Flow Rate, veh/h	232		Opposing Deman	d Flow Rate, veh/h	359
	Hour Factor	0.91		Total Trucks, %		27.00
	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.14
	ermediate Results			2 smarta, outputty	(-, <)	J 5
	ment Vertical Class	1		Free-Flow Speed,	mi/h	60.9
	ed Slope Coefficient	3.60287		Speed Power Coef		0.50378
	lope Coefficient	-1.32472		PF Power Coefficie		0.77990
	assing Lane Effective Length?	No		Total Segment De		1.4
	proved % Followers	0.0		% Improved Avg S		0.0
	osegment Data			70 Improved 7 kg c		0.0
#	Segment Type	Length, ft	Pac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422 573			2	46.1
2	Tangent	950			_	59.6
	nicle Results	1,00				07.0
	age Speed, mi/h	55.4		Percent Followers	%	34.5
	ment Travel Time, minutes	0.28				1.4
	cle LOS	0.28 A		Follower Density, followers/mi/ln		1.4
verii	LIE LOS					
		S	egn	nent 6		
Veł	nicle Inputs					
Segr	ment Type	Passing Constrained		Length, ft		14732
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	ity, pts/mi	2.5
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	232		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.91		Total Trucks, %		27.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.14
Int	ermediate Results	·				
Segr	ment Vertical Class	1		Free-Flow Speed, mi/h		61.2
	ed Slope Coefficient	3.94489		Speed Power Coe		0.41674
	lope Coefficient	-1.33738		PF Power Coefficie		0.69962
	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.6
	proved % Followers	0.0		% Improved Avg S		0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-		-	59.5
2	Horizontal Curve	1478	955		2	52.8
3	Tangent	53	-		-	59.5
	Horizontal Curve	1742	637		2	46.1
4		581 -		-		F0.F
4 5	Tangent	581	-		-	59.5

	I		_		I	
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	191	0	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	143	2	2	59.2
18	Tangent	898	-		-	59.5
Veh	nicle Results					
Aver	age Speed, mi/h	54.5		Percent Followers,	, %	38.2
Segr	nent Travel Time, minutes	3.07		Follower Density,	followers/mi/ln	1.6
Vehi	cle LOS	А				
		S	egn	nent 7		
Ver	nicle Inputs					
Segr	nent Type		Length, ft		4699	
Lane	Width, ft	12		Shoulder Width, ft	t	6
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	7.9
Der	mand and Capacity					·
Dire	ctional Demand Flow Rate, veh/h	227		Opposing Demand	d Flow Rate, veh/h	-
Peak	Hour Factor	0.90		Total Trucks, %		27.00
Segr	nent Capacity, veh/h	1700	Demand/Capacity (D/C)			0.13
Inte	ermediate Results					
—— Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	59.8
Spee	ed Slope Coefficient	3.79691		Speed Power Coefficient		0.41674
PF SI	ope Coefficient	-1.30092		PF Power Coefficient		0.76424
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.4
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
,		·				
	segment Data				ı	
	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
Suk	1	Length, ft	Rad		Superelevation, % 2	Average Speed, mi/h 58.2
Sub	Segment Type	-	_		<u> </u>	
<b>Suk</b> #	Segment Type Horizontal Curve	1162	191	0	2	58.2
# 1 2 3	Segment Type Horizontal Curve Tangent	1162 686	191	0	2	58.2 58.2
# 1 2 3 4	Segment Type Horizontal Curve Tangent Horizontal Curve	1162 686 739	191 - 955	0	2 - 2	58.2 58.2 52.8
# 1 2 3 4 Veh	Segment Type  Horizontal Curve  Tangent  Horizontal Curve  Tangent	1162 686 739	191 - 955	0	2 - 2 -	58.2 58.2 52.8
# 1 2 3 4 Veh	Segment Type Horizontal Curve Tangent Horizontal Curve Tangent Tangent nicle Results	1162 686 739 2112 57.4 0.93	191 - 955 -	Percent Followers, Follower Density.	2 - 2 - %	58.2 58.2 52.8 58.2

			Segr	ment 8		
Veł	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		2112
Lane	Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	7.5
Dei	mand and Capacity	•				
Directional Demand Flow Rate, veh/h 263 C		Opposing Deman	d Flow Rate, veh/h	406		
Peak	Hour Factor	0.83		Total Trucks, %		27.00
Segr	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.15
Int	ermediate Results	<u> </u>				
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	59.9
Spee	ed Slope Coefficient	3.57774		Speed Power Coe	fficient	0.49585
PF S	ope Coefficient	-1.30309		PF Power Coefficie	ent	0.78734
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.6
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sub	osegment Data			•		
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-		-	58.5
Vel	nicle Results	•				
Aver	age Speed, mi/h	58.5		Percent Followers		36.5
	nent Travel Time, minutes	0.41		Follower Density,	followers/mi/ln	1.6
Vehi	cle LOS	A				
			Sear	ment 9		
Vok	nicle Inputs					
	<u> </u>			Ia		005/
	ment Type	Passing Constrained		Length, ft	2956	
	Width, ft	12		Shoulder Width, f	6	
	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	5.4
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	263		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.83		Total Trucks, %		27.00
Segr	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.15
Int	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	60.5
Spe	ed Slope Coefficient	3.81070		Speed Power Coe	fficient	0.41674
PF S	ope Coefficient	-1.32448		PF Power Coefficie	ent	0.76063
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.8
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	segment Data					
	document was created by an app					

1	Tangent	422	-		-	58.7
2	Horizontal Curve	1531	11	46	2	52.7
3	Tangent	317	-		-	58.7
4	Horizontal Curve	686	19	10	2	58.7
Ver	icle Results					
Aver	age Speed, mi/h	55.6		Percent Followers	s, %	38.1
Segr	nent Travel Time, minutes	0.60		Follower Density,	followers/mi/ln	1.8
Vehi	cle LOS	А				
			Segn	nent 10		
Ver	icle Inputs					
Segr	nent Type	Passing Zone		Length, ft		2799
Lane	Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h 55		55		Access Point Dens	sity, pts/mi	1.9
Der	mand and Capacity					•
Dire	tional Demand Flow Rate, veh/h	263		Opposing Deman	nd Flow Rate, veh/h	406
Peak Hour Factor		0.83		Total Trucks, %		27.00
Segr	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.15
Inte	ermediate Results			·		
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.3
Spee	d Slope Coefficient	3.66346		Speed Power Coe	fficient	0.49585
PF SI	ope Coefficient	-1.27383		PF Power Coeffici	ent	0.79790
In Pa	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.6
%lm	oroved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	segment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	898	19	10	2	59.1
2	Tangent	1901	-		-	59.8
Ver	icle Results					
Aver	age Speed, mi/h	59.6		Percent Followers	5, %	35.5
Segr	nent Travel Time, minutes	0.53		Follower Density,	followers/mi/ln	1.6
Vehi	cle LOS	А				
			Segn	nent 11		
Ver	nicle Inputs					
Segr	nent Type	Passing Constrain	ed	Length, ft		2481
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	2.1
	mand and Capacity					·
Der						
	ctional Demand Flow Rate, veh/h	263		Opposing Deman	nd Flow Rate, veh/h	-

Segment Capacity, veh/h 1700			Demand/Capacity (D/C)		0.15	
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.3
Spe	ed Slope Coefficient	3.84896		Speed Power Coef	fficient	0.41674
PF S	lope Coefficient	-1.33032		PF Power Coefficient		0.75893
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.0
%Improved % Followers 0.0		% Improved Avg S	Speed	0.0		
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	581 -		-	59.5
2	Horizontal Curve	792	792 573		2	46.0
3	Tangent	158	-		-	59.5
4	Horizontal Curve	739	573	}	2	46.0
5	Tangent	211	-		-	59.5
Vel	nicle Results					
Ave	rage Speed, mi/h	51.2		Percent Followers	, %	38.3
Seg	ment Travel Time, minutes	0.55	0.55		followers/mi/ln	2.0
Vehi	cle LOS	А				
			Segm	ent 12		
Vel	nicle Inputs					
Seg	ment Type	Passing Constrair	ned	Length, ft		1795
Lane	e Width, ft	12		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55	Access Point Den		sity, pts/mi	2.9
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	263		Opposing Deman	d Flow Rate, veh/h	-
Peal	Hour Factor	0.83		Total Trucks, %		27.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.15
Int	ermediate Results	·				
Seg	ment Vertical Class	3		Free-Flow Speed,	mi/h	56.9
Spe	ed Slope Coefficient	8.37955		Speed Power Coefficient		0.60122
PF S	lope Coefficient	-1.39312	-1.39312		ent	0.76418
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.9
%lm	proved % Followers	0.0	ŭ		Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1795	-		-	54.1
	nicle Results					
Vel	noic itosaits					
	age Speed, mi/h	54.1		Percent Followers	, %	39.4

			Segn	nent 13		
Veł	nicle Inputs					
Segment Type Passing Constrained		Length, ft		3960		
Lane	e Width, ft 12		Shoulder Width, f	t	6	
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Dei	mand and Capacity					
Directional Demand Flow Rate, veh/h 263 Or		Opposing Deman	d Flow Rate, veh/h	-		
Peak Hour Factor		0.83		Total Trucks, %		27.00
Segment Capacity, veh/h		1700		Demand/Capacity	(D/C)	0.15
Inte	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed,	mi/h	61.8
Spe	ed Slope Coefficient	3.89599		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.29297		PF Power Coefficie	ent	0.76837
In Passing Lane Effective Length?		No		Total Segment De	nsity, veh/mi/ln	1.7
%Improved % Followers		0.0		% Improved Avg	% Improved Avg Speed	
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1901	-		-	60.0
2	Horizontal Curve	898	11-	6 2		52.7
3	Tangent	158	-	-		60.0
4	Horizontal Curve	1003	11-	46	2	52.7
Vel	nicle Results					
Aver	age Speed, mi/h	56.5		Percent Followers	, %	37.1
Segr	ment Travel Time, minutes	0.80		Follower Density,	followers/mi/ln	1.7
Vehi	cle LOS	А				
			Segn	nent 14		
 Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		2059
	e Width, ft	12		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		2.8
Dei	mand and Capacity					
	ctional Demand Flow Rate, veh/h	263		Opposing Deman	d Flow Rate, veh/h	406
	: Hour Factor	0.83		Total Trucks, %		27.00
Segr	ment Capacity, veh/h	1700			(D/C)	0.15
	ermediate Results					
Sear	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.1
	ed Slope Coefficient	3.64060		Speed Power Coe		0.49585
	lope Coefficient	-1.29820		PF Power Coefficie		0.78969
	•			1		

%ln	nproved % Followers	0.0		% Improved Avg Speed		0.0
Su	bsegment Data					
#	Segment Type	Length, ft Rad		lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	264	114	6	2	52.7
2	Tangent	1795	-		-	59.6
<b>V</b> e	hicle Results				<u>'</u>	
Average Speed, mi/h		58.7 Percent Follow		Percent Followers	5, %	36.3
Segment Travel Time, minutes		0.40	0 Follower Density		followers/mi/ln	1.6
Veh	icle LOS	А				
			Segm	ent 15		<u>'</u>
<b>V</b> el	hicle Inputs		<i>y</i>			
	ment Type	Passing Constrained	ed	Length, ft		9451
	e Width, ft	12		Shoulder Width, f	ft	6
	ed Limit, mi/h	55		Access Point Dens		2.8
•	mand and Capacity			7 to o o o o o o o o o o o o o o o o o o	o.t.j, p.to	1 -19
	ectional Demand Flow Rate, veh/h	263		Opposing Demar	nd Flow Pate, yeh/h	-
	k Hour Factor	0.83		Opposing Demand Flow Rate, veh/h Total Trucks, %		27.00
		1700		Demand/Capacity (D/C)		0.15
	ment Capacity, veh/h	1700		Demand/Сараспу	y (D/C)	0.13
	ermediate Results					
	ment Vertical Class	1		Free-Flow Speed, mi/h		61.1
	ed Slope Coefficient	3.90661		Speed Power Coefficient		0.41674
	Slope Coefficient	-1.28569		PF Power Coefficient		0.74775
	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.7
%ln	nproved % Followers	0.0 % Improved		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	370	-		-	59.3
2	Horizontal Curve	792	191	0	2	59.1
3	Tangent	211	-		-	59.3
4	Horizontal Curve	1373	114	6	2	52.7
5	Tangent	211	-		-	59.3
6	Horizontal Curve	1848	191	0	2	59.1
7	Tangent	2006	-		-	59.3
8	Horizontal Curve	1848	127	3	2	59.1
9	Tangent	792	-		-	59.3
Ve	hicle Results					
Ave	rage Speed, mi/h	58.2		Percent Followers	5, %	37.7
Segment Travel Time, minutes		1.84		Follower Density,	followers/mi/ln	1.7
Seg		Α		1 Shower Density, Tollowers/1111/111		

Ve	hicle Inputs					
Seg	gment Type	Passing Zone		Length, ft		1531
Lan	e Width, ft	12		Shoulder Width	ft	6
Spe	eed Limit, mi/h	55		Access Point De	nsity, pts/mi	0.0
De	emand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	205		Opposing Dema	ind Flow Rate, veh/h	316
Peak Hour Factor 0.87 To		Total Trucks, %		27.00		
Seg	ment Capacity, veh/h	Capacity, veh/h 1700 D		Demand/Capaci	ty (D/C)	0.12
Int	termediate Results					
Segment Vertical Class		1		Free-Flow Speed	d, mi/h	61.8
Speed Slope Coefficient		3.64511		Speed Power Co	efficient	0.51194
PF Slope Coefficient		-1.30323		PF Power Coeffic	cient	0.78765
In Passing Lane Effective Length?		No		Total Segment D	ensity, veh/mi/ln	1.1
%In	mproved % Followers	0.0		% Improved Avo	J Speed	0.0
Su	bsegment Data					
#	Segment Type	Type Length, ft Rac		Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1531		-	-	60.7
Ve	hicle Results					
Ave	erage Speed, mi/h	60.7		Percent Followers, %		31.2
Seg	ment Travel Time, minutes	0.29		Follower Density	, followers/mi/ln	1.1
Veh	nicle LOS	А	А			
			Seç	ment 17		
<b>V</b> e	hicle Inputs					
Seg	ıment Type	Passing Constrain	ned	Length, ft		3590
	e Width, ft	12			ft	6
Spe	eed Limit, mi/h	55		Access Point De	nsity, pts/mi	0.0
De	emand and Capacity	<u>'</u>				_
Dire	ectional Demand Flow Rate, veh/h	205		Opposing Dema	and Flow Rate, veh/h	-
Pea	k Hour Factor	0.87		Total Trucks, %		27.00
Seg	gment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.12
Int	termediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed	d, mi/h	61.8
Spe	eed Slope Coefficient	3.89173		Speed Power Co	efficient	0.41674
PF S	Slope Coefficient	-1.29902			cient	0.76721
In P	Passing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	1.1
%In	nproved % Followers	0.0		% Improved Avç	J Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft		Radius, ft	Superelevation, %	Average Speed, mi/h

Curve	1162	1	 146	2	52.8
Out vo	53	'	. 10	-	60.3
Curve	1214	1	910	2	59.3
- Cui ve	739		710	-	60.3
ults	107				00.3
mi/h	57.5		Percent Follower	· S %	31.9
Time, minutes	0.71		Follower Density		1.1
Vehicle LOS		Tollower Density		, 10110 WC13/1111/111	1
	A	Sear	_⊔ ment 18		
ıts					
	Passing Zone		Length, ft		1373
	12		Shoulder Width,	ft	6
า	55		Access Point Der		0.0
	00		Access Point Dei	isity, pts/iii	0.0
d Capacity					
and Flow Rate, veh/h	205		Opposing Dema	nd Flow Rate, veh/h	316
	0.87		Total Trucks, %		27.00
ry, veh/h	1700	1700		ty (D/C)	0.12
e Results					
Class	1		Free-Flow Speed	l, mi/h	61.8
fficient	3.64218		Speed Power Co	efficient	0.51194
ent	-1.31171		PF Power Coeffic	cient	0.78447
ffective Length?	No		Total Segment D	ensity, veh/mi/ln	1.1
llowers	0.0		% Improved Avg	Speed	0.0
t Data					
ype	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
Curve	581	1	910	2	59.3
Curve	528	1	910	2	59.3
	264	-		-	60.7
ılts					
mi/h	59.6		Percent Follower	rs, %	31.5
ime, minutes	0.26		Follower Density	r, followers/mi/ln	1.1
	A				
		Segi	ment 19		•
ıts					
	Passing Constrai	ned	Length, ft		897
	12		Shoulder Width,	ft	6
 າ	55		Access Point Der	nsity, pts/mi	0.0
d Capacity					
	<u>, , , , , , , , , , , , , , , , , , , </u>	1.		d Flow Pate	-
d C	created by an ap	created by an application that isn't	apacity	created by an application that isn't licensed to use novaPDF.	created by an application that isn't licensed to use novaPDF. Id Flow Rate, veh/h

D I	The effective	0.07		T. I. I. T I . 0/		07.00
	Hour Factor	0.87		Total Trucks, %	(D.(0)	27.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.12
Inte	ermediate Results					
Segment Vertical Class 1				Free-Flow Speed, mi/h		61.8
Spe	ed Slope Coefficient	nt 3.85833		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.37656	-1.37656		ent	0.74381
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.3
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	ndius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	475 -		-	60.3
2	Horizontal Curve	422	71	6	2	46.1
Vel	nicle Results					
Average Speed, mi/h		53.6		Percent Followers	 , %	34.5
3 1 7		0.19		Follower Density,		1.3
	cle LOS	A				
			Sean	nent 20		<b>'</b>
Veł	nicle Inputs					
	ment Type	Passing Zone		Length, ft		1532
	e Width, ft	12		Shoulder Width, f	t	6
	ed Limit, mi/h	55		Access Point Dens		6.9
Dei	mand and Capacity					<u> </u>
Dire	ctional Demand Flow Rate, veh/h	205		Opposing Deman	d Flow Rate, veh/h	316
Peak	Hour Factor	0.87		Total Trucks, %		27.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.12
Inte	ermediate Results			<u>'</u>		<u>'</u>
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	60.1
	ed Slope Coefficient	3.55164		Speed Power Coefficient		0.51194
	lope Coefficient	-1.31316			ent	0.78329
In Pa	assing Lane Effective Length?	No	No		nsity, veh/mi/ln	1.2
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	osegment Data					<u>'</u>
#	Segment Type	Length, ft	Ra	ndius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	71	6	2	46.1
2	Horizontal Curve	581	19	10	2	59.0
3	Tangent	581	-		-	59.0
Vel	nicle Results					
Aver	rage Speed, mi/h	55.9		Percent Followers	, %	31.5
	ment Travel Time, minutes	0.31		Follower Density,		1.2
JUGI	document was created by an ap					1

			Segm	ent 21		
Ver	nicle Inputs					
Segment Type		Passing Constrained		Length, ft		1583
Lane Width, ft		12		Shoulder Width, f	t	6
Speed Limit, mi/h 55		55		Access Point Dens	sity, pts/mi	6.7
Der	mand and Capacity					
Directional Demand Flow Rate, veh/h		205		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor		0.87 To		Total Trucks, %		27.00
Segment Capacity, veh/h		1700		Demand/Capacity	(D/C)	0.12
Inte	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed,	mi/h	60.1
Speed Slope Coefficient		3.77244		Speed Power Coe	fficient	0.41674
PF Slope Coefficient		-1.37736		PF Power Coefficie	ent	0.74496
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.2
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	158	-		-	58.7
2	Horizontal Curve	1214	191	10	2	58.7
3	Tangent	211	-		-	58.7
Ver	nicle Results					
Aver	age Speed, mi/h	58.7 Percent Followers,		, %	34.5	
Segn	nent Travel Time, minutes	0.31	31 Follower Densit		followers/mi/ln	1.2
Vehic	cle LOS	А				
			Segm	nent 22		
Ver	nicle Inputs					
Segn	nent Type	Passing Lanes		Length, ft		2640
3		12		Shoulder Width, ft		6
Lane		55		Access Point Density, pts/mi		4.0
	d Limit, mi/h	33		7 to coss i on it Bons	3 . 1	
Spee	d Limit, mi/h mand and Capacity	33		7 to cost F clint B clin	311	
Spee <b>Der</b>		205			d Flow Rate, veh/h	-
Spee Der Direc	mand and Capacity					27.00
Spee Der Direc	mand and Capacity	205		Opposing Deman	d Flow Rate, veh/h	
Der Direct Peak Segr	mand and Capacity  ctional Demand Flow Rate, veh/h  Hour Factor	205		Opposing Demandary	d Flow Rate, veh/h	27.00
Der Direct Peak Segn	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	205		Opposing Demandary	d Flow Rate, veh/h	27.00
Der Direct Peak Segn Inte	mand and Capacity  ctional Demand Flow Rate, veh/h  Hour Factor  nent Capacity, veh/h  ermediate Results	205 0.87 1100		Opposing Deman Total Trucks, % Demand/Capacity	d Flow Rate, veh/h (D/C) mi/h	27.00
Der Direc Peak Segn Inte Segn Spee	mand and Capacity  ctional Demand Flow Rate, veh/h  Hour Factor  nent Capacity, veh/h  ermediate Results  nent Vertical Class	205 0.87 1100		Opposing Demandor Total Trucks, % Demand/Capacity  Free-Flow Speed,	d Flow Rate, veh/h (D/C) mi/h fficient	27.00 0.19 60.8

#	Segment Type	Len	gth, ft	Rac	dius, ft	Su	perelevation, %	Average Speed, mi/h
1	Tangent	264				-		59.7
Pa:	ssing Lane Results							
			Faster Lane				Slower Lane	
lov	v 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	
Perc	ent Followers at Midpoint (PFPLm	id), %	24.0				14.4	
Vel	hicle Results							
Average Speed, mi/h 59.7		7		Percent Follo	wers, %		32.6	
Segment Travel Time, minutes 0.50			Follower Der	sity, follo	owers/mi/ln	1.1		
Veh	icle LOS	А						
				Segm	nent 23			
<b>V</b> el	hicle Inputs							
Seg	ment Type	Pas	sing Constraine	d	Length, ft			15629
Lan	e Width, ft	12	-		Shoulder Wid	dth, ft		6
Spe	ed Limit, mi/h	55			Access Point	Density,	pts/mi	1.7
De	mand and Capacity							
Dire	ectional Demand Flow Rate, veh/h	205	<u> </u>		Opposing De	emand Flo	ow Rate, veh/h	-
Peal	k Hour Factor	0.8	7		Total Trucks, %			27.00
Seg	ment Capacity, veh/h	170	0		Demand/Cap	acity (D/	(C)	0.12
Int	ermediate Results							
Seg	ment Vertical Class	1			Free-Flow Speed, mi/h			61.4
Spe	ed Slope Coefficient	3.96	5088		Speed Power Coefficient			0.41674
PF S	Slope Coefficient	-1.3	34824		PF Power Coefficient		0.69047	
In P	assing Lane Effective Length?	Yes			Total Segment Density, veh/mi/ln		1.3	
%ln	proved % Followers	12.1	1		% Improved	Avg Spee	ed	0.0
Su	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Su	perelevation, %	Average Speed, mi/h
1	Tangent	370		-		-		59.8
2	Horizontal Curve	100	3	127	73	2		59.3
3	Tangent	53		-		-		59.8
1	Horizontal Curve	100	3	127	73	2		59.3
5 Tangent 53 -		53		-	-			59.8
5	Horizontal Curve	686		955	5	2		52.8
5 6			0	71/	<u> </u>	2		46.1
	Horizontal Curve	116	716		,	-		1011

10	Tangent	7867	-		-	59.8
11	Horizontal Curve	317	191	0	2	59.3
12	Tangent	53	-		-	59.8
13	Horizontal Curve	2270	114	16	2	52.8
Ver	nicle Results					
Aver	age Speed, mi/h	57.4		Percent Followers	, %	36.3
Segn	nent Travel Time, minutes	3.09		Follower Density,	followers/mi/ln	1.1
Vehic	cle LOS	А				
			Segm	ent 24		
Ver	nicle Inputs					
Segn	nent Type	Passing Constrai	ned	Length, ft		10347
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	2.6
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	205		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.87				27.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.12
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.2
Spee	ed Slope Coefficient	3.91570		Speed Power Coe	fficient	0.41674
PF SI	ope Coefficient	-1.29101		PF Power Coefficion	ent	0.74101
In Pa	ssing Lane Effective Length?	Yes	Yes		ensity, veh/mi/ln	1.3
%lm	proved % Followers	8.2		% Improved Avg	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft Superelevation, %		Average Speed, mi/h
1	Horizontal Curve	264	114	16	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	3	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
	: document was created by an app				2	39.4

17	Tananat	211				F0 (
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	<u> </u>	2	39.4
25	Tangent	422	-		-	59.6
Ver	nicle Results					
Aver	age Speed, mi/h	53.0		Percent Follower	s, %	32.9
Segr	nent Travel Time, minutes	2.22		Follower Density	, followers/mi/ln	1.2
Vehi	cle LOS	A				
			Segm	ent 25		
Ver	nicle Inputs					
Segr	nent Type	Passing Constrai	ned	Length, ft		2112
Lane Width, ft		12		Shoulder Width, ft		6
Speed Limit, mi/h 55			Access Point Der	nsity, pts/mi	5.0	
Der	mand and Capacity			-		
Dire	ctional Demand Flow Rate, veh/h	208		Opposing Dema	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.77		Total Trucks, %		27.00
Segr	nent Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.12
Inte	ermediate Results					
Segr	nent Vertical Class	3		Free-Flow Speed	, mi/h	56.4
Spee	d Slope Coefficient	8.28232		Speed Power Coefficient		0.59983
PF SI	ope Coefficient	-1.37709		PF Power Coefficient		0.76466
In Pa	ssing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		1.4
%lm	proved % Followers	7.5		% Improved Avg Speed		0.0
Suk	segment Data	·				
#	Segment Type	Length, ft	Rac	lius, 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
Ver	nicle Results					
Aver	age Speed, mi/h	49.5		Percent Follower	s, %	33.9
Segr	nent Travel Time, minutes	0.48		Follower Density, followers/mi/ln		1.3
Vehi	cle LOS	А				
			Segm	ent 26		
Ver	nicle Inputs					
	venicle inputs his document was created by an application that isn't licensed to use novaPDF.  urchase a license to generate PDF files without this notice.					

Lane	e Width, ft	12		Shoulder Width, ft	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity	·				·
Dire	ctional Demand Flow Rate, veh/h	208		Opposing Deman	d Flow Rate, veh/h	-
Peal	K Hour Factor	0.77		Total Trucks, %		27.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.12
Int	ermediate Results					·
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.8
Spe	peed Slope Coefficient 3.85935 S		Speed Power Coef	fficient	0.41674	
PF S	Slope Coefficient	-1.37334		PF Power Coefficie	ent	0.74488
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	1.5
%lm	nproved % Followers	7.1		% Improved Avg S	Speed	0.0
Su	bsegment Data	<u> </u>				
#	Segment Type	Length, ft	Rac	lius, 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
Vel	hicle Results					<u> </u>
Ave	rage Speed, mi/h	48.3		Percent Followers,	 . %	34.7
	ment Travel Time, minutes	0.32		Follower Density,		1.4
	icle LOS	A		, , , , , , , , , , , , , , , , , , ,		
		S	eam	ent 27		1
	hiala lumusta					
	hicle Inputs			1		
	ment Type	Passing Zone		Length, ft		2112
	e Width, ft	12		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	208		Opposing Demand Flow Rate, veh/h		322
Peal	K Hour Factor	0.77		Total Trucks, %		27.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.12
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.8
Speed Slope Coefficient 3.65652		3.65652		Speed Power Coef	fficient	0.51076
Spe				PF Power Coefficie	ent	0.79646
	<u>'</u>	In Passing Lane Effective Length?  Yes		Total Segment Density, veh/mi/ln		1.1
PF S	·	res				
PF S	·	6.6		% Improved Avg S	Speed	0.0
PF S In Pa	assing Lane Effective Length?			% Improved Avg S	Speed	0.0
PF S In Pa %Im <b>Su</b> l	assing Lane Effective Length?		Rac	% Improved Avg S	Superelevation, %	0.0  Average Speed, mi/h
PF S In Pa %Im  Sul #	assing Lane Effective Length?  approved % Followers  bsegment Data	6.6 Length, ft	477	lius, ft		

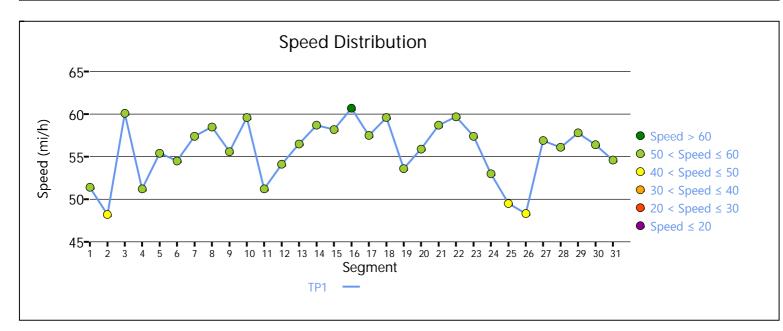
3	Horizontal Curve	158	716	<u>.</u>	2	46.1
4	Tangent	317	710			60.6
5	Horizontal Curve	211	955	-	2	52.8
				)	-	60.6
6	Tangent	1056	-		-	00.0
Ve	hicle Results					
Ave	rage Speed, mi/h	56.9		Percent Follo	owers, %	30.7
Seg	ment Travel Time, minutes	0.42		Follower Der	nsity, followers/mi/ln	1.0
Veh	icle LOS	A				
			Segm	ent 28		
<b>V</b> e	hicle Inputs					
Seg	ment Type	Passing Constrai	ined	Length, ft		5545
Lan	e Width, ft	12		Shoulder Wi	dth, ft	6
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	208		Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.77		Total Trucks, %		27.00
Seg	ment Capacity, veh/h	1700	1700		pacity (D/C)	0.12
Int	ermediate Results	·				
Seg	ment Vertical Class	1		Free-Flow Sp	peed, mi/h	61.8
Spe	ed Slope Coefficient	3.91233		Speed Power	Coefficient	0.41674
PF S	Slope Coefficient	-1.27720	-1.27720		efficient	0.76868
In P	assing Lane Effective Length?	Yes	Yes		nt Density, veh/mi/ln	1.2
%In	nproved % Followers	5.3		% Improved	Avg Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-		-	60.3
2	Horizontal Curve	528	16	14	8	60.3
3	Horizontal Curve	264	286	5	10	32.6
4	Horizontal Curve	528	462	<u> </u>	2	46.1
5	Tangent	106	-		-	60.3
6	Horizontal Curve	317	523	3	2	46.1
7	Tangent	264	-		-	60.3
8	Horizontal Curve	264	716	5	2	46.1
9	Tangent	1162	-		-	60.3
<b>V</b> e	hicle Results					
Ave	rage Speed, mi/h	56.1		Percent Follo	owers, %	31.7
Seg	ment Travel Time, minutes	1.12		Follower Der	nsity, followers/mi/ln	1.1
Veh	icle LOS	A				
			Segm	ent 29		

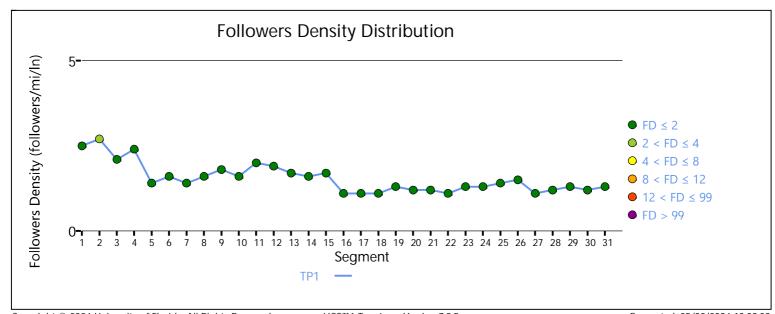
		Passing Constrain	ned	Length, ft		1637
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.2
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	208		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor		0.77		Total Trucks, %		27.00
Segment Capacity, veh/h		1700		Demand/Capacity	(D/C)	0.12
Int	ermediate Results					
Segment Vertical Class		2		Free-Flow Speed,	mi/h	59.6
Spe	ed Slope Coefficient	5.15345		Speed Power Coe	fficient	0.46488
PF S	lope Coefficient	-1.45112		PF Power Coefficie	ent	0.73999
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.3
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	bsegment Data					
# Segment Type		Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	143	30	10	57.8
2	Tangent	845	-		-	57.8
3	Horizontal Curve	422	213	39	9	57.8
Vel	nicle Results					
Aver	rage Speed, mi/h	57.8		Percent Followers	, %	36.5
Segi	ment Travel Time, minutes	0.32		Follower Density,	followers/mi/ln	1.3
Vehi	icle LOS	А				
			Segm	ent 30		
Vel	nicle Inputs					
Segi	ment Type	Passing Constrained		Length, ft		8712
Lane	e Width, ft	12		Shoulder Width, ft		6
_	ed Limit, mi/h	55		Access Point Density, pts/mi		2.4
Spe						·
	mand and Capacity					
De		208		Opposing Deman	d Flow Rate, veh/h	-
<b>De</b>	mand and Capacity ctional Demand Flow Rate, veh/h c Hour Factor	208		Opposing Deman Total Trucks, %	d Flow Rate, veh/h	27.00
<b>De</b> Dire Peak	ctional Demand Flow Rate, veh/h					- 27.00 0.12
Dire Peak	ctional Demand Flow Rate, veh/h  K Hour Factor	0.77		Total Trucks, %		
Dire Dire Peak Segi	ctional Demand Flow Rate, veh/h  Hour Factor ment Capacity, veh/h	0.77		Total Trucks, %	(D/C)	
Dire Peak Segi	ctional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results	0.77		Total Trucks, %  Demand/Capacity	r (D/C) mi/h	0.12
Del Dire Peak Seguint Seguint Seguint Seguint Special	ctional Demand Flow Rate, veh/h  Hour Factor ment Capacity, veh/h  ermediate Results ment Vertical Class	0.77		Total Trucks, %  Demand/Capacity  Free-Flow Speed,	mi/h	61.2
Der Dire Peak Seguint Seguint Seguint Specific S	ctional Demand Flow Rate, veh/h  C Hour Factor ment Capacity, veh/h  ermediate Results ment Vertical Class ed Slope Coefficient	0.77 1700 1 3.90654		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe	mi/h fficient	0.12 61.2 0.41674
Der Dire Peak Seguint Seguint Special Special PF S	ctional Demand Flow Rate, veh/h  K Hour Factor ment Capacity, veh/h  ermediate Results ment Vertical Class ed Slope Coefficient slope Coefficient	0.77 1700 1 3.90654 -1.28128		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe  PF Power Coefficie	mi/h fficient ent nsity, veh/mi/ln	0.12 61.2 0.41674 0.75312
Der Dire Peak Seguint Seguint Seguint Speech PF Summer Seguint Programmer Seguint	ctional Demand Flow Rate, veh/h  K Hour Factor ment Capacity, veh/h  ermediate Results ment Vertical Class ed Slope Coefficient slope Coefficient assing Lane Effective Length?	0.77 1700 1 3.90654 -1.28128 No		Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De	mi/h fficient ent nsity, veh/mi/ln	0.12 61.2 0.41674 0.75312 1.2
Der Dire Peak Seguint Seguint Seguint Seguint Seguint Speech PF Summer Seguint	ctional Demand Flow Rate, veh/h  K Hour Factor ment Capacity, veh/h  ermediate Results ment Vertical Class ed Slope Coefficient slope Coefficient assing Lane Effective Length? approved % Followers	0.77 1700 1 3.90654 -1.28128 No	Rac	Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De	mi/h fficient ent nsity, veh/mi/ln	0.12 61.2 0.41674 0.75312 1.2

	Г					
2	Tangent	53	-		-	59.7
3	Horizontal Curve	422	165	8	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	<b>.</b>	2	39.4
8	Tangent	792	-		-	59.7
9	Horizontal Curve	1690	229	2	2	59.7
10	Tangent	634	-		-	59.7
11	Horizontal Curve	739	114	6	2	52.8
12	Tangent	158	-		-	59.7
13	Horizontal Curve	634	955	j	2	52.8
14	Tangent	106	-		-	59.7
15	Horizontal Curve	845	114	6	2	52.8
16	Tangent	106	-		-	59.7
17	Horizontal Curve	686	955	i	2	52.8
18	Tangent	158	-		-	59.7
Veh	icle 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		А				
		Se	gm	ent 31		
Veh	icle Inputs					
	nent Type	Passing Constrained	Passing Constrained Length, ft			3643
	Width, ft	12		Shoulder Width, f	<b>.</b>	6
	d Limit, mi/h	55		Access Point Density, pts/mi		2.9
•		133		Access Fourt Dens	nty, pt3/1111	2.7
Der	mand and Capacity	_				
Direc	tional Demand Flow Rate, veh/h	208		Opposing Demand Flow Rate, veh/h		-
Peak	Hour Factor	0.77		Total Trucks, %		27.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.12
Inte	ermediate Results					
Segn	nent Vertical Class	2		Free-Flow Speed,	mi/h	59.5
Spee	d Slope Coefficient	5.33842		Speed Power Coe	fficient	0.47210
PF SI	ope Coefficient	-1.35637		PF Power Coefficie	ent	0.75518
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.3
%lm <sub>l</sub>	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-		-	57.7
2	Horizontal Curve	898	955		2	52.8
2 Horizontal Curve 898			't licensed to use novaPDF.			

4	Horizontal Curve	634	955	2	52.8			
5	Tangent	422	-	-	57.7			
6	Horizontal Curve	792	955	2	52.8			
Veh	Vehicle Results							
Avera	age Speed, mi/h	54.6	Percent Followers	s, %	33.9			
Segn	ment Travel Time, minutes	0.76	Follower Density,	followers/mi/ln	1.3			
Vehic	cle LOS	А						
Faci	Facility Results							

Т	Follower Density, followers/mi/ln	LOS
1	1.5	А





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 OR 42 - Facility C (EB) - FUTURE.xuf Generated: 05/02/2024 10:02:02

		HCS7 Two	-Lane	Highway F	Report	
Pro	ject Information					
Ana	lyst	RXO		Date		3/7/2024
Age	ncy	ODOT		Analysis Year		2024
Juris	sdiction			Time Analyzed		
Project Description		OR 42 - OR 42 Co OR 542 (WB)	uplet to	Units		U.S. Customary
			Segn	nent 1		
<b>V</b> e	hicle Inputs					
Seg	ment Type	Passing Constrain	ed	Length, ft		2957
Lan	e Width, ft	12	12 5		ft	6
Spe	Speed Limit, mi/h 55		Access Point Der	nsity, pts/mi	3.6	
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	322		Opposing Dema	nd Flow Rate, veh/h	-
Peak Hour Factor 0.77			Total Trucks, %		27.00	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.19
Int	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed	I, mi/h	60.9
Spe	ed Slope Coefficient	3.83511		Speed Power Co	efficient	0.41674
PF S	Slope Coefficient	-1.32046		PF Power Coeffic	cient	0.76174
In P	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	2.6
%ln	proved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, 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
<b>V</b> el	hicle Results					
Ave	rage Speed, mi/h	53.9		Percent Follower	rs, %	42.7
Seg	ment Travel Time, minutes	0.62		Follower Density	, followers/mi/ln	2.6
Veh	icle LOS	В		,		
			Segn	nent 2		
	hicle Inputs					
Vel	·					15682
	ment Type	Passing Constrain	ed	Length, ft		13002
Seg		Passing Constrain 12	ed 	Shoulder Width,	ft	6

Dired	ctional Demand Flow Rate, veh/h	322		Opposing Dema	and Flow Rate, veh/h	-
Peak	Hour Factor	0.77		Total Trucks, %		27.00
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.19
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Spee	d, mi/h	61.8
Spec	ed Slope Coefficient	3.98422		Speed Power Co	pefficient	0.41674
PF SI	ope Coefficient	-1.34509		PF Power Coeffi	cient	0.69090
In Pa	ssing Lane Effective Length?	No		Total Segment [	Density, veh/mi/ln	2.6
%lm	proved % Followers	0.0		% Improved Av	g Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-		-	59.7
2	Tangent	158	-		-	59.7
3	Horizontal Curve	686	955	j	2	52.6
4	Tangent	106	-		-	59.7
5	Horizontal Curve	845	114	l-6	2	52.6
6	Tangent	106	-		-	59.7
7	Horizontal Curve	634	955	j	2	52.6
8	Tangent	158	-		-	59.7
9	Horizontal Curve	739	114		2	52.6
10	Tangent	634	-		-	59.7
11	Horizontal Curve	1690	229	92	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	165	58	9	59.7
18	Tangent	53	-		-	59.7
19	Horizontal Curve	422	118	36	10	58.9
20	Horizontal Curve	422	213	39	9	59.7
21	Tangent	845	-		-	59.7
22	Horizontal Curve	370	143	30	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	3	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	161		8	59.7
31	Tangent	1214	-		-	59.7
	document was created by an ap					

Average	e Speed, mi/h	56.4		Percent Followers	, %	45.9
Segmei	nt Travel Time, minutes	3.16		Follower Density,	followers/mi/ln	2.6
Vehicle	LOS	В				
		S	egn	nent 3		
Vehic	cle Inputs					
Segmei	nt Type	Passing Zone		Length, ft		2165
Lane W	/idth, ft	12		Shoulder Width, f	t	6
Speed I	Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Dema	and and Capacity					
Directio	onal Demand Flow Rate, veh/h	322		Opposing Deman	d Flow Rate, veh/h	208
Peak Hour Factor 0.77 I		Total Trucks, %		27.00		
	nt Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.19
Interi	mediate Results					
Segmei	nt Vertical Class	1		Free-Flow Speed,	mi/h	61.8
Speed S	Slope Coefficient	3.62073		Speed Power Coe	fficient	0.53709
PF Slop	pe Coefficient	-1.25463		PF Power Coefficient		0.80426
In Passi	ing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.1
%Impro	oved % Followers	0.0		% Improved Avg S	Speed	0.0
Subse	egment Data					
# S	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1 Ta	angent	1954	-		-	60.2
2 H	Horizontal Curve	211	955	)	2	52.6
Vehic	cle Results					·
Average	e Speed, mi/h	59.4		Percent Followers, %		39.6
Segmei	nt Travel Time, minutes	0.41		Follower Density, followers/mi/ln		2.1
Vehicle	LOS	В				
		S	Segn	nent 4		
Vehic	cle Inputs					
Segmei	nt Type	Passing Constrained		Length, ft		2218
Lane W	/idth, ft	12		Shoulder Width, f	t	6
Speed I	Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Dema	and and Capacity					
Directio	onal Demand Flow Rate, veh/h	322		Opposing Deman	d Flow Rate, veh/h	-
Peak Ho	our Factor	0.77		Total Trucks, %		27.00
Segmer	nt Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.19
Interi	mediate Results					
Segme	nt Vertical Class	1		Free-Flow Speed,	mi/h	61.8
Speed S	Slope Coefficient	3.87357		Speed Power Coe	fficient	0.41674

		N.		T. 1.1.0		0.0
	ssing Lane Effective Length?	No		Total Segment De		2.8
%lm <sub>l</sub>	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rac	lius, 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
Veh	icle Results					
Avera	age Speed, mi/h	49.9		Percent Followers	, %	43.2
Segn	nent Travel Time, minutes	0.51		Follower Density,	followers/mi/ln	2.8
Vehic	cle LOS	В				
		S	egn	nent 5		
Veh	icle Inputs					
Segment Type Passing Constrained		Length, ft		2112		
Lane Width, ft 12			Shoulder Width, f	t	6	
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	5.0
Der	mand and Capacity					
Direc	tional Demand Flow Rate, veh/h	322		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.77		Total Trucks, %		27.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.19
Inte	ermediate Results					
Segn	nent Vertical Class	2	2		mi/h	59.1
Spee	d Slope Coefficient	5.07678		Speed Power Coefficient		0.46382
PF SI	ope Coefficient	-1.42220		PF Power Coefficient		0.74416
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.9
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rac	lius, 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
Veh	icle Results					
Avera	age Speed, mi/h	50.5		Percent Followers	, %	45.8
	nent Travel Time, minutes	0.48		Follower Density,		2.9
	cle LOS	В				
	locument was created by an ap ase a license to generate PDF			o use <u>novaPDF</u> .		

Veł	nicle Inputs					
Segr	ment Type	Passing Constrai	ned	Length, ft		10347
Lane	e Width, ft	12		Shoulder Width,	ft	6
Spee	ed Limit, mi/h	55		Access Point Der	nsity, pts/mi	2.6
Dei	mand and Capacity	·				
Directional Demand Flow Rate, veh/h 316		316		Opposing Dema	nd Flow Rate, veh/h	-
Peak	: Hour Factor	0.87		Total Trucks, %		27.00
Segr	ment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.19
Inte	ermediate Results			<u> </u>		
Segment Vertical Class		1	1		I, mi/h	61.2
Spee	ed Slope Coefficient	3.91570	3.91570		efficient	0.41674
PF Slope Coefficient		-1.29101	-1.29101		cient	0.74101
	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	2.5
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	osegment Data					<u>'</u>
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-		-	59.1
2	Horizontal Curve	581	395	5	2	39.3
3	Tangent	1531	-		-	59.1
4	Horizontal Curve	211	191	10	2	59.0
5	Tangent	475	-		-	59.1
6	Horizontal Curve	950	637	7	2	46.0
7	Tangent	422	-		-	59.1
8	Horizontal Curve	264	473	3	2	46.0
9	Tangent	475	-		-	59.1
10	Horizontal Curve	264	318	3	2	39.3
11	Tangent	211	-		-	59.1
12	Horizontal Curve	475	477	7	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	3	2	46.0
18	Tangent	317	-		-	59.1
19	Horizontal Curve	317	955	5	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	114	16	2	52.6

Ave	rage Speed, mi/h	53.0		Percent Follov	vers, %	42.3
Seg	ment Travel Time, minutes	2.22		Follower Dens	sity, followers/mi/ln	2.5
Veh	icle LOS	В				
			Segn	nent 7		
<b>V</b> el	hicle Inputs					
Segment Type Passing Constr		Passing Constrai	ned	Length, ft		15629
Lane	e Width, ft	12		Shoulder Wid	th, ft	6
Spe	ed Limit, mi/h	55		Access Point D	Density, pts/mi	1.7
De	mand and Capacity					·
Dire	ctional Demand Flow Rate, veh/h	316		Opposing Der	mand Flow Rate, veh/h	-
Peal	K Hour Factor	0.87		Total Trucks, %	6	27.00
Segment Capacity, veh/h 1700			Demand/Capa	acity (D/C)	0.19	
Int	ermediate Results					•
Seg	ment Vertical Class	1		Free-Flow Speed, mi/h		61.4
Spe	ed Slope Coefficient	3.96088		Speed Power	Coefficient	0.41674
PF Slope Coefficient		-1.34824		PF Power Coe	fficient	0.69047
In Passing Lane Effective Length?		No		Total Segment	t Density, veh/mi/ln	2.5
%lm	nproved % Followers	0.0		% Improved A	wg Speed	0.0
Su	bsegment Data					· 
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2270	114	6	2	52.6
2	Tangent	53	-		-	59.3
3	Horizontal Curve	317	191	0	2	59.0
4	Tangent	7867	-		-	59.3
5	Horizontal Curve	634	191	0	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	127	3	2	59.0
11	Tangent	53	-		-	59.3
12	Horizontal Curve	1003	127	3	2	59.0
13	Tangent	370	-		-	59.3
Vel	hicle Results					
Ave	rage Speed, mi/h	57.0		Percent Follov	vers, %	45.6
Seg	ment Travel Time, minutes	3.12		Follower Dens	sity, followers/mi/ln	2.5
Veh	icle LOS	В				
			Segn	nent 8		
Vel	hicle Inputs					

Jucks, %  Jucks, Manager, Jucks, Man	ow Rate, veh/h /C) /h ent	4.0  - 27.00 0.29  60.8 0.87198 0.75280 2.3 0.0  Average Speed, mi/h 58.7	
Jucks, %  Jucks, W  Jucks,	/C)  /h ent  /y, veh/mi/ln ed  Slower Lane 124 52.04 59.7	27.00 0.29  60.8 0.87198 0.75280 2.3 0.0  Average Speed, mi/h	
Jucks, %  Jucks, W  Jucks,	/C)  /h ent  /y, veh/mi/ln ed  Slower Lane 124 52.04 59.7	27.00 0.29  60.8 0.87198 0.75280 2.3 0.0  Average Speed, mi/h	
d/Capacity (D/ ow Speed, mi/l cower Coefficient gment Density oved Avg Spee	Slower Lane 124 52.04 59.7	0.29  60.8  0.87198  0.75280  2.3  0.0  Average Speed, mi/h	
ow Speed, mi/lower Coefficient gment Density oved Avg Spee	Slower Lane 124 52.04 59.7	60.8 0.87198 0.75280 2.3 0.0	
ower Coefficient gment Density oved Avg Spee	sy, veh/mi/ln ed  Slower Lane 124 52.04 59.7	0.87198 0.75280 2.3 0.0 Average Speed, mi/h	
ower Coefficient gment Density oved Avg Spee	sy, veh/mi/ln ed  Slower Lane 124 52.04 59.7	0.87198 0.75280 2.3 0.0 Average Speed, mi/h	
gment Density	Slower Lane 124 52.04 59.7	0.75280 2.3 0.0 Average Speed, mi/h	
gment Densit	Slower Lane 124 52.04 59.7	2.3 0.0  Average Speed, mi/h	
oved Avg Spee	Slower Lane 124 52.04 59.7	0.0  Average Speed, mi/h	
Su	Slower Lane 124 52.04 59.7	Average Speed, mi/h	
	Slower Lane 124 52.04 59.7		
	Slower Lane 124 52.04 59.7		
-	124 52.04 59.7	58.7	
	124 52.04 59.7		
	124 52.04 59.7		
	52.04 59.7		
	59.7		
	57.7		
9 19.6			
Percent Followers, %		42.2	
Follower Density, followers/mi/ln		2.3	
Length, ft		2375	
r Width, ft		6	
Point Density,	pts/mi	4.4	
ng Demand Fl	ow Rate, veh/h	205	
ucks, %		27.00	
J/Capacity (D/	/C)	0.19	
		•	
w Speed, mi/	'h	60.7	
<u> </u>		0.53796	
er Coefficient		0.80406	
WaDDE —	v veh/mi/ln	2.1	
F	ft er Width, ft Point Density, ng Demand Fl ucks, % d/Capacity (D. ow Speed, mi/	ft er Width, ft Point Density, pts/mi  ng Demand Flow Rate, veh/h ucks, % d/Capacity (D/C)  ow Speed, mi/h Power Coefficient er Coefficient	

%ln	proved % Followers	23.4	% Improved Avg Speed			2.6
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	211	-		-	59.1
2	Horizontal Curve	1214	191	0	2	59.0
3	Tangent	739	-		-	59.1
4	Horizontal Curve	211	1910		2	59.0
Ve	nicle Results				·	
Ave	rage Speed, mi/h	60.6		Percent Followers	s, %	39.1
Segment Travel Time, minutes		0.45		Follower Density	, followers/mi/ln	1.6
Veh	icle LOS	А				
			Seam	ent 10		
	nicle Inputs					
Segment Type		Passing Constrain	ned	Length, ft		5755
Lane Width, ft		12		Shoulder Width,		6
Speed Limit, mi/h		55		Access Point Den	nsity, pts/mi	0.0
De	mand and Capacity					
Directional Demand Flow Rate, veh/h		316		Opposing Demai	nd Flow Rate, veh/h	-
Peak Hour Factor		0.87		Total Trucks, %		27.00
Segment Capacity, veh/h		1700		Demand/Capacit	y (D/C)	0.19
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed	, mi/h	61.8
Spe	ed Slope Coefficient	3.91431	3.91431		efficient	0.41674
PF S	lope Coefficient	-1.27607	-1.27607		ient	0.76827
In P	assing Lane Effective Length?	Yes		Total Segment D	ensity, veh/mi/ln	2.3
%In	proved % Followers	16.7		% Improved Avg	Speed	1.7
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	191	0	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	191	0	2	59.0
7	Horizontal Curve	581	191	0	2	59.0
8	Tangent	739	-		-	59.7
9	Horizontal Curve	1214	191	0	2	59.0
_	Tangent	53	-		-	59.7
10		739	114		2	52.6

Aver	age Speed, mi/h	57.5	Pe	ercent Followers,	%	40.9
	nent Travel Time, minutes	1.14	_	ollower Density, f		1.9
	cle LOS	A				
		Se	gmer	nt 11		
Ver	nicle Inputs					
Segn	nent Type	Passing Zone		ength, ft		1531
Lane	Width, ft	12	Sh	noulder Width, ft		6
Spee	d Limit, mi/h	55	Ad	ccess Point Dens	ity, pts/mi	0.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	316		pposing Demand	d Flow Rate, veh/h	205
Peak	Hour Factor	0.87	To	otal Trucks, %		27.00
Segn	nent Capacity, veh/h	1700		emand/Capacity	(D/C)	0.19
Inte	ermediate Results					
Segment Vertical Class		1	Fr	Free-Flow Speed, mi/h		61.8
Speed Slope Coefficient		3.60909	Sp	peed Power Coef	ficient	0.53796
PF Slope Coefficient		-1.28000	PF	Power Coefficie	ent	0.79436
In Passing Lane Effective Length?		Yes	To	otal Segment Dei	nsity, veh/mi/ln	2.2
%Improved % Followers		15.6	%	Improved Avg S	Speed	1.5
Suk	segment 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
Ver	nicle Results					
Aver	age Speed, mi/h	59.0	Pe	ercent Followers,	%	40.1
Segn	nent Travel Time, minutes	0.29	Fc	Follower Density, followers/mi/ln		1.8
Vehic	cle LOS	А				
		Se	gmer	nt 12		
Ver	nicle Inputs					
Segn	nent Type	Passing Constrained	Le	ength, ft		9451
Lane	Width, ft	12	Sh	Shoulder Width, ft		6
Spee	d Limit, mi/h	55	Ad	ccess Point Dens	ity, pts/mi	2.8
	mand and Capacity					
Der		406	0	pposing Demand	d Flow Rate, veh/h	-
	ctional Demand Flow Rate, veh/h	400		Total Trucks, %		
Direc	ctional Demand Flow Rate, veh/h Hour Factor	0.83	To	otal Trucks, %		27.00
Dired Peak			_	otal Trucks, % emand/Capacity	(D/C)	0.24
Direct Peak Segn	Hour Factor	0.83	_		(D/C)	
Direct Peak Segr	Hour Factor nent Capacity, veh/h	0.83	De			
Direct Peak Segn	Hour Factor nent Capacity, veh/h ermediate Results	0.83	Fr	emand/Capacity	mi/h	0.24

In Pa	assing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	3.4
%lm	proved % Followers	9.7		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	ius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	1637	-	-		58.7
2	Horizontal Curve	1848	127	'3	2	58.7
3	Tangent	2006	-		-	58.7
4	Horizontal Curve	1848	191	0	2	58.7
5	Tangent	211	-		-	58.7
6	Horizontal Curve	1373	114	6	2	52.5
7	Tangent	211	-		-	58.7
8	Horizontal Curve	317	191	0	2	58.7
Vel	nicle Results					
Average Speed, mi/h		57.8		Percent Followers, %		48.1
Seg	ment Travel Time, minutes	1.86		Follower Density,	followers/mi/ln	3.0
Vehi	icle LOS	В				
		S	egm	ent 13		
Vel	nicle Inputs					
Segment Type		Passing Zone		Length, ft		2165
Lane Width, ft		12		Shoulder Width, f	t	6
Speed Limit, mi/h		55		Access Point Dens	sity, pts/mi	4.9
De	mand and Capacity					<u>'</u>
Dire	ctional Demand Flow Rate, veh/h	406		Opposing Deman	d Flow Rate, veh/h	263
Peal	K Hour Factor	0.83	0.83			27.00
Seg	ment Capacity, veh/h	1700	Demand/Capacity (D/C)			0.24
Int	ermediate Results	<u>'</u>				
Segi	ment Vertical Class	1	Free-Flow Speed		mi/h	60.6
	ed Slope Coefficient	3.57290				0.52335
PF S	lope Coefficient	-1.27343		PF Power Coefficient		0.79738
In Pa	assing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		3.2
%lm	proved % Followers	8.9		% Improved Avg	Speed	0.0
	bsegment Data	<u>'</u>				
Sul			Τ_	lius, ft	Superelevation, %	Average Speed, mi/h
Sul #	Segment Type	Length, ft	Rac		· ·	
	-	Length, ft 475	191	0	2	58.7
#	Segment Type		_	0	2	58.7 58.7
# 1 2	Segment Type Horizontal Curve	475	191	0		
# 1 2 <b>Vel</b>	Segment Type Horizontal Curve Tangent	475	191	0 Percent Followers	-	
# 1 2 <b>Vel</b> Avei	Segment Type Horizontal Curve Tangent hicle Results	475 1690	191		, %	58.7

Ver	nicle Inputs					
	nent Type	Passing Constra	ined	Length, ft		2798
	Width, ft	12		Shoulder Width, ft		6
	d Limit, mi/h	55		Access Point Dens		2.8
Der	mand and Capacity	<u> </u>				
	ctional Demand Flow Rate, veh/h	406		Opposing Deman	d Flow Rate, veh/h	
		0.83		Total Trucks, %	a riew nate, renii ri	27.00
		1700		Demand/Capacity	(D/C)	0.24
		1.755			(2. 0)	10.2
	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.1
Speed Slope Coefficient		3.84385		Speed Power Coe	fficient	0.41674
PF S	ope Coefficient	-1.32275		PF Power Coefficie	ent	0.76113
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.7
%lm	proved % Followers	7.9	7.9 % Improve		Speed	0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-		-	58.8
2	Horizontal Curve	264	114	16	2	52.5
3	Horizontal Curve	1003	114	16	2	52.5
4	Tangent	158	-		-	58.8
5	Horizontal Curve	898	114	16	2	52.5
Ver	icle Results	<u>'</u>				
Aver	age Speed, mi/h	53.9		Percent Followers	, %	48.6
Segr	nent Travel Time, minutes	0.59		Follower Density,	followers/mi/ln	3.4
Vehi	cle LOS	В				
		1	Segm	nent 15		
Veh	icle Inputs					
	nent Type	Passing Constra	inad	Longth ft		3696
	Width, ft	12	iriea	Length, ft		6
	d Limit, mi/h	55		Shoulder Width, ft  Access Point Density, pts/mi		1.4
	mand and Capacity	] 33		Access Folint Dens	sity, pts/fill	1.4
	ctional Demand Flow Rate, veh/h	406		Opposing Deman	d Flow Rate, veh/h	
	Hour Factor	0.83		Total Trucks, %	d How Rate, venin	27.00
	nent Capacity, veh/h	1700		Demand/Capacity	, (D/C)	0.24
_	ermediate Results	1700		Demand/ Capacity	(D/C)	0.24
				From Flance Commit	mi/h	E0.0
_	nent Vertical Class	2		Free-Flow Speed,		59.9
•	d Slope Coefficient	5.46438		Speed Power Coe		0.47450
	ope Coefficient	-1.35193		PF Power Coefficient		0.75636
	ssing Lane Effective Length? locument was created by an app	Yes Dication that isn't	licensed t	Total Segment De to use novaPDF.		3.5
	ase a license to generate PDF f				Speed	0.0

#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3696	-	<u> </u>		56.8
Veh	icle Results					
Avera	ge Speed, mi/h	56.8		Percent Follo	owers, %	49.5
	nent Travel Time, minutes	0.74		Follower Der	nsity, followers/mi/ln	3.3
Vehic	le LOS	В				
			Segr	ment 16		•
Veh	icle Inputs					
Segm	ent Type	Passing Constrai	ned	Length, ft		1636
Lane	Width, ft	12		Shoulder Wi	dth, ft	6
Speed	d Limit, mi/h	55		Access Point	Density, pts/mi	3.2
Den	nand and Capacity					
Directional Demand Flow Rate, veh/h		406		Opposing D	emand Flow Rate, veh/h	-
Peak Hour Factor 0.83		Total Trucks,	%	27.00		
Segment Capacity, veh/h 1700			Demand/Cap	pacity (D/C)	0.24	
Inte	rmediate Results					
Segment Vertical Class		1		Free-Flow Sp	peed, mi/h	61.0
Speed Slope Coefficient		3.82080		Speed Powe	r Coefficient	0.41674
PF SIG	ope Coefficient	-1.36651		PF Power Co	efficient	0.74781
In Pas	ssing Lane Effective Length?	Yes		Total Segme	nt Density, veh/mi/ln	4.2
%lmp	proved % Followers	6.3		% Improved	Avg Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	211	-		-	58.7
2	Horizontal Curve	739	57	73	2	45.9
3	Tangent	158	-		-	58.7
4	Horizontal Curve	528	57	73	2	45.9
Veh	icle Results					
Avera	ge Speed, mi/h	48.8		Percent Follo	owers, %	50.2
Segm	nent Travel Time, minutes	0.38		Follower Der	nsity, followers/mi/ln	3.9
Vehic	le LOS	В				
			Segr	ment 17		
Veh	icle Inputs					
Segm	nent Type	Passing Zone		Length, ft		845
Lane Width, ft		12		Shoulder Wi	dth, ft	6
Speed Limit, mi/h		55		Access Point Density, pts/mi		2.1

Peal	k Hour Factor	0.83		Total Trucks, %		27.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.24
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.3
Spe	ed Slope Coefficient	3.59640		Speed Power Coe	fficient	0.52335
PF Slope Coefficient -1.30760		PF Power Coefficient	ent	0.78496		
In P	assing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	3.5
%Improved % Followers		6.1		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	264	573	3	2	45.9
2	Tangent	581	-		-	59.3
Ve	hicle Results					
Ave	rage Speed, mi/h	55.1		Percent Followers	, %	47.5
Segment Travel Time, minutes		0.17		Follower Density, followers/mi/ln		3.3
Vehicle LOS		В				
			Seam	nent 18		1
Vel	hicle Inputs					
	ment Type	Passing Constrain	ned	Length, ft		5175
Lane Width, ft		12		Shoulder Width, f	t	6
	ed Limit, mi/h	55		Access Point Dens		1.5
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	406		Opposing Deman	d Flow Rate, veh/h	-
Peal	k Hour Factor	0.83		Total Trucks, %		27.00
Seg	ment Capacity, veh/h	1700 De		Demand/Capacity	/ (D/C)	0.24
Int	ermediate Results					
Seg	ment Vertical Class	1	1 Fr		Free-Flow Speed, mi/h	
	ed Slope Coefficient	3.88843		Speed Power Coe	0.41674	
	Slope Coefficient	-1.28296		PF Power Coefficient		0.76821
	assing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		3.4
	nproved % Followers	4.8			% Improved Avg Speed	
	bsegment Data					·
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1901	-		-	59.1
2	Horizontal Curve	898	19	10	2	58.7
3	Horizontal Curve	686	19	10	2	58.7
4	Tangent	370	-		-	59.1
5	Horizontal Curve	1320	114	46	2	52.5
Vel	hicle Results					

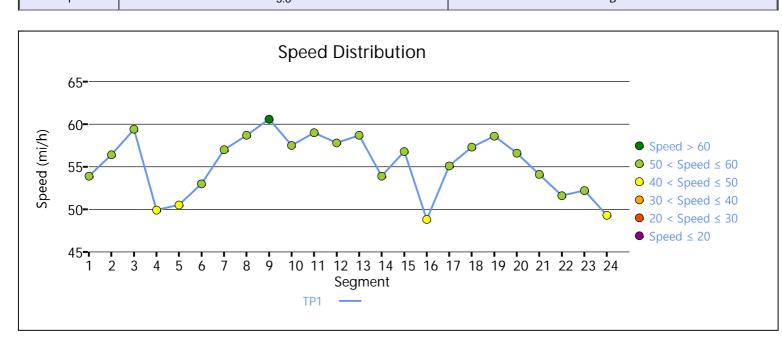
Segmer	nt Travel Time, minutes	1.03		Follower Density,	followers/mi/ln	3.2
Vehicle	LOS	В				
			Segn	nent 19		
Vehic	le Inputs					
Segmer	nt Type	Passing Zone		Length, ft		4065
Lane W	/idth, ft	12		Shoulder Width, f	t	6
Speed l	Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.9
Dema	and and Capacity					
Directio	onal Demand Flow Rate, veh/h	406		Opposing Deman	d Flow Rate, veh/h	263
Peak Ho	our Factor	0.83		Total Trucks, %		27.00
Segmer	nt Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.24
Interi	mediate Results					
Segment Vertical Class		1		Free-Flow Speed, mi/h		60.8
Speed S	Slope Coefficient	3.61085		Speed Power Coe	fficient	0.52335
PF Slop	e Coefficient	-1.22975		PF Power Coefficie	ent	0.81103
In Passing Lane Effective Length?		No		Total Segment De	nsity, veh/mi/ln	3.1
%Improved % Followers		0.0		% Improved Avg S	Speed	0.0
Subse	egment Data					
# S	egment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1 H	Horizontal Curve	158	11-	46	2	52.5
2 Ta	angent	3907	-		-	58.9
Vehic	ele Results					
Average	e Speed, mi/h	58.6		Percent Followers	, %	44.7
Segmer	nt Travel Time, minutes	0.79		Follower Density,	followers/mi/ln	3.1
Vehicle	LOS	В				
			Segn	nent 20		
Vehic	ele Inputs					
Segmer	nt Type	Passing Constraine	ed	Length, ft		4224
Lane W	/idth, ft	12		Shoulder Width, ft		6
Speed l	Limit, mi/h	55		Access Point Density, pts/mi		8.7
Dema	and and Capacity					
Directio	onal Demand Flow Rate, veh/h	351		Opposing Deman	d Flow Rate, veh/h	-
Peak Ho	our Factor	0.90		Total Trucks, %		27.00
Segmer	nt Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.21
Interi	mediate Results					
Segmer	nt Vertical Class	1		Free-Flow Speed,	mi/h	59.6
	Slope Coefficient	3.78103		Speed Power Coe		0.41674
PF Slop	pe Coefficient	-1.30817		PF Power Coefficie	ent	0.76333
		lication that isn't li		+		2.8

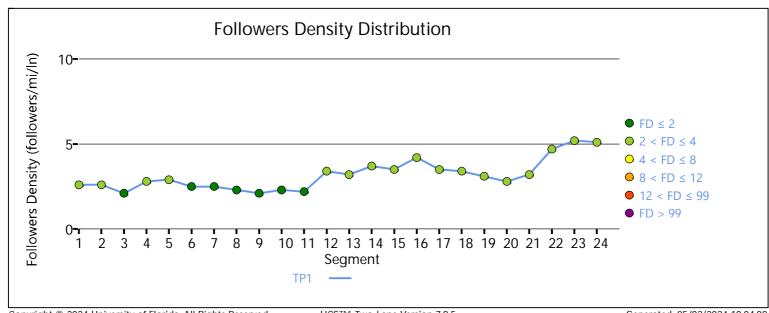
%ln	nproved % Followers	0.0		% Improved Avg	0.0	
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	739	-		-	57.5
2	Horizontal Curve	739	955	i	2	52.6
3	Tangent	686	-		-	57.5
4	Horizontal Curve	1162	191	0	2	57.5
5 Tangent 898		898	-		-	57.5
<b>V</b> el	hicle Results				<u>'</u>	
Average Speed, mi/h		56.6		Percent Followers	5, %	44.5
Seg	ment Travel Time, minutes	0.85		Follower Density,	followers/mi/ln	2.8
Veh	icle LOS	В				
			Segm	ent 21		•
Vel	hicle Inputs					
	ment Type	Passing Constrain	ned	Length, ft		15207
_	e Width, ft	12		Shoulder Width, 1	ft	6
Speed Limit, mi/h		55		Access Point Den		0.3
	mand and Capacity	1				1
Directional Demand Flow Rate, veh/h 359				Opposing Demar	nd Flow Rate, veh/h	T-
Peal	k Hour Factor	0.91		Total Trucks, %		27.00
Segment Capacity, veh/h		1700		Demand/Capacity	y (D/C)	0.21
_	ermediate Results				<u> </u>	
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.7
Spe	ed Slope Coefficient	3.97745		Speed Power Coe	efficient	0.41674
PF S	Slope Coefficient	-1.33895		PF Power Coefficient		0.69588
In P	assing Lane Effective Length?	No	No		Total Segment Density, veh/mi/ln	
%ln	nproved % Followers	0.0			% Improved Avg Speed	
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1003	143	2	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	191	0	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
	Tangent	106	-		-	59.5
11	i idildelit		06			

13	Tangent	581	-		-	59.5
14	Horizontal Curve	1742	637	1	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
Veł	nicle Results					
Aver	rage Speed, mi/h	54.1		Percent Followe	rs, %	48.2
Segr	ment Travel Time, minutes	3.19		Follower Densit	y, followers/mi/ln	3.2
Vehi	/ehicle LOS B					
		<u>'</u>	Segm	ent 22		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrain	ined	Length, ft		7180
Lane Width, ft 12				Shoulder Width	 , ft	6
Speed Limit, mi/h 55				Access Point De		1.5
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	473		Opposing Dema	and Flow Rate, veh/h	-
	Hour Factor	0.75		Total Trucks, %		27.00
	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.28
_	ermediate Results			<u> </u>	, , , , , , , , , , , , , , , , , , ,	
Segr	ment Vertical Class	1		Free-Flow Spee	d, mi/h	61.4
	ed Slope Coefficient	3.90655		Speed Power Co		0.41674
	lope Coefficient	-1.27609		PF Power Coeffi		0.76234
In Pa	assing Lane Effective Length?	No		Total Segment [	Density, veh/mi/ln	4.7
%lm	proved % Followers	0.0		% Improved Av	g Speed	0.0
Sul	osegment Data			<u>'</u>		
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	573	}	2	45.8
2	Tangent	53	-		-	58.8
3	Horizontal Curve	739	955	j	2	52.4
4	Tangent	1214	-		-	58.8
5	Horizontal Curve	845	477	1	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	3	2	45.8
10	Tangent	1056	-		-	58.8
Veł	nicle Results					
Aver	rage Speed, mi/h	51.6		Percent Followe	rs, %	51.4
	ment Travel Time, minutes	1.58			v. followers/mi/ln	4.7
				o use <u>novaPDF</u>	•	
8 9 10 Vel Aver	Tangent Horizontal Curve Tangent  Ticle Results Tange Speed, mi/h	422 1742 1056 51.6 1.58 plication that isn't	573 -	Percent Followe Follower Densit	- 2 - rs, % v. followers/mi/ln	58.8 45.8 58.8 51.4

			Segm	nent 23		
Ver	nicle Inputs					
Segn	nent Type	Passing Constraine	d	Length, ft		1584
Lane	Width, ft	12		Shoulder Width, ft		6
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	10.0
Der	mand and Capacity					
Directional Demand Flow Rate, veh/h		473		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.75		Total Trucks, %		27.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.28
Inte	ermediate Results					
Segn	nent Vertical Class	2		Free-Flow Speed,	mi/h	57.9
Spee	d Slope Coefficient	4.71099		Speed Power Coe	fficient	0.45465
PF SI	ope Coefficient	-1.47067		PF Power Coefficie	ent	0.73533
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.2
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-		-	54.9
2	Horizontal Curve	475	573	3	2	45.8
3	Tangent	634	-		-	54.9
Ver	nicle Results					
Aver	age Speed, mi/h	52.2		Percent Followers	, %	57.2
Segn	nent Travel Time, minutes	0.34		Follower Density,	followers/mi/ln	5.2
Vehic	cle LOS	С				
			Segm	nent 24		
Ver	nicle Inputs					
Segn	nent Type	Passing Constraine	d	Length, ft		5439
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Dens	4.9	
	mand and Capacity	·				
Der	nana ana capacity	173				
	tional Demand Flow Rate, veh/h	473		Opposing Deman	d Flow Rate, veh/h	-
Dired		473 0.75		Opposing Deman	d Flow Rate, veh/h	27.00
Dired Peak	tional Demand Flow Rate, veh/h					
Dired Peak Segn	ctional Demand Flow Rate, veh/h Hour Factor	0.75		Total Trucks, %		27.00
Direct Peak Segr	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	0.75		Total Trucks, %	(D/C)	27.00
Direct Peak Segn Inte	Hour Factor nent Capacity, veh/h ermediate Results	0.75		Total Trucks, %  Demand/Capacity	mi/h	27.00
Direct Peak Segr Inte Segr Spee	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class	0.75		Total Trucks, %  Demand/Capacity  Free-Flow Speed,	(D/C) mi/h fficient	27.00 0.28 58.9

Su	bsegment	Data						
#	Segment Ty	/pe	Length, ft	Radii	us, ft		Superelevation, %	Average Speed, mi/h
1	Horizontal C	Curve	581	573	73		2	45.8
2	Tangent		264	-			-	55.6
3	Horizontal C	Curve	634	573			2	45.8
4	Tangent		317 -				-	55.6
5	Horizontal C	Curve	898 637				2	45.8
6	Tangent		475	-	-		-	55.6
7	Horizontal C	Curve	1056	573	573		2	45.8
8	Tangent		264	-			-	55.6
9	Horizontal C	Curve	950	955	955		2	52.4
<b>V</b> el	hicle Resu	Its						
Ave	rage Speed, m	ni/h	49.3		Percent F	ollowers,	%	53.1
Seg	ment Travel Ti	me, minutes	1.25		Follower	Density, 1	followers/mi/ln	5.1
Veh	icle LOS		С					
Fac	cility Resul	lts						
	Т	Follower I	Density, followers/mi/l	n	LOS			
	1		3.0				В	





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 OR 42 - Facility C (WB) - FUTURE.xuf Generated: 05/02/2024 10:04:08

		HCS7 Two	o-Lane	Highway	Report	
Pro	oject Information					
Ana	lyst	T		Date		3/7/2024
Age	ency			Analysis Year		2024
Juri	sdiction			Time Analyzed		
Proj	ect Description	Reedsport north north Douglas C		Units		U.S. Customary
				nent 1		
<b>V</b> e	hicle Inputs					
	ment Type	Passing Constrai	ned	Length, ft		6705
	e Width, ft	12		Shoulder Widtl	 n. ft	6
Speed Limit, mi/h 55		Access Point D		6.5		
÷	mand and Capacity				3.1	
	ectional Demand Flow Rate, veh/h	595		Opposing Dem	and Flow Rate, veh/h	-
	k Hour Factor	0.84		Total Trucks, %		3.38
Segment Capacity, veh/h 1700				Demand/Capa	city (D/C)	0.35
	ermediate Results					
Segment Vertical Class 1				Free-Flow Spee	ed, mi/h	61.0
Spe	ed Slope Coefficient	3.87739	3.87739		oefficient	0.41674
PF S	Slope Coefficient	-1.28317		PF Power Coeff	icient	0.75968
In P	assing Lane Effective Length?	No		Total Segment	Density, veh/mi/ln	5.9
%In	nproved % Followers	0.0		% Improved Av	rg Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	lius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	739	-		-	58.1
2	Horizontal Curve	211	207	78	0	58.1
3	Horizontal Curve	3326	207	78	0	58.1
4	Horizontal Curve	475	216		0	58.1
5	Horizontal Curve	317	229	92	0	58.1
6	Tangent	845	-		-	58.1
7	Horizontal Curve	792	134	18	2	58.1
<b>V</b> e	hicle Results		•			
Ave	rage Speed, mi/h	58.1		Percent Follow	ers, %	57.9
	ment Travel Time, minutes	1.31		Follower Densi	ty, followers/mi/ln	5.9
	icle LOS	С				
			Segn	nent 2		
<b>V</b> e	hicle Inputs		<b>.</b>			
	ment Type	Passing Constrai	ned	Length, ft		1584
Lan	document was created by an ap	12		Shoulder Widtl	<u>f</u> t	6
	described as an analysis of the second	الأصمال المصالا متمالا متالم	1:000001			

1 Hrc	mand and Capacity	442		Operation	d Flow Date 1. "	
	ctional Demand Flow Rate, veh/h	443		11 0	d Flow Rate, veh/h	-
	C Hour Factor	0.84		Total Trucks, %	· (D (C)	3.38
_	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.26
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	51.2
Spe	ed Slope Coefficient	3.28799		Speed Power Coe	fficient	0.41674
PF S	Slope Coefficient	-1.45023		PF Power Coefficie	ent	0.71942
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.0
%ln	proved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
# Segment Type Length, ft		Rad	dius, ft	Superelevation, %	Average Speed, mi/h	
1	Horizontal Curve	1003	134	48	2	49.1
2	Tangent 581 -			-	49.1	
<b>V</b> e	hicle Results					
Ave	rage Speed, mi/h	49.1		Percent Followers	, %	55.4
Seg	ment Travel Time, minutes	0.37		Follower Density,	followers/mi/ln	5.0
Veh	icle LOS	В				
			Segn	nent 3		
Ve	hicle Inputs					
Seg	ment Type	Passing Constrain	ned	Length, ft		3982
Lan	e Width, ft	12	12		t	6
Spe	ed Limit, mi/h	35		Access Point Dens	0.0	
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	556		Opposing Deman	d Flow Rate, veh/h	-
Directional Demand Flow Rate, veh/h		0.85		Total Trucks, %		3.38
Peal		1700		Demand/Capacity	/ (D/C)	0.33
Peal	ment Capacity, veh/h	1700		Demand/Capacity	(2, 0)	0.00
Peal Seg	ment Capacity, veh/h ermediate Results	1700		репана/сарасну	(2, 0)	1000
Peal Seg Int	· · ·	1		Free-Flow Speed,		39.8
Peal Seg Int Seg	ermediate Results				mi/h	
Peal Seg Int Seg Spe	ermediate Results ment Vertical Class	1		Free-Flow Speed,	mi/h fficient	39.8
Peal Seg Int Seg Spe PF S	ermediate Results ment Vertical Class ed Slope Coefficient	1 2.70311		Free-Flow Speed, Speed Power Coe	mi/h fficient ent	39.8 0.41674
Peal Seg Int Seg Spe PF S	ermediate Results ment Vertical Class ed Slope Coefficient slope Coefficient	1 2.70311 -1.41129		Free-Flow Speed, Speed Power Coe PF Power Coefficie	mi/h fficient ent ensity, veh/mi/ln	39.8 0.41674 0.69696
Peal Seg Int Seg Spe PF S In P	ermediate Results ment Vertical Class ed Slope Coefficient slope Coefficient assing Lane Effective Length?	1 2.70311 -1.41129 No		Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De	mi/h fficient ent ensity, veh/mi/ln	39.8 0.41674 0.69696 9.0
Peal Seg Int Seg Spe PF S In P	ermediate Results  ment Vertical Class  ed Slope Coefficient  slope Coefficient  assing Lane Effective Length?  approved % Followers	1 2.70311 -1.41129 No	Rac	Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De	mi/h fficient ent ensity, veh/mi/ln	39.8 0.41674 0.69696 9.0
Peal Seg Int Seg Spe PF S In P	ermediate Results ment Vertical Class ed Slope Coefficient slope Coefficient assing Lane Effective Length? hproved % Followers bsegment Data	1 2.70311 -1.41129 No 0.0	Rac	Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De % Improved Avg S	mi/h  fficient  ent  ensity, veh/mi/ln  Speed	39.8 0.41674 0.69696 9.0 0.0
Peal Seg Int Seg Spe PF S In P	ermediate Results ment Vertical Class ed Slope Coefficient slope Coefficient assing Lane Effective Length? approved % Followers bsegment Data Segment Type	1 2.70311 -1.41129 No 0.0	Rac - 191	Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De % Improved Avg S	mi/h  fficient  ent  ensity, veh/mi/ln  Speed	39.8 0.41674 0.69696 9.0 0.0
Peal Seg Int Seg Spe PF S In P %Im Sul #	ermediate Results ment Vertical Class ed Slope Coefficient slope Coefficient assing Lane Effective Length? proved % Followers bsegment Data Segment Type Tangent	1 2.70311 -1.41129 No 0.0 Length, ft 1267	-	Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De % Improved Avg S	mi/h  fficient ent ensity, veh/mi/ln  Speed  Superelevation, %	39.8 0.41674 0.69696 9.0 0.0 Average Speed, mi/h 37.8

6	Horizontal Curve	528	95	.5	2	37.8
7	Tangent	23	73		-	37.8
8	Horizontal Curve	686	1/	33	2	37.8
9		422	14			37.8
-	Tangent	422	-		-	37.8
	nicle Results	T		T		1
	rage Speed, mi/h			Percent Followers		60.9
	ment Travel Time, minutes	1.20		Follower Density,	followers/mi/ln	9.0
Veh	icle LOS	С				
			Segi	ment 4		
Vel	nicle Inputs					
Seg	ment Type	Passing Constrai	ined	Length, ft		3959
Lane	e Width, ft	12		Shoulder Width, f		6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
De	mand and Capacity					1
	ctional Demand Flow Rate, veh/h	552		Opposing Demar	nd Flow Rate, veh/h	-
Peal	Hour Factor	0.86		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.32
	ermediate Results				<u></u>	
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.6
Spe	ed Slope Coefficient	3.93861		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.28863		PF Power Coeffici	ent	0.76689
In P	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	5.3
%ln	proved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data	<u>'</u>		•		
#	Segment Type	Length, ft	Ra	idius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1531	-		-	59.8
2	Horizontal Curve	950	95	5	2	52.9
3	Tangent	1478	-		-	59.8
Ve	nicle Results	<u>'</u>			<u>'</u>	
Ave	rage Speed, mi/h	58.1		Percent Followers	 5, %	55.8
	ment Travel Time, minutes	0.77		Follower Density,		5.3
	icle LOS	С		,		
			Segi	ment 5		•
Vel	nicle Inputs					
	ment Type	Passing Lanes		Length, ft		4699
	e Width, ft	12		Shoulder Width, f		6
	ed Limit, mi/h	55		Access Point Den		3.8
		100		/ NOCC33 TOTAL DELL	org, promi	1 3.0
De	mand and Capacity					
his Purcl	document was created by an appase a license to generate PDF i	olication that isn't	licensed	to use <u>novaPDF</u> .	d Flow Rate, veh/h	-
ai Ol	idoo di nochise to generate i Di	without this H				

Peal	K Hour Factor	0.87	1		Total Trucks, %			3.38
Seg	ment Capacity, veh/h	150	0		Demand/Capacity	(D/C	C)	0.28
Int	ermediate Results							
Seg	ment Vertical Class	5			Free-Flow Speed,	mi/h		60.7
Spe	ed Slope Coefficient	6.49	9545		Speed Power Coef	ficie	nt	1.02440
PF S	Slope Coefficient	-1.0	2754		PF Power Coefficient			0.84240
In P	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln			2.8	
%ln	proved % Followers	0.0			% Improved Avg S	peed	d	0.0
Su	bsegment Data							
#	Segment Type	Len	gth, ft	Rad	lius, ft	Sup	Average Speed, mi/h	
1	Tangent	385	4		-		58.7	
2	Horizontal Curve	845			2		46.5	
Pas	ssing 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	
Perc	ent Followers at Midpoint (PFPLmid),	%	29.4				19.4	
<b>V</b> e	hicle Results							
Ave	rage Speed, mi/h	56.5	j		Percent Followers,	%		38.7
Seg	ment Travel Time, minutes	0.94	ļ		Follower Density, followers/mi/ln			2.8
Veh	icle LOS	В						
			Se	gn	nent 6			
<b>V</b> e	hicle Inputs							
Seg	ment Type	Pass	sing Lanes		Length, ft			3114
Lan	e Width, ft	12			Shoulder Width, ft			6
Spe	ed Limit, mi/h	55			Access Point Dens	ity, p	ts/mi	0.0
De	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	415			Opposing Demand	d Flo	w Rate, veh/h	-
Peal	K Hour Factor	0.87	1		Total Trucks, %			3.38
Seg	ment Capacity, veh/h	150	0		Demand/Capacity	(D/C	<u> </u>	0.28
Int	ermediate Results							
Seg	ment Vertical Class	1			Free-Flow Speed,	mi/h		62.6
Spe	ed Slope Coefficient	5.33	3205		Speed Power Coef	ficie	nt	0.79902
PF S	Slope Coefficient	-1.3	3848		PF Power Coefficie	nt		0.79983
In P	assing Lane Effective Length?	No			Total Segment De	nsity	, veh/mi/ln	3.8
%ln	proved % Followers	0.0			% Improved Avg S	Speed	b	0.0
Su	bsegment Data							
his	document was created by an appl			ed t	o use <u>novaPDF</u> .	Sun	erelevation, %	Average Speed, mi/h
urcl	nase a license to generate PDF fil	es w	ithout this notice.			Jup	or cicvation, 70	Average speed, IIII/II

1	Horizontal Com-	101		F-7.0		2		44 E
1	Horizontal Curve	686		573		2		46.5
2	Horizontal Curve	100		955		2		53.1
3	Tangent Curve	950		-		-		60.5
4	Horizontal Curve	475		573		2		46.5
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flow	v Rate, veh/h		255			160		
Perc	entage of Heavy Vehicles (HV%), %	6	1.35				6.62	
Initia	al Average Speed (Sint), mi/h		61.5				61.9	
Aver	rage Speed at Midpoint (SPLmid),	mi/h	63.0				60.3	
Perc	ent Followers at Midpoint (PFPLmi	id), %	36.8				25.4	
Vel	hicle Results							
Aver	rage Speed, mi/h	52.9	)		Percent Followers	, %		48.4
Segment Travel Time, minutes			1		Follower Density,	follo	wers/mi/ln	3.8
Vehi	icle LOS	В						
			S	egn	nent 7			
Vel	hicle Inputs							
Segi	ment Type	Pass	sing Lanes	Length, ft			5333	
Lane	e Width, ft	12			Shoulder Width, f	t		6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi			1.1	
De	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	415	415 Opposing Dema				w Rate, veh/h	-
Peak	K Hour Factor	0.87	1	Total Trucks, %			3.38	
Segi	ment Capacity, veh/h	150	0	Demand/Capacity	/ (D/C	C)	0.28	
Int	ermediate Results							
Segi	ment Vertical Class	3			Free-Flow Speed, mi/h			61.9
Spe	ed Slope Coefficient	6.03	3689		Speed Power Coefficient			1.10254
PF S	Slope Coefficient	-1.1	8244		PF Power Coefficient			0.86804
In Pa	assing Lane Effective Length?	No			Total Segment Density, veh/mi/ln			3.3
%lm	proved % Followers	0.0			% Improved Avg	Speed	d	0.0
Sul	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Horizontal Curve	686		573		2		46.5
2	Horizontal Curve	163	7	955		2		53.1
3	Tangent	845		-		-		60.2
4	Horizontal Curve	110	9	573		2		46.5
5	Tangent	105	6	-		-		60.2
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
					t .			

Doro	ontago of Llongy Vobialos (UVO/) 0/		1 25			442	
	entage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h		1.35 61.5			6.62	
	age Speed at Midpoint (SPLmid), mi,	/h	63.0			59.5	
	ent Followers at Midpoint (SPEMid), Mid		31.9			19.9	
	nicle Results	70	31.9			19.9	
	age Speed, mi/h	53.4	1		Percent Followers,	0/	42.4
	nent Travel Time, minutes	1.14			Follower Density,		3.3
	cle LOS	B	+		Follower Delisity,	Tollowers/III/III	3.3
Verili	LIE LOS	10	Se	ean	nent 8		
 Ver	nicle Inputs						
	ment Type	Pas	sing Constrained		Length, ft		1795
	Width, ft	12	onig constrained		Shoulder Width, ft	<del></del>	6
	Speed Limit, mi/h 55			Access Point Dens		0.0	
•	mand and Capacity	100			Access Fourt Bens	nty, pts/1111	0.0
		415			Opposing Deman	d Flow Rate, veh/h	-
Directional Demand Flow Rate, veh/h Peak Hour Factor					Total Trucks, %	u How Rate, veli/II	3.38
	ment Capacity, veh/h	170			Demand/Capacity	(D/C)	0.24
	ermediate Results	170			Demand/Capacity	(D/C)	0.24
	ment Vertical Class	1			Free-Flow Speed,	mi/h	62.6
	ed Slope Coefficient		 0951		Speed Power Coef		0.41674
	lope Coefficient	+	-1.34672		PF Power Coefficie		0.75047
	ussing Lane Effective Length?		Yes		Total Segment De		3.6
	proved % Followers	+	22.1		% Improved Avg S		2.4
	osegment Data				, , , , , , , , , , , , , , , , , , ,		
#	Segment Type	Len	gth, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	105		-		-	60.2
2	Horizontal Curve	739		114	6	2	53.1
Ver	nicle Results						
Aver	age Speed, mi/h	58.7	7		Percent Followers,	. %	50.1
	ment Travel Time, minutes	0.35			Follower Density,		2.8
	cle LOS	В			r elienter Deneity		
			Se	egn	nent 9		
Ver	nicle Inputs						
	ment Type	Pas	sing Constrained		Length, ft		6494
	Width, ft	12			Shoulder Width, ft	<u> </u>	6
	ed Limit, mi/h	55			Access Point Dens		2.6
	mand and Capacity					2.1	
	ctional Demand Flow Rate, veh/h	415			Opposing Deman	d Flow Rate, veh/h	-
	document was created by an app	+		ed t		.,	3.38
	ase a license to generate PDF fi			eu (	o use <u>novaPDF</u> . -		1 0.00

Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.24		
Int	ermediate Results							
Seg	ment Vertical Class	4		Free-Flow Speed, mi/h		60.9		
Spe	ed Slope Coefficient	7.92454		Speed Power Coe	fficient	0.49515		
PF S	lope Coefficient	-1.73369		PF Power Coefficie	ent	0.76091		
In Pa	assing Lane Effective Length?	Yes	Yes		nsity, veh/mi/ln	4.4		
%lm	proved % Followers	16.4		% Improved Avg S	Speed	1.5		
Sul	bsegment Data							
#	Segment Type Length, ft		Rac	lius, ft	Superelevation, %	Average Speed, mi/h		
1	Horizontal Curve	1214	114	6	2	53.1		
2	Tangent	211 -			-	56.4		
3	Horizontal Curve	845	955		2	53.1		
4	Horizontal Curve	739	127	3	2	56.4		
5	Tangent	581	-		-	56.4		
6	Horizontal Curve	2006	143	2	2	56.4		
7	Tangent	898	-		-	56.4		
Vel	nicle Results							
Average Speed, mi/h		56.2		Percent Followers, %		58.8		
Seg	ment Travel Time, minutes	1.31	1.31		followers/mi/ln	3.6		
Vehi	icle LOS	В						
		'	Segm	ent 10		•		
	nicle Inputs							
	ment Type	Passing Constrained	۸	Length, ft		3643		
	e Width, ft	12		Shoulder Width, f	<del>!</del>	6		
	ed Limit, mi/h	55				4.7		
Ė				Access Point Density, pts/mi		4.7		
De	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	415		Opposing Demand Flow Rate, veh/h		-		
Peal	K Hour Factor	0.87		Total Trucks, %		3.38		
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.24		
Int	ermediate Results							
Seg	ment Vertical Class	2		Free-Flow Speed,	mi/h	61.2		
Spe	ed Slope Coefficient	3.80007		Speed Power Coe	fficient	0.45281		
PF S	lope Coefficient	-1.36468		PF Power Coefficie	ent	0.74323		
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.8		
%lm	proved % Followers	14.4		% Improved Avg S	Speed	0.9		
Sul	bsegment Data	·						
		Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h		
#		581 -		- Superelevation, 70		59.0		
# 1	9							
	Tangent  Horizontal Curve	1214	674	<u> </u>	2	46.5		

55.3		Percent Followers	5, %	50.8	
0.75		Follower Density,	followers/mi/ln	3.3	
В					
	Segm	ent 11			
Passing Zone	Passing Zone			1584	
12		Shoulder Width,	ft	6	
55		Access Point Den	sity, pts/mi	10.0	
534		Opposing Demar	nd Flow Rate, veh/h	555	
0.83		Total Trucks, %		3.38	
1700		Demand/Capacity	y (D/C)	0.31	
1		Free-Flow Speed,	mi/h	60.1	
3.61320			Speed Power Coefficient		
-1.34564		PF Power Coeffici	PF Power Coefficient		
Yes		Total Segment De	ensity, veh/mi/ln	5.2	
12.4		% Improved Avg	Speed	0.1	
Length, ft	Rad	Radius, ft Superelevation, %		Average Speed, mi/h	
1584	-		-	57.7	
57.7		Percent Followers, %		56.4	
0.31		Follower Density,	4.6		
С					
	Segm	ent 12			
Passing Constraine	ed	Length, ft		5861	
12		Shoulder Width,	ft	6	
55		Access Point Den	sity, pts/mi	3.3	
<u>'</u>				•	
534		Opposing Demar	nd Flow Rate, veh/h	-	
0.83		Total Trucks, %		3.38	
1700		Demand/Capacity	y (D/C)	0.31	
Intermediate Results Segment Vertical Class 1			Free-Flow Speed, mi/h		
1		Free-Flow Speed,	, mi/h	61.8	
	0.75  B  Passing Zone  12  55  534  0.83  1700  1  3.61320  -1.34564  Yes  12.4  Length, ft  1584  57.7  0.31  C  Passing Constraint  12  55	D.75   B   Segman   Segman	Segment 11  Passing Zone Length, ft  12 Shoulder Width, 55 Access Point Den  534 Opposing Demar  0.83 Total Trucks, %  1700 Demand/Capacit  1 Free-Flow Speed, 3.61320 Speed Power Coeffic  Yes Total Segment Den  12.4 % Improved Avg  Length, ft Radius, ft 1584 -  57.7 Percent Followers  0.31 Follower Density, C  Segment 12  Passing Constrained Length, ft 12 Shoulder Width, 55 Access Point Den  534 Opposing Demar	Segment 11  Passing Zone Length, ft 12 Shoulder Width, ft 55 Access Point Density, pts/mi  534 Opposing Demand Flow Rate, veh/h 0.83 Total Trucks, % 1700 Demand/Capacity (D/C)  1 Free-Flow Speed, mi/h 3.61320 Speed Power Coefficient -1.34564 PF Power Coefficient Yes Total Segment Density, veh/mi/ln 12.4 % Improved Avg Speed  Length, ft Radius, ft Superelevation, % 1584  57.7 Percent Followers, % 0.31 Follower Density, followers/mi/ln C  Segment 12  Passing Constrained Length, ft 12 Shoulder Width, ft 55 Access Point Density, pts/mi  534 Opposing Demand Flow Rate, veh/h 0.83 Total Trucks, %	

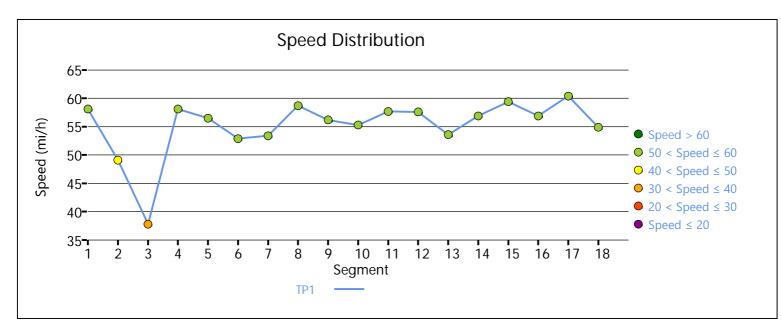
In D	coing Lang Effective Law at 2	Vos		Total Command D	noity yok /mi/!	E 1
	ssing Lane Effective Length?	Yes		Total Segment De		5.1
	oroved % Followers	10.0		% Improved Avg S	speea	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	792	-		-	59.0
2	Horizontal Curve	1320	143	32	2	59.0
3	Tangent	1056	-	-		59.0
4	Horizontal Curve	634	637	1	2	46.4
5	Tangent	1003	-	-		59.0
6	Horizontal Curve	422	143	32	2	59.0
7	Tangent	634	-		-	59.0
Veh	icle Results					
Aver	age Speed, mi/h	57.6		Percent Followers	, %	54.7
Segn	nent Travel Time, minutes	1.16		Follower Density,	followers/mi/ln	4.6
Vehic	cle LOS	С				
		Se	gm	ent 13		·
Veh	icle Inputs					
Segn	nent Type	Passing Constrained	Passing Constrained			1373
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Der	mand and Capacity	,		'		,
Direc	tional Demand Flow Rate, veh/h	534		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.83	0.83			3.38
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.31
Inte	ermediate Results	_				
Segn	nent Vertical Class	3		Free-Flow Speed,	mi/h	62.1
	d Slope Coefficient	4.93274		Speed Power Coe		0.55264
PF SI	ope Coefficient	-1.46376		PF Power Coefficie	ent	0.74280
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	6.0
%lm <sub>l</sub>	oroved % Followers	9.6		% Improved Avg S	Speed	0.0
Sub	segment Data	,				<u>'</u>
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-		-	59.0
2	Horizontal Curve	581	573	}	2	46.4
3	Tangent	106	-		-	59.0
Veh	icle Results					
Avera	age Speed, mi/h	53.6		Percent Followers	, %	60.1
	nent Travel Time, minutes	0.29		Follower Density,		5.4
	cle LOS	С		,		
	locument was created by an ap ase a license to generate PDF			o use <u>novaPDF</u> .		•

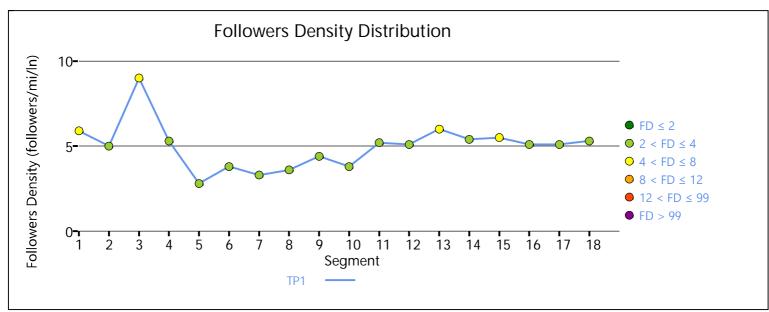
Segment Type	Passing Constra	ined	Length, ft	<u> </u>	1373
Lane Width, ft	12		Shoulder Wi	dth, ft	6
Speed Limit, mi/h	55		Access Point	Density, pts/mi	0.0
Demand and Capacity					·
Directional Demand Flow Rate, veh/h	534		Opposing D	emand Flow Rate, veh/h	-
Peak Hour Factor	0.83		Total Trucks,	%	3.38
Segment Capacity, veh/h	1700		Demand/Cap	pacity (D/C)	0.31
Intermediate Results					
Segment Vertical Class	1		Free-Flow Sp	peed, mi/h	62.6
Speed Slope Coefficient	3.90198		Speed Powe	r Coefficient	0.41674
PF Slope Coefficient	-1.36859		PF Power Co	efficient	0.74322
In Passing Lane Effective Length?	Yes		Total Segme	nt Density, veh/mi/ln	5.4
%Improved % Followers	9.1		% Improved	Avg Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	ı	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Horizontal Curve	581	8	819	2	53.0
2 Tangent	792		-	-	59.8
Vehicle Results					
Average Speed, mi/h	56.9		Percent Follo	owers, %	57.6
Segment Travel Time, minutes	0.27		Follower Dei	nsity, followers/mi/ln	4.9
Vehicle LOS	С				
		Seg	ment 15		
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		1267
Lane Width, ft	12		Shoulder Wi	dth, ft	6
Speed Limit, mi/h	55		Access Point	0.0	
Demand and Capacity					
Directional Demand Flow Rate, veh/h	534		Opposing D	emand Flow Rate, veh/h	-
Peak Hour Factor	0.83		Total Trucks, %		3.38
Segment Capacity, veh/h	1700		Demand/Cap	pacity (D/C)	0.31
Intermediate Results					
Segment Vertical Class	2		Free-Flow Sp	peed, mi/h	62.4
Speed Slope Coefficient	3.54910		Speed Powe	r Coefficient	0.45095
PF Slope Coefficient	-1.47791		PF Power Co	efficient	0.72616
In Passing Lane Effective Length?	Yes		Total Segme	nt Density, veh/mi/ln	5.5
%Improved % Followers	8.7		% Improved	Avg Speed	0.0
Subsegment Data					

1	Horizontal Curve	845	127	73	2	59.1
2	Tangent	422	-		-	60.0
	hicle Results					
	rage Speed, mi/h	59.4		Percent Follo	wers, %	60.8
	ment Travel Time, minutes	0.24			sity, followers/mi/ln	5.0
	icle LOS	С				
			Segm	nent 16		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrain	ned	Length, ft		6706
Lane	e Width, ft	12		Shoulder Wid	dth, ft	6
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	2.9
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	534		Opposing De	emand Flow Rate, veh/h	-
Peal	k Hour Factor	0.83		Total Trucks,	%	3.38
Seg	ment Capacity, veh/h	1700		Demand/Cap	pacity (D/C)	0.31
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Sp	eed, mi/h	61.9
Spe	ed Slope Coefficient	3.92618		Speed Power	Coefficient	0.41674
PF Slope Coefficient		-1.27534		PF Power Coe	efficient	0.76203
In Passing Lane Effective Length?		Yes		Total Segmer	nt Density, veh/mi/ln	5.1
%lm	nproved % Followers	6.9		% Improved	Avg Speed	0.0
Sul	bsegment Data					<u>'</u>
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	792	573	3	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	791	10	2	59.1
6	Tangent	845	-		-	59.1
7	Horizontal Curve	792	143	32	2	59.1
8	Tangent	1531	-	-		59.1
<b>V</b> el	hicle Results					
Ave	rage Speed, mi/h	56.9		Percent Follo	wers, %	54.6
Seg	ment Travel Time, minutes	1.34		Follower Den	sity, followers/mi/ln	4.8
Veh	icle LOS	С				
		,	Segm	ent 17		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		1056
Lane	e Width, ft	12		Shoulder Wid		6
his	document was created by an applace a license to generate PDF t			to use <u>novaPl</u>	DF. sity, pts/mi	0.0

Direc	ctional Demand Flow Rate, veh/h	534		Opposing Deman	d Flow Rate, veh/h	555		
	Hour Factor	0.83		Total Trucks, %	3.38			
	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.31		
	ermediate Results	1			()	1		
Soan	nent Vertical Class	2		Free-Flow Speed,	mi/h	62.5		
	ed Slope Coefficient	3.19901		Speed Power Coe		0.52030		
•	ope Coefficient	-1.37966		PF Power Coefficie		0.76076		
	ssing Lane Effective Length?	Yes		Total Segment De		5.1		
	proved % Followers	6.6		% Improved Avg S		0.0		
	osegment Data	0.0		% improved Avg .	bpeeu	0.0		
#	Segment Type	Length, ft	Pag	dius, ft	Superelevation, %	Average Speed, mi/h		
<u>"</u> 1	, , , , , , , , , , , , , , , , , , ,	1056	Rac	uius, it	- Superelevation, 76	60.4		
	Tangent	1056	-		-	00.4		
Veh	nicle Results							
Avera	age Speed, mi/h	60.4		Percent Followers	, %	57.5		
Segn	nent Travel Time, minutes	0.20		Follower Density,	4.7			
Vehic	cle LOS	С						
			Segm	nent 18				
<b>V</b> eh	nicle Inputs							
Segn	nent Type	Passing Zone		Length, ft		7339		
Lane	Width, ft	12		Shoulder Width, f	6			
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	21.4		
Der	mand and Capacity	<u>'</u>				<u>'</u>		
Direc	ctional Demand Flow Rate, veh/h	534		Opposing Deman	d Flow Rate, veh/h	555		
Peak	Hour Factor	0.83		Total Trucks, %		3.38		
Segn	nent Capacity, veh/h	1700		Demand/Capacity	0.31			
Inte	ermediate Results	<u>'</u>				<u> </u>		
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	57.2		
Spee	d Slope Coefficient	3.52368		Speed Power Coe	0.47505			
PF SI	ope Coefficient	-1.27336		PF Power Coefficie	0.77655			
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	5.3		
%lm	proved % Followers	5.0		% Improved Avg :	0.0			
Sub	osegment Data	<u> </u>						
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	7339	-	<u> </u>	-	54.9		
	nicle Results							
	age Speed, mi/h	54.9		Percent Followers	. %	54.3		
	nent Travel Time, minutes	1.52		Follower Density, followers/mi/ln 5.0				
				nsed to use novaPDF.				

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





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility D (NB) - FUTURE.xuf Generated: 05/02/2024 10:11:39

		HCS7 Two-L	.ane	Highway Re	eport	
Pro	pject Information		_			
Ana	lyst			Date		4/14/2024
Age				Analysis Year		2024
	sdiction	ODOT		Time Analyzed		
Proj	ect Description	North Douglas Coun- Line to Reedsport no UGB		Units		U.S. Customary
		9	Segn	nent 1		
Ve	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		2218
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	4.8
De	mand and Capacity			<u> </u>		
Dire	ectional Demand Flow Rate, veh/h	555		Opposing Deman	d Flow Rate, veh/h	534
Peal	k Hour Factor	0.83		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.33
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.4
Spe	ed Slope Coefficient	3.68972		Speed Power Coe	fficient	0.47771
PF S	Slope Coefficient	-1.30819		PF Power Coefficie	ent	0.78328
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.3
%ln	proved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2218	-		-	58.9
Ve	hicle Results					
Ave	rage Speed, mi/h	58.9		Percent Followers	, %	56.2
Seg	ment Travel Time, minutes	0.43		Follower Density,	followers/mi/ln	5.3
Veh	icle LOS	С				
		<u> </u>	Segn	nent 2		_
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrained		Length, ft		2112
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	2.5
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	555		Opposing Deman	d Flow Rate, veh/h	-
	k Hour Factor	0.83		Total Trucks, %	-, -, -, -, -, -, -, -, -, -, -, -, -, -	3.38
	document was created by an app				, (D/C)	0.33

Sear	nent Vertical Class	2		Free-Flow Speed,	mi/h	61.8
	ed Slope Coefficient	3.65060		Speed Power Coe		0.45026
	ope Coefficient	-1.42214		PF Power Coefficie		0.73464
	ussing Lane Effective Length?	No		Total Segment De		5.7
	proved % Followers	0.0		% Improved Avg S		0.0
		0.0		70 Improved Avg .	<del></del>	0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent 2112 -			-	59.2		
Ver	nicle Results					
Aver	age Speed, mi/h	59.2		Percent Followers	, %	60.3
Segr	nent Travel Time, minutes	0.41		Follower Density,	followers/mi/ln	5.7
Vehi	cle LOS	С		İ		
			Segn	nent 3		•
Ver	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		2059
	Width, ft	12		Shoulder Width, f	t	6
	ed Limit, mi/h	55		Access Point Dens		0.0
	mand and Capacity					
		Tees		I	151 51 14	J-0.4
	ctional Demand Flow Rate, veh/h	555		11 0	d Flow Rate, veh/h	534
	Hour Factor	0.83		Total Trucks, %	3.38	
Segr	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.33
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.6
Spee	ed Slope Coefficient	3.75178		Speed Power Coe	fficient	0.47771
PF SI	ope Coefficient	-1.30606		PF Power Coefficie	ent	0.78429
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.2
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-	-		60.0
Ver	nicle Results					
Aver	age Speed, mi/h	60.0		Percent Followers	, %	56.1
Segr	nent Travel Time, minutes	0.39		Follower Density,	followers/mi/ln	5.2
Vehi	cle LOS	С				
			Segn	nent 4		
Ver	nicle Inputs					

55 Access Point Density, pts/mi	0.0
555 Opposing Demand Flow Rate, veh/h	-
0.83 Total Trucks, %	3.38
1700 Demand/Capacity (D/C)	0.33
2 Free-Flow Speed, mi/h	62.4
3.54910 Speed Power Coefficient	0.45095
-1.47791 PF Power Coefficient	0.72616
No Total Segment Density, veh/mi/ln	5.7
0.0 % Improved Avg Speed	0.0
Length, ft Radius, ft Superelevation, %	Average Speed, mi/h
1320	59.9
59.9 Percent Followers, %	61.9
0.25 Follower Density, followers/mi/ln	5.7
С	
Segment 5	
Passing Zone Length, ft	1214
12 Shoulder Width, ft	6
55 Access Point Density, pts/mi	0.0
555 Opposing Demand Flow Rate, veh/h	534
0.83 Total Trucks, %	3.38
1700 Demand/Capacity (D/C)	0.33
3 Free-Flow Speed, mi/h	62.1
4.34131 Speed Power Coefficient	0.59031
-1.36483 PF Power Coefficient	0.77383
No Total Segment Density, veh/mi/ln	5.4
0.0 % Improved Avg Speed	0.0
Length, ft Radius, ft Superelevation, %	Average Speed, mi/h
1214 1432 2	59.1
59.1 Percent Followers, %	57.9
	5.4
plication that isn't licensed to use novaPDF. followers, followers	

Vehi	cle LOS	С				
			Segn	nent 6		
Veł	nicle Inputs					
Segment Type Passing Constrained				Length, ft		10178
	: Width, ft	12			ft	6
Speed Limit, mi/h 55			Access Point Der	nsity, pts/mi	1.2	
Dei	mand and Capacity	<u>'</u>				
Dire	ctional Demand Flow Rate, veh/h	555		Opposing Dema	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.83		Total Trucks, %		3.38
Segr	ment Capacity, veh/h	1700		Demand/Capacit	ty (D/C)	0.33
Int	ermediate Results	<u>'</u>				
Segr	ment Vertical Class	1		Free-Flow Speed	, mi/h	62.3
Spe	ed Slope Coefficient	3.97612		Speed Power Co	efficient	0.41674
PF S	lope Coefficient	-1.28257		PF Power Coeffic	ient	0.74185
In Pa	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	5.4
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1795	143	2	2	59.1
2	Tangent	845	-		-	59.4
3	Horizontal Curve	528	191	0 2		59.1
4	Tangent	1690 - 370 716		- 2		59.4 46.4
5	Horizontal Curve					
6	Tangent	1518	-		-	59.4
7	Horizontal Curve	792	573	573 2		46.4
8	Tangent	422	-	-		59.4
9	Horizontal Curve	845	127	3 2		59.1
10	Tangent	792	-	-		59.4
11	Horizontal Curve	581	819	2		52.9
Vel	nicle Results					·
Aver	age Speed, mi/h	57.5		Percent Follower	rs, %	56.4
Segr	ment Travel Time, minutes	2.01		Follower Density, followers/mi/ln		5.4
	cle LOS	С				
			Segn	nent 7		
Vel	nicle Inputs		<u> </u>			
	ment Type	Passing Constrair	ned	Length, ft		2007
	e Width, ft	12		Shoulder Width,	ft	6
	ed Limit, mi/h	55		Access Point Der		2.6
		100		, 100033 I Ollit Del	101Cy, p.1071111	2.0
	mand and Capacity					

	Hour Factor	0.83		Total Trucks, %	3.38	
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.33
Int	ermediate Results					
Seg	ment Vertical Class	3		Free-Flow Speed,	mi/h	61.4
Spe	ed Slope Coefficient	5.24772		Speed Power Coe	fficient	0.55345
PF S	lope Coefficient	-1.41711		PF Power Coefficie	ent	0.74586
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	6.1
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	106 -			-	58.0
2	Horizontal Curve	581 573		i	2	46.4
3	Tangent	1320 -			-	58.0
Vel	nicle Results					
Ave	rage Speed, mi/h	54.6		Percent Followers	, %	59.9
Seg	ment Travel Time, minutes	0.42		Follower Density,	followers/mi/ln	6.1
Veh	cle LOS	С				
			egn	nent 8		<u>'</u>
<b>V</b> el	nicle Inputs					
	•			1		
Seg	ment Type	Passing Constrained		Length, ft		5227
	e Width, ft	Passing Constrained  12		Length, ft Shoulder Width, f	t	6
Lane		-		-		
Lane Spe	Width, ft	12		Shoulder Width, f		6
Spe De	e Width, ft ed Limit, mi/h	12		Shoulder Width, f Access Point Dens		6
Spe De Dire	e Width, ft ed Limit, mi/h mand and Capacity	12 55		Shoulder Width, f Access Point Dens	sity, pts/mi	3.0
Spe De Dire	e Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h	12 55 555		Shoulder Width, f Access Point Dens Opposing Deman	d Flow Rate, veh/h	6 3.0
De Dire Peal	width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  thour Factor	12 55 555 0.83		Shoulder Width, for Access Point Dens Opposing Deman Total Trucks, %	d Flow Rate, veh/h	- 3.38
Land Spe Dire Dire Peal Seg	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h a Hour Factor ment Capacity, veh/h ermediate Results	12 55 555 0.83		Shoulder Width, for Access Point Dens  Opposing Deman Total Trucks, % Demand/Capacity	d Flow Rate, veh/h	- 3.38
Spe Dire Peal Seg Int	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h thour Factor ment Capacity, veh/h ermediate Results ment Vertical Class	12 55 555 0.83 1700		Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, %  Demand/Capacity  Free-Flow Speed,	d Flow Rate, veh/h (D/C)	- 3.38 0.33
Direct Peal Seg Int Seg Specific Specif	e Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  a Hour Factor  ment Capacity, veh/h  ermediate Results  ment Vertical Class  ed Slope Coefficient	12 55 555 0.83 1700		Shoulder Width, for Access Point Dens  Opposing Deman Total Trucks, % Demand/Capacity	d Flow Rate, veh/h  (D/C)  mi/h  fficient	6 3.0 - 3.38 0.33
Lane Spe Dire Peal Seg Int Seg Spe PF S	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h thour Factor ment Capacity, veh/h ermediate Results ment Vertical Class	12 55 55 0.83 1700 1 3.91084		Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe	d Flow Rate, veh/h  (D/C)  mi/h  fficient	- 3.38 0.33 61.8 0.41674
Land Sperior Direction Peal Seguint Se	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h t Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient	12 55 555 0.83 1700 1 3.91084 -1.28177		Shoulder Width, for Access Point Density  Opposing Demant Total Trucks, % Demand/Capacity  Free-Flow Speed, Speed Power Coefficient	d Flow Rate, veh/h  (D/C)  mi/h  fficient  ent  nsity, veh/mi/ln	- 3.38 0.33 61.8 0.41674 0.76574
Land Spering Peal Seg Int Seg Spering Spering	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h a Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length?	12 55 555 0.83 1700 1 3.91084 -1.28177 No		Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficient Total Segment De	d Flow Rate, veh/h  (D/C)  mi/h  fficient  ent  nsity, veh/mi/ln	6 3.0 - 3.38 0.33 61.8 0.41674 0.76574 5.4
Land Spering Peal Seg Int Seg Spering Spering	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h a Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers	12 55 555 0.83 1700 1 3.91084 -1.28177 No	Rad	Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficient Total Segment De	d Flow Rate, veh/h  (D/C)  mi/h  fficient  ent  nsity, veh/mi/ln	6 3.0 - 3.38 0.33 61.8 0.41674 0.76574 5.4
Land Spe Dire Peal Seg Int Seg Spe PF S In Pi	e Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  a Hour Factor  ment Capacity, veh/h  cermediate Results  ment Vertical Class  ed Slope Coefficient  lope Coefficient  assing Lane Effective Length?  proved % Followers  cosegment Data	12 55 555 0.83 1700 1 3.91084 -1.28177 No 0.0	Rad	Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, % Demand/Capacity  Free-Flow Speed, Speed Power Coefficient Total Segment Density  Minimum Speed Avg Speed Avg Speed Power Avg Speed Po	mi/h fficient ent nsity, veh/mi/ln Speed	6 3.0 - 3.38 0.33 61.8 0.41674 0.76574 5.4 0.0
Land Spering Peal Seg Int Seg Spering PF S In Pa Sull	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h a Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers  psegment Data  Segment Type	12 55 55 0.83 1700 1 3.91084 -1.28177 No 0.0	_	Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, % Demand/Capacity  Free-Flow Speed, Speed Power Coefficient Total Segment Density  Minimum Speed Avg Speed Avg Speed Power Avg Speed Po	d Flow Rate, veh/h  (D/C)  mi/h  fficient  ent  nsity, veh/mi/ln  Speed	- 3.38 0.33 61.8 0.41674 0.76574 5.4 0.0  Average Speed, mi/h
Land Speed Direction Peal Seguint Segu	width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h thour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers  psegment Data  Segment Type  Horizontal Curve	12   55   555   0.83   1700   1   3.91084   -1.28177   No   0.0   Length, ft   422	143	Shoulder Width, for Access Point Density  Opposing Demand Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coefficient Total Segment Density % Improved Avg States and Segment Density  Blius, ft	mi/h fficient ent nsity, veh/mi/ln Speed Superelevation, % 2	6 3.0  - 3.38 0.33  61.8 0.41674 0.76574 5.4 0.0  Average Speed, mi/h 59.0
Land Speed Direction Peal Seguint Segu	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h a Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers  psegment Data  Segment Type Horizontal Curve Tangent	12   55   555   0.83   1700   1   3.91084   -1.28177   No   0.0   Length, ft   422   1003	143	Shoulder Width, for Access Point Density  Opposing Demand Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coefficient Total Segment Density % Improved Avg States and Segment Density  Blius, ft	d Flow Rate, veh/h  (D/C)  mi/h  fficient  ent  nsity, veh/mi/ln  Speed  Superelevation, %  2	6 3.0  - 3.38 0.33  61.8 0.41674 0.76574 5.4 0.0  Average Speed, mi/h 59.0 59.0
Direction Direct	e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h the Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers  psegment Data  Segment Type Horizontal Curve  Tangent Horizontal Curve	12 55 55 0.83 1700 1 1 3.91084 -1.28177 No 0.0 0.0 Length, ft 422 1003 634	143	Shoulder Width, for Access Point Density  Opposing Deman Total Trucks, % Demand/Capacity  Free-Flow Speed, Speed Power Coefficient Total Segment Density  Millius, ft	d Flow Rate, veh/h  (D/C)  mi/h  fficient  ent  nsity, veh/mi/ln  Speed  Superelevation, %  2	6 3.0  - 3.38 0.33  61.8 0.41674 0.76574 5.4 0.0  Average Speed, mi/h 59.0 59.0 46.4

Vehicle Results					
Average Speed, mi/h	57.5		Percent Followers	s, %	55.8
Segment Travel Time, minutes	1.03		Follower Density,	followers/mi/ln	5.4
Vehicle LOS	С	С			
		Segn	nent 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 Den	sity, pts/mi	4.1
Demand and Capacity					
Directional Demand Flow Rate, veh/h	555		Opposing Demar	nd Flow Rate, veh/h	534
Peak Hour Factor	0.83		Total Trucks, %		3.38
Segment Capacity, veh/h	1700		Demand/Capacit	y (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	No		ensity, veh/mi/ln	5.2
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2587 -		-		59.0
Vehicle Results					
Average Speed, mi/h	59.0		Percent Followers	s, %	55.7
Segment Travel Time, minutes	0.50		Follower Density,	5.2	
Vehicle LOS	С				
		Segm	ent 10		
Vehicle Inputs					
Segment Type	Passing Constrain	ned	Length, ft		2745
Lane Width, ft	12		Shoulder Width,	ft	6
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	3.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h	510		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor	0.87		Total Trucks, %		3.38
Segment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.30
Intermediate Results					
					_
Segment Vertical Class	1		Free-Flow Speed	, mi/h	61.6

In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.2
%lm	proved % Followers	0.0	0.0		Speed	0.0
Sul	osegment Data					·
#	Segment Type	Length, ft	Rad	ius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	845	-		-	59.0
2	Horizontal Curve	1214	674	1	2	46.4
3	Tangent	686	-		-	59.0
Vel	nicle Results	·				
Aver	rage Speed, mi/h	53.4		Percent Followers	, %	54.8
Segr	ment Travel Time, minutes	0.58		Follower Density,	followers/mi/ln	5.2
Vehi	cle LOS	С				
			Segm	nent 11		
Vel	nicle Inputs					
	ment Type	Passing Constrai	ned	Length, ft		7128
	e Width, ft	12		Shoulder Width, f	t	6
	ed Limit, mi/h	55		Access Point Dens		1.5
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	510	510		d Flow Rate, veh/h	-
Peak Hour Factor		0.87		Total Trucks, %	· · · · · · · · · · · · · · · · · · ·	3.38
Segment Capacity, veh/h		1700	1700		(D/C)	0.30
Int	ermediate Results			<u>'</u>		<u> </u>
Segr	ment Vertical Class	4		Free-Flow Speed,	mi/h	61.2
Spe	ed Slope Coefficient	8.21687		Speed Power Coe	fficient	0.48095
PF S	lope Coefficient	-1.76051		PF Power Coefficie	ent	0.76348
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	6.1
%lm	proved % Followers	0.0	0.0		Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	792	-		-	55.8
2	Horizontal Curve	2006	143	32	2	55.8
3	Tangent	581	-		-	55.8
4	Horizontal Curve	739	127	73	2	55.8
5	Horizontal Curve	845	955	5	2	53.0
6	Tangent	211	-		-	55.8
7	Horizontal Curve	1954	114	16	2	53.0
Vel	nicle Results					
Aver	rage Speed, mi/h	54.7		Percent Followers	, %	65.1
Segr	ment Travel Time, minutes	1.48		Follower Density,	followers/mi/ln	6.1
Vehicle LOS		С				

Vel	hicle Inputs							
Seg	ment Type	Pas	sing Lanes		Length, ft			4066
Lan	e Width, ft	12			Shoulder Width, ft			6
Spe	ed Limit, mi/h	55			Access Point Dens	sity, p	ts/mi	0.0
De	mand and Capacity							
Directional Demand Flow Rate, veh/h 510				Opposing Deman	d Flo	w Rate, veh/h	-	
Peak Hour Factor 0.87				Total Trucks, %			3.38	
Segment Capacity, veh/h 1500				Demand/Capacity	(D/C	;)	0.34	
Int	ermediate Results	•						·
Seg	ment Vertical Class	3			Free-Flow Speed,	mi/h		62.1
Spe	ed Slope Coefficient	6.06	5929		Speed Power Coef	fficie	nt	0.95478
PF S	Slope Coefficient	-1.2	3159		PF Power Coefficie	ent		0.83917
In P	assing Lane Effective Length?	No			Total Segment De	nsity	veh/mi/ln	4.6
%ln	nproved % Followers	0.0			% Improved Avg S	Speed	t l	0.0
Su	bsegment Data							
#			gth, ft	Rad	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	211	2112 -		-			59.5
2	Horizontal Curve	110	9	573		2		46.4
3	Tangent	845		-		-		59.5
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		308				202	
Perc	centage of Heavy Vehicles (HV%), %		1.35		6.47			
Initi	al Average Speed (Sint), mi/h		61.2	60.9				
Ave	rage Speed at Midpoint (SPLmid), mi	/h	62.8 59.3					
Perc	cent Followers at Midpoint (PFPLmid)	%	38.7 25.7			25.7		
Ve	hicle Results							
Ave	rage Speed, mi/h	56.0	)		Percent Followers	, %		50.4
Seg	ment Travel Time, minutes	0.83	3		Follower Density,	follo	wers/mi/ln	4.6
Veh	icle LOS	С						
			Se	gm	ent 13			
<b>V</b> el	hicle Inputs							
Seg	ment Type	Pas	sing Constrained		Length, ft			4752
Lane	e Width, ft	12			Shoulder Width, f	t		6
Spe	ed Limit, mi/h	55			Access Point Dens	sity, p	ts/mi	1.1
De	mand and Capacity							
Dire	ectional Demand Flow Rate, veh/h	510			Opposing Deman	d Flo	w Rate, veh/h	-
Peal	k Hour Factor	0.87	1		Total Trucks, %			3.38
		170			Demand/Capacity			0.30

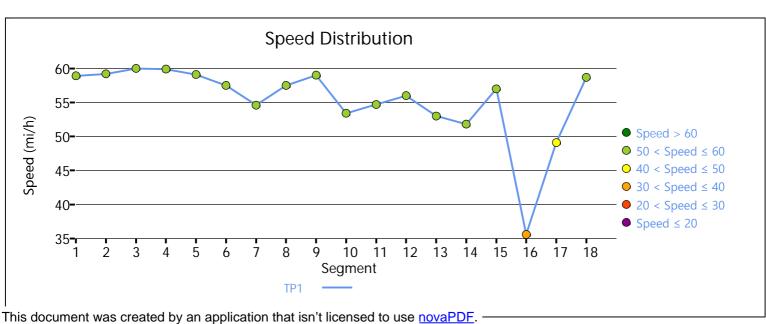
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed	d, mi/h	62.3
Spe	ed Slope Coefficient	3.93223		Speed Power Co	pefficient	0.41674
PF S	lope Coefficient	-1.28149	-1.28149		cient	0.76720
In Pa	assing Lane Effective Length?	Yes		Total Segment D	Density, veh/mi/ln	5.3
%lm	proved % Followers	20.0		% Improved Avo	g Speed	3.2
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1637	955	j	2	53.0
2	Horizontal Curve	1162	1162 573		2	46.4
3	Tangent	950	950 -		-	59.6
4	Horizontal Curve	1003	1003 573		2	46.4
<b>V</b> el	nicle Results					
Ave	rage Speed, mi/h	53.0		Percent Followe	rs, %	53.5
Seg	ment Travel Time, minutes	1.02		Follower Density	y, followers/mi/ln	4.1
Veh	icle LOS	С				
		<u>'</u>	Segm	ent 14		
<b>V</b> el	nicle Inputs					
Seg	ment Type	Passing Constraine	ed	Length, ft		6864
Lane	e Width, ft	12		Shoulder Width	, ft	6
Spe	ed Limit, mi/h	55		Access Point De	nsity, pts/mi	1.5
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	574		Opposing Dema	and Flow Rate, veh/h	-
Peal	K Hour Factor	0.86		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.34
Int	ermediate Results			•		
Seg	ment Vertical Class	5		Free-Flow Speed	d, mi/h	60.6
Spe	ed Slope Coefficient	11.38807		Speed Power Co	pefficient	0.41464
PF S	lope Coefficient	-1.98051		PF Power Coeffic	cient	0.82815
In Pa	assing Lane Effective Length?	Yes		Total Segment D	Density, veh/mi/ln	8.1
%lm	proved % Followers	14.3		% Improved Avo	g Speed	1.8
Sul	bsegment Data			•		•
	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
#	9 31	1531	603		2	46.4
# 1	Horizontal Curve			- 2		
	Horizontal Curve Tangent	5333	-		-	52.2
1		5333	-		-	52.2
1 2 <b>Vel</b>	Tangent nicle Results		-	Percent Followe		
1 2 <b>Vel</b> Ave	Tangent	5333 51.8 1.50	-	Percent Followe		71.4 6.8

This document was created by an application that isn't licensed to use <u>novaPDI</u> Purchase a license to generate PDF files without this notice.

			Segn	ment 15			
Vehi	icle Inputs						
Segm	ent Type	Passing Constrain	ned	Length, ft		2481	
Lane \	Width, ft	12		Shoulder Width, f	t	6	
Speed	Limit, mi/h 55 Access Point Density, pts/mi				sity, pts/mi	6.4	
Den	nand and Capacity			•			
Direct	ional Demand Flow Rate, veh/h	574		Opposing Deman	d Flow Rate, veh/h	-	
Peak I	Hour Factor	0.86		Total Trucks, %		3.38	
Segm	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.34	
Inte	rmediate Results			•			
Segm	ent Vertical Class	1		Free-Flow Speed,	mi/h	61.0	
Speed	I Slope Coefficient	3.83333		Speed Power Coe	fficient	0.41674	
PF SIc	pe Coefficient	-1.33581		PF Power Coefficie	ent	0.75483	
In Pas	sing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	6.0	
%lmp	roved % Followers	13.0		% Improved Avg S	Speed	1.5	
Sub	segment Data						
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Horizontal Curve	950	95	55	2	52.9	
2	Tangent	1531	-		-	58.2	
Vehi	icle Results	·	•			·	
Avera	ge Speed, mi/h	57.0		Percent Followers	, %	58.5	
Segm	ent Travel Time, minutes	0.49		Follower Density,	followers/mi/ln	5.1	
Vehicl	e LOS	С					
		<u> </u>	Segn	ment 16			
<b>V</b> ehi	icle Inputs						
Segm	ent Type	Passing Constrair	ned	Length, ft		3590	
Lane \	Width, ft	12		Shoulder Width, f	t	6	
Speed	I Limit, mi/h	35		Access Point Dens	10.3		
Den	nand and Capacity						
	ional Demand Flow Rate, veh/h	579		Opposing Deman	d Flow Rate, veh/h	-	
	Hour Factor	0.85		Total Trucks, %		3.38	
Segm	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.34	
Inte	rmediate Results						
Seam	ent Vertical Class	1		Free-Flow Speed,	mi/h	37.2	
	I Slope Coefficient	2.55903		Speed Power Coe		0.41674	
	pe Coefficient	-1.41640		PF Power Coefficie		0.68514	
	sing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	10.2	
%Imp	roved % Followers	11.4		% Improved Avg S	Speed	0.9	

#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	422	-		-	35.3
2	Horizontal Curve	264	143	33	2	35.3
3	Tangent	53	-		-	35.3
4	Horizontal Curve	528	955	5	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	191	0	2	35.3
9	Tangent	1267	-		-	35.3
Veľ	nicle Results					
Aver	age Speed, mi/h	35.6		Percent Followe	rs, %	62.2
Segr	ment Travel Time, minutes	1.14		Follower Density	y, followers/mi/ln	9.0
Vehi	cle LOS	С				
			Segm	ent 17		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrai	ned	Length, ft		1003
Lane	: Width, ft	<del>                                     </del>		Shoulder Width	, ft	6
Spe	ed Limit, mi/h	45		Access Point De	nsity, pts/mi	0.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	579		Opposing Dema	and Flow Rate, veh/h	-
Peak	Hour Factor	0.85		Total Trucks, %		3.38
Segr	nent Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.34
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed	d, mi/h	51.2
Spe	ed Slope Coefficient	3.28308		Speed Power Co	pefficient	0.41674
PF S	lope Coefficient	-1.46651		PF Power Coeffic	cient	0.71504
In Pa	assing Lane Effective Length?	Yes		Total Segment D	Density, veh/mi/ln	7.5
%lm	proved % Followers	11.0		% Improved Avo	g Speed	0.7
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-		-	48.8
2	Horizontal Curve	422	134	18	2	48.8
Vel	nicle Results					
Aver	age Speed, mi/h	49.1		Percent Followe	rs, %	62.9
Segr	nent Travel Time, minutes	0.23		Follower Density	y, followers/mi/ln	6.6
Vehi	cle LOS	С				
			Segm	ent 18		
Vel	nicle Inputs					
	-	olication that isn't				

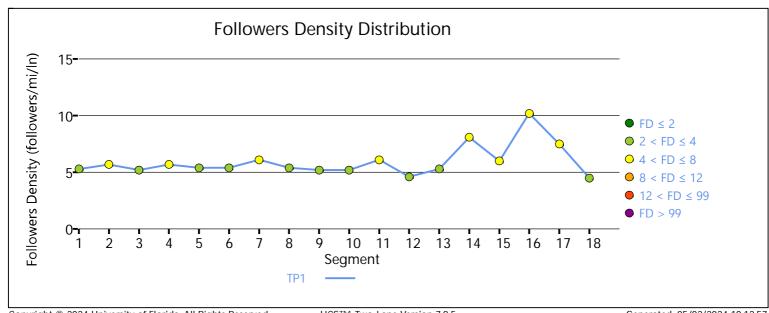
T Followe			Density, followers	s/mi/ln		LOS			
Fac	ility Resul	ts							
Vehi	cle LOS		С						
Segr	nent Travel Ti	me, minutes	1.10		Follower	Density, followers/mi/ln	4.1		
Aver	age Speed, m	i/h	58.7		Percent	Followers, %	53.1		
Veł	nicle Resul	ts							
7	Tangent		528	-		-	58.5		
6	Horizontal C	urve	211	207	8	0	58.5		
5	Horizontal C	urve	3326	207	8	0	58.5		
4	Horizontal C	urve	475	216	5	0	58.5		
3	Horizontal C	urve	317	229	2	0	58.5		
2	Tangent		53	-		-	58.5		
1	Horizontal C	urve	792	134	8	2	58.5		
#	Segment Typ	oe	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h		
Suk	segment	Data							
%Improved % Followers		9.9		% Impro	ved Avg Speed	0.3			
In Passing Lane Effective Length?		Yes		Total Seg	gment Density, veh/mi/ln	4.5			
PF S	lope Coefficie	nt	-1.28446		PF Powe	r Coefficient	0.76332		
Spee	ed Slope Coeff	icient	3.88056		Speed P	ower Coefficient	0.41674		
Segment Vertical Class			1		Free-Flo	w Speed, mi/h	61.2		
Inte	ermediate	Results							
Segr	ment Capacity	, veh/h	1700		Demand	/Capacity (D/C)	0.29		
Peak	Hour Factor		0.84		Total Tru	cks, %	3.38		
Dire	ctional Demar	nd Flow Rate, veh/h	500		Opposin	g Demand Flow Rate, veh/h	-		
Dei	mand and	Capacity							
Spee	ed Limit, mi/h		55		Access P	oint Density, pts/mi	5.6		
Lane	Width, ft		12		Shoulde	r Width, ft	6		



С

This document was created by an application that isn't licensed to use <u>novaPDF</u> Purchase a license to generate PDF files without this notice.

5.6



Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility D (SB) - FUTURE.xuf Generated: 05/02/2024 10:12:57

	НС	CS7 Two-La	ne	Highway Re	eport	
Project Information						
Analyst				Date		3/7/2024
Agency				Analysis Year		2024
Jurisdiction				Time Analyzed		
Project Description		side north UGB to sport south UGB		Units		U.S. Customary
		Se	egn	nent 1		
Vehicle Inputs						
Segment Type	Passi	ng Constrained		Length, ft		1320
Lane Width, ft	12			Shoulder Width, ft		6
Speed Limit, mi/h	55			Access Point Dens	ity, pts/mi	0.0
Demand and Capaci	ty					
Directional Demand Flow Ra	te, veh/h 698			Opposing Demand	d 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 Result	S					
Segment Vertical Class	2			Free-Flow Speed,	mi/h	62.4
Speed Slope Coefficient	3.549	910		Speed Power Coef	ficient	0.45095
PF Slope Coefficient	-1.47	791		PF Power Coefficie	ent	0.72616
In Passing Lane Effective Ler	gth? No			Total Segment De	nsity, veh/mi/ln	8.0
%Improved % Followers	0.0			% Improved Avg S	Speed	0.0
Subsegment Data				-		
# Segment Type	Leng	th, ft	Rad	ius, 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, minute	es 0.25			Follower Density, 1	followers/mi/ln	8.0
Vehicle LOS	С					
		Se	gn	nent 2		
Vehicle Inputs						
Segment Type	Passi	ng Lanes		Length, ft		3802
Lane Width, ft	12			Shoulder Width, ft		6
Speed Limit, mi/h	55			Access Point Dens	ity, pts/mi	1.0
Demand and Capaci	ty					
Directional Demand Flow Ra	te, veh/h 698			Opposing Demand	d Flow Rate, veh/h	-
Peak Hour Factor	0.96			Total Trucks, %		3.38
Segment Capacity, veh/h	1500			Demand/Capacity	(D/C)	0.47
his document was created	d by an application	n that isn't licens	sed to	o use <u>novaPDF</u> .		

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

	ment Vertical Class	4			Free-Flow Speed, mi/h			61.7	
Spe	ed Slope Coefficient	5.69	9335		Speed Power Coef	fficient		0.92255	
PF S	lope Coefficient	-1.1	5064		PF Power Coefficie	ent		0.84339	
In Pa	assing Lane Effective Length?	No			Total Segment Density, veh/mi/ln			6.9	
%lm	proved % Followers	0.0	0.0		% Improved Avg S	Speed		0.0	
Sul	osegment Data								
#	Segment Type	Len	Length, ft Rad		lius, ft	Superele	evation, %	Average Speed, mi/h	
1	Tangent	380	2	-		-		58.2	
Pas	ssing Lane Results								
			Faster Lane			Slo	wer Lane		
Flow Rate, veh/h			409			289	)		
Perc	entage of Heavy Vehicles (HV%), %		1.35			6.2	5		
Initia	al Average Speed (Sint), mi/h		60.5			59.8	3		
Aver	rage Speed at Midpoint (SPLmid), m	/h	62.1			58.	1		
Perc	ent Followers at Midpoint (PFPLmid)	, %	43.4			31.4	4		
Veł	nicle Results								
Aver	rage Speed, mi/h	58.2	)		Percent Followers, %			57.2	
Segr	ment Travel Time, minutes	0.74	0.74		Follower Density, followers/mi/ln		/mi/ln	6.9	
Vehi	cle LOS	С	С						
			Se	gn	nent 3			<u>'</u>	
Vel	nicle Inputs								
Segr	ment Type	Pass	Passing Constrained Length, ft					1267	
Lane	e Width, ft	12			Shoulder Width, ft	t		6	
Spe	ed Limit, mi/h	55			Access Point Density, pts/mi			0.0	
Dei	mand and Capacity								
							Opposing Demand Flow Rate, veh/h		
	ctional Demand Flow Rate, veh/h	664			Opposing Demand	d Flow Ra	te, veh/h	-	
Dire	ctional Demand Flow Rate, veh/h  K Hour Factor	0.87			Opposing Demand	d Flow Ra	te, veh/h	3.38	
Dire Peak			1				te, veh/h		
Dire Peak Segr	Hour Factor	0.87	1		Total Trucks, %		te, veh/h	3.38	
Dire Peak Segr	Hour Factor ment Capacity, veh/h	0.87	1		Total Trucks, %	(D/C)	te, veh/h	3.38	
Dire Peak Segr Into	Ment Capacity, veh/h ermediate Results	170	1		Total Trucks, %  Demand/Capacity	r (D/C)	te, veh/h	3.38	
Directory Peak Segr Into	ermediate Results ment Vertical Class	0.87 170 1 3.90	0		Total Trucks, %  Demand/Capacity  Free-Flow Speed,	mi/h	te, veh/h	3.38 0.39 62.6	
Direct Peak Segrification Segrification Special PF S	ermediate Results ment Vertical Class ed Slope Coefficient	0.87 170 1 3.90	00096		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coef	mi/h fficient		3.38 0.39 62.6 0.41674	
Direct Peak Segrifund Segr	ermediate Results ment Vertical Class ed Slope Coefficient	0.87 170 1 3.90 -1.3	0096 7180		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coefficient	mi/h fficient ent nsity, veh		3.38 0.39 62.6 0.41674 0.74214	
Directory Directory Peak Segrifunto Segrifunto Segrifunto Special PF Sulla Para Milmanna Milmanna Para Milmanna Pa	ment Capacity, veh/h  ermediate Results  ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length?	0.87 170 1 3.90 -1.3 Yes	0096 7180		Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coefficient Total Segment Demand/Capacity	mi/h fficient ent nsity, veh		3.38 0.39 62.6 0.41674 0.74214 7.1	
Direct Peak Segrifund Segr	ment Capacity, veh/h  ermediate Results  ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length?	0.87 170 1 3.90 -1.3 Yes 23.4	0096 7180	Rad	Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coefficient Total Segment Demand/Capacity	mi/h fficient ent nsity, veh		3.38 0.39 62.6 0.41674 0.74214 7.1	
Direct Peak Segrifunt Segrifunt Segrifunt Speech Sp	ment Capacity, veh/h  ermediate Results  ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length?  proved % Followers  osegment Data	0.87 170 1 3.90 -1.3 Yes 23.4	00096 7180 gth, ft	Rad -	Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coef PF Power Coefficie Total Segment De % Improved Avg S	mi/h fficient ent nsity, veh	/mi/ln	3.38 0.39 62.6 0.41674 0.74214 7.1 3.2	
Direct Peak Segrifunt Segr	ment Capacity, veh/h  ermediate Results  ment Vertical Class  ed Slope Coefficient  lope Coefficient  assing Lane Effective Length?  proved % Followers  osegment Data  Segment Type	0.87 170 1 3.90 -1.3 Yes 23.4	00096 7180 gth, ft	Rad -	Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coef PF Power Coefficie Total Segment De % Improved Avg S	mi/h fficient ent nsity, veh Speed	/mi/ln	3.38 0.39 62.6 0.41674 0.74214 7.1 3.2 Average Speed, mi/h	
Direct Peak Segrifund Segrifund Segrifund Park Milm Suk # 1	ment Capacity, veh/h  ermediate Results  ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers  osegment Data  Segment Type Tangent	0.87 170 1 3.90 -1.3 Yes 23.4	0096 7180 gth, ft	Rad -	Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coef PF Power Coefficie Total Segment De % Improved Avg S	mi/h fficient ent nsity, veh Speed Superele	/mi/ln	3.38 0.39 62.6 0.41674 0.74214 7.1 3.2 Average Speed, mi/h	

Vehic	cle LOS	С					
			Seg	ment 4			
Ver	nicle Inputs						
Segn	ment Type	Passing Zone		Length, ft		3115	
Lane	e Width, ft	12		Shoulder Width, f	t	6	
Spee	ed Limit, mi/h	55		Access Point Den	15.4		
Der	mand and Capacity						
Direc	ctional Demand Flow Rate, veh/h	664		Opposing Deman	d Flow Rate, veh/h	691	
Peak	Hour Factor	0.87		Total Trucks, %		3.38	
Segn	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.39	
Inte	ermediate Results						
Segn	ment Vertical Class	1		Free-Flow Speed,	mi/h	58.7	
Spee	ed Slope Coefficient	3.59086		Speed Power Coe	fficient	0.46053	
PF SI	lope Coefficient	-1.31292		PF Power Coeffici	ent	0.77788	
In Pa	assing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	7.3	
%lm	proved % Followers	19.2		% Improved Avg	2.8		
Suk	osegment Data						
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	3115	-		-	56.0	
Ver	nicle Results	•					
Aver	age Speed, mi/h	57.5		Percent Followers	, %	61.5	
Segn	ment Travel Time, minutes	0.62		Follower Density,	5.7		
Vehic	cle LOS	С					
			Seg	ment 5			
Ver	nicle Inputs						
Segn	ment Type	Passing Constrain	ed	Length, ft	Length, ft		
Lane	e Width, ft	12		Shoulder Width, f	Shoulder Width, ft		
Spee	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.7	
	mand and Capacity						
Der	ctional Demand Flow Rate, veh/h	664		Opposing Deman	d Flow Rate, veh/h	-	
				Total Trucks, %		3.38	
Dired	Hour Factor	0.87		Demand/Capacity	/ (D/C)	0.39	
Dired Peak	ment Capacity, veh/h	1700			0.39		
Dired Peak Segn		1700					
Direct Peak Segr	ment Capacity, veh/h	1700		Free-Flow Speed,	mi/h	62.4	
Direct Peak Segr Inte	ment Capacity, veh/h ermediate Results			Free-Flow Speed, Speed Power Coe		62.4 0.41674	
Direct Peak Segn Inte Segn Spee	ment Capacity, veh/h ermediate Results ment Vertical Class	1		<u> </u>	fficient		
Direct Peak Segn Inte Segn Spee	ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient	1 3.94189		Speed Power Coe	fficient	0.41674	

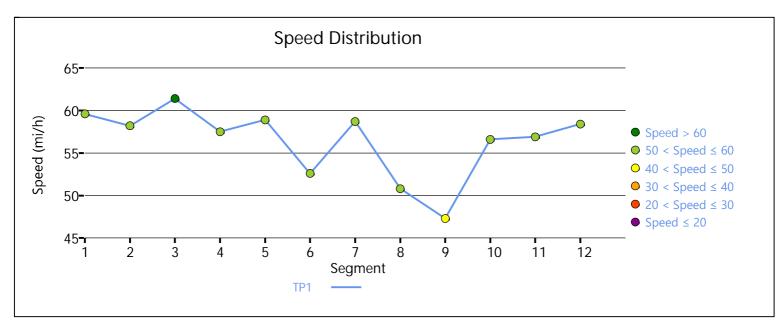
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2270	-		-	59.3
2	Horizontal Curve	1584	208	36	2	58.9
3	Horizontal Curve	634	969	)	2	52.8
4	Tangent	53	-		-	59.3
5	Horizontal Curve	475	941		2	52.8
6	Tangent	158	-		-	59.3
Vel	nicle Results					
Ave	rage Speed, mi/h	58.9		Percent Follower	rs, %	60.7
Seg	ment Travel Time, minutes	1.00		Follower Density	, followers/mi/ln	5.8
Veh	icle LOS	С				
			Segn	nent 6		
<b>V</b> el	nicle Inputs					
Seg	ment Type	Passing Constrai	ned	Length, ft		3168
Lane	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Der	nsity, pts/mi	0.0
De	mand and Capacity					·
Dire	ctional Demand Flow Rate, veh/h	664		Opposing Dema	nd Flow Rate, veh/h	-
Peal	K Hour Factor	0.87		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1700		Demand/Capacit	ty (D/C)	0.39
Int	ermediate Results					
Seg	ment Vertical Class	2		Free-Flow Speed	l, mi/h	62.4
Spe	ed Slope Coefficient	3.94758		Speed Power Co	efficient	0.45796
PF S	lope Coefficient	-1.36862		PF Power Coeffic	cient	0.74403
In Pa	assing Lane Effective Length?	Yes		Total Segment D	ensity, veh/mi/ln	8.1
%lm	proved % Followers	13.0		% Improved Avg	Speed	1.5
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, 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
Vel	nicle Results					
Ave	rage Speed, mi/h	52.6		Percent Follower	·s, %	63.6
Seg	ment Travel Time, minutes	0.68		Follower Density	, followers/mi/ln	7.0
Veh	icle LOS	С				
			Segn	nent 7		
Vel	nicle Inputs					
his	document was created by an ap			o use <u>novaPDF</u> .		3855
urcl	nase a license to generate PDF	tiles without this n	otice.			3000

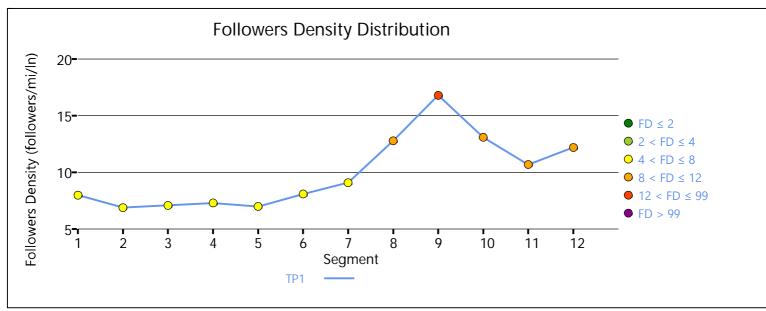
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	2.5
De	mand and Capacity					·
Dire	ctional Demand Flow Rate, veh/h	803		Opposing Deman	d Flow Rate, veh/h	-
Peal	Hour Factor	0.88		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.47
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.0
Spe	Speed Slope Coefficient 3.90356		Speed Power Coe	fficient	0.41674	
PF S	lope Coefficient	-1.29590		PF Power Coefficie	ent	0.76504
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	9.1
%lm	proved % Followers	9.8		% Improved Avg S	Speed	0.2
Sul	osegment Data	,				<u>'</u>
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2640	-		-	58.6
2	Horizontal Curve	1162	143	2	2	58.6
3	Tangent	53	-		-	58.6
Vel	nicle Results					
	rage Speed, mi/h	58.7		Percent Followers	0/2	66.6
	ment Travel Time, minutes		0.75			8.2
	cle LOS	D		Follower Density, followers/mi/ln		0.2
ven	LIE LOS					
		S	egn	nent 8		
Vel	nicle Inputs					
Seg	ment Type	Passing Constrained		Length, ft		6548
Lane	e Width, ft	12	Shoulder Width, ft			6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.5
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	803		Opposing Deman	d Flow Rate, veh/h	-
Peal	Hour Factor	0.88		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.47
	ermediate Results					
Int				Free-Flow Speed,		1
	ment Vertical Class	5		Tree-riow speed,	mi/n	60.1
Seg	ment Vertical Class ed Slope Coefficient	5 10.87738		Speed Power Coe		0.43042
Seg Spe				· ·	fficient	
Seg Spe PF S	ed Slope Coefficient	10.87738		Speed Power Coe	fficient	0.43042
Seg Spe PF S	ed Slope Coefficient  lope Coefficient	10.87738 -1.96828		Speed Power Coe PF Power Coefficie	fficient ent nsity, veh/mi/ln	0.43042 0.82630
Seg Spe PF S In Pa	ed Slope Coefficient lope Coefficient assing Lane Effective Length?	10.87738 -1.96828 Yes		Speed Power Coe PF Power Coefficie Total Segment De	fficient ent nsity, veh/mi/ln	0.43042 0.82630 12.8
Seg Spe PF S In Pa %Im	lope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers	10.87738 -1.96828 Yes	Rad	Speed Power Coe PF Power Coefficie Total Segment De	fficient ent nsity, veh/mi/ln	0.43042 0.82630 12.8
Seg Spe PF S In Pa	ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers  psegment Data	10.87738 -1.96828 Yes 7.4	Rad	Speed Power Coe PF Power Coefficie Total Segment De % Improved Avg S	ent ent nsity, veh/mi/ln Speed	0.43042 0.82630 12.8 0.0

3	Horizontal Curve	1162	14	432	2	50.8
4	Tangent	4013	-		-	50.8
Ve	hicle Results				<u>'</u>	
Ave	rage Speed, mi/h	50.8		Percent Followers	5, %	80.7
Seg	ment Travel Time, minutes	1.47		Follower Density,	followers/mi/ln	11.8
Veh	icle LOS	D				
			Seg	ment 9		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constraine	d	Length, ft		1795
Lane	e Width, ft	12		Shoulder Width, f	ft	6
Spe	ed Limit, mi/h	45		Access Point Den	sity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	1018		Opposing Demar	nd Flow Rate, veh/h	-
Peal	k Hour Factor	0.90		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.60
Int	ermediate Results					
Seg	ment Vertical Class	3		Free-Flow Speed,	mi/h	50.9
Spe	ed Slope Coefficient	3.77213		Speed Power Coe	efficient	0.45528
PF S	Slope Coefficient	-1.50090		PF Power Coeffici	ent	0.71060
In P	assing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	16.8
%ln	nproved % Followers	4.6		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-		-	47.3
2	Horizontal Curve	1109	9!	55	2	47.3
Ve	hicle Results					
Ave	rage Speed, mi/h	47.3		Percent Followers	5, %	78.1
Seg	ment Travel Time, minutes	0.43		Follower Density,	followers/mi/ln	16.0
Veh	icle LOS	E				
			Segr	ment 10		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constraine	d	Length, ft		4012
Lane	e Width, ft	12		Shoulder Width, 1	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	1.3
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	1018		Opposing Demar	nd Flow Rate, veh/h	-
	k Hour Factor	0.90		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.60
	document was created by an app hase a license to generate PDF f			to use <u>novaPDF</u> .		'

Segn	nent Vertical Class	1		Free-Flow S	Speed, mi/h		62.3
Spee	d Slope Coefficient	3.92159		Speed Powe	er Coefficier	nt	0.41674
PF SI	ope Coefficient	-1.29082		PF Power Co	oefficient		0.76620
In Pa	ssing Lane Effective Length?	Yes		Total Segme	ent Density, veh/mi/ln		13.1
%lm <sub>l</sub>	oroved % Followers	3.5	.5 % Improved Avg S			I	0.0
Sub	segment Data						
#	Segment Type	Length, ft		Radius, ft	Sup	erelevation, %	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	92 -		-		58.5
Veh	nicle Results						
Aver	age Speed, mi/h	56.6		Percent Foll	lowers, %		73.0
Segn	nent Travel Time, minutes	0.80		Follower De	ensity, follov	vers/mi/ln	12.7
Vehic	cle LOS	E			<i>y,</i>		
			Seg	ment 11			
Veh	nicle Inputs						
Segn	nent Type	Passing Lanes	<u> </u>	Length, ft			5544
Lane	Width, ft	12	12 Shoulder Width, ft				6
Spee	d Limit, mi/h	55	55 Access Point Densi			ts/mi	0.0
Der	mand and Capacity			·			
Direc	ctional Demand Flow Rate, veh/h	944	944 Opposing Demand			w Rate, veh/h	-
Peak	Hour Factor	0.87		Total Trucks	5, %		3.38
Segn	nent Capacity, veh/h	1500	Demand/Capacity			)	0.63
Inte	ermediate Results	·		·			
Segn	nent Vertical Class	4		Free-Flow S	Free-Flow Speed, mi/h		62.0
Spee	d Slope Coefficient	6.05501		Speed Powe	er Coefficier	nt	1.02649
PF SI	ope Coefficient	-1.08592		PF Power Co	PF Power Coefficient		0.87983
In Pa	ssing Lane Effective Length?	No		Total Segme	Total Segment Density, ve		10.7
%lm <sub>l</sub>	proved % Followers	0.0		% Improved	d Avg Speed	İ	0.0
Suk	segment Data	•		•			
#	Segment Type	Length, ft		Radius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	5544		-	-		56.9
 Pas	sing Lane Results						
	- <del>'</del>	Faster La	ne			Slower Lane	
Flow	Rate, veh/h	536				407	
			1.35			6.05	

Ave	rage Speed at	Midpoint (SPLmid), mi	/h	61.9				57.7	
Perc	cent Followers	at Midpoint (PFPLmid)	, %	48.2					
Ve	hicle Resul	its							
Ave	erage Speed, m	i/h	56.9	)		Percent Followers, %			64.4
Seg	ıment Travel Tiı	me, minutes	1.11	1		Follower	Density,	followers/mi/ln	10.7
Veh	nicle LOS		D						
				Se	gm	ent 12			
<b>V</b> e	hicle Input	ts							
Segment Type			Pass	sing Constrained		Length, f	t		2060
Lan	e Width, ft		12			Shoulder	Width, f	t	6
Spe	ed Limit, mi/h		55			Access P	oint Dens	ity, pts/mi	0.0
De	emand and	Capacity							
Directional Demand Flow Rate, veh/h			944	944			g Deman	-	
Peal	k Hour Factor		0.87	7	Total Tru	cks, %		3.38	
Seg	ment Capacity	, veh/h	170	1700		Demand	/Capacity	(D/C)	0.56
Int	termediate	Results							
Seg	ment Vertical (	Class	3			Free-Flov	w Speed,	mi/h	62.1
Spe	ed Slope Coeff	ficient	5.36922			Speed Po	ower Coe	fficient	0.56005
PF S	Slope Coefficie	nt	-1.4	-1.41079		PF Power Coefficient			0.74808
In P	assing Lane Eff	fective Length?	Yes			Total Segment Density, veh/mi/ln			12.2
%In	nproved % Foll	owers	18.8	3		% Improved Avg Speed			2.2
Su	bsegment	Data							
#	Segment Typ	pe	Len	gth, ft	Rad	lius, ft		Superelevation, %	Average Speed, mi/h
1	Tangent		116	2				-	57.2
2	Horizontal C	Curve	898		143	2		2	57.2
<b>V</b> e	hicle Resul	its							
Ave	erage Speed, m	ii/h	58.4	1		Percent F	ollowers	, %	74.1
Seg	ment Travel Ti	me, minutes	0.40	)		Follower	Density,	followers/mi/ln	9.7
Veh	nicle LOS		D						
Fac	cility Resul	lts							
	Т	Follower	Dens	ity, followers/mi/l	n			LC	OS
	1			9.2					)





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility E (NB) - FUTURE.xuf

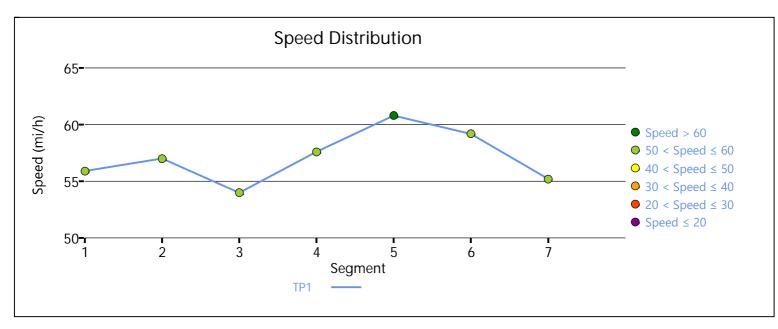
		HCS7 Tw	o-Lane	e Highway Re	eport	
Pro	ject Information					
Ana	lyst			Date		4/14/2024
Age				Analysis Year		2024
	sdiction			Time Analyzed		
Proj	ect Description	Reedsport south	n UGB to	Units		U.S. Customary
	<u> </u>	Lakeside north l				
			Segi	ment 1		
Vel	hicle Inputs					
Segi	ment Type	Passing Constra	ined	Length, ft		2852
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.7
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	982		Opposing Deman	d Flow Rate, veh/h	-
Peak	K Hour Factor	0.87		Total Trucks, %		3.38
Segi	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.58
Int	ermediate Results					
Segi	ment Vertical Class	3		Free-Flow Speed,	mi/h	61.1
Spe	ed Slope Coefficient	5.63365		Speed Power Coe	fficient	0.56011
PF S	Slope Coefficient	-1.38201		PF Power Coefficie	ent	0.74828
In Pa	assing Lane Effective Length?	No	No		nsity, veh/mi/ln	13.1
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data			•		
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	898	14	32	2	55.9
2	Tangent	1954	-		-	55.9
Vel	hicle Results	<u>'</u>				
Aver	rage Speed, mi/h	55.9		Percent Followers	, %	74.4
Segi	ment Travel Time, minutes	0.58		Follower Density,	followers/mi/ln	13.1
Vehi	icle LOS	E				
			Segi	ment 2		
Vel	hicle Inputs					
Segi	ment Type	Passing Constra	ined	Length, ft		9450
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	2.2
De	mand and Capacity					
	ctional Demand Flow Rate, veh/h	1057		Opposing Deman	d Flow Rate, veh/h	-
<u> </u>	K Hour Factor	0.90		Total Trucks, %		3.38
reak		1				

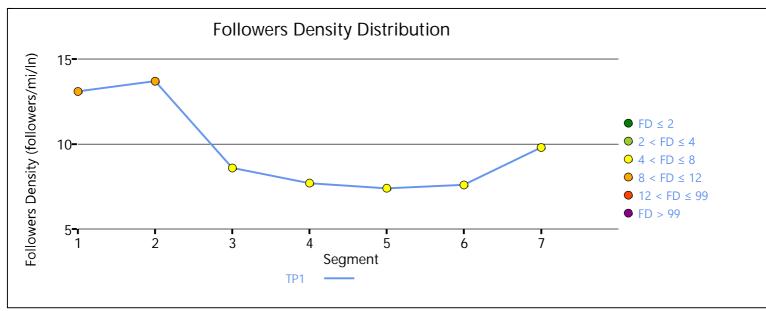
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.0
Spe	ed Slope Coefficient	3.95736		Speed Power Coe	fficient	0.41674
PF S	Slope Coefficient	-1.28026		PF Power Coefficie	ent	0.74675
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	13.7
%In	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, 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	143	2	2	58.2
5	Tangent	211	-		-	58.2
6	Horizontal Curve	211	955		2	52.5
7	Horizontal Curve	686	955		2	52.5
<b>V</b> e	hicle Results	-				
Ave	erage Speed, mi/h	57.0		Percent Followers	, %	73.7
Seg	ment Travel Time, minutes	1.88		Follower Density,	followers/mi/ln	13.7
Veh	icle LOS	E				
			Segn	nent 3		
Ve	hicle Inputs					
	ment Type	Passing Lanes		Length, ft		8078
	e Width, ft	12		Shoulder Width, f	6	
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	5.9
De	emand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	836	Opposing Demand Flow Rate, veh/h		d Flow Rate, veh/h	-
Pea	k Hour Factor	0.88		Total Trucks, %		3.38
Seg	ment Capacity, veh/h	1500		Demand/Capacity	(D/C)	0.56
	termediate Results					
Int	ment Vertical Class	5		Free-Flow Speed,	mi/h	60.1
				Speed Power Coe	fficient	1.16749
Seg	ed Slope Coefficient				0.01400	
Seg Spe	eed Slope Coefficient	-0.95601		PF Power Coefficie	ent	0.91400
Seg Spe PF S	<u> </u>			PF Power Coefficient Total Segment De		8.6
Seg Spe PF S	Slope Coefficient	-0.95601			nsity, veh/mi/ln	
Seg Spe PF S In P	Slope Coefficient Passing Lane Effective Length?	-0.95601 No		Total Segment De	nsity, veh/mi/ln	8.6
Seg Spe PF S In P	Slope Coefficient  Passing Lane Effective Length?  Inproved % Followers	-0.95601 No	Rac	Total Segment De	nsity, veh/mi/ln	8.6
Seg Spe PF : In P %In	Passing Lane Effective Length? Inproved % Followers  bsegment Data	-0.95601 No 0.0	Rac	Total Segment De % Improved Avg S	nsity, veh/mi/ln Speed	8.6
Seg Spe PF S In P	Slope Coefficient  Passing Lane Effective Length?  Inproved % Followers  bsegment Data  Segment Type	-0.95601 No 0.0 Length, ft		Total Segment De % Improved Avg S	nsity, veh/mi/ln Speed Superelevation, %	8.6 0.0 Average Speed, mi/h

5	Tangent	317		-		-		54.2
6	Horizontal Curve	105	6	114	6	2		52.7
7	Tangent	53		-		-		54.2
8	Horizontal Curve	317		143	2	2		54.2
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow	Rate, veh/h		481				355	
Perce	entage of Heavy Vehicles (HV%), %		1.35				6.13	
Initia	al Average Speed (Sint), mi/h		58.9				57.1	
Aver	age Speed at Midpoint (SPLmid), mi	/h	60.6				55.4	
Perce	ent Followers at Midpoint (PFPLmid)	, %	40.9				30.8	
Veh	nicle Results							
Aver	age Speed, mi/h	54.0	)		Percent Followers,	, %		55.6
Segr	ment Travel Time, minutes	1.70	)		Follower Density,	follov	vers/mi/ln	8.6
Vehi	cle LOS	D						
			Se	gn	nent 4			
Ver	nicle Inputs							
Segr	ment Type	Pass	sing Constrained		Length, ft			11088
	e Width, ft	12			Shoulder Width, ft	i i		6
	ed Limit, mi/h	55			Access Point Dens		ts/mi	0.5
Der	mand and Capacity							<u> </u>
Dire	ctional Demand Flow Rate, veh/h	691			Opposing Deman	d Flo	w Rate, veh/h	-
Peak	: Hour Factor	0.87	7		Total Trucks, %			3.38
Segr	ment Capacity, veh/h	170	0		Demand/Capacity	(D/C	······································	0.41
Inte	ermediate Results							<b>'</b>
Segr	ment Vertical Class	1			Free-Flow Speed,	mi/h		62.5
Spe	ed Slope Coefficient	3.99	3.99185		Speed Power Coefficient		nt	0.41674
PF S	lope Coefficient	-1.2	-1.28801		PF Power Coefficient			0.73475
In Pa	assing Lane Effective Length?	Yes	Yes		Total Segment Density, veh/mi/ln		veh/mi/ln	7.7
%lm	proved % Followers	14.7	1		% Improved Avg Speed		2.2	
Suk	osegment Data							
#	Segment Type	Leng	gth, ft	Rad	ius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Horizontal Curve	845		143	2	2		58.8
2	Tangent	264	0	-		-		59.3
3	Horizontal Curve	898		973		2		52.8
4	Tangent	158		-		-		59.3
	Horizontal Curve	898		568		2		46.3
5	110112011tal Odi VC							F0.2
5 6	Tangent	739		-		-		59.3
		739 475		587		2		46.3
6 7 8	Tangent	475 158		-				

10	Tangent	53	-		-	59.3
11	Horizontal Curve	634	969	)	2	52.8
12	Horizontal Curve	1584	208	36	2	58.8
13	Tangent	1531	-		-	59.3
Ver	icle Results					
Aver	age Speed, mi/h	57.6		Percent Followers	5, %	62.5
Segn	nent Travel Time, minutes	2.19		Follower Density,	followers/mi/ln	6.4
Vehi	cle LOS	С				
			Segn	nent 5		
Ver	nicle Inputs					
Segment Type Passing Zone			Length, ft		1426	
Lane	Width, ft	12		Shoulder Width, f	ft	6
Spee	d Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
Der	mand and Capacity	•		•		
Direc	ctional Demand Flow Rate, veh/h	691		Opposing Demar	nd Flow Rate, veh/h	664
Peak	Hour Factor	0.87		Total Trucks, %		3.38
Segn	nent Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.41
Inte	ermediate Results	<u>'</u>		<u>'</u>		•
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.6
Spee	d Slope Coefficient	3.76870		Speed Power Coe	efficient	0.46311
PF SI	ope Coefficient	-1.34616		PF Power Coeffici	ent	0.76916
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	7.4
%lm	oroved % Followers	14.0		% Improved Avg	Speed	1.9
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1426	-		-	59.6
Ver	nicle Results					
Aver	age Speed, mi/h	60.8		Percent Followers	5, %	63.7
Segn	nent Travel Time, minutes	0.27		Follower Density,	followers/mi/ln	6.2
Vehic	cle LOS	С				
			Segn	nent 6		
Ver	icle Inputs					
Segn	nent Type	Passing Constrain	ined	Length, ft		2165
Lane	Width, ft	12		Shoulder Width, f		6
Spee	d Limit, mi/h	55		Access Point Den	sity, pts/mi	4.9
Der	mand and Capacity	1		<u> </u>		
	ctional Demand Flow Rate, veh/h	691		Opposing Demar	nd Flow Rate, veh/h	-
Direc		+				1
	Hour Factor	0.87		Total Trucks, %		3.38

Intermediate Results						
Segment Vertical Class	1		Free-Flor	w Speed,	mi/h	61.4
Speed Slope Coefficient	3.84901			ower Coef		0.41674
PF Slope Coefficient	-1.34316		-	r Coefficie		0.75248
In Passing Lane Effective Length?	Yes				nsity, veh/mi/ln	7.6
%Improved % Followers	13.2		<u> </u>	ved Avg S		1.6
	13.2		70 IIIIpi 0	- Vea rivg s	<del></del>	1.0
Subsegment Data						
# Segment Type	Length, ft	Ra	dius, ft		Superelevation, %	Average Speed, mi/h
1 Tangent	2165	-			-	58.3
Vehicle Results						
Average Speed, mi/h	59.2		Percent I	Followers	, %	63.8
Segment Travel Time, minutes	0.42		Follower	Density,	followers/mi/ln	6.5
Vehicle LOS	С					
		Segr	ment 7			
Vehicle Inputs						
Segment Type	Passing Constrai	ined	Length, f	ft		6653
Lane Width, ft	12	12		r Width, f	t	6
Speed Limit, mi/h	55		Access P	oint Dens	sity, pts/mi	0.8
Demand and Capacity						
Directional Demand Flow Rate, veh/h	726		Opposin	g Deman	d 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-Flo	w Speed,	mi/h	61.4
Speed Slope Coefficient	8.13180	8.13180		ower Coe	fficient	0.49363
PF Slope Coefficient	-1.73905	-1.73905		r Coefficie	ent	0.76208
In Passing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln			9.8
%Improved % Followers	10.6		% Impro	ved Avg S	Speed	0.4
Subsegment Data						
# Segment Type	Length, ft	Ra	dius, ft		Superelevation, %	Average Speed, mi/h
1 Tangent	6653				-	54.9
Vehicle Results						
Average Speed, mi/h	55.2		Percent I	Followers	, %	74.4
Segment Travel Time, minutes	1.37		Follower	Density,	followers/mi/ln	8.8
Vehicle LOS	D					
Facility Results						
T Follow	ver Density, follower	rs/mi/ln			LC	os
1	9.3					)





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility E (SB) - FUTURE.xuf

		HCS7 Two-La	ane	Highway Re	eport	
Pro	oject Information					
Ana	lyst	Τ		Date		4/27/2024
Age	ncy			Analysis Year		2024
Juris	sdiction			Time Analyzed		
Proj	ect Description	North Bend north UGB Lakeside south UGB	3 to	Units		U.S. Customary
		So	egn	nent 1		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrained		Length, ft		2059
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	35		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	1520		Opposing Deman	d Flow Rate, veh/h	-
Peal	k Hour Factor	0.90		Total Trucks, %		18.89
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.89
Int	ermediate Results					
Seg	ment Vertical Class	2		Free-Flow Speed,	mi/h	39.3
Spe	ed Slope Coefficient	3.45778		Speed Power Coe	fficient	0.41622
PF S	Slope Coefficient	-1.56096		PF Power Coefficie	ent	0.67401
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	37.7
%ln	nproved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-		-	35.3
Ve	hicle Results					
Ave	rage Speed, mi/h	35.3		Percent Followers	, %	87.4
Seg	ment Travel Time, minutes	0.66		Follower Density,	followers/mi/ln	37.7
Veh	icle LOS	E				
		S	egn	nent 2		·
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrained		Length, ft		1953
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	45		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	1520		Opposing Deman	d Flow Rate, veh/h	-
Peal	k Hour Factor	0.90		Total Trucks, %		18.89
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.89
his	document was created by an app	olication that isn't licen	sed t	o use <u>novaPDF</u> .		

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

C -	mont Vortical Class	1		Frac Fla C		F0.7
	ment Vertical Class	1		Free-Flow Speed		50.7
	ed Slope Coefficient	3.26622		Speed Power Co		0.41674
	lope Coefficient	-1.43272		PF Power Coeffic		0.72503
	assing Lane Effective Length?	No		Total Segment D		27.8
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Length, ft Rad		Superelevation, %	Average Speed, mi/h
1	Tangent	1478	-		-	46.9
2	Horizontal Curve	475	143	32	2	46.9
Vel	nicle Results					
Aver	age Speed, mi/h	46.9		Percent Followers	s, %	85.6
Segr	ment Travel Time, minutes	0.47		Follower Density	, followers/mi/ln	27.8
Vehi	cle LOS	E				
			Segr	ment 3		
Veł	nicle Inputs					
Segr	ment Type	Passing Constrain	ned	Length, ft		2693
Lane	· Width, ft	12		Shoulder Width,	ft	6
Spee	ed Limit, mi/h	55		Access Point Den	ısity, pts/mi	0.0
Dei	mand and Capacity	·				
Dire	ctional Demand Flow Rate, veh/h	1520		Opposing Demai	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.90		Total Trucks, %		18.89
Segr	ment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.89
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed	, mi/h	62.1
Spe	ed Slope Coefficient	3.89501		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.31773		PF Power Coeffic	ient	0.76150
In Pa	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	22.1
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	581	143	32	2	57.3
2	Tangent	2112	-		-	57.6
Veł	nicle Results					
Aver	age Speed, mi/h	57.5		Percent Followers	s, %	83.7
Segr	ment Travel Time, minutes	0.53		Follower Density	, followers/mi/ln	22.1
Vehi	cle LOS	E				
			Segr	nent 4		
Ver	nicle Inputs					

Lane Width, ft  Speed Limit, mi/h		12		Shoulder Width,	ft	6	
Spe	ed Limit, mi/h	55		Access Point De	nsity, pts/mi	0.0	
De	mand and Capacity						
Dire	ectional Demand Flow Rate, veh/h	873		Opposing Dema	nd Flow Rate, veh/h	1024	
Peal	k Hour Factor	0.92		Total Trucks, %		18.89	
Seg	ment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.51	
Int	ermediate Results	·					
Seg	ment Vertical Class	1		Free-Flow Speed	I, mi/h	62.1	
Spe	ed Slope Coefficient	3.80904		Speed Power Co	efficient	0.43578	
PF S	Slope Coefficient	-1.35372		PF Power Coeffic	cient	0.76223	
In P	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	10.5	
%ln	nproved % Followers	0.0		% Improved Avg	Speed	0.0	
Su	bsegment Data					•	
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	1637	-		-	58.7	
<b>V</b> e	hicle Results				<u>'</u>		
Ave	rage Speed, mi/h	58.7		Percent Follower		70.5	
	ment Travel Time, minutes	0.32		Follower Density, followers/mi/ln		10.5	
	icle LOS	D			,		
<b>V</b> e	hicle Inputs		- Segr	nent 5			
Seg	ment Type	Passing Constrain	ned	Length, ft		6336	
Lan	e Width, ft	12	12		ft	6	
Spe	ed Limit, mi/h	55		Access Point De	nsity, pts/mi	0.0	
De	mand and Capacity	·					
Dire	ectional Demand Flow Rate, veh/h	873		Opposing Dema	nd Flow Rate, veh/h	-	
Pea	k Hour Factor	0.92		Total Trucks, %		18.89	
Seg	ment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.51	
	ermediate Results					·	
Int	ment Vertical Class	1		Free-Flow Speed	I, mi/h	62.1	
	ment vertical class	3.93424		Speed Power Coefficient		0.41/74	
Seg	ed Slope Coefficient	3.93424		Speed Power Co	embem	0.41674	
Seg Spe		3.93424 -1.27244		PF Power Coeffic		0.76619	
Seg Spe PF S	ed Slope Coefficient			PF Power Coeffic			
Seg Spe PF S	ed Slope Coefficient Slope Coefficient	-1.27244		PF Power Coeffic	cient ensity, veh/mi/ln	0.76619	
Seg Spe PF S In P	ed Slope Coefficient Slope Coefficient assing Lane Effective Length?	-1.27244 No		PF Power Coeffice Total Segment D	cient ensity, veh/mi/ln	0.76619	
Seg Spe PF S In P	ed Slope Coefficient Slope Coefficient assing Lane Effective Length? approved % Followers	-1.27244 No	Rac	PF Power Coeffice Total Segment D	cient ensity, veh/mi/ln	0.76619	
Seg Spe PF S In P %Im <b>Su</b> l	ed Slope Coefficient Slope Coefficient assing Lane Effective Length? approved % Followers bsegment Data	-1.27244 No 0.0	Rac 229	PF Power Coeffice Total Segment D % Improved Avg	ensity, veh/mi/In Speed	0.76619 10.2 0.0	
Seg Spe PF S In P	ed Slope Coefficient Slope Coefficient assing Lane Effective Length? approved % Followers bsegment Data Segment Type	-1.27244 No 0.0		PF Power Coeffice Total Segment D % Improved Avg	ensity, veh/mi/ln Speed Superelevation, %	0.76619 10.2 0.0 Average Speed, mi/h	
Seg Spe PF S In P %Im <b>Su</b> l	ed Slope Coefficient Slope Coefficient assing Lane Effective Length? hproved % Followers bsegment Data Segment Type Horizontal Curve	-1.27244 No 0.0 Length, ft		PF Power Coeffice Total Segment D % Improved Avg	sient  ensity, veh/mi/In  Speed  Superelevation, %  2	0.76619 10.2 0.0 Average Speed, mi/h 58.5	

	hicle Results							
Aver	rage Speed, mi/h	58.5	j		Percent Followers	, %		68.2
Segr	ment Travel Time, minutes	1.23	3		Follower Density, followers/mi/ln		10.2	
Vehi	icle LOS	D						
			Se	gn	nent 6			
Vel	hicle Inputs							
Segr	ment Type	Pass	sing Lanes		Length, ft			2640
Lane	e Width, ft	12			Shoulder Width, f	t		6
Spe	ed Limit, mi/h	55			Access Point Dens	sity, p	ts/mi	0.0
Dei	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	895		Opposing Deman	ıd Flov	w Rate, veh/h	-	
Peak	K Hour Factor	0.94			Total Trucks, %			18.89
Segr	ment Capacity, veh/h	130	0		Demand/Capacity	/ (D/C	)	0.69
Int	ermediate Results							·
Segr	ment Vertical Class	1			Free-Flow Speed,	mi/h		62.1
Spee	ed Slope Coefficient	7.20	)136		Speed Power Coefficient			0.83235
PF S	Slope Coefficient	-1.2	5823		PF Power Coefficient			0.77064
In Pa	assing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	10.9
%lm	proved % Followers	0.0			% Improved Avg S	Speed		0.0
Sul	bsegment Data							·
#	Segment Type	Leng	gth, ft	Rad	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	264	0	-		-		56.1
Pas	ssing Lane Results							
							Slower Lane	
						- 1		
Flow	v Rate, veh/h		Faster Lane 474				421	
	v Rate, veh/h centage of Heavy Vehicles (HV%), %							
Perc			474				421	
Perc Initia	entage of Heavy Vehicles (HV%), %	'h	474 7.56				421 31.66	
Perc Initia Aver	entage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h		474 7.56 59.8				421 31.66 58.4	
Perco Initia Aver	eentage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h rage Speed at Midpoint (SPLmid), mi/		474 7.56 59.8 61.7				421 31.66 58.4 56.5	
Percontrol Percontrol Veh	entage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h rage Speed at Midpoint (SPLmid), mi/ ent Followers at Midpoint (PFPLmid),		474 7.56 59.8 61.7 51.5		Percent Followers	, %	421 31.66 58.4 56.5	68.5
Percontrol Percontrol Vel	centage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h rage Speed at Midpoint (SPLmid), mi/cent Followers at Midpoint (PFPLmid), hicle Results	%	474 7.56 59.8 61.7 51.5		Percent Followers Follower Density,		421 31.66 58.4 56.5 46.7	68.5
Perconstruction Average Perconstruction Vehause Average Perconstruction Average Perconstruction Perconstruction Average Perconstruction Average Perconstruction Average Perconstruction Percon	rentage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h rage Speed at Midpoint (SPLmid), mi/ rent Followers at Midpoint (PFPLmid), hicle Results rage Speed, mi/h	% 56.1	474 7.56 59.8 61.7 51.5				421 31.66 58.4 56.5 46.7	
Perconstruction Average Perconstruction Vehause Average Perconstruction Average Perconstruction Perconstruction Average Perconstruction Average Perconstruction Average Perconstruction Percon	rentage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h rage Speed at Midpoint (SPLmid), mi/ rent Followers at Midpoint (PFPLmid), hicle Results rage Speed, mi/h ment Travel Time, minutes	% 56.1 0.53	474 7.56 59.8 61.7 51.5	egn			421 31.66 58.4 56.5 46.7	
Percontrol No. 10 Percontrol N	rentage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h rage Speed at Midpoint (SPLmid), mi/ rent Followers at Midpoint (PFPLmid), hicle Results rage Speed, mi/h ment Travel Time, minutes	% 56.1 0.53	474 7.56 59.8 61.7 51.5	egn	Follower Density,		421 31.66 58.4 56.5 46.7	
Percontrol Initial Average Percontrol Vel Average Percontrol Initial Average Percontrol Initial Percontrol I	rentage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h rage Speed at Midpoint (SPLmid), mi/ rent Followers at Midpoint (PFPLmid), hicle Results rage Speed, mi/h ment Travel Time, minutes icle LOS	% 56.1 0.53 D	474 7.56 59.8 61.7 51.5	egm	Follower Density,		421 31.66 58.4 56.5 46.7	
Percontrol Initial Average Average Average Vehicles Vehicles Segrification of the Segrificati	rentage of Heavy Vehicles (HV%), % al Average Speed (Sint), mi/h rage Speed at Midpoint (SPLmid), mi/ rent Followers at Midpoint (PFPLmid), hicle Results rage Speed, mi/h ment Travel Time, minutes icle LOS	% 56.1 0.53 D	474 7.56 59.8 61.7 51.5	egn	Follower Density, nent 7	follow	421 31.66 58.4 56.5 46.7	10.9

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

Dire	ectional Demand Flow Rate, veh/h	895		Opposing Deman	nd Flow Rate, veh/h	-	
Pea	k Hour Factor	0.94		Total Trucks, %	Total Trucks, %		
Seg	egment Capacity, veh/h 1700 [		Demand/Capacity	y (D/C)	0.53		
Int	ermediate Results						
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.1	
Spe	ed Slope Coefficient	3.87881		Speed Power Coe	efficient	0.41674	
PF S	Slope Coefficient	-1.35731		PF Power Coeffici	ent	0.74907	
In P	assing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	10.9	
%In	nproved % Followers	21.3		% Improved Avg	Speed	2.1	
Su	bsegment Data						
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	1637	-		-	58.5	
<b>V</b> e	hicle Results						
Ave	rage Speed, mi/h	59.8		Percent Followers	5, %	71.3	
	ment Travel Time, minutes	0.31		Follower Density,	followers/mi/ln	8.4	
	icle LOS	D			2 2		
			Seg	ment 8			
<b>V</b> e	hicle Inputs						
·		Passing Zone		Length, ft		8184	
Lane Width, ft 12			Shoulder Width, f		6		
Spe	Speed Limit, mi/h 55		Access Point Dens	sity, pts/mi	11.1		
De	mand and Capacity						
Dire	ectional Demand Flow Rate, veh/h	895		Opposing Deman	nd Flow Rate, veh/h	1045	
Pea	k Hour Factor	0.94		Total Trucks, %		18.89	
Seg	ment Capacity, veh/h	1700		Demand/Capacity	Demand/Capacity (D/C)		
Int	ermediate Results						
Seg	ment Vertical Class	1		Free-Flow Speed, mi/h		59.3	
Spe	ed Slope Coefficient	3.73279		Speed Power Coe	Speed Power Coefficient		
PF S	Slope Coefficient	-1.29013		PF Power Coeffici	ent	0.76270	
In P	assing Lane Effective Length?	Yes		Total Segment De	Total Segment Density, veh/mi/ln		
%In	nproved % Followers	11.9		% Improved Avg	Speed	0.8	
Su	bsegment Data						
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h	
1 Tangent		8184	-		-	55.9	
<b>V</b> e	hicle Results						
Ave	rage Speed, mi/h	56.4		Percent Followers	5, %	69.4	
	ment Travel Time, minutes	1.65		Follower Density,	·	9.7	
Seg							

Ve	ehicle Inputs						
Seç	gment Type	Passing Constra	ined	Length, ft	Length, ft		2006
Lar	ne Width, ft	12		Shoulder Wid	th, ft		6
Spe	eed Limit, mi/h	55		Access Point D	Density	y, pts/mi	0.7
De	emand and Capacity						
Dir	ectional Demand Flow Rate, veh/h	749		Opposing Der	mand I	Flow Rate, veh/h	-
Pea	ak Hour Factor	0.92		Total Trucks, %	%		18.89
Seç	gment Capacity, veh/h	1700		Demand/Capa	acity ([	D/C)	0.44
In	termediate Results						
Seç	gment Vertical Class	2		Free-Flow Spe	eed, m	i/h	60.9
Spe	eed Slope Coefficient	5.03500		Speed Power	Coeffic	cient	0.47283
PF	Slope Coefficient	-1.42115		PF Power Coe	fficien	t	0.74191
In F	Passing Lane Effective Length?	Yes		Total Segment	t Dens	sity, veh/mi/ln	9.0
%Ir	mproved % Followers	12.1		% Improved A	Avg Sp	eed	1.3
Su	ıbsegment Data						
#	Segment Type	Length, ft		Radius, ft	5	Superelevation, %	Average Speed, mi/h
1	Tangent	2006		-	-	-	56.8
<b>V</b> e	hicle Results						
Average Speed, mi/h 57.5			Percent Follow	wers, %	6	68.2	
Segment Travel Time, minutes		0.40		Follower Dens	sity, fo	llowers/mi/ln	7.8
Vehicle LOS		С					
			Se	gment 10			
Ve	ehicle Inputs			<u>-                                      </u>			
	gment Type	Passing Constra	ined	Length, ft			7339
	ne Width, ft	12		Shoulder Width, ft		6	
Spe	eed Limit, mi/h	55		Access Point D	Access Point Density, pts/mi		15.8
De	emand and Capacity						_
Dir	ectional Demand Flow Rate, veh/h	718		Opposing Der	mand I	Flow Rate, veh/h	-
	ak Hour Factor	0.96		Total Trucks, %			18.89
Seç	gment Capacity, veh/h	1700		Demand/Capa	acity ([	0.42	
ln <sup>-</sup>	termediate Results						<u>'</u>
Sec	gment Vertical Class	1		Free-Flow Spe	eed, m	i/h	58.1
	eed Slope Coefficient	3.72874		Speed Power			0.41674
PF Slope Coefficient -1.30453			PF Power Coe			0.75162	
In Passing Lane Effective Length?  Yes		Total Segment	t Dens	8.3			
%lr	mproved % Followers	8.8		% Improved A	Avg Sp	eed	0.3
Su	ıbsegment Data	<u>'</u>					
#	Segment Type	Length, ft		Radius, ft	5	Superelevation, %	Average Speed, mi/h
#	7 71.	J., .		· ·			J

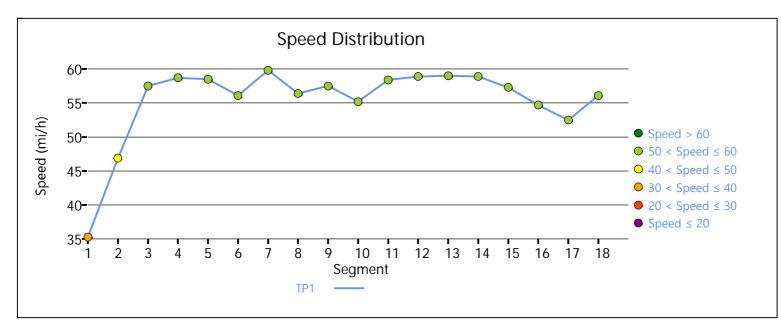
Vehicle Results					
Average Speed, mi/h	55.2		Percent Followers, %		63.8
Segment Travel Time, minutes			Follower Density,	followers/mi/ln	7.6
Vehicle LOS	С				
		Segm	ent 11		
Vehicle Inputs					
Segment Type Passing Zone I		Length, ft		3802	
Lane Width, ft	12		Shoulder Width,	ft	6
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	2.6
Demand and Capacity					
Directional Demand Flow Rate, veh/h	718		Opposing Demar	nd Flow Rate, veh/h	836
Peak Hour Factor	0.96		Total Trucks, %		18.89
Segment Capacity, veh/h	1700		Demand/Capacit	y (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 Coeffic	ient	0.78499
In Passing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	7.7
%Improved % Followers	7.4		% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft Rad		lius, 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	С				
		Segm	ent 12		
Vehicle Inputs					
Segment Type	Passing Constrain	ied	Length, ft	Length, ft	
Lane Width, ft	12		Shoulder Width,	Shoulder Width, ft	
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
Demand and Capacity					•
Directional Demand Flow Rate, veh/h	718		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor 0.96		Total Trucks, %		18.89	
Segment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.42
Intermediate Results					
Intermediate Results Segment Vertical Class	1		Free-Flow Speed	, mi/h	62.1

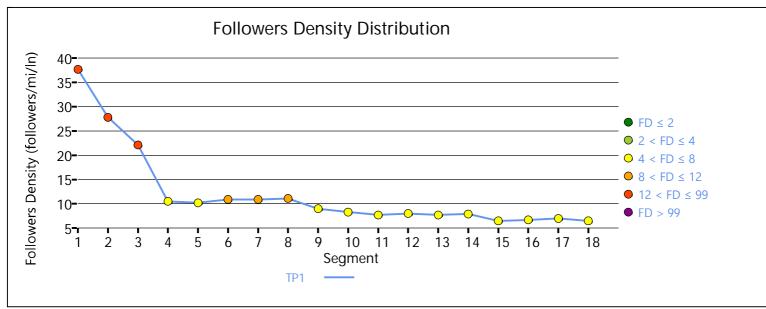
In Pa	assing Lane Effective Length?	Yes		Total Segment Do	ensity, veh/mi/ln	8.0
%lm	proved % Followers	6.9	6.9 % Improve		Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1373 -			-	58.9
<b>V</b> el	hicle Results		·			
Ave	rage Speed, mi/h	58.9		Percent Followers	5, %	65.8
Seg	ment Travel Time, minutes	0.26		Follower Density,	followers/mi/ln	7.5
Veh	icle LOS	С				
			Seg	ment 13		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		2693
Lane	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
De	mand and Capacity					
Directional Demand Flow Rate, veh/h		718		Opposing Demar	nd Flow Rate, veh/h	836
Peal	k Hour Factor	0.96		Total Trucks, %		18.89
Segment Capacity, veh/h		1700		Demand/Capacit	y (D/C)	0.42
Int	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed	, mi/h	62.1
Speed Slope Coefficient		3.79333		Speed Power Coe	efficient	0.44813
PF S	Slope Coefficient	-1.30770		PF Power Coeffic	ient	0.78064
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	7.7
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	R	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2693	-		-	59.0
<b>V</b> el	hicle Results					
Ave	rage Speed, mi/h	59.0		Percent Followers	5, %	63.6
Seg	ment Travel Time, minutes	0.52		Follower Density	followers/mi/ln	7.7
Veh	icle LOS	С				
			Seg	ment 14		
<b>V</b> el	hicle Inputs					
Segment Type Passing Constrained		Length, ft		1848		
Lane Width, ft 12			Shoulder Width,	ft	6	
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
— De	mand and Capacity					
	ctional Demand Flow Rate, veh/h	718		Opposing Demar	nd Flow Rate, veh/h	-
	document was created by an ap		Lange			

Sea	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.42
	ermediate Results			and supposity		
		1		Free Flaw Cheed	mai /la	/21
	ment Vertical Class	2,00220		Free-Flow Speed,		62.1
	ed Slope Coefficient	3.88239		Speed Power Coefficie		0.41674
	Slope Coefficient	-1.34741				
	assing Lane Effective Length?	No		Total Segment De		7.9
	nproved % Followers	0.0		% Improved Avg S	speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1848	-		-	58.9
Vel	hicle Results					
Ave	rage Speed, mi/h	58.9		Percent Followers,	, %	65.0
Seg	ment Travel Time, minutes	0.36		Follower Density, 1	followers/mi/ln	7.9
Veh	icle LOS	С				
			Segn	nent 15		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		1584
Lane Width, ft		12		Shoulder Width, ft	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.2
De	mand and Capacity	·				
Dire	ectional Demand Flow Rate, veh/h	610		Opposing Demand	d Flow Rate, veh/h	716
Peal	k Hour Factor	0.96		Total Trucks, %		18.89
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.36
Int	ermediate Results	·		•		
Seg	ment Vertical Class	2		Free-Flow Speed, mi/h		60.5
Spe	ed Slope Coefficient	4.59011		Speed Power Coef	fficient	0.51774
PF S	Slope Coefficient	-1.38059		PF Power Coefficie	ent	0.76382
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	6.5
%lm	nproved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1584	-		-	57.3
Vel	hicle Results					
Ave	rage Speed, mi/h	57.3		Percent Followers,	, %	61.2
Seg	ment Travel Time, minutes	0.31		Follower Density,	followers/mi/ln	6.5
Voh	icle LOS	С				
ven			C	1 47		
ven			Segn	nent 16		
	hicle Inputs		Segn	nent 16		

Lane	e Width, ft	12		Shoulder Wi	dth, ft	6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		18.2
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	610		Opposing D	emand Flow Rate, veh/h	-
Peak	Hour Factor	0.96		Total Trucks,	%	18.89
Segr	ment Capacity, veh/h	1700	1700 De		pacity (D/C)	0.36
Int	ermediate Results	·				
Segr	ment Vertical Class	1	1 Fre		peed, mi/h	57.5
Spe	ed Slope Coefficient	3.67034		Speed Powe	r Coefficient	0.41674
PF S	lope Coefficient	-1.32237		PF Power Co	pefficient	0.75696
In Pa	assing Lane Effective Length?	No		Total Segme	nt Density, veh/mi/ln	6.7
%lm	proved % Followers	0.0		% Improved	Avg Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Ra	idius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4541	-		-	54.7
Vel	nicle Results					_
Aver	rage Speed, mi/h	54.7		Percent Follo	owers, %	59.8
Segr	ment Travel Time, minutes	0.94		Follower De	nsity, followers/mi/ln	6.7
Vehi	cle LOS	С				
<b>V</b> eł	nicle Inputs		Segn	nent 17		
	ment Type	Passing Constrai	ned	Length, ft		4646
	e Width, ft	12	nea	Shoulder Wi	dth ft	6
	ed Limit, mi/h	55				3.6
	mand and Capacity					
	ctional Demand Flow Rate, veh/h	610		Opposing Demand Flow Rate, veh/h		-
	Hour Factor	0.96		Total Trucks, %		18.89
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.36
	ermediate Results					
Segr	ment Vertical Class	3		Free-Flow Sp	 beed, mi/h	58.2
	ed Slope Coefficient	8.86965			r Coefficient	0.64081
PF S	lope Coefficient	-1.33693		PF Power Co	pefficient	0.75993
In Pa	assing Lane Effective Length?	No		Total Segme	nt Density, veh/mi/ln	7.0
		0.0		% Improved	Avg Speed	0.0
Sul	osegment Data					_
#	Segment Type	Length, ft	Ra	idius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4646	-		-	52.5
Vel	nicle Results					

Seg	ment Travel Time, minutes	1.01		Follower	Density,	followers/mi/ln	7.0
	icle LOS	С			-		
			Segm	ent 18	}		
Vel	hicle Inputs						
Segment Type		Passing Constrain	ned	Length, f	ft		5492
Lane	e Width, ft	12		Shoulder	r Width, f	t	6
Spe	ed Limit, mi/h	55		Access P	oint Dens	sity, pts/mi	4.5
De	mand and Capacity						
Directional Demand Flow Rate, veh/h		veh/h 610		Opposin	g Deman	d Flow Rate, veh/h	-
Peal	k Hour Factor	0.96		Total Tru	cks, %		18.89
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.36	
Int	ermediate Results						
Segment Vertical Class		2		Free-Flov	w Speed,	mi/h	59.8
Spe	ed Slope Coefficient	5.08820		Speed Po	ower Coe	fficient	0.47949
PF S	Slope Coefficient	-1.33179		PF Power	r Coefficie	ent	0.75253
In Pa	assing Lane Effective Length	? No	No 7		ment De	nsity, veh/mi/ln	6.5
%lm	nproved % Followers	0.0	% Improved Avg Speed		Speed	0.0	
Sul	bsegment Data						
#	Segment Type	Length, ft	Rac	dius, ft		Superelevation, %	Average Speed, mi/h
1	Tangent	1109	-			-	56.1
2	Horizontal Curve	2218	229	)2		2	56.1
3	Tangent	2165	-			-	56.1
Vel	hicle Results						
Aver	rage Speed, mi/h	56.1		Percent I	Followers	, %	60.1
Seg	ment Travel Time, minutes	1.11		Follower	Density,	followers/mi/ln	6.5
Vehi	icle LOS	С					<u> </u>
Fac	cility Results						
	T F	Follower Density, followers	s/mi/ln			LC	S
	1	10.4				C	)





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility F (NB) - FUTURE.xuf

rectional Demand Flow Rate, veh/h ak Hour Factor gment Capacity, veh/h ak Hour Factor gment Capacity, veh/h ak Hour Factor gment Capacity, veh/h attermediate Results gment Vertical Class gment Vertical Class gment Vertical Class gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Slope Coefficient gment Type gment Segment Slope Coefficient gment Type gment Slope Coefficient gment Slope		
Analysis Yesterical Class  Green to Passing Lane Effective Length?  Slope Coefficient  Sl	y Report	
risdiction   Time Analysis Yest   risdiction   Lakeside south UGB to North Bend north UGB		
risdiction   Time Analy   Defect Description   Lakeside south UGB to North Bend north UGB    Segment 1  Paricle Inputs  gment Type   Passing Constrained   Length, ft   Defect Length, ft   12   Shoulder V   Defect Limit, mi/h   55   Access Point   Defect Limit, mi/h   716   Opposing V   Defect Limit, mi/h   700   Demand/C   Demand/C   Demand/C   Total Truck   Demand/C   Total Truck   Demand/C   Total Truck   Demand/C   Total Truck   Demand/C   Deman		4/14/2024
Segment 1  Chicle Inputs  Grant Type  Passing Constrained  Length, ft  Period Limit, mi/h  Length, ft  Length  Len	ar	2024
Segment 1  Particle Inputs  gment Type  Passing Constrained  Length, ft  Passing Lanes  Passing Lanes  Length, ft  Passing Lanes  Length, ft  Passing Lanes	zed	
gment Type		U.S. Customary
present Type Passing Constrained Length, ft present Length Length, ft present Length, ft present Length L		
ne Width, ft 12 Shoulder V  reed Limit, mi/h 55 Access Poli  remand and Capacity  rectional Demand Flow Rate, veh/h 716 Opposing in the Access Poli  ak Hour Factor 0.96 Total Truck greent Capacity, veh/h 1700 Demand/Countermediate Results  gment Vertical Class 2 Free-Flow: Speed Pow. Slope Coefficient 5.39045 Speed Pow. Slope Coefficient -1.32248 PF Power Counterproved Westerned Flowers 0.0 Westerned Flowers Interproved Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flowers 1.00 Westerned Flower Demonstration Flowe		
emand and Capacity  rectional Demand Flow Rate, veh/h ak Hour Factor 0.96 Total Truck gment Capacity, veh/h 1700 Demand/C  stermediate Results gment Vertical Class 2 Free-Flow 1 leved Slope Coefficient 5.39045 Speed Pow Slope Coefficient -1.32248 PF Power C  Passing Lane Effective Length? No Total Segment Out  stermediate Results  President Vertical Class 2 Free-Flow 1 leved Slope Coefficient -1.32248 PF Power C  Passing Lane Effective Length? No Total Segment Out  subsegment Data  Segment Type Length, ft Radius, ft  Tangent 2165 - Horizontal Curve 2218 2292  Tangent 2851 -  Pehicle Results  reage Speed, mi/h 56.0 Percent Fo gment Travel Time, minutes 1.47 Follower D  hicle LOS D  Segment 2  Passing Lanes Length, ft  sephicle Inputs  gment Type Passing Lanes Length, ft ne Width, ft 12 Shoulder V  leved Limit, mi/h 55 Access Poin		7234
rectional Demand Flow Rate, veh/h ak Hour Factor gment Capacity, veh/h at Hour Factor gment Capacity, veh/h at Hour Factor gment Capacity, veh/h at Hour Factor gment Capacity, veh/h at Hour Factor gment Capacity, veh/h at Hour Factor gment Capacity, veh/h at Hour Factor gment Capacity, veh/h at Hour Factor gment Vertical Class gment Vertical Class gment Vertical Class gment Vertical Class gment Speed Pow. Sope Coefficient graph	/idth, ft	6
rectional Demand Flow Rate, veh/h ak Hour Factor gment Capacity, veh/h ak Hour Factor gment Vertical Class  2	nt Density, pts/mi	2.2
ak Hour Factor 0.96 Total Truck gment Capacity, veh/h 1700 Demand/Contermediate Results  gment Vertical Class 2 Free-Flow 3  eed Slope Coefficient 5.39045 Speed Pow. Slope Coefficient -1.32248 PF Power Comparison of Comparison		
gment Capacity, veh/h  Itermediate Results  gment Vertical Class  gment Slope Coefficient  Judy Speed Pow  Slope Coefficient  Judy Speed Pow  Total Segment Passing Lane Effective Length?  Mo Total Segment Passing Lane Effective Length?  Judy Segment Type  Length, ft  Tangent  Judy Segment Type  Length, ft  Tangent  Judy Speed Pow  Radius, ft  Radius, ft  Tangent  Judy Speed Pow  Total Segment Radius, ft  Radius, ft  Tangent  Judy Speed Pow  Segment Type  Percent For  Segment Type  Percent For  Segment 2  Percent For  Segment 2  Percent Type  Passing Lanes  Length, ft  Tudy Shoulder Vertical Class  Percent For  Segment 12  Septicle Inputs  Segment Type  Passing Lanes  Length, ft  Tudy Shoulder Vertical Class  Percent For  Segment 12  Septicle Limit, mi/h  Tangent  Tangen	Demand Flow Rate, veh/h	-
gment Vertical Class gment Vertical Class geed Slope Coefficient Slope Coefficient Passing Lane Effective Length? No Total Segment Out Tot	5, %	18.89
gment Vertical Class  eed Slope Coefficient  Slope Coefficient  -1.32248  PF Power Coefficient  Passing Lane Effective Length?  mproved % Followers  Length, ft  Tangent  Tangent  Horizontal Curve  2218  2292  Tangent  Pehicle Results  rerage Speed, mi/h  gment Travel Time, minutes  hicle LOS  Passing Lanes  Length, ft  Segment 2  Radius, ft  Percent Follower D  Segment Type  Length, ft  Radius, ft  Percent Follower D  Segment Type  Length, ft  Radius, ft  Pehicle Results  Percent Follower D  Segment Type  Percent Follower D  Segment 2  Passing Lanes  Length, ft  Length, ft  12  Shoulder V  eed Limit, mi/h  55  Access Poin	apacity (D/C)	0.42
seed Slope Coefficient 5.39045 Speed Pow. Slope Coefficient -1.32248 PF Power Comproved % Followers 0.0 % Improve subsegment Data  Segment Type Length, ft Radius, ft Tangent 2165 - Horizontal Curve 2218 2292 Tangent 2851 - Sehicle Results  Behicle Results  Berage Speed, mi/h S6.0 Percent Follower D Segment Type D Segment 2  Segment Type Passing Lanes Length, ft Shoulder Valued Limit, mi/h 55 Access Point Power D Seed Limit, mi/h Seed Limi		
Slope Coefficient -1.32248 PF Power Composition of Total Segment Compositi	Speed, mi/h	60.2
Passing Lane Effective Length?  mproved % Followers  0.0 % Improve  ubsegment Data  Segment Type Length, ft Tangent Parizontal Curve Length Radius, ft Length ft Lengt	er Coefficient	0.48902
mproved % Followers  Description of the improved with the improved % Followers  Description of the improved with the imp	oefficient	0.74997
Segment Type	ent Density, veh/mi/ln	8.2
Segment Type	d Avg Speed	0.0
Tangent 2165 - Horizontal Curve 2218 2292  Tangent 2851 -  Phicle Results  Terage Speed, mi/h 56.0 Percent Forgment Travel Time, minutes 1.47 Follower Dehicle LOS D  Segment 2  Phicle Inputs  gment Type Passing Lanes Length, ft 12 Shoulder Valued Limit, mi/h 55 Access Point		
Horizontal Curve 2218 2292  Tangent 2851 -  Chicle Results  Terage Speed, mi/h 56.0 Percent Forgment Travel Time, minutes 1.47 Follower D  hicle LOS D  Segment 2  Chicle Inputs  gment Type Passing Lanes Length, ft 12 Shoulder Voled Limit, mi/h 55 Access Point	Superelevation, %	Average Speed, mi/h
Tangent 2851 -  Chicle Results  Ferage Speed, mi/h 56.0 Percent Formula Percen	-	56.0
ehicle Results  Ferage Speed, mi/h  gment Travel Time, minutes  hicle LOS  D  Segment 2  ehicle Inputs  gment Type  Passing Lanes  Length, ft  ne Width, ft  12  Shoulder V  eed Limit, mi/h  Secure Follower D  Length, ft  12  Shoulder V  Access Poin	2	56.0
rerage Speed, mi/h gment Travel Time, minutes hicle LOS  D  Segment 2  Pehicle Inputs  gment Type Passing Lanes Pehicle Shoulder V  Sed Limit, mi/h  Percent Fo  Pollower D  Length, ft  Access Point  Passing Lanes Access Point  Access Point  Passing Lanes Access Point  Access Point  Percent Fo  Pollower D  Access Point  Access Point  Pollower D  Access Point  Access Point  Passing Lanes Access Point  Access Point  Percent Fo  Percent Fo  Percent Fo  Pollower D  Access Point  Access Point  Percent Fo  Percent Fo  Percent Fo  Pollower D  Access Point  Access Point  Percent Fo  Percent Fo  Percent Fo  Pollower D  Access Point  Access Point  Percent Fo  Percent Fo  Percent Fo  Percent Fo  Pollower D  Access Point  Access Point  Percent Fo  Percent Fo  Percent Fo  Pollower D  Access Point  Access Point  Percent Fo  Percent Fo  Percent Fo  Percent Fo  Pollower D  Access Point  Percent Fo  Percent Fo  Percent Fo  Percent Fo  Pollower D  Access Point  Percent Fo  Per	-	56.0
gment Travel Time, minutes  1.47  Follower D  Segment 2  Phicle Inputs  gment Type  Passing Lanes  Length, ft  ne Width, ft  12  Shoulder V  Access Poin		
hicle LOS  Segment 2  Phicle Inputs  gment Type  Passing Lanes  Length, ft  ne Width, ft  12  Shoulder V  eed Limit, mi/h  55  Access Poin	lowers, %	64.3
Segment 2  Pehicle Inputs  gment Type  Passing Lanes  Length, ft  ne Width, ft  12  Shoulder V  eed Limit, mi/h  55  Access Poin	ensity, followers/mi/ln	8.2
ehicle Inputs  gment Type Passing Lanes Length, ft  ne Width, ft 12 Shoulder V  eed Limit, mi/h 55 Access Poin		
gment Type Passing Lanes Length, ft ne Width, ft 12 Shoulder V need Limit, mi/h 55 Access Poin		•
ne Width, ft 12 Shoulder V need Limit, mi/h 55 Access Poin		
ne Width, ft 12 Shoulder V need Limit, mi/h 55 Access Poin		1901
	/idth, ft	6
amand and Canacity	nt Density, pts/mi	2.8
emand and Capacity		
rectional Demand Flow Rate, veh/h 716 Opposing	Demand Flow Rate, veh/h	-
s document was created by an application that isn't licensed to use nova		18.89

Seg	ment Capacity, veh/h	1700		Demand/Capacity	Demand/Capacity (D/C)		
Int	ermediate Results					<u>'</u>	
Seg	ment Vertical Class	2		Free-Flow Speed,	mi/h	60.3	
	ed Slope Coefficient	4.98706		Speed Power Coe		0.47196	
PF S	Slope Coefficient	-1.39217	-1.39217 PF		ent	0.74623	
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	8.4	
%In	nproved % Followers	0.0		% Improved Avg	Speed	0.0	
Su	bsegment Data					<u>'</u>	
#	Segment Type	Length, ft	Length, ft Radius		Superelevation, %	Average Speed, mi/h	
1	Tangent	1901	-		-	56.4	
Ve	hicle Results					<u>'</u>	
Ave	rage Speed, mi/h	56.4		Percent Followers	 , %	66.2	
	ment Travel Time, minutes	0.38		Follower Density,		8.4	
	icle LOS	D					
			Segi	ment 3		<u> </u>	
Ve	hicle Inputs						
	ment Type	Passing Constrai	ned	Length, ft		4699	
Lane Width, ft		12		Shoulder Width, f	 t	6	
Speed Limit, mi/h		55		Access Point Dens		2.2	
	mand and Capacity				3-1		
	<u> </u>	71/		On a sain a Danasa	d Class Data such //a	1	
	ectional Demand Flow Rate, veh/h	716			d Flow Rate, veh/h	10.00	
	k Hour Factor	0.96		Total Trucks, %	· (D (C)	18.89	
	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.42	
Int	ermediate Results						
Seg	ment Vertical Class	1		Free-Flow Speed, mi/h		61.5	
Spe	ed Slope Coefficient	3.88878		Speed Power Coe	fficient	0.41674	
PF S	Slope Coefficient	-1.28725		PF Power Coefficie	ent	0.76744	
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	7.7	
%In	nproved % Followers	0.0		% Improved Avg	Speed	0.0	
Su	bsegment Data						
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	4699	-		-	58.3	
Ve	hicle Results						
Ave	rage Speed, mi/h	58.3		Percent Followers	, %	63.1	
Seg	ment Travel Time, minutes	0.92		Follower Density,	followers/mi/ln	7.7	
Veh	icle LOS	С					
			Segi	ment 4			
Ve	hicle Inputs						

Lane	e Width, ft	12		Shoulder Wid	th, ft	6
Spe	ed Limit, mi/h	55		Access Point I	Density, pts/mi	3.6
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	d Flow Rate, veh/h 836		Opposing De	mand Flow Rate, veh/h	718
Peak	Hour Factor	0.96		Total Trucks, S	%	18.89
Segr	ment Capacity, veh/h	1700		Demand/Cap	acity (D/C)	0.49
Int	ermediate Results					
Segr	ment Vertical Class	2		Free-Flow Spe	eed, mi/h	60.4
Spe	ed Slope Coefficient	4.55177	55177 Spe		Coefficient	0.51654
PF S	lope Coefficient	-1.39017		PF Power Coe	fficient	0.76177
In Pa	assing Lane Effective Length?	No		Total Segmen	t Density, veh/mi/ln	10.4
%lm	proved % Followers	0.0		% Improved A	Avg Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1478	-		-	56.5
Vel	nicle Results	·				
Aver	rage Speed, mi/h	56.5		Percent Follow	wers, %	70.3
	ment Travel Time, minutes	0.30		Follower Density, followers/mi/ln		10.4
Vehicle LOS		D				
			Segr	ment 5		
Vel	nicle Inputs					
	•	Danahan Camatasi		L and attack		1504
	ment Type	Passing Constrain	nea	Length, ft		1584
	e Width, ft	12		Shoulder Wid		6
	ed Limit, mi/h	55		Access Point	Density, pts/mi	0.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	836		Opposing Demand Flow Rate, veh/h		-
Peak	Hour Factor	0.96		Total Trucks, %		18.89
Segr	ment Capacity, veh/h	1700		Demand/Cap	acity (D/C)	0.49
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Spe	eed, mi/h	62.1
Spe	ed Slope Coefficient	3.87788		Speed Power	Coefficient	0.41674
PF S	lope Coefficient	-1.36001		PF Power Coe	fficient	0.74819
In Pa	assing Lane Effective Length?	No		Total Segmen	t Density, veh/mi/ln	9.9
%lm	proved % Followers	0.0		% Improved A	Avg Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1584	-		-	58.7
Val	nicle Results					
ACI						

Segn	nent Travel Time, minutes	0.31		Follower Density,	followers/mi/ln	9.9
Vehic	cle LOS	D				
			Segr	ment 6		
Ver	nicle Inputs					
Segment Type Passing Zone		Length, ft		2957		
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	Speed Limit, mi/h 55			Access Point Dens	sity, pts/mi	0.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	836		Opposing Deman	d Flow Rate, veh/h	718
Peak	Hour Factor	0.96		Total Trucks, %		18.89
Segn	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.49
Inte	ermediate Results					·
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.1
Spee	d Slope Coefficient	3.77476		Speed Power Coe	fficient	0.45802
PF SI	ope Coefficient	-1.29463		PF Power Coeffici	ent	0.78675
In Passing Lane Effective Length?		No		Total Segment De	ensity, veh/mi/ln	9.6
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	segment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2957	957 -		-	58.8
Ver	nicle Results					
Aver	age Speed, mi/h	58.8		Percent Followers	, %	67.5
Segn	nent Travel Time, minutes	0.57	57		followers/mi/ln	9.6
Vehi	cle LOS	D				
			Segr	ment 7		
Ver	nicle Inputs					
Segn	nent Type	Passing Constrain	ned	Length, ft		1742
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	836		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.96		Total Trucks, %		18.89
Segn	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.49
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.1
Spee	d Slope Coefficient	3.88062		Speed Power Coe	fficient	0.41674
PF SI	ope Coefficient	-1.35222		PF Power Coefficient	ent	0.75074
In Pa	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	9.9

#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1742	-		-	58.7
<b>V</b> el	hicle Results	•				
Average Speed, mi/h 58.7			Percent Followers	s, %	69.4	
Seg	ment Travel Time, minutes	0.34		Follower Density,	, followers/mi/ln	9.9
Veh	icle LOS	D				
			Segr	ment 8		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		3274
Lane	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	ısity, pts/mi	6.5
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	836		Opposing Demar	nd Flow Rate, veh/h	718
Peal	k Hour Factor	0.96		Total Trucks, %		18.89
Seg	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.49
Int	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed	, mi/h	60.4
Speed Slope Coefficient		3.69070		Speed Power Coe	efficient	0.45802
PF Slope Coefficient		-1.29863		PF Power Coeffic	ient	0.78450
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	9.9
%lm	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3274	-		-	57.2
<b>V</b> el	hicle Results					
Ave	rage Speed, mi/h	57.2		Percent Followers	s, %	67.7
Seg	ment Travel Time, minutes	0.65		Follower Density, followers/mi/ln		9.9
Veh	icle LOS	D				
			Segr	ment 9		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrain	ned	Length, ft		8448
<u> </u>		12		Shoulder Width,	ft	6
Speed Limit, mi/h		55		Access Point Den	sity, pts/mi	5.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	878		Opposing Demar	nd Flow Rate, veh/h	-
Peal	k Hour Factor	0.92		Total Trucks, %		18.89
	ment Capacity, veh/h	1700		Demand/Capacit		0.52

Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	60.8
	ed Slope Coefficient	3.88393		Speed Power Coe		0.41674
PF S	lope Coefficient	-1.28453		PF Power Coeffici		0.75263
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	10.5
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	osegment Data			1		
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	8448	-	,	-	57.3
Vel	nicle Results					
Aver	rage Speed, mi/h	57.3		Percent Followers	· %	68.8
	ment Travel Time, minutes	1.67		Follower Density,		10.5
	cle LOS	D		. Onower Deliaity,	. 5.15 110 15/111/111	10.0
VCIII		P	_			
			Segm	ent 10		
Vel	nicle Inputs					
Segment Type Passing			ned	Length, ft		1690
Lane	ane Width, ft 12			Shoulder Width, f	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	3.1
De	mand and Capacity					
Directional Demand Flow Rate, veh/h 878				Opposing Deman	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.92		Total Trucks, %		18.89
Segi	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.52
Int	ermediate Results					
Segi	ment Vertical Class	2		Free-Flow Speed,	mi/h	60.3
Spe	ed Slope Coefficient	4.84700		Speed Power Coe	efficient	0.46818
PF S	lope Coefficient	-1.44879		PF Power Coeffici	ent	0.73693
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	11.5
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	osegment Data	·		<u>'</u>		
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690	-		-	56.0
Vel	nicle Results					
Aver	rage Speed, mi/h	56.0		Percent Followers	5, %	73.2
Segment Travel Time, minutes 0.34			Follower Density,	followers/mi/ln	11.5	
Vehi	cle LOS	D				
			Segm	ent 11		
Vel	nicle Inputs					
	ment Type	Passing Zone		Lenath, ft		7550
~	mont IVIDO	L Paccing /one		II ODOTH II		I /bb[]

7 04 , ft	Total Tru  Demand  Free-Flo  Speed Po  PF Powe  Total See	cks, % /Capacity w Speed, I	mi/h ficient ent nsity, veh/mi/ln	895 18.89 0.61 60.7 0.44391 0.77462 13.4 0.0
)4	Free-Floor Speed Port Prove Total Sequence Williams Free-Floor Radius, ft	cks, % /Capacity w Speed, I ower Coefficie gment Der	mi/h fficient ent nsity, veh/mi/ln	18.89 0.61 60.7 0.44391 0.77462 13.4
)4	Free-Floward Speed Power Total See % Impro	/Capacity w Speed, r ower Coefficie gment Der	mi/h ficient ent nsity, veh/mi/ln	0.61 60.7 0.44391 0.77462 13.4
)4	Free-Floo Speed Powe PF Powe Total Seg % Impro	w Speed, i ower Coef r Coefficie gment Der	mi/h ficient ent nsity, veh/mi/ln	60.7 0.44391 0.77462 13.4
)4	Speed Power Total Seg % Impro	ower Coef r Coefficie gment Der	fficient ent nsity, veh/mi/ln	0.44391 0.77462 13.4
)4	Speed Power Total Seg % Impro	ower Coef r Coefficie gment Der	fficient ent nsity, veh/mi/ln	0.44391 0.77462 13.4
)4	PF Powe Total See % Impro	r Coefficie gment Der	ent nsity, veh/mi/ln	0.77462
	Total Seg % Impro	gment Der	nsity, veh/mi/ln	13.4
, ft	% Impro			
, ft	Radius, ft	ved Avg S	Speed	0.0
, ft				
, ft				
	-		Superelevation, %	Average Speed, mi/h
			-	57.0
	Percent	Followers,	%	73.2
1.51		Density, f	followers/mi/ln	13.4
E				
Seg	gment 12			
g Constrained	Length, t	ŧ		1690
	Shoulde	r Width, ft		6
	Access P	oint Dens	ity, pts/mi	0.0
1045		g Demand	d Flow Rate, veh/h	-
0.94		cks, %		18.89
	Demand	/Capacity	(D/C)	0.61
	Free-Flo	w Speed, i	mi/h	62.1
3	Speed Po	ower Coef	ficient	0.41674
70	PF Powe	r Coefficie	ent	0.74993
	Total Seç	gment Der	nsity, veh/mi/ln	13.5
	% Impro	ved Avg S	Speed	0.0
, ft	Radius, ft		Superelevation, %	Average Speed, mi/h
	-		-	58.3
	Percent	Followers,	%	75.3
that isn't licens	sed to use novaPDF_followers/mi/ln 13.5			
3 7	Constrained	Constrained Length, for Shoulder Access Parameter Access Parameter Demand Pree-Flow Speed Parameter Speed Para	Segment 12  Constrained Length, ft Shoulder Width, ft Access Point Dens  Opposing Demand Total Trucks, % Demand/Capacity  Free-Flow Speed, I Speed Power Coefficie Total Segment Den % Improved Avg S  ft Radius, ft  -  Percent Followers, hat isn't licensed to use novaPDF.	Constrained  Length, ft  Shoulder Width, ft  Access Point Density, pts/mi  Opposing Demand Flow Rate, veh/h  Total Trucks, %  Demand/Capacity (D/C)  Free-Flow Speed, mi/h  Speed Power Coefficient  OPF Power Coefficient  Total Segment Density, veh/mi/ln  % Improved Avg Speed  ft Radius, ft Superelevation, %  -  Percent Followers, %  hat isn't licensed to use novaPDF. followers/mi/ln

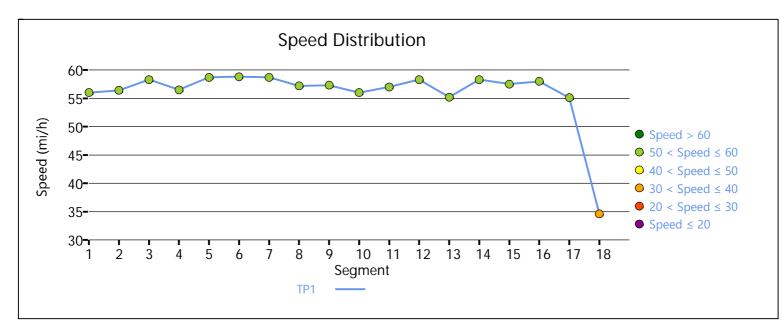
Veh	icle LOS	E						
			Se	gm	ent 13			
<b>V</b> el	hicle Inputs							
Seg	ment Type	Pas	sing Lanes		Length, ft			3538
Lane	e Width, ft	12			Shoulder Width, ft			6
Spe	ed Limit, mi/h	55			Access Point Dens	sity, pts	s/mi	0.0
De	mand and Capacity							
Dire	ectional Demand Flow Rate, veh/h	104	5		Opposing Deman	nd Flow	Rate, veh/h	-
Peal	k Hour Factor	0.94	1		Total Trucks, %			18.89
Seg	ment Capacity, veh/h	130	0		Demand/Capacity	y (D/C)		0.80
Int	ermediate Results							
Seg	ment Vertical Class	1			Free-Flow Speed,	mi/h		62.1
Spe	Speed Slope Coefficient		1671		Speed Power Coe	efficient		0.88158
PF Slope Coefficient		-1.1	9239		PF Power Coefficie	ent		0.79485
In Passing Lane Effective Length?		No			Total Segment De	ensity, v	reh/mi/ln	13.4
%Improved % Followers		0.0			% Improved Avg Speed			0.0
Sul	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Super	relevation, %	Average Speed, mi/h
1	Tangent	353	8	-		-		55.2
Pas	ssing Lane Results			<u> </u>				
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		536		508			
Perc	centage of Heavy Vehicles (HV%), %	)	7.56		30.85			
Initi	al Average Speed (Sint), mi/h		59.5			Ę	57.9	
Ave	rage Speed at Midpoint (SPLmid), r	ni/h	61.6 55.8					
Perc	cent Followers at Midpoint (PFPLmi	d), %	52.4			4	19.6	
Vel	hicle Results							
Ave	rage Speed, mi/h	55.2	2		Percent Followers, %			70.9
Seg	ment Travel Time, minutes	0.73	3		Follower Density,	followe	ers/mi/ln	13.4
Veh	icle LOS	E						
			Se	gm	ent 14			
Vel	hicle Inputs							
Seg	ment Type	Pas	sing Constrained		Length, ft			5914
Lane	e Width, ft	12			Shoulder Width, f	ft		6
Spe	Speed Limit, mi/h 55				Access Point Density, pts/mi			3.6
De	mand and Capacity							
	ectional Demand Flow Rate, veh/h	102	4		Opposing Deman	nd Flow	Rate, veh/h	-
Peak Hour Factor 0.92					Total Trucks, %			18.89
i cui								

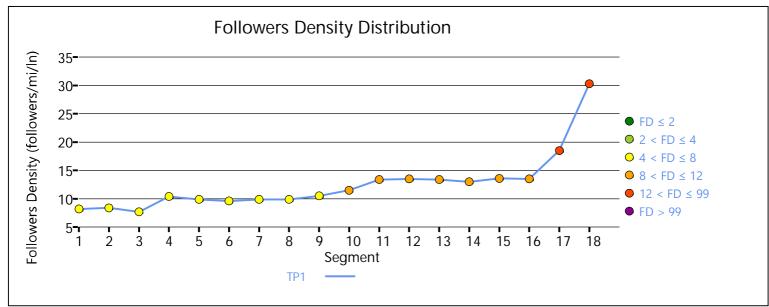
Inte	ermediate Results						
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.2	
Spe	ed Slope Coefficient	3.88164		Speed Power Coe	fficient	0.41674	
PF S	ope Coefficient	-1.28179		PF Power Coefficie	ent	0.76506	
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	13.0	
%lm	proved % Followers	14.8		% Improved Avg	Speed	1.5	
Suk	osegment Data						
#	Segment Type	Length, ft	Rad	ius, ft Superelevation, %		Average Speed, mi/h	
1	Tangent	1848	-		-	57.4	
2	Horizontal Curve	3221	229	)2	2	57.4	
3	Tangent	53	-		-	57.4	
4	Horizontal Curve	792	229	)2	2	57.4	
Vel	icle Results	<u> </u>					
Aver	age Speed, mi/h	58.3		Percent Followers	 , %	72.9	
Segr	nent Travel Time, minutes	1.15		Follower Density,	followers/mi/ln	10.9	
Vehi	cle LOS	D					
		Se	egm	ent 15		<u> </u>	
Veł	nicle Inputs						
Segr	ment Type	Passing Zone		Length, ft		1478	
Lane	Width, ft	12		Shoulder Width, f	t	6	
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	7.1	
Dei	mand and Capacity						
Dire	ctional Demand Flow Rate, veh/h	1024		Opposing Deman	d Flow Rate, veh/h	873	
Peak	Hour Factor	0.92		Total Trucks, %		18.89	
Segr	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.60	
Inte	ermediate Results	·				·	
Segr	nent Vertical Class	1		Free-Flow Speed, mi/h		60.3	
Spee	ed Slope Coefficient	3.68453		Speed Power Coefficient		0.44545	
PF S	ope Coefficient	-1.37064		PF Power Coefficient		0.76002	
In Pa	ssing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		13.6	
%lm	proved % Followers	13.5		% Improved Avg	Speed	1.3	
Suk	osegment Data	<u>'</u>					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h	
1	Horizontal Curve	422	229	22	2	56.7	
2	Tangent	1056	-		-	56.7	
Vel	icle Results	·				_	
Aver	age Speed, mi/h	57.5		Percent Followers	, %	75.2	
Segment Travel Time, minutes		0.29				11.6	
Segr				Follower Density, followers/mi/ln 11.6			

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

			Seg	ment 16			
Vel	nicle Inputs						
Segment Type		Passing Constrair	Passing Constrained			1373	
Lane	e Width, ft	12	12		th, ft	6	
Spe	ed Limit, mi/h	55	55		Density, pts/	′mi	3.8
De	mand and Capacity			·			·
Dire	ctional Demand Flow Rate, veh/h	1024		Opposing De	mand Flow I	Rate, veh/h	-
Peak	Hour Factor	0.92		Total Trucks, 9	<del>/</del> 6		18.89
Segr	ment Capacity, veh/h	1700		Demand/Cap	acity (D/C)		0.60
Int	ermediate Results						•
Segr	ment Vertical Class	1		Free-Flow Spe	eed, mi/h		61.1
Spe	ed Slope Coefficient	3.82250		Speed Power	Coefficient		0.41674
PF S	lope Coefficient	-1.38089		PF Power Coe	fficient		0.74223
In Pa	assing Lane Effective Length?	Yes		Total Segmen	t Density, ve	eh/mi/ln	13.5
%lm	proved % Followers	12.5		% Improved A	Avg Speed		1.1
Sul	osegment Data						
#	Segment Type	Length, ft Radi		Radius, ft	Super	elevation, %	Average Speed, mi/h
1	Tangent	1373	-		-		57.4
Vel	nicle Results						
Aver	rage Speed, mi/h	58.0		Percent Follow	vers, %		75.5
Segr	ment Travel Time, minutes	0.27		Follower Dens	sity, followe	rs/mi/ln	11.7
Vehi	cle LOS	D					
			Seg	ment 17			
Vel	nicle Inputs						
Segr	ment Type	Passing Lanes		Length, ft		2429	
Lane	e Width, ft	12		Shoulder Wid	th, ft	6	
Spe	ed Limit, mi/h	55		Access Point I	Density, pts/	2.2	
De	mand and Capacity						
Dire	ctional Demand Flow Rate, veh/h	1259		Opposing De	mand Flow I	Rate, veh/h	-
	Hour Factor	0.98		Total Trucks, 9		<u> </u>	18.89
Segr	ment Capacity, veh/h	1700		Demand/Cap	acity (D/C)		0.74
Int	ermediate Results						
Segr	ment Vertical Class	2		Free-Flow Spe	eed, mi/h		60.5
Spe	ed Slope Coefficient	5.02643		Speed Power	Coefficient		0.47285
PF S	lope Coefficient	-1.39087		PF Power Coe	fficient		0.74660
In Pa	assing Lane Effective Length?	Yes		Total Segmen	t Density, ve	eh/mi/ln	18.5
%lm	proved % Followers	8.6		% Improved A	Avg Speed		0.0
Sul	osegment Data						
	document was created by an app						

1	Tangent		1320	-			-	55.1			
2	Horizontal (	Curve	581	143	32		2	55.1			
3	Horizontal (	Curve	475	143	32		2	55.1			
4	Tangent		53				-	55.1			
<b>V</b> el	hicle Resu	lts									
Ave	rage Speed, m	ni/h	55.1	Percent	Followers	, %	80.8				
Seg	ment Travel Ti	me, minutes	0.50	Follower	Density,	followers/mi/ln	16.9				
Veh	icle LOS		E	E							
			S	egm	ent 18	3					
<b>V</b> el	hicle Inpu	ts									
Seg	ment Type		Passing Constrained		Length, 1	ft		3485			
Lan	e Width, ft		12		Shoulde	r Width, f	t	6			
Spe	ed Limit, mi/h		35	Access P	oint Dens	sity, pts/mi	1.5				
De	mand and	l Capacity									
Directional Demand Flow Rate, veh/h			1259		Opposin	g Deman	d Flow Rate, veh/h	-			
Peak Hour Factor			0.98		Total Tru	cks, %		18.89			
Seg	ment Capacity	, veh/h	1700		Demand	/Capacity	(D/C)	0.74			
Int	ermediate	Results									
Seg	ment Vertical	Class	3	Free-Flo	w Speed,	mi/h	38.9				
Spe	ed Slope Coef	ficient	4.05523	Speed Po	ower Coe	fficient	0.45092				
PF S	Slope Coefficie	ent	-1.51812	PF Power Coefficient			0.68351				
In P	assing Lane Ef	fective Length?	Yes	Total Segment Density, veh/mi/ln			30.3				
%ln	nproved % Fol	lowers	6.7		% Improved Avg Speed			0.0			
Su	bsegment	Data									
#	Segment Ty	pe	Length, ft	Rac	dius, ft		Superelevation, %	Average Speed, mi/h			
1	Tangent		3485	-			-	34.6			
Ve	hicle Resu	Its									
Ave	rage Speed, m	ni/h	34.6		Percent	Followers	, %	83.1			
Seg	ment Travel Ti	me, minutes	1.15	Follower De		Density, followers/mi/ln		28.2			
Veh	icle LOS		E								
Fac	cility Resu	Its									
	Т	Follower	Density, followers/m	i/ln	LOS						
	1		11.8			D					





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility F (SB) - FUTURE.xuf

		LICCZ T	Lana	I Ii adayyay D	- 10 - 10 lb	
		HC2/ IWC	)-Lane	Highway R	eport 	
Pro	ject Information					
Analy	<i>y</i> st			Date		4/27/2024
Agen	ncy			Analysis Year		2024
Juriso	diction			Time Analyzed		
Proje	ct Description	Bandon north UG 101/OR 42 junction		Units		U.S. Customary
			Segr	ment 1		
Veh	icle Inputs					
Segn	nent Type	Passing Constrair	ned	Length, ft		11458
Lane	Width, ft	12		Shoulder Width, f	ït	6
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Der	nand and Capacity					<u>'</u>
Direc	tional Demand Flow Rate, veh/h	733		Opposing Deman	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.97		Total Trucks, %		7.70
Segn	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.43
Inte	ermediate Results					
Segment Vertical Class 4				Free-Flow Speed,	mi/h	60.1
Speed Slope Coefficient		11.19658		Speed Power Coe	fficient	0.40379
PF Slope Coefficient		-1.96698		PF Power Coeffici	ent	0.75522
In Pa	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	11.4
%lmp	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rad	dius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	3749	-	-		50.8
2	Horizontal Curve	1056	19 <sup>-</sup>	10	2	50.8
3	Tangent	6653	-			50.8
Veh	icle Results	•				
Avera	age Speed, mi/h	50.8		Percent Followers	5, %	78.9
Segn	nent Travel Time, minutes	2.56		Follower Density, followers/mi/ln		11.4
Vehic	cle LOS	D				
			Segr	ment 2		•
Veh	icle Inputs					
Segn	nent Type	Passing Zone		Length, ft		3749
Lane	Width, ft	12		Shoulder Width, f	it	6
Spee	d Limit, mi/h	55		Access Point Den	sity, pts/mi	14.8
Der	nand and Capacity	,				•
Direc	tional Demand Flow Rate, veh/h	764		Opposing Deman	nd Flow Rate, veh/h	724
		olication that isn't l		•		

Seg	ment Capacity, veh/h	1700		Demand/Capacit	ty (D/C)	0.45
Int	ermediate Results					
Seg	ment Vertical Class	2		Free-Flow Speed	, mi/h	58.4
Spe	ed Slope Coefficient	3.45632		Speed Power Co	efficient	0.49936
PF S	Slope Coefficient	-1.30991	-1.30991		ient	0.76850
In P	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	9.0
%ln	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3749 -			-	55.6
Vel	hicle Results					·
Ave	rage Speed, mi/h	55.6		Percent Follower	rs, %	65.5
Seg	ment Travel Time, minutes	0.77		Follower Density	, followers/mi/ln	9.0
Veh	icle LOS	D				
			Seg	ment 3		
<b>V</b> el	hicle Inputs					
	ment Type	Passing Constrain	Passing Constrained			2482
Lane	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Der	nsity, pts/mi	7.1
De	mand and Capacity			·		
Dire	ectional Demand Flow Rate, veh/h	764		Opposing Dema	nd Flow Rate, veh/h	-
Peal	k Hour Factor	0.89		Total Trucks, %		7.70
Seg	ment Capacity, veh/h	1700	1700		ty (D/C)	0.45
Int	ermediate Results	<u>'</u>				
Seg	ment Vertical Class	1		Free-Flow Speed	, mi/h	60.7
Spe	ed Slope Coefficient	3.81606		Speed Power Co	efficient	0.41674
PF S	Slope Coefficient	-1.33814		PF Power Coeffic	ient	0.75470
In P	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	8.8
%ln	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2482	-		-	57.5
Vel	hicle Results					
Ave	rage Speed, mi/h	57.5		Percent Follower	rs, %	66.5
Seg	ment Travel Time, minutes	0.49		Follower Density	, followers/mi/ln	8.8
Veh	icle LOS	D				
			Soa	mont 1		<u>'</u>
Ton			seg	ment 4		
	hicle Inputs		3eg	ment 4		

Lan	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Der	nsity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	764		Opposing Dema	nd Flow Rate, veh/h	724
Pea	k Hour Factor	0.89		Total Trucks, %		7.70
Seg	ment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.45
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed	I, mi/h	62.4
Spe	ed Slope Coefficient	3.78251		Speed Power Co	efficient	0.45748
PF S	Slope Coefficient	-1.32317		PF Power Coeffic	cient	0.77663
In P	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	8.5
%In	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2006	-		-	59.3
<b>V</b> e	hicle Results	•				
Ave	rage Speed, mi/h	59.3		Percent Follower	rs, %	65.8
	ment Travel Time, minutes	0.38	0.38		r, followers/mi/ln	8.5
	icle LOS	D				
			Sean	nent 5		
\	Palata a la		oog.			
ve	hicle Inputs	_				
Seg	ment Type	Passing Constrained		Length, ft		3326
Lan	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Der	nsity, pts/mi	3.4
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	764	764		nd Flow Rate, veh/h	-
Pea	k Hour Factor	0.89		Total Trucks, %		7.70
Seg	ment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.45
Int	ermediate Results			·		
Seg	ment Vertical Class	1		Free-Flow Speed	I, mi/h	61.6
Spe	ed Slope Coefficient	3.87731		Speed Power Co	efficient	0.41674
PF S	Slope Coefficient	-1.30825		PF Power Coeffic	cient	0.76274
In P	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	8.6
%In	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3326	-		-	58.3
<b>V</b> e	hicle Results					
		ligation that 's at '	العجسم	to upo it suit DDT	%	65.5
	document was created by an applace a license to generate PDF			ιο use <u>novaPDF</u> .	7 70	00.0

Segme	ent Travel Time, minutes	0.65		Follower Density,	followers/mi/ln	8.6
Vehicle	e LOS	D				
			Segn	nent 6		
Vehic	cle Inputs					
Segme	ent Type	Passing Constrain	ed	Length, ft		4858
Lane V	Vidth, ft	12		Shoulder Width, f	t	6
Speed	Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Dem	and and Capacity					
Directi	onal Demand Flow Rate, veh/h	764		Opposing Deman	d Flow Rate, veh/h	-
Peak H	lour Factor	0.89		Total Trucks, %		7.70
Segment Capacity, veh/h 1700			Demand/Capacity	/ (D/C)	0.45	
Inter	mediate Results	·				
Segme	ent Vertical Class	4		Free-Flow Speed,	mi/h	60.1
Speed	Slope Coefficient	9.45901		Speed Power Coe	fficient	0.56714
PF Slop	pe Coefficient	-1.65922		PF Power Coeffici	ent	0.75272
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln		10.8
%Impr	roved % Followers	0.0		% Improved Avg	Speed	0.0
Subs	segment Data					
# 5	Segment Type	Length, ft Radi		dius, ft	Superelevation, %	Average Speed, mi/h
1 1	Tangent	3168	-	-		52.6
2 I	Horizontal Curve	1690 955		5	2	52.6
Vehi	cle Results					
Averag	ge Speed, mi/h	52.6	52.6		, %	74.2
Segme	ent Travel Time, minutes	1.05		Follower Density,	followers/mi/ln	10.8
Vehicle	e LOS	D	D			
			Segn	nent 7		
Vehic	cle Inputs					
Segme	ent Type	Passing Lanes		Length, ft		4119
Lane V	Vidth, ft	12		Shoulder Width, f	t	6
Speed	Limit, mi/h	55		Access Point Dens	sity, pts/mi	1.3
Dem	and and Capacity					
Directi	onal Demand Flow Rate, veh/h	764		Opposing Deman	d Flow Rate, veh/h	-
Peak H	lour Factor	0.89		Total Trucks, %		7.70
Segme	ent Capacity, veh/h	1400		Demand/Capacity	/ (D/C)	0.55
Inter	mediate Results					
Segme	ent Vertical Class	5		Free-Flow Speed,	mi/h	60.0
Speed	Slope Coefficient	9.76952		Speed Power Coe	fficient	1.02347
PF Slo	pe Coefficient	-1.01573		PF Power Coefficion	0.83248	
	cument was created by an app	+		+		8.0

%lm	proved % Followers	0.0			% Improved Avg S	Speed	d	0.0
Sul	osegment Data							
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	792		-		-		53.6
2	Horizontal Curve	137	3	955	i	2		52.6
3	Tangent	106		-		-		53.6
4	Horizontal Curve	1848		191	0	2		53.6
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow	Rate, veh/h		436				328	
Perc	entage of Heavy Vehicles (HV%), %		3.08				13.84	
Initia	al Average Speed (Sint), mi/h		59.5				55.4	
Aver	age Speed at Midpoint (SPLmid), mi/	h	61.2				53.7	
Perc	ent Followers at Midpoint (PFPLmid),	%	41.2				31.7	
Veł	nicle Results							
Average Speed, mi/h 53.3			3		Percent Followers,	, %		55.6
Segment Travel Time, minutes			}		Follower Density, followers/mi/ln		wers/mi/ln	8.0
Vehicle LOS			С					
			Se	egn	nent 8			
Vel	nicle Inputs							
Segr	ment Type	Pass	sing Lanes		Length, ft			3591
Lane	e Width, ft	12			Shoulder Width, ft	t		6
Spe	ed Limit, mi/h	55			Access Point Dens	sity, p	ots/mi	3.8
De	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	764			Opposing Demand Flow Rate, veh/h			-
 Peak	Hour Factor	0.89		Total Trucks, %			7.70	
Segr	ment Capacity, veh/h	1500			Demand/Capacity (D/C)			0.51
Int	ermediate Results							
Segr	ment Vertical Class	4			Free-Flow Speed,	mi/h		60.2
	ed Slope Coefficient	7.04	 1578		Speed Power Coefficient			0.95917
	lope Coefficient	-1.0	7485		PF Power Coefficient			0.85510
In Pa	assing Lane Effective Length?	No			Total Segment De	nsity	, veh/mi/ln	7.9
%lm	proved % Followers	0.0			% Improved Avg S	Speed	b	0.0
Sul	osegment Data							
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	634		-		-		55.4
2	Horizontal Curve	295	7	229	2	2		55.4
Pas	sing Lane Results							
	3		Faster Lane				Slower Lane	
	document was created by an appl		on that isn't licens		o use <u>novaPDF</u> . <sub>"</sub>			
urch	hase a license to generate PDF fil	es w	ithout this notice.				328	

Percentage of Heavy Vehicles (HV%), %			3.08			13.84	13.84		
Initia	I Average Speed (Sint), mi/h		59.1			56.9	56.9		
Avera	age Speed at Midpoint (SPLmid), mi	i/h	60.9			55.2			
Perce	ent Followers at Midpoint (PFPLmid)	, %	44.2			34.4			
Veh	icle Results								
Avera	age Speed, mi/h	55.4			Percent Followers,	%	57.4		
Segn	nent Travel Time, minutes	0.74	0.74		Follower Density, 1	followers/mi/ln	7.9		
Vehic	cle LOS	С							
			Se	egn	nent 9				
Veh	icle Inputs								
Segn	nent Type	Pass	ing Constrained		Length, ft		7234		
Lane	Width, ft	12			Shoulder Width, ft		6		
Spee	d Limit, mi/h	55			Access Point Dens	ity, pts/mi	5.6		
Der	mand and Capacity						<u>'</u>		
Direc	tional Demand Flow Rate, veh/h	764			Opposing Demand	d Flow Rate, veh/h	-		
Peak Hour Factor					Total Trucks, %	·	7.70		
Segment Capacity, veh/h		0.89	)		Demand/Capacity	(D/C)	0.45		
	ermediate Results				, ,				
Segn	nent Vertical Class	1			Free-Flow Speed,	mi/h	61.0		
Spee	d Slope Coefficient	3.88	628		Speed Power Coef	ficient	0.41674		
PF SI	ope Coefficient	-1.28	 3166		PF Power Coefficie	ent	0.75825		
In Pa	ssing Lane Effective Length?	Yes	Yes		Total Segment De	nsity, veh/mi/ln	8.6		
%lm <sub>l</sub>	oroved % Followers	14.3	4.3		% Improved Avg S	Speed	0.6		
Sub	segment Data								
#	Segment Type	Leng	Jth, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	4066	)	-		-	57.8		
2	Horizontal Curve	1584	ļ	143	32	2	57.8		
3	Tangent	1584		-		-	57.8		
Veh	icle Results								
Avera	age Speed, mi/h	58.1			Percent Followers,	%	64.8		
Segn	nent Travel Time, minutes	1.41			Follower Density, 1	followers/mi/ln	7.3		
Vehic	cle LOS	С							
			Se	gm	ent 10		<u>'</u>		
Veh	icle Inputs								
Segn	nent Type	Pass	ing Constrained		Length, ft		7920		
	Width, ft	12	-		Shoulder Width, ft		6		
	d Limit, mi/h	55			Access Point Dens		2.0		
	mand and Capacity								
DEI									

Peak	Hour Factor	0.89		Total Trucks, %		7.70
	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.45
	ermediate Results	1			()	1
Sear	ment Vertical Class	2		Free-Flow Speed,	mi/h	61.4
	ed Slope Coefficient	4.90556		Speed Power Coe		0.48525
	lope Coefficient	-1.32529		PF Power Coefficie		0.74255
	assing Lane Effective Length?	Yes		Total Segment De		8.8
	proved % Followers	9.5		% Improved Avg		0.0
Sul	osegment Data					•
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-		-	57.4
2	Horizontal Curve	2112	229	22	2	57.4
3	Tangent	5227	-		-	57.4
Vel	nicle Results	<u>'</u>				<u>'</u>
Aver	age Speed, mi/h	57.4		Percent Followers	 , %	66.2
	ment Travel Time, minutes	1.57		Follower Density,	followers/mi/ln	8.0
Vehi	cle LOS	С				
		S	egm	ent 11		•
 Vel	nicle Inputs					
	ment Type	Passing Zone		Length, ft		4594
	e Width, ft	12		Shoulder Width, f	<u> </u>	6
	ed Limit, mi/h	55		Access Point Dens		18.2
_	mand and Capacity					100
	ctional Demand Flow Rate, veh/h	610		Opposing Doman	d Flow Pata wah/h	587
	Hour Factor	0.97		Opposing Demand Flow Rate, veh/h Total Trucks, %		7.70
	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.36
	ermediate Results	1700		Demand/Capacity	(D/C)	0.30
		T <sub>o</sub>		5 5 0 1 1		
	ment Vertical Class	2		Free-Flow Speed, mi/h		57.5
	ed Slope Coefficient	3.21762		Speed Power Coefficient		0.51423
	lope Coefficient	-1.28002		PF Power Coefficie		0.77453
	assing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		6.4
	proved % Followers	9.1		% Improved Avg S	speea	0.0
	osegment Data	Longth ft	Dod	line ft	Superalayation 0/	Average Speed mi/h
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4594	-		-	55.2
	nicle Results	1		I		1
	age Speed, mi/h	55.2		Percent Followers		58.2
Segment Travel Time, minutes 0.94		0.94 C		Follower Density,	followers/mi/ln	5.8
	cle LOS					

			Segn	nent 12		
Vehicle Input	S					
Segment Type Passii		Passing Zone	Passing Zone			3274
Lane Width, ft		12		Shoulder Width, f	t	6
Speed Limit, mi/h		55		Access Point Dens	sity, pts/mi	2.6
Demand and	Capacity	·				
Directional Deman	nd Flow Rate, veh/h	610		Opposing Deman	d 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 Coeff	icient	3.73710		Speed Power Coe	fficient	0.47140
PF Slope Coefficie	nt	-1.28136		PF Power Coefficient	ent	0.79134
In Passing Lane Eff	ective Length?	Yes		Total Segment De	nsity, veh/mi/ln	6.0
%Improved % Follows	owers	8.0		% Improved Avg	Speed	0.0
Subsegment	Data					
# Segment Typ	De	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent		3274	-		-	59.1
Vehicle Resul	ts					
Average Speed, m	i/h	59.1		Percent Followers	, %	58.0
Segment Travel Tir	me, minutes	0.63		Follower Density,	followers/mi/ln	5.5
Vehicle LOS		С				
			Segn	nent 13		
Vehicle Input	:S					
Segment Type		Passing Constrained		Length, ft		1373
Lane Width, ft		12		Shoulder Width, ft		6
Speed Limit, mi/h		55		Access Point Dens	sity, pts/mi	0.0
Demand and	Capacity					
Directional Deman	nd Flow Rate, veh/h	610		Opposing Deman	d 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			<u>'</u>		
Segment Vertical (	Class	1		Free-Flow Speed,	mi/h	62.4
Speed Slope Coeff	icient	3.89419		Speed Power Coe	fficient	0.41674
PF Slope Coefficie	nt	-1.36947		PF Power Coefficion	ent	0.74352
In Passing Lane Eff	ective Length?	Yes		Total Segment De	nsity, veh/mi/ln	6.8
%Improved % Foll	owers	7.5		% Improved Avg	Speed	0.0
Subsegment	Data					
his document wa	ns created by an app e to generate PDF f			to use <u>novaPDF</u> .	Superelevation, %	Average Speed, mi/h

1	Tangent	475	-		-	59.5
2	Horizontal Curve	898	95!		2	52.8
	icle Results	1				12.0
	age Speed, mi/h	55.1		Percent Followers	s %	61.3
				Follower Density	<u> </u>	6.3
Segment Travel Time, minutes 0.28 Vehicle LOS C				Tollower Density	, 10110WC13/1111/111	0.3
Vorme	3.0 2.00		Seam	nent 14		
Vok	nicle Inputs		Jegn			
	<u> </u>	Dansing Constrain	- ad	I amouth ft		4014
	nent Type	Passing Constrain	nea	Length, ft	CI.	4014
	Width, ft	12		Shoulder Width,		6
Spee	d Limit, mi/h	55		Access Point Den	nsity, pts/mi	2.6
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	610		Opposing Demai	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.97		Total Trucks, %		7.70
Segn	nent Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.36
Inte	ermediate Results					
Segn	nent Vertical Class	3		Free-Flow Speed, mi/h		60.6
Spee	d Slope Coefficient	7.37128		Speed Power Coe	efficient	0.61404
PF SI	ope Coefficient	-1.35407		PF Power Coeffic	ient	0.75269
In Pa	ssing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	6.8
%lm <sub>l</sub>	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1162	95!	5	2	52.8
2	Tangent	370	-		-	55.7
3	Horizontal Curve	1584	19 <sup>-</sup>	10	2	55.7
4	Tangent	898	-		-	55.7
Veh	icle Results					
Avera	age Speed, mi/h	54.9		Percent Followers, %		60.7
Segn	nent Travel Time, minutes	0.83		Follower Density, followers/mi/ln		6.8
Vehic	cle LOS	С				
			Segn	nent 15		·
	icle Inputs					
Veh		Passing Constrain	ned	Length, ft		5016
	nent Type				6.	,
Segn	nent Type Width, ft	12		Shoulder Width,	ft	6
Segn Lane	<u> </u>	+ -		Shoulder Width, Access Point Den		0.0
Segn Lane Spee	Width, ft	12		-		
Segn Lane Spee	Width, ft d Limit, mi/h	12		Access Point Den		

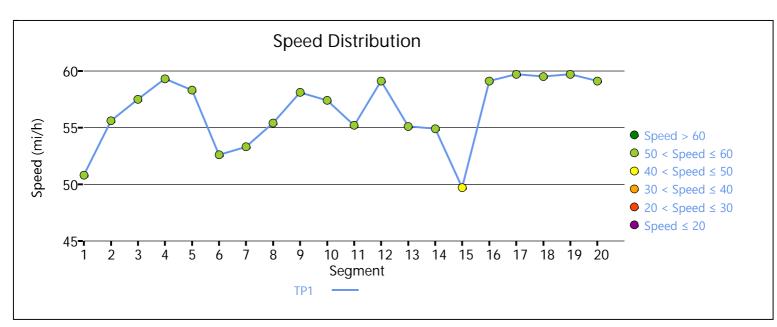
Segment Capacity, veh/h 1700		Demand/Capacity	(D/C)	0.36		
	ermediate Results				····	1
		T-		I		Teo o
	ment Vertical Class	5		Free-Flow Speed,		59.3
	ed Slope Coefficient	13.78285		Speed Power Coe		0.55070
	Slope Coefficient	-1.88380		PF Power Coefficie		0.81718
	assing Lane Effective Length?	No		Total Segment De		8.8
	nproved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5016	-		-	49.7
Vel	hicle Results					
Ave	rage Speed, mi/h	49.7		Percent Followers	, %	71.6
Seg	ment Travel Time, minutes	1.15		Follower Density,	followers/mi/ln	8.8
Veh	icle LOS	D				
			Segn	ment 16		
Ve	hicle Inputs					
Seg	ment Type	Passing Constrain	Passing Constrained			1531
Lane	e Width, ft	12	12		t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	1.6
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	610		Opposing Deman	d Flow Rate, veh/h	-
Peal	k Hour Factor	0.97		Total Trucks, %		7.70
Seg	ment Capacity, veh/h	1700	1700		(D/C)	0.36
Int	ermediate Results			•		
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.0
Spe	ed Slope Coefficient	3.87544		Speed Power Coe	fficient	0.41674
PF S	Slope Coefficient	-1.36445	-1.36445		ent	0.74560
In P	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		6.3
%ln	nproved % Followers	0.0		% Improved Avg Speed		0.0
Su	bsegment Data			·		
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1531	-		-	59.1
Ve	hicle Results					
Ave	rage Speed, mi/h	59.1		Percent Followers	, %	61.1
Seg	ment Travel Time, minutes	0.29		Follower Density, followers/mi/ln		6.3
Veh	icle LOS	С				
			Segn	nent 17		
	hicle Inputs					
Vel	ilicie iliputs					

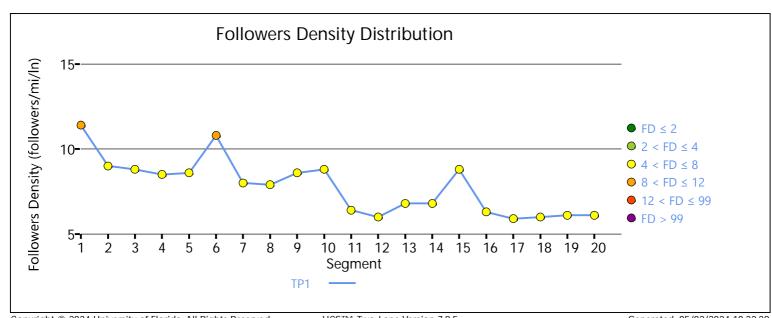
	Width, ft 12		Shoulder Width, f	6		
Speed Limit, mi/h 55		Access Point Dens	ity, pts/mi	0.0		
De	mand and Capacity					
Directional Demand Flow Rate, veh/h 610		610		Opposing Deman	d Flow Rate, veh/h	587
Peal	Hour Factor	0.97		Total Trucks, %		7.70
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.36
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.4
Spe	ed Slope Coefficient	3.76900		Speed Power Coef	fficient	0.47140
PF S	lope Coefficient	-1.28280		PF Power Coefficie	ent	0.79142
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.9
%ln	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3010	-		-	59.7
<b>V</b> el	nicle Results					
Ave	rage Speed, mi/h	59.7		Percent Followers	%	58.0
	ment Travel Time, minutes	0.57		Follower Density, followers/mi/ln		5.9
	cle LOS	С				
			Coar	ont 10		
			Segn	nent 18		
Vel	nicle Inputs					
Seg	ment Type	Passing Constraine	ed	Length, ft		3749
Lan	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	610		Opposing Deman	Opposing Demand Flow Rate, veh/h	
Peak Hour Factor		0.97		Total Trucks, %	Total Trucks, %	
Peal		1700		Demand/Capacity (D/C)		0.36
	ment Capacity, veh/h					
Seg	ermediate Results					
Seg Int		1		Free-Flow Speed,	mi/h	62.4
Seg Int Seg	ermediate Results	3.92842		Free-Flow Speed, Speed Power Coef		62.4 0.41674
Seg Int Seg Spe	ermediate Results ment Vertical Class			<u> </u>	fficient	
Int Seg Spe PF S	ermediate Results ment Vertical Class ed Slope Coefficient	3.92842		Speed Power Coef	fficient ent	0.41674
Seg Spe PF S In P	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient	3.92842 -1.29273		Speed Power Coefficie	fficient ent nsity, veh/mi/ln	0.41674 0.76656
Seg Int Seg Spe PF S In P	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length?	3.92842 -1.29273 No		Speed Power Coefficient Total Segment De	fficient ent nsity, veh/mi/ln	0.41674 0.76656 6.0
Seg Int Seg Spe PF S In P	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers  osegment Data	3.92842 -1.29273 No 0.0	Rac	Speed Power Coefficient PF Power Coefficient Total Segment De % Improved Avg S	fficient ent nsity, veh/mi/In Speed	0.41674 0.76656 6.0 0.0
Seg Int Seg Spe PF S In P	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? approved % Followers	3.92842 -1.29273 No	Rac 229	Speed Power Coefficient Total Segment De % Improved Avg States	fficient ent nsity, veh/mi/ln	0.41674 0.76656 6.0

Average Speed, mi/h	59.5		Percent Followers	s, %	58.7
Segment Travel Time, minutes	0.72		Follower Density,	, followers/mi/ln	6.0
hicle LOS C					
	·	Segm	nent 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 Den	sity, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	610		Opposing Demar	nd Flow Rate, veh/h	587
Peak Hour Factor	0.97		Total Trucks, %		7.70
Segment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.36
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	, mi/h	62.4
Speed Slope Coefficient	3.74478		Speed Power Coe	efficient	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	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1426	-		-	59.7
Vehicle Results		·			
Average Speed, mi/h	59.7		Percent Followers	s, %	60.0
Segment Travel Time, minutes	0.27		Follower Density,	, followers/mi/ln	6.1
Vehicle LOS	С				
	·	Segm	nent 20		
Vehicle Inputs					
Segment Type	Passing Constrair	ned	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	<u>'</u>				
Directional Demand Flow Rate, veh/h	610		Opposing Demar	nd 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	<u>'</u>				
Segment Vertical Class	1		Free-Flow Speed,	, mi/h	62.1
Speed Slope Coefficient	3.91006		Speed Power Coe		0.41674
PF Slope Coefficient	-1.29505		PF Power Coeffici	ient	0.76585
Pr Slope Coemcient	1.27000		The rower coeffici	10111	1

%Improved % Followers			0.0		% Improved Avg Speed		speed	0.0		
Sub	osegment	Data								
#	Segment Typ	ре	Length, ft Radiu		us, ft		Superelevation, %	Average Speed, mi/h		
1	Tangent		3802	-			-	59.1		
Veh	Vehicle Results									
Avera	age Speed, m	i/h	59.1		Percent Followers, %		, %	58.8		
Segn	ment Travel Tir	me, minutes	0.73		Follower Density, followers/mi/ln		followers/mi/ln	6.1		
Vehic	cle LOS		С							
Fac	Facility Results									
	T Follower Density, followers/mi/ln						LOS	5		

8.1





Copyright © 2024 University of Florida. All Rights Reserved.

1

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility G (NB) - FUTURE.xuf Generated: 05/02/2024 10:22:29

D

	HCS7 Two	o-Lane	Highway Re	eport	
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description	US 101/OR 42 ju Bandon north U		Units		U.S. Customary
		Segr	nent 1		<u>'</u>
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		4805
Lane Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h	55		Access Point Dens	sity, pts/mi	1.1
Demand and Capacity					<u>'</u>
Directional Demand Flow Rate, veh/h	587		Opposing Deman	d 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 Coe	fficient	0.41674
PF Slope Coefficient	-1.28177		PF Power Coefficie	ent	0.76747
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.7
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	dius, 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	С				
	'	Segr	ment 2		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1214
Lane Width, ft	12	-		t	6
Speed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Demand and Capacity					
<b>Demand and Capacity</b> Directional Demand Flow Rate, veh/h	587		Opposing Deman	d Flow Rate, veh/h	610
	587		Opposing Deman	d Flow Rate, veh/h	7.70

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

Segr	ment Vertical Class	1		Free-Flow Speed, mi/h		62.4
Spe	ed Slope Coefficient	3.74778	3.74778		fficient	0.46876
PF S	lope Coefficient	-1.34875		PF Power Coefficie	ent	0.76928
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.8
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1214	-		-	59.8
Veľ	nicle Results					
Aver	rage Speed, mi/h	59.8		Percent Followers	%	59.1
Segr	ment Travel Time, minutes	0.23		Follower Density,	followers/mi/ln	5.8
Vehi	cle LOS	С				
			Segn	nent 3		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrained		Length, ft		2218
Lane	e Width, ft	12		Shoulder Width, f	i	6
Spe	ed Limit, mi/h	55		Access Point Dens	ity, pts/mi	4.8
Dei	mand and Capacity					_
Dire	ctional Demand Flow Rate, veh/h	587		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.97		Total Trucks, %		7.70
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.35
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.2
Spee	ed Slope Coefficient	3.84337		Speed Power Coef	fficient	0.41674
PF S	lope Coefficient	-1.34179		PF Power Coefficie	ent	0.75342
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	6.0
%lm	proved % Followers	0.0	0.0		Speed	0.0
Suk	osegment Data			-		
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2218	229	22	2	58.4
Vel	nicle Results	<u> </u>				
Aver	rage Speed, mi/h	58.4		Percent Followers	%	59.3
Segr	ment Travel Time, minutes	0.43		Follower Density, followers/mi/ln		6.0
Vehi	cle LOS	С				
			Segn	nent 4		
Veł	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		2429
Lane	e Width, ft	12		Shoulder Width, f	i	6
			sn't licensed to use novaPDF. sity, pts/mi			

	mand and Capacity					
		1	d Flow Rate, veh/h	610		
	Hour Factor	0.97		Total Trucks, %		7.70
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.35
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.4
Spe	ed Slope Coefficient	3.76612		Speed Power Coef	fficient	0.46876
PF S	lope Coefficient	-1.30043		PF Power Coefficie	ent	0.78570
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	5.6
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	739	22	.92	2	59.8
2	Tangent	1690	-		-	59.8
Vel	nicle Results					
Aver	age Speed, mi/h	59.8		Percent Followers	, %	57.5
Segr	ment Travel Time, minutes	0.46		Follower Density, followers/mi/ln		5.6
Vehi	cle LOS	С				
			Segi	ment 5		
Veł	nicle Inputs					
Segr	ment Type	Passing Constrain	ned	Length, ft		2904
Lane	Width, ft	12	12		t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	1.8
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	587		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.97		Total Trucks, %		7.70
Segr	ment Capacity, veh/h	1700		Demand/Capacity	0.35	
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.0
Spe	ed Slope Coefficient	3.89364		Speed Power Coefficient		0.41674
PF S	lope Coefficient	-1.31419		PF Power Coefficient		0.76126
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		5.8
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	osegment Data	•		•		
#	Segment Type	Length, ft	Ra	ndius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2904	-		-	59.1
Vel	nicle Results					
		59.1		Percent Followers	. %	58.3
Aver	age Speed, mi/h			Percent Followers, %		

Vehic	cle LOS	С						
			Se	gn	nent 6			
Veh	icle Inputs							
Segn	nent Type	Pass	sing Lanes		Length, ft			7445
Lane	Width, ft	12			Shoulder Width, ft	t		6
Spee	d Limit, mi/h	55			Access Point Dens	sity, p	ts/mi	1.4
Der	mand and Capacity							
Direc	tional Demand Flow Rate, veh/h	587			Opposing Deman	d Flo	w Rate, veh/h	-
Peak	Hour Factor	0.97	7		Total Trucks, %			7.70
Segn	nent Capacity, veh/h	140	0		Demand/Capacity	(D/C	<del>(</del> )	0.42
Inte	ermediate Results							
Segn	nent Vertical Class	5			Free-Flow Speed,	mi/h		59.9
Spee	d Slope Coefficient	12.0	)9349		Speed Power Coef	fficie	nt	1.13325
PF SI	ope Coefficient	-0.9	3529		PF Power Coefficie	ent		0.92154
In Pa	ssing Lane Effective Length?	No			Total Segment Density, veh/mi/ln		4.7	
%lmp	proved % Followers	0.0			% Improved Avg Speed		0.0	
Sub	segment Data							
#	Segment Type	Len	gth, ft	Rad	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	5861 -		-	-			54.6
2	Horizontal Curve	158	4	191	0	2		54.6
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow	Rate, veh/h		345				242	
Perce	entage of Heavy Vehicles (HV%), %		3.08				14.30	
Initia	I Average Speed (Sint), mi/h		59.7				56.1	
Avera	age Speed at Midpoint (SPLmid), mi/	h	61.4				54.4	
Perce	ent Followers at Midpoint (PFPLmid),	%	31.0				20.6	
Veh	icle Results							
Avera	age Speed, mi/h	54.6	)		Percent Followers,	, %		43.6
Segn	nent Travel Time, minutes	1.55	5		Follower Density, followers/mi/ln		4.7	
Vehic	cle LOS	С						
			Se	gn	nent 7			
Veh	icle Inputs							
Segn	nent Type	Pass	sing Constrained		Length, ft			2693
Lane	Width, ft	12			Shoulder Width, ft	t		6
Spee	d Limit, mi/h	55			Access Point Dens	sity, p	ts/mi	0.0
Der	nand and Capacity							
Direc	tional Demand Flow Rate, veh/h	587			Opposing Deman	d Flo	w Rate, veh/h	-
his d	locument was created by an appl	icatio	on that isn't licens	ed t	o use <u>nova</u> PDF.			7.70
	ase a license to generate PDF fil			•				1

Seg	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.35
Int	ermediate Results					
Seg	ment Vertical Class	2		Free-Flow Spee	d, mi/h	62.0
Spe	ed Slope Coefficient	4.41005		Speed Power Co	oefficient	0.46880
PF S	Slope Coefficient	-1.38596		PF Power Coeffi	icient	0.74309
In Pa	assing Lane Effective Length?	Yes		Total Segment I	Density, veh/mi/ln	6.4
%lm	nproved % Followers	19.5		% Improved Av	g Speed	2.4
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	686	191	0	2	58.9
2	Tangent	370	-		-	58.9
3	Horizontal Curve	1637	955	j	2	52.8
Vel	hicle Results					
Ave	rage Speed, mi/h	56.5		Percent Followe	ers, %	60.6
	ment Travel Time, minutes	0.54		Follower Densit	y, followers/mi/ln	5.1
Veh	icle LOS	С				
Segment 8						
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		5438
Lane Width, ft		12		Shoulder Width	ı, ft	6
Spe	ed Limit, mi/h	55		Access Point De	ensity, pts/mi	2.9
De	mand and Capacity			,		•
Dire	ctional Demand Flow Rate, veh/h	587		Opposing Dema	and Flow Rate, veh/h	610
Peal	K Hour Factor	0.97		Total Trucks, %		7.70
Seg	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.35
Int	ermediate Results			•		
Seg	ment Vertical Class	2		Free-Flow Speed, mi/h		61.3
	ed Slope Coefficient	4.30103		Speed Power Coefficient		0.53678
	Slope Coefficient	-1.25039		PF Power Coefficient		0.78602
In Pa	assing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		5.7
%lm	nproved % Followers	15.7		% Improved Av	g Speed	1.6
Sul	bsegment Data	•				
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	955	j	2	52.8
2	Tangent	5016	-		-	58.4
Vel	hicle Results					
Ave	rage Speed, mi/h	58.9		Percent Followe	ers, %	56.1
<u> </u>		1.05		Follower Density, followers/mi/ln		4.7
Seg	ment naver mne, minutes	1.05		Tollower Density, followers/IIII/III		7.7

This document was created by an application that isn't licensed to use <u>novaPL</u> Purchase a license to generate PDF files without this notice.

			Seg	ment 9		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrair	ned	Length, ft		1003
Lane Width, ft 12		Shoulder Widtl	n, ft	6		
Spe	ed Limit, mi/h	55		Access Point D	ensity, pts/mi	0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	735		Opposing Dem	and Flow Rate, veh/h	-
Peak	Hour Factor	0.89		Total Trucks, %		7.70
Segr	ment Capacity, veh/h	1700		Demand/Capa	city (D/C)	0.43
Int	ermediate Results	•		•		
Segr	ment Vertical Class	1		Free-Flow Spee	ed, mi/h	62.4
Spe	ed Slope Coefficient	3.89316		Speed Power C	oefficient	0.41674
PF S	lope Coefficient	-1.37269		PF Power Coeff	icient	0.74245
In Pa	assing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	8.2
%Improved % Followers		13.7		% Improved Av	g Speed	0.7
Sul	segment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1003	-		-	59.2
Vel	nicle Results					
Aver	age Speed, mi/h	59.6		Percent Follow	ers, %	66.4
Segr	ment Travel Time, minutes	0.19		Follower Densi	ty, followers/mi/ln	7.1
Vehi	cle LOS	С				
			Segi	ment 10		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		2746
Lane	· Width, ft	12		Shoulder Widtl	າ, ft	6
Spe	ed Limit, mi/h	55		Access Point D	ensity, pts/mi	3.8
De	mand and Capacity	•		•		
Dire	ctional Demand Flow Rate, veh/h	735		Opposing Dem	and Flow Rate, veh/h	764
Peak	: Hour Factor	0.89		Total Trucks, %		7.70
Segr	ment Capacity, veh/h	1700		Demand/Capa	city (D/C)	0.43
Int	ermediate Results	<u>'</u>				
Segr	ment Vertical Class	1		Free-Flow Spee	ed, mi/h	61.5
Spe	ed Slope Coefficient	3.74949		Speed Power C	oefficient	0.45394
PF S	lope Coefficient	-1.30813		PF Power Coeff	icient	0.78048
In Pa	assing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	8.1
%lm	proved % Followers	12.3		% Improved Av	g Speed	0.3
Sul	osegment Data			•		
	document was created by an app					

1	Tangent	2746	-		-	58.4
Vel	nicle Results					
Aver	age Speed, mi/h	58.6		Percent Followers	, %	64.2
Segr	nent Travel Time, minutes	0.53		Follower Density, followers/mi/ln		7.1
Vehi	cle LOS	С				
			Segm	ent 11		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrain	ned	Length, ft		1056
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Dei	mand and Capacity			-		
Dire	ctional Demand Flow Rate, veh/h	Flow Rate, veh/h 735		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.89		Total Trucks, %		7.70
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.43
Inte	ermediate Results					
Segr	nent Vertical Class	1	1		mi/h	62.4
Spee	ed Slope Coefficient	3.89316		Speed Power Coe	fficient	0.41674
PF Slope Coefficient		-1.37269		PF Power Coefficie	ent	0.74245
In Passing Lane Effective Length?		Yes		Total Segment De	nsity, veh/mi/ln	8.2
%Improved % Followers		11.9	11.9		Speed	0.1
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1056	-		-	59.2
Vel	nicle Results					
Aver	age Speed, mi/h	59.3		Percent Followers	, %	66.4
Segr	ment Travel Time, minutes	0.20	0.20		followers/mi/ln	7.3
Vehi	cle LOS	С				
			Segm	ent 12		
Vel	nicle Inputs					
Segr	ment Type	Passing Lanes		Length, ft		5175
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	55		Access Point Density, pts/mi		1.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	735		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.89		Total Trucks, %		7.70
Segr	nent Capacity, veh/h	1500		Demand/Capacity	(D/C)	0.49
Inte	ermediate Results					
						_
Sear	nent Vertical Class document was created by an ap	12		Free-Flow Speed.	mi/h	61.9

PF SI	ope Coefficient	-1.0	9316		PF Power Coefficie	ent		0.85272
In Pa	ssing Lane Effective Length?	No	No		Total Segment Density, veh/mi/ln		7.2	
%Improved % Followers		0.0			% Improved Avg S	Speed		0.0
Sub	Subsegment Data							
#	Segment Type	Len	gth, ft	Rad	lius, ft	Supe	erelevation, %	Average Speed, mi/h
1	Tangent	374	9	-		-		58.0
2	Horizontal Curve	142	6	229	2	2		58.0
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow	Rate, veh/h		421				313	
Perce	entage of Heavy Vehicles (HV%), %		3.08				13.91	
Initia	I Average Speed (Sint), mi/h		60.5				60.0	
Aver	age Speed at Midpoint (SPLmid), m	/h	62.2				58.3	
Perce	ent Followers at Midpoint (PFPLmid	, %	43.2				32.5	
Veh	icle Results							
Avera	age Speed, mi/h	58.0	)		Percent Followers,	, %		56.9
Segn	nent Travel Time, minutes	1.01	1.01		Follower Density, followers/mi/ln		7.2	
Vehic	cle LOS	С	С					
			Se	gm	ent 13			·
Veh	icle Inputs							
Segn	nent Type	Pas	sing Constrained		Length, ft			8712
Lane	Width, ft	12			Shoulder Width, ft	t		6
Spee	d Limit, mi/h	55			Access Point Dens	sity, pt	s/mi	3.0
Der	mand and Capacity							
Direc	tional Demand Flow Rate, veh/h	735			Opposing Deman	d Flov	v Rate, veh/h	-
Peak	Hour Factor	0.89	0.89		Total Trucks, %			7.70
Segn	nent Capacity, veh/h	170	0		Demand/Capacity (D/C)		0.43	
Inte	ermediate Results							
Segn	nent Vertical Class	1			Free-Flow Speed, mi/h		61.7	
Spee	d Slope Coefficient	3.93	3324		Speed Power Coefficient		0.41674	
PF SI	ope Coefficient	-1.2	7925		PF Power Coefficie	ent		0.75159
In Pa	ssing Lane Effective Length?	Yes			Total Segment Density, veh/mi/ln		veh/mi/ln	8.0
%lm <sub>l</sub>	oroved % Followers	14.8	3		% Improved Avg S	Speed		1.6
Sub	segment Data							
#	Segment Type	Len	gth, ft	Rad	lius, ft	Supe	erelevation, %	Average Speed, mi/h
	Horizontal Curve	686		229	2	2		58.4
1		21/		_		-		58.4
2	Tangent	216	3					
	Tangent Horizontal Curve	158		143	2	2		58.4

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

Avera	age Speed, mi/h	59.4	Perce	nt Followers	, %	63.8
	nent Travel Time, minutes	1.67	Follo	ver Density,	followers/mi/ln	6.7
Vehic	cle LOS	С				
		Se	gment	14		
Veh	icle Inputs					
Segn	nent Type	Passing Constrained	Lengt	h, ft		3380
Lane	Width, ft	12	Shou	der Width, f	t	6
Spee	d Limit, mi/h	55	Acces	s Point Dens	sity, pts/mi	1.6
Der	mand and Capacity					
Direc	tional Demand Flow Rate, veh/h	735	Оррс	sing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.89	Total	Trucks, %		7.70
Segn	nent Capacity, veh/h	1700	Dema	ınd/Capacity	(D/C)	0.43
Inte	ermediate Results					
Segn	nent Vertical Class	3	Free-	Flow Speed,	mi/h	60.8
Spee	d Slope Coefficient	7.19020	Speed	Speed Power Coefficient		0.60950
PF SI	ope Coefficient	-1.36016	PF Po	PF Power Coefficient		0.75422
In Pa	ssing Lane Effective Length?	Yes	Total	Total Segment Density, veh/mi/ln		8.8
%lmp	proved % Followers	12.9	% lm	oroved Avg S	Speed	1.1
Sub	segment 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
Veh	nicle Results		<u> </u>			
Avera	age Speed, mi/h	56.0	Perce	nt Followers	, %	66.0
Segn	nent Travel Time, minutes	0.69	Follo	Follower Density, followers/mi/ln		7.5
Vehic	cle LOS	С				
		Se	gment	15		
Veh	icle Inputs					
Segn	nent Type	Passing Constrained	Lengt	Length, ft		5809
Lane	Width, ft	12	Shou	Shoulder Width, ft		6
Spee	d Limit, mi/h	55	Acces	Access Point Density, pts/mi		1.8
Der	mand and Capacity	·	·			
Direc	ctional Demand Flow Rate, veh/h	735	Оррс	sing Deman	d Flow Rate, veh/h	-
Peak Hour Factor		0.89	Total	Total Trucks, %		7.70
Segn	nent Capacity, veh/h	1700	Dema	Demand/Capacity (D/C)		0.43
Inte	ermediate Results					
	nent Vertical Class	5	Free-	Flow Speed,	mi/h	58.6
Segn		· ·		Speed Power Coefficient		
	d Slope Coefficient	14.17492	Speed	d Power Coe	fficient	0.51110

In Pa	assing Lane Effective Length?	Yes		Total Segment D	ensity, veh/mi/ln	12.0
%lm	nproved % Followers	10.3		% Improved Avg Speed		0.2
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	ius, ft Superelevation, %		Average Speed, mi/h
1	Horizontal Curve	1848	191	0	2	47.3
2	Tangent	106	-		-	47.3
3	Horizontal Curve	1373	955	j	2	47.3
4	Tangent	792	-		-	47.3
5	Horizontal Curve	1690	955	j	2	47.3
Vel	hicle Results					
Aver	rage Speed, mi/h	47.4		Percent Follower	rs, %	77.5
Segi	ment Travel Time, minutes	1.39		Follower Density	ı, followers/mi/ln	10.8
Vehi	icle LOS	D				
			Segm	ent 16		·
Vel	hicle Inputs					
Segi	ment Type	Passing Lanes		Length, ft		2059
Lane	e Width, ft	-		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		2.6
De	mand and Capacity			1		<u> </u>
Dire	ctional Demand Flow Rate, veh/h	735		Opposing Dema	and Flow Rate, veh/h	-
Peak	K Hour Factor	0.89		Total Trucks, %		7.70
Segi	ment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.43
Int	ermediate Results					
Segi	ment Vertical Class	3		Free-Flow Speed	d, mi/h	60.6
Spe	ed Slope Coefficient	6.80542		Speed Power Co	efficient	0.59922
PF S	Slope Coefficient	-1.38035		PF Power Coeffic	cient	0.75245
In Pa	assing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		8.8
%lm	nproved % Followers	9.6	9.6		y Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-		-	55.4
Vel	hicle Results					
Aver	rage Speed, mi/h	55.4		Percent Follower	rs, %	66.5
Segi	ment Travel Time, minutes	0.42		Follower Density	, followers/mi/ln	8.0
Vehi	icle LOS	С				
			Segm	ent 17		
Vel	hicle Inputs					
	hicle Inputs ment Type	Passing Constrain	ed	Length, ft		3485

mand and Capacity	
nana and capacity	
tional Demand Flow Rate, v	
Hour Factor	
nent Capacity, veh/h	
ermediate Results	
nent Vertical Class	
d Slope Coefficient	
ope Coefficient	
ssing Lane Effective Length	
proved % Followers	
segment Data	
Segment Type	
Tangent	
icle Results	
age Speed, mi/h	
nent Travel Time, minutes	
cle LOS	
icle Inputs	
nent Type	
Width, ft	
d Limit, mi/h	
mand and Capacity	
tional Demand Flow Rate, v	
Hour Factor	
nent Capacity, veh/h	
ermediate Results	
nent Vertical Class	
nent Vertical Class d Slope Coefficient	
d Slope Coefficient	
d Slope Coefficient ope Coefficient	
d Slope Coefficient ope Coefficient ssing Lane Effective Length	
d Slope Coefficient ope Coefficient ssing Lane Effective Length proved % Followers	
d Slope Coefficient ope Coefficient ssing Lane Effective Length' proved % Followers esegment Data	
d Slope Coefficient ope Coefficient ssing Lane Effective Length' proved % Followers esegment Data Segment Type	
d Slope Coefficient ope Coefficient ssing Lane Effective Length proved % Followers segment Data Segment Type Tangent	
d Slope Coefficient ope Coefficient ssing Lane Effective Length' proved % Followers esegment Data	

Vehic	le LOS	С				
		S	Segm	ent 19		
Vehi	icle Inputs					
Segm	nent Type	Passing Constrained		Length, ft		2693
Lane '	Width, ft	12		Shoulder Width, f	t	6
Speed	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	5.9
Den	nand and Capacity					
Direct	tional Demand Flow Rate, veh/h	735		Opposing Deman	d Flow Rate, veh/h	-
Peak I	Hour Factor	0.89		Total Trucks, %		7.70
Segment Capacity, veh/h 1700		Demand/Capacity	/ (D/C)	0.43		
Inte	rmediate Results			'		
Segm	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.0
Speed	d Slope Coefficient	3.83526		Speed Power Coe	fficient	0.41674
PF SIC	ppe Coefficient	-1.32915		PF Power Coefficient		0.75721
In Pas	ssing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		8.3
%Improved % Followers		7.1		% Improved Avg Speed		0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2693	-		-	57.8
Vehi	icle Results					
Avera	ge Speed, mi/h	57.8		Percent Followers	, %	65.1
	nent Travel Time, minutes	0.53		Follower Density,	followers/mi/ln	7.7
	le LOS	С				
		5	Segm	ent 20		_
Vehi	icle Inputs					
	ent Type	Passing Zone		Length, ft		3590
Lane \	Width, ft	12		Shoulder Width, ft		6
	d Limit, mi/h	55		Access Point Density, pts/mi		5.9
Speed						
	nand and Capacity					
Den	nand and Capacity tional Demand Flow Rate, veh/h	735		Opposing Deman	d Flow Rate, veh/h	764
<b>Den</b>		735		Opposing Deman	d Flow Rate, veh/h	764 7.70
Dem Direct	tional Demand Flow Rate, veh/h					
Dem Direct Peak I	tional Demand Flow Rate, veh/h Hour Factor	0.89		Total Trucks, %		7.70
Dem Direct Peak I Segm	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	0.89		Total Trucks, %	ı (D/C)	7.70
Dem Direct Peak I Segm Inte	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h rmediate Results	0.89		Total Trucks, %  Demand/Capacity	r (D/C) mi/h	7.70
Dem Direct Peak   Segm Inte Segm Speed	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h remediate Results nent Vertical Class	0.89		Total Trucks, %  Demand/Capacity  Free-Flow Speed,	n (D/C) mi/h fficient	7.70 0.43 61.0
Den Direct Peak I Segm Inte Segm Speec	tional Demand Flow Rate, veh/h Hour Factor ment Capacity, veh/h rrmediate Results ment Vertical Class d Slope Coefficient	0.89 1700 1 3.73168		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe	mi/h fficient	7.70 0.43 61.0 0.45394

#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3590	-		-	57.9
Ve	hicle Results					
Ave	rage Speed, mi/h	57.9		Percent Follo	owers, %	63.8
Seg	ment Travel Time, minutes	0.70		Follower De	nsity, followers/mi/ln	7.6
Veh	icle LOS	С				
		<u>'</u>	Segm	ent 21		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrain	ined	Length, ft		10349
Lane	e Width, ft	12		Shoulder W	idth, ft	6
Spe	ed Limit, mi/h	55		Access Point	t Density, pts/mi	4.6
De	mand and Capacity	<u>'</u>				
Dire	ctional Demand Flow Rate, veh/h	704		Opposing D	emand Flow Rate, veh/h	-
Peal	K Hour Factor	0.97		Total Trucks,	, %	7.70
Seg	ment Capacity, veh/h	1700		Demand/Ca	pacity (D/C)	0.41
Int	ermediate Results	•		•		
Seg	ment Vertical Class	4		Free-Flow S	peed, mi/h	58.9
Speed Slope Coefficient		10.31524			er Coefficient	0.42509
PF Slope Coefficient		-1.91262		PF Power Co		0.76108
	assing Lane Effective Length?	No		Total Segme	ent Density, veh/mi/ln	10.7
%Improved % Followers		0.0		% Improved		0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7656	-		-	50.6
2	Horizontal Curve	1056	19	10	2	50.6
3	Tangent	1637	-		-	50.6
Vel	hicle Results					
Ave	rage Speed, mi/h	50.6		Percent Follo	owers, %	76.9
Seg	ment Travel Time, minutes	2.32		Follower Density, followers/mi/ln		10.7
Veh	icle LOS	D				
			Segm	ent 22		
Vel	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		2112
Lane	e Width, ft	12		Shoulder W	idth, ft	6
Spe	ed Limit, mi/h	55		Access Point	t Density, pts/mi	0.0
De	mand and Capacity					
	ctional Demand Flow Rate, veh/h	749		Opposing D	emand Flow Rate, veh/h	811
Dire		0.07		T	04	7.70
	K Hour Factor	0.97		Total Trucks,	, %	7.70

Intermediate Results							
Segment Vertical Class	1	Free-Flow Speed, mi/h	62.4				
Speed Slope Coefficient	3.80059	3.80059 Speed Power Coefficient					
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				
C. L							

## **Subsegment Data**

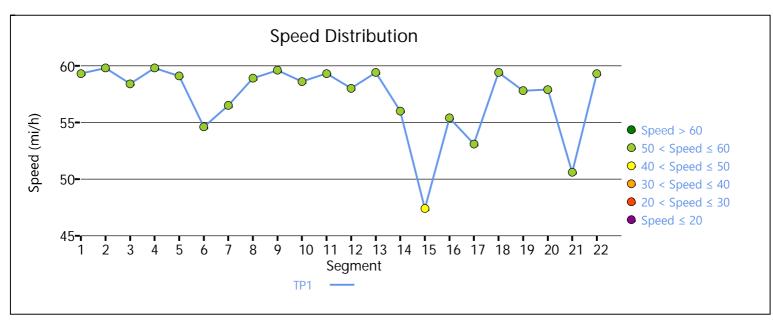
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-	-	59.3

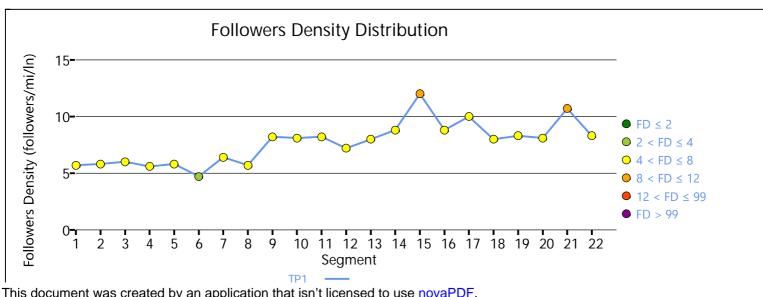
## **Vehicle Results**

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**

Т	Follower Density, followers/mi/ln	LOS
1	7.3	C





This document was created by an application that isn't licensed to use novaPDF.

		HCS7 Two	o-Lane	Highway Re	eport	
Pro	pject Information		_			
Anal	lyst			Date		4/27/2024
Age	-			Analysis Year		2024
				Time Analyzed		
Proj	ect Description	Port Orford norti	h UGB to	Units		U.S. Customary
	·	Bandon south U	GB			
			Segr	ment 1		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrai	ned	Length, ft		6020
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55	55		sity, pts/mi	12.9
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	402		Opposing Deman	d Flow Rate, veh/h	-
Peak	K Hour Factor	0.95		Total Trucks, %		7.18
Segment Capacity, veh/h		1700		Demand/Capacity	/ (D/C)	0.24
Int	ermediate Results					
Segment Vertical Class 4			Free-Flow Speed,	mi/h	57.1	
Speed Slope Coefficient		8.21304		Speed Power Coe	fficient	0.51902
PF S	lope Coefficient	-1.71709		PF Power Coefficie	ent	0.75838
In Pa	assing Lane Effective Length?	No	No		nsity, veh/mi/ln	4.4
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5650	-		-	52.7
2	Horizontal Curve	370	19 <sup>-</sup>	10	2	52.7
Vel	nicle Results	•				
Aver	rage Speed, mi/h	52.7		Percent Followers	, %	57.7
Segr	ment Travel Time, minutes	1.30		Follower Density,	followers/mi/ln	4.4
Vehi	icle LOS	С				
		<u>'</u>	Segr	ment 2		
Vel	nicle Inputs					
Segr	ment Type	Passing Lanes		Length, ft		4224
	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	20.0
De	mand and Capacity					
	ctional Demand Flow Rate, veh/h	411		Opposing Deman	d Flow Rate, veh/h	-
DI	K Hour Factor	0.94		Total Trucks, %		7.18
Peak		1		1		

Int	ermediate Results							
Seg	ment Vertical Class	4			Free-Flow Speed, mi/h			56.2
Speed Slope Coefficient 5.66561			Speed Power	Coeffic	cient	1.02023		
PF S	lope Coefficient	-1.0	5987		PF Power Co	efficient	t	0.84920
In Passing Lane Effective Length? No			Total Segmer	nt Dens	ity, veh/mi/ln	3.0		
%lm	proved % Followers	0.0			% Improved	Avg Sp	eed	0.0
Sul	osegment Data							
#	Segment Type	Leng	ength, ft Radiu		lius, ft	S	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	845		191	0	2		54.5
2	Tangent	337	9	-		-		54.5
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	/ Rate, veh/h		251				160	
Perc	entage of Heavy Vehicles (HV%), %		2.87				13.94	
Initia	al Average Speed (Sint), mi/h		56.4				54.4	
Ave	rage Speed at Midpoint (SPLmid), m	ni/h	58.0				52.8	
Perc	ent Followers at Midpoint (PFPLmic	d), %	30.4				19.9	
Vel	nicle Results							
Ave	rage Speed, mi/h	54.5	j	Percent Follo	wers, %		39.2	
Seg	ment Travel Time, minutes	0.88	3		Follower Der	nsity, fol	llowers/mi/ln	3.0
Vehi	cle LOS	В						
				Segn	nent 3			
Vel	nicle Inputs							
Seg	ment Type	Pass	sing Constrained	 I	Length, ft		5069	
Lane	e Width, ft	12			Shoulder Width, ft		6	
Spe	ed Limit, mi/h	55			Access Point Density, pts/mi		3.4	
De	mand and Capacity							<u>'</u>
Dire	ctional Demand Flow Rate, veh/h	405			Opposing De	emand I	Flow Rate, veh/h	-
	Hour Factor	0.95			Total Trucks,			7.18
Segi	ment Capacity, veh/h	170	0		Demand/Cap		D/C)	0.24
Int	ermediate Results							
Seg	ment Vertical Class	3			Free-Flow Sp	eed, mi	i/h	60.5
Spe	ed Slope Coefficient	7.57	/296		Speed Power	r Coeffic	cient	0.62051
PF S	lope Coefficient	-1.3	5655		PF Power Co	efficient	t	0.74785
In Pa	assing Lane Effective Length?	Yes			Total Segme	nt Dens	ity, veh/mi/ln	3.6
%lm	proved % Followers	20.0	)		% Improved	Avg Sp	eed	2.9
	osegment Data							
Sul		1.		D	r		tunoraloustion 0/	A C
Sul #	Segment Type	Len	gth, ft	Rad	lius, ft	5	Superelevation, %	Average Speed, mi/h

Vehicle Results					
Average Speed, mi/h	58.5		Percent Followers	Percent Followers, %	
Segment Travel Time, minutes	0.98		Follower Density,	followers/mi/ln	2.8
Vehicle LOS	В				
		Segn	nent 4		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1690
Lane Width, ft	12	12		ft	6
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	1.4
Demand and Capacity	·				
Directional Demand Flow Rate, veh/h	405		Opposing Demar	nd Flow Rate, veh/h	405
Peak Hour Factor	0.95		Total Trucks, %		7.18
Segment Capacity, veh/h	1700		Demand/Capacit	y (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 Coeffic	ent	0.78390
In Passing Lane Effective Length? Yes			Total Segment De	ensity, veh/mi/ln	3.2
%Improved % Followers	18.5		% Improved Avg	Speed	2.7
Subsegment Data					
# Segment Type	Length, ft	Rad	lius, 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	В				
		Segn	nent 5		
Vehicle Inputs					
Segment Type	Passing Constrain	ied	Length, ft		5069
Lane Width, ft	12		Shoulder Width,	ft	6
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
Demand and Capacity					·
Directional Demand Flow Rate, veh/h	405		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor	0.95		Total Trucks, %		7.18
Segment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.24
Segment Supacity, venim					
Intermediate Results				Free-Flow Speed, mi/h	
	1		Free-Flow Speed	mi/h	62.5

%lm <sub>l</sub>		Yes		Total Segment Density, veh/mi/ln		3.3	
%Improved % Followers 15.2 9		15.2		% Improved Avg	% Improved Avg Speed 1.9		
Sub	osegment Data						
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h	
1	Horizontal Curve	1056	1056 955		2	53.0	
2	Tangent	845	-		-	60.1	
3	Horizontal Curve	634	788	}	2	53.0	
4	Tangent	2534	-		-	60.1	
Veh	nicle Results						
Aver	age Speed, mi/h	58.8		Percent Follower	rs, %	47.2	
Segn	nent Travel Time, minutes	0.98		Follower Density	r, followers/mi/ln	2.8	
Vehic	cle LOS	В					
			Segn	nent 6		,	
Ver	nicle Inputs						
Segn	nent Type	Passing Zone		Length, ft		1531	
		Shoulder Width,	ft	6			
Speed Limit, mi/h 55			Access Point Der		1.2		
	mand and Capacity				3.1		
Directional Demand Flow Rate, veh/h 457		Opposing Dema	nd Flow Rate, veh/h	422			
	Hour Factor	0.95		Total Trucks, %		7.18	
	nent Capacity, veh/h	1700		Demand/Capacit	ty (D/C)	0.27	
	ermediate Results				<u> </u>		
Segn	nent Vertical Class	1		Free-Flow Speed	l, mi/h	62.2	
	ed Slope Coefficient	3.69330		Speed Power Co	efficient	0.49330	
PF SI	ope Coefficient	-1.31933		PF Power Coeffic	cient	0.78043	
In Pa	ssing Lane Effective Length?	Yes		Total Segment D	ensity, veh/mi/ln	3.9	
%lm	proved % Followers	13.9		% Improved Avg	Speed	1.4	
Suk	osegment Data			1		<u>'</u>	
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	1531	-		-	59.9	
Veh	nicle Results						
Aver	age Speed, mi/h	60.8		Percent Follower	rs, %	51.1	
Segn	nent Travel Time, minutes	0.29		Follower Density	, followers/mi/ln	3.3	
Vehicle LOS B							
			Segn	nent 7			
Ver	nicle Inputs						
	nent Type	Passing Constrair	ned	Length, ft		10876	
 Segn		-				-	
	Width, ft	12		Shoulder Width,	ft	6	

Dire	ctional Demand Flow Rate, veh/h	472		Opposing Der	mand Flow Rate, veh/h	-
Peal	Hour Factor	0.92		Total Trucks, %		7.18
Seg	ment Capacity, veh/h	1700		Demand/Capa	acity (D/C)	0.28
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Spe	eed, mi/h	61.8
Spe	ed Slope Coefficient	3.95375		Speed Power	Coefficient	0.41674
PF S	lope Coefficient	-1.29186		PF Power Coe	fficient	0.73539
In Pa	assing Lane Effective Length?	Yes		Total Segmen	t Density, veh/mi/ln	4.3
%lm	proved % Followers	9.5		% Improved A	Avg Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5333	-		-	59.2
2	Horizontal Curve	264	229	)2	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	163	37	2	59.1
7	Tangent	1214	-		-	59.2
8	Horizontal Curve	686	114	16	2	52.9
9	Tangent	53	-		-	59.2
10	Horizontal Curve	686	114	16	2	52.9
Vel	nicle Results					
Avei	rage Speed, mi/h	58.0		Percent Follow	vers, %	52.5
Seg	ment Travel Time, minutes	2.13	2.13		sity, followers/mi/ln	3.9
Vehi	icle LOS	В				
			Segn	nent 8		
Vel	nicle Inputs					
Seg	ment Type	Passing Lanes		Length, ft		2165
	e Width, ft	12		Shoulder Wid	th, ft	6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	472		Opposing Der	mand Flow Rate, veh/h	-
Peal	K Hour Factor	0.92		Total Trucks, 9	6	7.18
Seg	ment Capacity, veh/h	1700		Demand/Capa	acity (D/C)	0.28
Int	ermediate Results					,
Seg	ment Vertical Class	1		Free-Flow Spe	eed, mi/h	62.5
Spe	ed Slope Coefficient	3.91541		Speed Power	Coefficient	0.41674
PF S	lope Coefficient	-1.31699		PF Power Coe	fficient	0.76030

%lm	proved % Followers	8.9		% Improved Avg	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1426	-		-	59.9
2	Horizontal Curve	317	143	2	2	59.1
3	Tangent	422	-		-	59.9
Vel	nicle Results	<u>'</u>				
Aver	age Speed, mi/h	59.8		Percent Followers	;, %	52.5
	nent Travel Time, minutes			Follower Density,	followers/mi/ln	3.8
Vehi	cle LOS	В				
		S	egn	nent 9		<u>'</u>
Vel	nicle Inputs					
Segr	ment Type	Passing Constrained		Length, ft		6759
Lane	· Width, ft	12		Shoulder Width, f	it .	6
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	1.1
Dei	mand and Capacity	•				
Dire	ctional Demand Flow Rate, veh/h	472		Opposing Deman	nd Flow Rate, veh/h	-
Peak	: Hour Factor			Total Trucks, %		7.18
Segr	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.28
Inte	ermediate Results	<u>'</u>				<u>'</u>
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.2
	ed Slope Coefficient	3.94417		Speed Power Coefficient		0.41674
	lope Coefficient	-1.27197		PF Power Coefficient		0.76323
In Pa	assing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		4.1
%lm	proved % Followers	7.1		% Improved Avg Speed		0.0
Suk	osegment Data	<u>'</u>				<u>'</u>
#	Segment Type	Length, ft	Rac	lius, 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	191	0	2	59.1
5	Tangent	1109	-		-	59.6
6	Horizontal Curve	317	881		2	52.9
7	Tangent	1901	-		-	59.6
8	Horizontal Curve	l Curve 317		0	2	59.1
9	Tangent	1531	-		-	59.6
Vel	nicle Results	·				
Aver	age Speed, mi/h	58.7		Percent Followers	5, %	51.2
Segr	ment Travel Time, minutes	1.31		Follower Density,	followers/mi/ln	3.8
		+		<del>:</del>		i

Pas 12 55	sing Lanes					
12	sing Lanes					
				Length, ft		4646
55			Shoulder Width, ft			6
			Access Point Dens	Access Point Density, pts/mi		1.7
472			Opposing Demand	d Flov	v Rate, veh/h	-
0.92	0.92 To		Total Trucks, %			7.18
150	0		Demand/Capacity	(D/C)		0.31
						·
1			Free-Flow Speed,	mi/h		62.0
5.83	3329				t	0.91415
-1.1	7880		PF Power Coefficie	ent		0.84429
No			Total Segment De	nsity,	veh/mi/ln	3.7
0.0			% Improved Avg S	Speed		0.0
Len	gth, ft	Rad	dius, ft	Supe	erelevation, %	Average Speed, mi/h
464	6	-	-			59.7
	Faster Lane				Slower Lane	
	284				188	
,	2.87				13.71	
	61.0				61.1	
mi/h	62.7		59.5			
d), %	35.0				24.8	
59.	7		Percent Followers,	%		46.5
0.88	3		Follower Density,	follow	/ers/mi/ln	3.7
В						
	Se	gm	ent 11			
Pas	sing Constrained		Length, ft			1003
Segment Type Passing Constrained  Lane Width, ft 12			Shoulder Width, ft			6
55			Access Point Dens	ity, pt	s/mi	0.0
472			Opposing Demand	d Flov	v Rate, veh/h	-
			Total Trucks, %			7.18
170	0		Demand/Capacity	(D/C)		0.28
	6 mi/h d), %  5.83  -1.1 No 0.0  Len 464  6  mi/h d), %  7  9  12 55  12 55  472 0.92 170  pplication	1	1	1 Free-Flow Speed, 5.83329 Speed Power Coefficie No Total Segment De 0.0 % Improved Avg S  Length, ft Radius, ft 4646 -  Faster Lane 284 6 2.87 61.0 mi/h 62.7 d), % 35.0  Segment 11  Passing Constrained Length, ft 12 Shoulder Width, ft 12 Shoulder Width, ft 12 Shoulder Width, ft 15 Access Point Dens  472 Opposing Demand 0.92 Total Trucks, % 1700 Demand/Capacity pplication that isn't licensed to use novaPDE.	1	1

Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.5
Spe	ed Slope Coefficient	3.89410		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.37258		PF Power Coefficie	ent	0.74241
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	4.3
%lm	proved % Followers	23.4		% Improved Avg	Speed	2.6
Suk	osegment Data					
#	Segment Type	Length, ft	Length, ft Radius		Superelevation, %	Average Speed, mi/h
1	Tangent	1003	1003 -		-	59.9
Vel	nicle Results					
Aver	rage Speed, mi/h	61.4	61.4 F		, %	54.4
Segr	ment Travel Time, minutes	0.19		Follower Density,	followers/mi/ln	3.2
Vehi	cle LOS	В				
			Segm	ent 12		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		2798
Lane	e Width, ft	-		Shoulder Width, f	t	6
Spee	ed Limit, mi/h 55		Access Point Dens	sity, pts/mi	25.0	
Dei	mand and Capacity			1		
Dire	ctional Demand Flow Rate, veh/h	472		Opposing Deman	d Flow Rate, veh/h	436
Peak	Hour Factor	0.92		Total Trucks, %		7.18
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.28
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	56.2
Spee	ed Slope Coefficient	3.39375		Speed Power Coefficient		0.49119
PF S	lope Coefficient	-1.30722		PF Power Coefficient		0.77973
In Pa	assing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		4.5
%lm	proved % Followers	19.8		% Improved Avg Speed		2.1
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2798	-		-	54.1
Vel	nicle Results				<u>'</u>	
Aver	rage Speed, mi/h	55.3		Percent Followers	, %	51.7
Segr	ment Travel Time, minutes	0.58		Follower Density,	followers/mi/ln	3.5
Vehi	cle LOS	В				
			Segm	ent 13		·
Veł	nicle Inputs					
Segr	ment Type	Passing Constraine	d	Length, ft		581
Lane	e Width, ft	12		Shoulder Width, f	t	6
	document was created by an ap		ensed t	<u> </u>		0.0

Dire	ctional Demand Flow Rate, veh/h	472		Opposing Demai	nd Flow Rate, veh/h	-
	Hour Factor	0.92		Total Trucks, %		7.18
Segr	ment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.28
	ermediate Results					1
Sear	ment Vertical Class	1		Free-Flow Speed	 , mi/h	62.5
	ed Slope Coefficient	3.89410		Speed Power Coe		0.41674
	lope Coefficient	-1.37258	-1.37258 P		ient	0.74241
In Pa	assing Lane Effective Length?	Yes			ensity, veh/mi/ln	4.3
%lm	proved % Followers			% Improved Avg	Speed	2.1
Sul	osegment Data					1
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	264	-		-	59.9
2	Horizontal Curve	317	19	10	2	59.1
Vel	nicle Results	-				
Aver	rage Speed, mi/h	60.7		Percent Followers	 S, %	54.4
	ment Travel Time, minutes	0.11		Follower Density		3.4
	cle LOS	В				
			Segm	nent 14		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrai	ned	Length, ft		4858
Lane	e Width, ft	12		Shoulder Width,	6	
Spe	ed Limit, mi/h	40		Access Point Density, pts/mi		99.0
De	mand and Capacity			•		
Dire	ctional Demand Flow Rate, veh/h	472		Opposing Demai	-	
Peak	Hour Factor	0.92		Total Trucks, %		7.18
Segi	ment Capacity, veh/h	1700		Demand/Capacit	0.28	
Int	ermediate Results	<u> </u>				
Segr	ment Vertical Class	1		Free-Flow Speed	, mi/h	35.4
Spe	ed Slope Coefficient	2.47253		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.39343		PF Power Coeffic	ient	0.67872
In Pa	assing Lane Effective Length?	Yes		Total Segment D	ensity, veh/mi/ln	7.9
%lm	proved % Followers	15.5		% Improved Avg	Speed	1.3
Sul	osegment Data	·				
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	792	19	10	2	33.7
2	Tangent	4066	-		-	33.7
 Vel	nicle Results					

Segmer	nt Travel Time, minutes	1.62		Follower Density,	followers/mi/ln	6.6
Vehicle	LOS	С				
		S	egm	nent 15		
Vehic	ele Inputs					
Segmer	nt Type	Passing Constrained		Length, ft		1531
Lane W	/idth, ft	12		Shoulder Width, f	t	6
Speed L	Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Dema	and and Capacity					
Directio	onal Demand Flow Rate, veh/h	472		Opposing Deman	d Flow Rate, veh/h	-
Peak Ho	our Factor	0.92	0.92			7.18
Segmer	nt Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.28
Interr	mediate Results					
Segmer	nt Vertical Class	1		Free-Flow Speed,	mi/h	62.5
Speed S	Slope Coefficient	3.89806		Speed Power Coe	fficient	0.41674
PF Slop	e Coefficient	-1.36046		PF Power Coefficie	ent	0.74645
In Passing Lane Effective Length? Yes		Total Segment Density, veh/mi/ln		4.3		
%Improved % Followers 14.6				% Improved Avg S	1.1	
Subse	egment Data					
# Se	egment Type	Length, ft	Rac	Superelevation, %		Average Speed, mi/h
1 H	Horizontal Curve	422	143	2 2		59.1
2 Ta	angent	1109	-		-	59.9
Vehic	ele Results					
Average	e Speed, mi/h	60.3		Percent Followers	, %	54.0
Segmer	nt Travel Time, minutes	0.29		Follower Density,	followers/mi/ln	3.6
Vehicle	LOS	В				
		S	egm	nent 16		
Vehic	:le Inputs					
Segmer	•	Passing Zone		Length, ft		1531
Lane W		12		Shoulder Width, f	t	6
Speed L	Limit, mi/h	55		Access Point Dens	Access Point Density, pts/mi	
Dema	and and Capacity					,
Directio	onal Demand Flow Rate, veh/h	472		Opposing Deman	d Flow Rate, veh/h	436
	our Factor	0.92		Total Trucks, %		7.18
 Segmer	nt Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.28
Interr	mediate Results					
Segmer	nt Vertical Class	1		Free-Flow Speed,	mi/h	59.8
	Slope Coefficient	3.57073		Speed Power Coe		0.49119
•	e Coefficient	-1.33558		PF Power Coefficie		0.77406
		+		+	nsity, veh/mi/ln	4.3

%lm	proved % Followers	13.7		% Improved Avg	Speed	0.9
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1531	-		-	57.6
Vel	nicle Results					
Aver	rage Speed, mi/h	58.1		Percent Followers	s, %	52.6
Segi	ment Travel Time, minutes	0.30		Follower Density,	followers/mi/ln	3.7
Vehi	cle LOS	В				
			Segm	ent 17		
Vel	nicle Inputs					
Segi	ment Type	Passing Constrained	d	Length, ft		10876
Lane	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.8
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	472		Opposing Demar	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.92		Total Trucks, %		7.18
Segi	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.28
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	, mi/h	62.3
Spe	ed Slope Coefficient	3.97950		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.28761		PF Power Coeffici	ient	0.73661
In Pa	assing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	4.2
%lm	proved % Followers	9.4		% Improved Avg	Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	lius, 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	995	5	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	j	2	52.9
9	Tangent	1003	-		-	59.6
10	Horizontal Curve	158	955	· )	2	52.9
11	Tangent	475	-		-	59.6
Vel	nicle Results					
Ave	rage Speed, mi/h	59.0		Percent Followers	s, %	52.3
	ment Travel Time, minutes	2.09		Follower Density,	followers/mi/ln	3.8
Segi						

			Segn	nent 18		
Ver	nicle Inputs					
Segr	ment Type	Passing Lanes		Length, ft		2059
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	42.9
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	515		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.89		Total Trucks, %		7.18
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.30
Inte	ermediate Results	•				
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	52.5
Spee	ed Slope Coefficient	3.37341		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.39752		PF Power Coefficie	ent	0.73487
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	5.9
%lm	proved % Followers	8.4		% Improved Avg S	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	ndius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2059	-		-	50.1
Veľ	nicle Results					
Aver	age Speed, mi/h	50.1		Percent Followers	, %	57.6
	nent Travel Time, minutes	0.47		Follower Density,	followers/mi/ln	5.4
Vehi	cle LOS	С				
		<u>'</u>	Segn	nent 19		•
Vel	nicle Inputs					
	ment Type	Passing Constraine		Length, ft		4858
	Width, ft	12	<u> </u>	Shoulder Width, ft		6
	ed Limit, mi/h	55		Access Point Dens		6.2
	mand and Capacity	1				
	ctional Demand Flow Rate, veh/h	515		Opposing Deman	d Flow Rate, veh/h	  -
	Hour Factor	0.89		Total Trucks, %	a riow nate, veniin	7.18
	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.30
	ermediate Results				,	
	ment Vertical Class	1		Free-Flow Speed,	mi/h	60.9
	ed Slope Coefficient	3.85734		Speed Power Coe		0.41674
	lope Coefficient	-1.29243		PF Power Coefficie		0.76416
	assing Lane Effective Length?	Yes		Total Segment De		4.9
	proved % Followers	7.0		% Improved Avg S		0.0
Suk	osegment Data					
JUL	Josephicit Data					

1	Tangent	1584	-		-	58.2
2	Horizontal Curve	106	573	3	2	46.3
3	Tangent	845	-		-	58.2
4	Horizontal Curve	264	716	ó	2	46.3
5	Tangent	2059	-		-	58.2
Vel	nicle Results					
Aver	rage Speed, mi/h	57.3		Percent Followers	, %	54.1
Segi	ment Travel Time, minutes	0.96		Follower Density,	followers/mi/ln	4.5
Vehi	icle LOS	С				
		S	egm	ent 20		
Vel	nicle Inputs					
Segi	ment Type	Passing Zone		Length, ft		2429
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
De	mand and Capacity	<u>'</u>		•		
Dire	ctional Demand Flow Rate, veh/h	515		Opposing Deman	d Flow Rate, veh/h	476
Peak	K Hour Factor	0.89		Total Trucks, %		7.18
Segi	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.30
Int	ermediate Results					•
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.7
Spe	ed Slope Coefficient	3.69658		Speed Power Coe	fficient	0.48529
PF S	lope Coefficient	-1.29276		PF Power Coefficie	ent	0.78936
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	4.6
%lm	proved % Followers	6.4		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2429	-		-	59.3
Vel	nicle Results	-				
Aver	rage Speed, mi/h	59.3		Percent Followers	, %	53.5
Segi	ment Travel Time, minutes	0.47		Follower Density,	followers/mi/ln	4.3
Vehi	icle LOS	С				
		S	egm	ent 21		
Vel	nicle Inputs					
Segi	ment Type	Passing Constrained		Length, ft		6758
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	2.7
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	501		Opposing Deman	d Flow Rate, veh/h	-
his (	document was created by an app	olication that isn't licer	nsed t			7.18
	nase a license to generate PDF f					1

Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.29
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.8
Spe	ed Slope Coefficient	3.92248		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.27550		PF Power Coefficient		0.76219
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	4.5
%lm	proved % Followers	5.1		% Improved Avg S	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, 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	143	32	2	59.1
5	Tangent	581	581 -		-	59.1
Vel	nicle Results					
Ave	rage Speed, mi/h	58.8		Percent Followers	, %	52.9
Seg	ment Travel Time, minutes	1.31		Follower Density, followers/mi/ln		4.3
Veh	icle LOS	С				
		Se	egm	ent 22		
<b>V</b> el	nicle Inputs					
Seg	ment Type	Passing Lanes		Length, ft		2746
Lane	e Width, ft	12		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	6.2
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	501		Opposing Deman	d Flow Rate, veh/h	-
Peal	K Hour Factor	0.93		Total Trucks, %		7.18
Seg	ment Capacity, veh/h	1500		Demand/Capacity (D/C)		0.33
Int	ermediate Results			•		•
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	60.9
Spe	ed Slope Coefficient	5.63146		Speed Power Coe	fficient	0.79859
PF S	lope Coefficient	-1.31101		PF Power Coefficie	ent	0.79135
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	4.6
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	bsegment Data			•		
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	370	-		-	58.2
2	Horizontal Curve	264	143	32	2	58.2
3	Tangent	2112	-		-	58.2
— Pas	ssing Lane Results					
his	document was created by an app			o use <u>novaPDF</u> .	Clausa	
	nase a license to generate PDF f			-	Slower Lane	

Flow Rate, vel	h/h		300			201	
Percentage of	f Heavy Vehicles (HV%), %		2.87			13.61	
Initial Average	e Speed (Sint), mi/h		59.6			59.7	
Average Spee	ed at Midpoint (SPLmid), mi/	h	61.3			58.1	
Percent Follow	wers at Midpoint (PFPLmid),	%	41.8			30.4	
Vehicle Re	esults						
Average Spee	ed, mi/h	58.2	2		Percent Followers,	%	53.2
Segment Trav	vel Time, minutes	0.54	1		Follower Density, f	followers/mi/ln	4.6
Vehicle LOS		С					
			Se	gm	ent 23		
Vehicle In	puts						
Segment Type	e	Pas	sing Zone		Length, ft		3749
Lane Width, f	it	12			Shoulder Width, ft		6
Speed Limit, r	mi/h	55			Access Point Dens	ity, pts/mi	21.9
Demand a	and Capacity						
Directional De	emand Flow Rate, veh/h	501			Opposing Demand	d Flow Rate, veh/h	463
Peak Hour Fac	ctor	0.93	3		Total Trucks, %		7.18
Segment Cap	pacity, veh/h	170	0		Demand/Capacity (D/C)		0.29
Intermed	iate Results						
Segment Vert	tical Class	1			Free-Flow Speed, r	mi/h	57.0
Speed Slope	Coefficient	3.45	5430		Speed Power Coef	ficient	0.48713
PF Slope Coe	fficient	-1.2	8726		PF Power Coefficie	nt	0.78565
In Passing Lar	ne Effective Length?	Yes			Total Segment Der	nsity, veh/mi/ln	4.8
%Improved %	6 Followers	20.2	)		% Improved Avg S	peed	2.2
Subsegm	ent Data						
# Segmer	nt Type	Len	gth, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangen	t	374	9	-		-	54.8
Vehicle Re	esults						
Average Spee	ed, mi/h	56.0	)		Percent Followers,	%	52.7
	vel Time, minutes	0.76	)		Follower Density, f	followers/mi/ln	3.8
Vehicle LOS		В					
			Se	gm	ent 24		,
Vehicle In	puts						
Segment Type	<u> </u>	Pass	sing Constrained		Length, ft		3221
Lane Width, f	t	12			Shoulder Width, ft		6
Speed Limit, r	mi/h	50			Access Point Dens	ity, pts/mi	0.0
Demand a	and Capacity						
Directional De	emand Flow Rate, veh/h	501			Opposing Demand	d Flow Rate, veh/h	-
	nt was created by an appl	icatio	on that isn't licens	ed t			7.18
	cense to generate PDF file			•			I

		1		1_		1
Segr	ment Capacity, veh/h	1700		Demand/Cap	pacity (D/C)	0.29
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Sp	oeed, mi/h	56.8
Spee	ed Slope Coefficient	3.61408		Speed Powe	r Coefficient	0.41674
PF S	lope Coefficient	-1.35138		PF Power Coefficient		0.74994
In Pa	ssing Lane Effective Length?	Yes		Total Segme	nt Density, veh/mi/ln	5.2
%lm	proved % Followers	16.7		% Improved	Avg Speed	1.7
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3115	-		-	54.3
2	Horizontal Curve	106	358	3	2	37.7
Vel	nicle Results					
Aver	age Speed, mi/h	54.7		Percent Follo	owers, %	55.3
Segr	ment Travel Time, minutes	0.67		Follower Dei	nsity, followers/mi/ln	4.2
Vehi	cle LOS	В				
			Segm	ent 25		
Ver	nicle Inputs					
Segr	ment Type	Passing Constrai	ined	Length, ft		1478
Lane	Width, ft	12		Shoulder Wi	dth, ft	6
Spee	ed Limit, mi/h	55		Access Point	Density, pts/mi	0.0
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	501		Opposing D	emand Flow Rate, veh/h	-
Peak	Hour Factor	0.93		Total Trucks, %		7.18
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.29
Inte	ermediate Results	·		•		
Segr	ment Vertical Class	1		Free-Flow Speed, mi/h		62.5
Spee	ed Slope Coefficient	3.89709		Speed Power Coefficient		0.41674
PF S	lope Coefficient	-1.36334		PF Power Co	efficient	0.74549
In Pa	ssing Lane Effective Length?	Yes		Total Segme	nt Density, veh/mi/ln	4.9
%lm	proved % Followers	15.4		% Improved Avg Speed		1.5
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-		-	59.8
2	Horizontal Curve	211	358	3	2	39.7
3	Tangent	686	-		-	59.8
Veľ	nicle Results					
Aver	age Speed, mi/h	57.8		Percent Follo	owers, %	55.7
	ment Travel Time, minutes	0.29			nsity, followers/mi/ln	4.1
_		С		1		

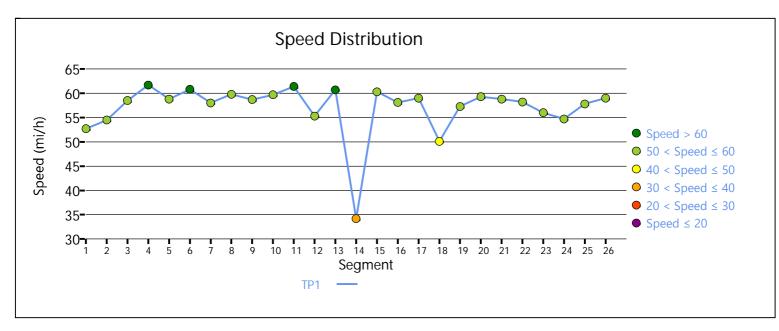
This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

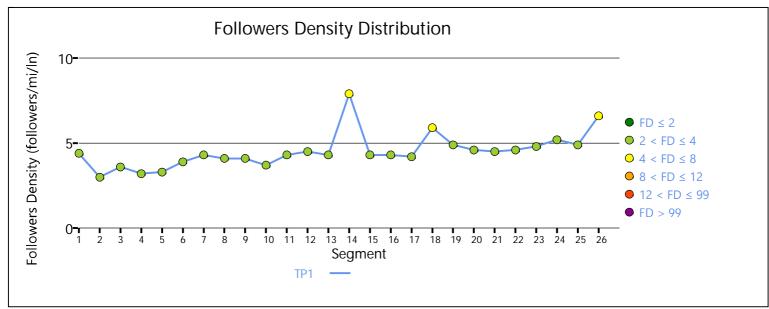
				Segm	ent 26			
<b>V</b> e	hicle Inpu	ts						
Seg	ment Type		Passing Constrair	ned	Length, ft			15575
Lan	e Width, ft		12		Shoulde	r Width, f	t	6
Spe	ed Limit, mi/h		55		Access P	Access Point Density, pts/mi		0.0
De	emand and	Capacity						·
Dire	ectional Demai	nd Flow Rate, veh/h	628		Opposin	g Deman	d Flow Rate, veh/h	-
Pea	Peak Hour Factor 0.95		Total Tru	cks, %		7.18		
Seg	ment Capacity	, veh/h	1700		Demand	/Capacity	/ (D/C)	0.37
Int	termediate	Results						·
Seg	ment Vertical	Class	1		Free-Flo	w Speed,	mi/h	62.5
Speed Slope Coefficient		4.01938		Speed Power Coefficient		fficient	0.41674	
PF S	Slope Coefficie	nt	-1.33984		PF Power Coefficient		ent	0.69081
In P	Passing Lane Ef	fective Length?	Yes		Total Seç	Total Segment Density, veh/mi/ln		6.6
%In	nproved % Fol	lowers	6.5		% Impro	ved Avg S	Speed	0.0
Su	bsegment	Data						•
#	Segment Ty	pe	Length, ft	Rac	lius, 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	143	2		2	58.8
6	Tangent		528	-			-	59.4
7	Horizontal (	Curve	211	716	1		2	46.2
8	Tangent		12302	-			-	59.4
<b>V</b> e	hicle Resu	Its						
Ave	erage Speed, m	ıi/h	59.0		Percent	Followers	, %	62.2
Seg	ment Travel Ti	me, minutes	3.00		Follower	Density,	followers/mi/ln	6.2
Veh	nicle LOS		С					
Fac	cility Resu	lts						
			Density, followers	/mi/ln			10	os
1 Follower		.,,	Density, followers/mi/in			LOS		

С

4.2

1





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility H (NB) - FUTURE.xuf

Generated: 05/02/2024 10:26:23

Analyst Agency Jurisdictio Project Def  Vehicle Segment Lane Widt Speed Lim Directiona Peak Hour Segment V Speed Slo PF Slope C In Passing %Improve Subseg # Segi 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang	e Inputs Type Ith, ft mit, mi/h and Capacity al Demand Flow Rate, veh/h	Passing Constraint 12 55 581 0.95 1700	Segn		Ith, ft Density, pts/mi mand Flow Rate, veh/h	4/14/2024 2024 U.S. Customary 15417 6 4.8
Agency Jurisdiction Project Des  Vehicle Segment Lane Widt Speed Lim Directiona Peak Hour Segment V Segment V Speed Slo In Passing Valmprove Subseg # Segi 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang	e Inputs Type Ith, ft mit, mi/h and Capacity al Demand Flow Rate, veh/h ur Factor Capacity, veh/h hediate Results Vertical Class	Passing Constraint 12 55 581 0.95	Segn	Analysis Year Time Analyze Units  Length, ft Shoulder Wic Access Point  Opposing De	Ith, ft Density, pts/mi mand Flow Rate, veh/h	2024 U.S. Customary  15417 6 4.8
Vehicle Segment Lane Widt Speed Lim Directiona Peak Hour Segment ( Intermo Segment ( Intermo Segment ( In Passing ( In Pas	e Inputs Type Ith, ft mit, mi/h and Capacity al Demand Flow Rate, veh/h ur Factor Capacity, veh/h hediate Results Vertical Class	Passing Constraint 12 55 581 0.95	Segn	Time Analyze Units  Pent 1  Length, ft Shoulder Wick Access Point  Opposing De	Ith, ft Density, pts/mi mand Flow Rate, veh/h	U.S. Customary  15417 6 4.8
Vehicle Segment Lane Widt Speed Lim Deman Directiona Peak Hour Segment ( Intermo Segment ( Intermo Segment ( In Passing %Improve Subseg # Segi 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang	e Inputs Type Ith, ft mit, mi/h and Capacity al Demand Flow Rate, veh/h ur Factor Capacity, veh/h hediate Results Vertical Class	Passing Constraint 12 55 581 0.95	Segn	Length, ft Shoulder Wick Access Point Opposing De	Ith, ft Density, pts/mi mand Flow Rate, veh/h	15417 6 4.8
Vehicle Segment Lane Widt Speed Lim Deman Directiona Peak Hour Segment ( Interme Segment ( In Passing %Improve Subseg # Segi 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang	e Inputs  Type  Ith, ft mit, mi/h  nd and Capacity  al Demand Flow Rate, veh/h  ur Factor  Capacity, veh/h  nediate Results  Vertical Class	Passing Constraint 12 55 581 0.95	Segn	Length, ft Shoulder Wick Access Point  Opposing De	Density, pts/mi mand Flow Rate, veh/h	15417 6 4.8
Segment  Lane Widt  Speed Lim  Deman  Directiona  Peak Hour  Segment (  Intermo  Segment (  In Passing  %Improve  Subseg  # Seg  1 Tan  2 Hori  3 Tan  4 Hori  5 Tan  5 Tan  5 Tan  5 Tan	Type Ith, ft mit, mi/h md and Capacity al Demand Flow Rate, veh/h ur Factor Capacity, veh/h mediate Results Vertical Class	12 55 581 0.95		Length, ft Shoulder Wick Access Point Opposing De	Density, pts/mi mand Flow Rate, veh/h	6 4.8
Segment  Lane Widt  Speed Lim  Deman  Directiona  Peak Hour  Segment (  Intermo  Segment (  In Passing  %Improve  Subseg  # Seg  1 Tan  2 Hori  3 Tan  4 Hori  5 Tan  5 Tan  5 Tan  5 Tan	Type Ith, ft mit, mi/h md and Capacity al Demand Flow Rate, veh/h ur Factor Capacity, veh/h mediate Results Vertical Class	12 55 581 0.95	ined	Shoulder Wide Access Point  Opposing De Total Trucks, 6	Density, pts/mi mand Flow Rate, veh/h	6 4.8
Lane Widt Speed Lim Deman Directiona Peak Hour Segment ( Intermo Segment ( Intermo Segment ( In Passing %Improve Subseg # Seg 1 Tan 2 Hori 3 Tan 4 Hori 5 Tan 5	hth, ft mit, mi/h md and Capacity hal Demand Flow Rate, veh/h har Factor Capacity, veh/h hediate Results Vertical Class	12 55 581 0.95	ined	Shoulder Wide Access Point  Opposing De Total Trucks, 6	Density, pts/mi mand Flow Rate, veh/h	6 4.8
Deman Directional Peak Hour Segment ( Segment	mit, mi/h  nd and Capacity  al Demand Flow Rate, veh/h  ur Factor  Capacity, veh/h  nediate Results  Vertical Class	55 581 0.95		Access Point Opposing De Total Trucks,	Density, pts/mi mand Flow Rate, veh/h	4.8
Deman Directiona Peak Hour Segment ( Intermo Segment ( Speed Slo PF Slope ( In Passing %Improve Subseg # Seg 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang	nd and Capacity  al Demand Flow Rate, veh/h  ar Factor  Capacity, veh/h  nediate Results  Vertical Class	581 0.95		Opposing De	mand Flow Rate, veh/h	-
Directional Peak Hour Segment ( Intermol Segment ( Speed Slo PF Slope ( In Passing %Improve Subseg # Seg 1 Tan 2 Hori 3 Tan 4 Hori 5 Tan 5	al Demand Flow Rate, veh/h ur Factor Capacity, veh/h nediate Results Vertical Class	0.95		Total Trucks, <sup>6</sup>	%	
Peak Hour Segment ( Intermote Segment ( Speed Slo PF Slope ( In Passing %Improve Subseg # Seg   1 Tang   2 Hori   3 Tang   4 Hori   5 Tang	ur Factor Capacity, veh/h nediate Results Vertical Class	0.95		Total Trucks, <sup>6</sup>	%	
Segment ( Segment ( Segment ( Speed Slo PF Slope ( In Passing %Improve  Subseg # Seg 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang	Capacity, veh/h nediate Results Vertical Class					7 18
Intermoderate Segment Name Speed Slope Control Programmer Subseg   # Segment Name Subseg   # Segment N	nediate Results  Vertical Class	1700		Demand/Cap		1.10
Segment Speed Slope (In Passing %Improve Subseg 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang 5	Vertical Class				acity (D/C)	0.34
Speed Slo PF Slope ( In Passing %Improve Subseg # Seg 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang						
PF Slope (In Passing %Improve Subseg   # Seg   1 Tang   2 Hori   3 Tang   4 Hori   5 Tang	ope Coefficient	1		Free-Flow Sp	eed, mi/h	61.3
In Passing %Improve Subseg # Seg 1 Tang 2 Hori 3 Tang 4 Hori 5 Tang		3.95344	Speed Power C		Coefficient	0.41674
%Improve Subseg # Seg 1 Tanç 2 Hori 3 Tanç 4 Hori 5 Tanç	Coefficient	-1.34871		PF Power Coe	efficient	0.68967
Subseg # Segi 1 Tanç 2 Hori 3 Tanç 4 Hori 5 Tanç	g Lane Effective Length?	No		Total Segment Density, veh/mi/ln		6.0
# Segriture 1 Segr	ed % Followers	0.0		% Improved	Avg Speed	0.0
1 Tang 2 Hori 3 Tang 4 Hori 5 Tang	gment Data			·		
2 Hori 3 Tang 4 Hori 5 Tang	gment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
3 Tanç 4 Hori 5 Tanç	ngent	12302	-		-	58.3
4 Hori	rizontal Curve	211	716	, ,	2	46.3
5 Tanç	ngent	528	-		-	58.3
,	rizontal Curve	475	143	32	2	58.3
6 Hor	ngent	317	-		-	58.3
0   11011	rizontal Curve	106	573	3	2	46.3
7 Tang	ngent	1478	-		-	58.3
Vehicle	e Results					
Average S	Speed, mi/h	58.1		Percent Follo	wers, %	60.4
	Travel Time, minutes	3.02		Follower Den	sity, followers/mi/ln	6.0
Vehicle LC		С				
			Segn	nent 2		
Vehicle			3			
Segment <sup>-</sup>	e Inputs			Length, ft		1636
his docur	e Inputs Type	Passing Constrai	ned		lth ft	6

De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	581		Opposing Dema	and Flow Rate, veh/h	-
Peal	k Hour Factor	0.95		Total Trucks, %		7.18
Seg	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.34
Int	ermediate Results					
Seg	ment Vertical Class	3		Free-Flow Spee	d, mi/h	61.3
Spe	ed Slope Coefficient	6.29432		Speed Power Co	pefficient	0.59126
PF S	Slope Coefficient	-1.43299		PF Power Coeffi	cient	0.74843
In Pa	assing Lane Effective Length?	No		Total Segment [	Density, veh/mi/ln	6.6
%lm	nproved % Followers	0.0		% Improved Av	g Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	158	716	5	2	46.3
2	Tangent	686	-		-	57.3
3	Horizontal Curve	211	358	3	2	39.6
4	Tangent	581	-		-	57.3
Vel	hicle Results	•				
Ave	rage Speed, mi/h	53.9		Percent Followe	rs, %	61.5
Seg	ment Travel Time, minutes	0.34		Follower Densit	y, followers/mi/ln	6.6
Veh	icle LOS	С				
		<u>'</u>	Segn	nent 3		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrain	ned	Length, ft		3221
Lane	e Width, ft	12		Shoulder Width	, ft	6
Spe	ed Limit, mi/h	50		Access Point De	nsity, pts/mi	8.2
De	mand and Capacity	<u> </u>				
Dire	ectional Demand Flow Rate, veh/h	463		Opposing Dema	and Flow Rate, veh/h	-
Peal	k Hour Factor	0.93		Total Trucks, %		7.18
Seg	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.27
Int	ermediate Results	<u>'</u>				
Seg	ment Vertical Class	1		Free-Flow Spee	d, mi/h	54.7
Spe	ed Slope Coefficient	3.50297		Speed Power Co	pefficient	0.41674
PF S	Slope Coefficient	-1.36673		PF Power Coeffi	cient	0.74451
In Pa	assing Lane Effective Length?	No		Total Segment I	Density, veh/mi/ln	4.8
%lm	nproved % Followers	0.0		% Improved Av	g Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	106	358		2	37.7
	Tangent	3115				

Vehicle Results					
Average Speed, mi/h	51.9		Percent Followers	s, %	53.7
Segment Travel Time, minutes	0.70		Follower Density,	followers/mi/ln	4.8
Vehicle LOS	В				
		Segn	nent 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 Den	sity, pts/mi	13.3
Demand and Capacity	·				
Directional Demand Flow Rate, veh/h	463		Opposing Demar	nd Flow Rate, veh/h	501
Peak Hour Factor	0.93		Total Trucks, %		7.18
Segment Capacity, veh/h	1700		Demand/Capacit	y (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 De	ensity, veh/mi/ln	4.2
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data			-		
# Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2376	-		-	56.9
Vehicle Results					
Average Speed, mi/h	56.9		Percent Followers	s, %	51.3
Segment Travel Time, minutes	0.47		Follower Density, followers/mi/ln		4.2
Vehicle LOS	С				
		Segn	nent 5		
Vehicle Inputs					
Segment Type	Passing Constrain	ned	Length, ft		10137
Lane Width, ft	12		Shoulder Width,	ft	6
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	4.2
Demand and Capacity					
Directional Demand Flow Rate, veh/h	463		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor	0.93		Total Trucks, %		7.18
Segment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.27
Intermediate Results					
Intermediate Results Segment Vertical Class	1		Free-Flow Speed	, mi/h	61.4

	assing Lane Effective Length?	No			ensity, veh/mi/ln	4.1
%lm	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3485	-		-	58.8
2	Horizontal Curve	264	143	2 2		58.8
3	Tangent	950	-		-	58.8
4	Horizontal Curve	264	143	32	2	58.8
5	Tangent	1214	-		-	58.8
6	Horizontal Curve	158	573	3	2	46.3
7	Tangent	3802	3802 -		-	58.8
Vel	hicle Results					
Ave	rage Speed, mi/h	58.6		Percent Followers	, %	51.8
Seg	ment Travel Time, minutes	1.96		Follower Density,	followers/mi/ln	4.1
Veh	icle LOS	С				
			Segr	nent 6		
Vel	hicle Inputs					
	ment Type	Passing Zone		Length, ft	Length, ft	
	e Width, ft	12		Shoulder Width, f	t	2323
Spe	ed Limit, mi/h	55		Access Point Dens	Access Point Density, pts/mi	
	mand and Capacity	1		I		
Dire	ectional Demand Flow Rate, veh/h	463			d Flow Rate, veh/h	501
Dire Peal	ectional Demand Flow Rate, veh/h	0.93		Total Trucks, %		7.18
Dire Peal	ectional Demand Flow Rate, veh/h					
Dire Peal Seg	ectional Demand Flow Rate, veh/h	0.93		Total Trucks, %		7.18
Dire Peal Seg	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h	0.93		Total Trucks, %	/ (D/C)	7.18
Dire Peal Seg Int	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results	0.93		Total Trucks, %  Demand/Capacity	/ (D/C) mi/h	7.18
Dire Peal Seg Int Seg Spe	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h cermediate Results ment Vertical Class	0.93		Total Trucks, %  Demand/Capacity  Free-Flow Speed,	y (D/C) mi/h fficient	7.18 0.27 61.3
Dire Peal Seg Int Seg Spe	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient	0.93 1700 1 3.68050		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe	n (D/C) mi/h fficient ent	7.18 0.27 61.3 0.48193
Dire Peal Seg Int Seg Spe PF S	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient	0.93 1700 1 3.68050 -1.30122		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe  PF Power Coefficients	mi/h fficient ent ensity, veh/mi/ln	7.18 0.27 61.3 0.48193 0.78622
Dire Peal Seg Int Seg Spe PF S	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length?	0.93 1700 1 3.68050 -1.30122 No		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coefficient  Total Segment Descriptions  Total Segment Descriptions	mi/h fficient ent ensity, veh/mi/ln	7.18 0.27 61.3 0.48193 0.78622 4.0
Direct Peal Seg Int Seg Spe PF S In Pa	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length? eproved % Followers	0.93 1700 1 3.68050 -1.30122 No	Rac	Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coefficient  Total Segment Descriptions  Total Segment Descriptions	mi/h fficient ent ensity, veh/mi/ln	7.18 0.27 61.3 0.48193 0.78622 4.0
Direct Peal Seg Int Seg Specific PF S In Passion Sul	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h rermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length? hproved % Followers bsegment Data	0.93 1700 1 3.68050 -1.30122 No 0.0	Rac -	Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe  PF Power Coeffici  Total Segment De  % Improved Avg	mi/h fficient ent ensity, veh/mi/ln Speed	7.18 0.27 61.3 0.48193 0.78622 4.0 0.0
Dire Peal Seg Int Seg Spe PF S In Pi %Im Sul	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length? hproved % Followers bsegment Data Segment Type	0.93 1700 1 3.68050 -1.30122 No 0.0		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe  PF Power Coeffici  Total Segment De  % Improved Avg	mi/h fficient ent ensity, veh/mi/ln Speed Superelevation, %	7.18  0.27  61.3  0.48193  0.78622  4.0  0.0  Average Speed, mi/h
Direct Peal Seg Int Seg Spe PF S In Pa Sul # 1 Vel	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h rermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length? hproved % Followers bsegment Data Segment Type Tangent	0.93 1700 1 3.68050 -1.30122 No 0.0		Total Trucks, %  Demand/Capacity  Free-Flow Speed,  Speed Power Coe  PF Power Coeffici  Total Segment De  % Improved Avg	mi/h  fficient ent ensity, veh/mi/ln  Speed  Superelevation, %	7.18  0.27  61.3  0.48193  0.78622  4.0  0.0  Average Speed, mi/h
Direct Peal Seg Int Seg Specific PF Sull # 1 Vel Avei	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h rermediate Results ment Vertical Class ed Slope Coefficient assing Lane Effective Length? hproved % Followers bsegment Data Segment Type Tangent hicle Results	0.93 1700 1 3.68050 -1.30122 No 0.0		Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h fficient ent ensity, veh/mi/ln Speed  Superelevation, % -	7.18 0.27 61.3 0.48193 0.78622 4.0 0.0  Average Speed, mi/h 59.1
Direct Peal Seg Int Seg Spe PF S In Pa Sul # 1 Vel Aver Seg	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h rermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length? reproved % Followers bsegment Data Segment Type Tangent hicle Results rage Speed, mi/h	0.93 1700  1 3.68050 -1.30122 No 0.0  Length, ft 2323		Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficit Total Segment De % Improved Avg	mi/h fficient ent ensity, veh/mi/ln Speed  Superelevation, % -	7.18 0.27 61.3 0.48193 0.78622 4.0 0.0  Average Speed, mi/h 59.1
Direct Peal Seg Int Seg Spe PF S In Pa Sul # 1 Vel Aver Seg	ectional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length? hproved % Followers bsegment Data Segment Type Tangent hicle Results rage Speed, mi/h ment Travel Time, minutes	0.93 1700  1 3.68050 -1.30122 No 0.0  Length, ft 2323  59.1 0.45	-	Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficit Total Segment De % Improved Avg	mi/h fficient ent ensity, veh/mi/ln Speed  Superelevation, % -	7.18 0.27 61.3 0.48193 0.78622 4.0 0.0  Average Speed, mi/h 59.1

Segr	ment Type	Passing Constrained		Length, ft		8079
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	4.6
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	476		Opposing Deman	d Flow Rate, veh/h	-
Peak	K Hour Factor	0.89		Total Trucks, %		7.18
Segr	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.28
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.3
Spe	ed Slope Coefficient	3.90761	3.90761		fficient	0.41674
PF S	lope Coefficient	-1.28059		PF Power Coeffici	ent	0.75442
In Pa	assing Lane Effective Length?	No Tota		Total Segment De	ensity, veh/mi/ln	4.3
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, 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	3	2	46.3
5	Tangent	3960	-	-		58.7
Veł	nicle Results					
Aver	rage Speed, mi/h	58.1		Percent Followers	, %	51.9
Segr	ment Travel Time, minutes	1.58		Follower Density,	followers/mi/ln	4.3
Vehi	icle LOS	С				
			Segn	nent 8		
Vel	nicle Inputs					
	nicle Inputs ment Type	Passing Lanes		Length, ft		2480
Segr	•	Passing Lanes		Length, ft Shoulder Width, f	t	2480
Segr Lane	ment Type	-				+
Segr Lane Spee	ment Type e Width, ft	12		Shoulder Width, f		6
Segr Lane Spee	ment Type  e Width, ft  ed Limit, mi/h	12		Shoulder Width, f Access Point Dens		6
Segr Lane Spee <b>De</b> l	ment Type Width, ft ed Limit, mi/h mand and Capacity	12 55		Shoulder Width, f Access Point Dens	sity, pts/mi	2.1
Segr Lane Spee Der Dire	ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h	12 55 476		Shoulder Width, f Access Point Dens Opposing Deman	sity, pts/mi d Flow Rate, veh/h	6 2.1
Segr Lane Spee Der Direc Peak Segr	ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  k Hour Factor	12 55 476 0.89		Shoulder Width, f Access Point Dens Opposing Deman Total Trucks, %	sity, pts/mi d Flow Rate, veh/h	- 7.18
Segri Lane Spee Der Dire Peak Segri	ment Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  K Hour Factor  ment Capacity, veh/h	12 55 476 0.89		Shoulder Width, f Access Point Dens Opposing Deman Total Trucks, %	d Flow Rate, veh/h	- 7.18
Segri Lane Spee Der Dire Peak Segri Inte	ment Type e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results	12 55 476 0.89 1700		Shoulder Width, f Access Point Dens Opposing Deman Total Trucks, % Demand/Capacity	d Flow Rate, veh/h  (D/C)  mi/h	- 7.18 0.28
Segri Lane Spee Direct Peak Segri Into Segri Spee	ment Type  Width, ft  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  K Hour Factor  ment Capacity, veh/h  ermediate Results  ment Vertical Class	12 55 476 0.89 1700		Shoulder Width, f Access Point Dens Opposing Deman Total Trucks, % Demand/Capacity  Free-Flow Speed,	od Flow Rate, veh/h  of (D/C)  mi/h  fficient	6 2.1 - 7.18 0.28 61.9
Segri Lane Spee Dire Peak Segri Into Segri Spee	ment Type e Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h k Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient	12 55 476 0.89 1700		Shoulder Width, f Access Point Dens Opposing Deman Total Trucks, % Demand/Capacity  Free-Flow Speed, Speed Power Coe	sity, pts/mi  Id Flow Rate, veh/h  I (D/C)  mi/h  fficient  ent	6 2.1 - 7.18 0.28 61.9 0.41674

#	Segment Type	Length, ft	Length, ft Rac		Superelevation, %	Average Speed, mi/h
1	Tangent	158	-		-	59.3
2	Horizontal Curve	158	955	j	2	52.9
3	Tangent	1003	-		-	59.3
4	Horizontal Curve	211	955	<u>;</u>	2	52.9
5	Tangent	792	-		-	59.3
6 Horizontal Curve		158	573		2	46.3
Vel	hicle Results					
Average Speed, mi/h		57.6		Percent Followers, %		52.9
Segment Travel Time, minutes		0.49		Follower Density, followers/mi/ln		4.4
Veh	icle LOS	С				
			Segn	nent 9		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrained		Length, ft		4911
Lan	e Width, ft	12		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		0.0
De	mand and Capacity			•		
Dire	ectional 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
Int	ermediate Results	•		•		
Segment Vertical Class		1	1		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
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, 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
<b>V</b> el	hicle 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		С				
			Segm	ent 10		·
<b>V</b> el	hicle Inputs					
his	document was created by an ap			o use <u>novaPDF</u> .		3485
urcl	hase a license to generate PDF	tiles without this n	otice.			0700

Lane Width, ft 12				Shoulder Wid	th, ft	6
Spe	ed Limit, mi/h	55		Access Point I	Density, pts/mi	1.5
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	476		Opposing De	mand Flow Rate, veh/h	515
Peal	K Hour Factor	0.89		Total Trucks, S	%	7.18
Seg	ment Capacity, veh/h	1700		Demand/Cap	acity (D/C)	0.28
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Spe	eed, mi/h	62.1
Spe	ed Slope Coefficient	3.73961		Speed Power	Coefficient	0.48015
PF S	Slope Coefficient	-1.26889		PF Power Coe	efficient	0.79609
In Pa	assing Lane Effective Length?	No		Total Segmen	t Density, veh/mi/ln	4.0
%lm	proved % Followers	0.0		% Improved A	Avg Speed	0.0
Sul	bsegment Data					·
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3485	-		-	59.7
 Vel	hicle Results					
Ave	rage Speed, mi/h	59.7	59.7 Percent Followe		wers, %	50.5
Segment Travel Time, minutes		0.66		Follower Den:	sity, followers/mi/ln	4.0
Veh	icle LOS	С			-	
Vel	hicle Inputs		Segm	nent 11		
	ment Type	Passing Constrain	ned	Length, ft		2745
	e Width, ft	12		Shoulder Wid	th, ft	6
	ed Limit, mi/h		50		Density, pts/mi	5.8
	mand and Capacity				3.1	
Dire	ctional Demand Flow Rate, veh/h	436	436		mand Flow Rate, veh/h	-
	K Hour Factor	0.92		Total Trucks, %		7.18
	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.26
	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Spe	eed, mi/h	55.3
	ed Slope Coefficient	3.52932		Speed Power		0.41674
	ilope Coefficient	-1.37455		PF Power Coe		0.74333
	assing Lane Effective Length?	No			t Density, veh/mi/ln	4.3
	nproved % Followers	0.0		% Improved A		0.0
_	bsegment Data					
Sul	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
		-	-			53.1
<b>Su</b> l #	Tangent	2323	-	32 2		33.1

Avera	age Speed, mi/h	53.1		Percent Followers,	%	52.4
Segn	nent Travel Time, minutes	0.59		Follower Density,	followers/mi/ln	4.3
Vehic	cle LOS	В				
		Se	gme	ent 12		
Veh	nicle Inputs					
Segn	nent Type	Passing Constrained		Length, ft		4541
Lane Width, ft 12		12		Shoulder Width, ff	i	6
Spee	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	19.8
Der	mand and Capacity					
Directional Demand Flow Rate, veh/h 436			Opposing Deman	d Flow Rate, veh/h	-	
Peak	Hour Factor	0.92		Total Trucks, %		7.18
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.26
Inte	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed,	mi/h	57.5
Spee	d Slope Coefficient	3.66979		Speed Power Coef	ficient	0.41674
PF Slope Coefficient		-1.32386		PF Power Coefficie	ent	0.75524
In Passing Lane Effective Length?		No		Total Segment De	nsity, veh/mi/ln	4.0
%Improved % Followers		0.0		% Improved Avg S	Speed	0.0
Sub	segment Data					•
#	Segment Type	Length, ft	Radio	us, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4066	-		-	55.2
2	Horizontal Curve	475	3000	)	0	55.2
Veh	icle Results					
Avera	age Speed, mi/h	55.2		Percent Followers,	%	50.7
Segn	nent Travel Time, minutes	0.94		Follower Density, followers/mi/ln		4.0
Vehic	cle LOS	С				
		Se	gme	ent 13		
Veh	nicle Inputs					
Segn	nent Type	Passing Zone		Length, ft		2482
Lane	Width, ft	12		Shoulder Width, ff	i	6
Spee	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	0.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	436		Opposing Deman	d Flow Rate, veh/h	472
Peak	Hour Factor	0.92		Total Trucks, %		7.18
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.26
Inte	ermediate Results					
		1		Free-Flow Speed,	mi/h	62.5
Segn				Speed Power Coefficient		
	d Slope Coefficient	3.73688		Speed Power Coef	fficient	0.48595

	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	3.5		
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0		
Suk	segment Data							
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h		
1	Horizontal Curve	317	191	10	2	59.2		
2	Horizontal Curve	317	191	10	2	59.2		
3	Tangent	1848	-		-	60.3		
Ver	nicle Results							
Average Speed, mi/h 60.0				Percent Followers	, %	48.6		
Segr	nent Travel Time, minutes	0.47		Follower Density,	followers/mi/ln	3.5		
Vehi	cle LOS	В						
		:	Segm	nent 14				
Ver	nicle Inputs							
Segr	nent Type	Passing Constrained	d	Length, ft		2218		
Lane Width, ft 12				Shoulder Width, f	t	6		
Speed Limit, mi/h 55				Access Point Dens	sity, pts/mi	4.8		
Der	mand and Capacity							
Direc	ctional Demand Flow Rate, veh/h	436		Opposing Deman	d Flow Rate, veh/h	-		
Peak	Hour Factor	0.92		Total Trucks, %		7.18		
Segr	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.26		
Inte	ermediate Results							
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.3		
Spee	ed Slope Coefficient	3.84431		Speed Power Coe	fficient	0.41674		
PF SI	ope Coefficient	-1.34170		PF Power Coefficie	ent	0.75338		
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	3.8		
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0		
Suk	segment Data					·		
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	2218	-		-	58.8		
Ver	nicle Results					•		
Aver	age Speed, mi/h	58.8		Percent Followers	, %	51.2		
Segr	nent Travel Time, minutes	0.43		Follower Density,	followers/mi/ln	3.8		
Vehi	cle LOS	В						
			Segm	nent 15				
Ver	nicle Inputs							
Segr	nent Type	Passing Lanes		Length, ft		3062		
	Width, ft	12		Shoulder Width, f	t	6		
Spec	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0		
his c	document was created by an app	lication that isn't lic	ensed t	<u> </u>				

Directional Demand Flow Rate, veh/h Peak Hour Factor	0.92			Opposing Demand	a	W Rato, voin ii		
		)		Total Trucks, %			7.18	
Segment Capacity, veh/h	150			Demand/Capacity	(D/C	<u> </u>	0.29	
Intermediate Results	1.00	<u> </u>		2 omana, capasity		, 	10.27	
Segment Vertical Class	1		_	Free-Flow Speed, I	mi/h		62.5	
Speed Slope Coefficient	-	9327		Speed Power Coefficient			0.81022	
PF Slope Coefficient	+	7697	-	PF Power Coefficie			0.80408	
In Passing Lane Effective Length?	No			Total Segment Der		veh/mi/ln	3.5	
%Improved % Followers 0.0				% Improved Avg S			0.0	
Subsegment Data				1 3				
# Segment Type	Len	gth, ft	ius, ft	Sun	erelevation, %	Average Speed, mi/h		
1 Tangent	306	-					60.1	
Passing Lane Results	300						00.1	
Passing Lane Results		Faster Lane				I		
				Slower Lane				
Flow Rate, veh/h				171				
Percentage of Heavy Vehicles (HV%), %		2.87				13.84		
Initial Average Speed (Sint), mi/h		63.0		61.5				
Average Speed at Midpoint (SPLmid), mi				59.9				
Percent Followers at Midpoint (PFPLmid), % 37.4						26.2		
Vehicle Results								
Average Speed, mi/h	60.1	60.1 Percent Followers, %					48.1	
Segment Travel Time, minutes	0.58	0.58 Follower Densi			follov	wers/mi/ln	3.5	
Vehicle LOS	В							
		Se	gm	ent 16				
Vehicle Inputs								
Segment Type	Pass	sing 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	d Flo	w Rate, veh/h	-	
Peak Hour Factor	0.92	<u>)</u>		Total Trucks, %			7.18	
Segment Capacity, veh/h	170	0		Demand/Capacity	(D/C	;)	0.26	
Intermediate Results								
Segment Vertical Class	1			Free-Flow Speed, I	mi/h		62.0	
Speed Slope Coefficient	3.96	673		Speed Power Coef	ficie	nt	0.41674	
PF Slope Coefficient	-1.2	9275		PF Power Coefficie	nt		0.73317	
In Passing Lane Effective Length?	Yes			Total Segment Der	nsity,	veh/mi/ln	3.8	
%Improved % Followers	14.2	)		% Improved Avg S	peed	d	1.2	
Subsegment Data								
oabsogilioni bata								

1	Tangent	3115	-		-	59.5
2	Horizontal Curve	317	191	0	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		0	2	59.2
7	Tangent	264 -			-	59.5
8	Horizontal Curve	528	528 955		2	53.0
9	Tangent	792	-		-	59.5
10	Horizontal Curve	317	143	2	2	59.2
11	Tangent	1426	-		-	59.5
12	Horizontal Curve	686 1146		6	2	53.0
Veh	icle Results					
Average Speed, mi/h 59.3				Percent Followers	, %	50.5
Segn	nent Travel Time, minutes	2.15		Follower Density,	followers/mi/ln	3.2
Vehic	cle LOS	В				
		Se	gm	ent 17		
Veh	icle Inputs					
Segment Type Passing Constrained				Length, ft		1953
Lane Width, ft 12			Shoulder Width, f	t	6	
Speed Limit, mi/h 55			Access Point Dens	sity, pts/mi	5.4	
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	436		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.92		Total Trucks, %		7.18
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.26
Inte	ermediate Results					<u>'</u>
Segn	nent Vertical Class	2		Free-Flow Speed,	mi/h	60.7
	d Slope Coefficient	3.98000		Speed Power Coe		0.45706
•	ope Coefficient	-1.43801		PF Power Coefficie		0.73314
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	4.2
	proved % Followers	13.0		% Improved Avg Speed		0.9
Sub	segment Data				<u> </u>	
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	53	-	·	-	58.3
2	Horizontal Curve	686	114	6	2	53.0
3	Tangent	1214	-		-	58.3
Veh	icle Results					
	age Speed, mi/h	57.0		Percent Followers	, %	54.3
				Follower Density,		3.6
Segment Travel Time, minutes 0.39  Vehicle LOS B						1

			Segm	ent 18			
Vel	hicle Inputs						
Segi	ment Type	Passing Constraine	ed	Length, ft		7445	
Lane	e Width, ft	12		Shoulder Width, f	t	6	
Spe	peed Limit, mi/h 55			Access Point Dens	sity, pts/mi	2.1	
De	mand and Capacity						
Dire	ectional Demand Flow Rate, veh/h	436		Opposing Deman	-		
Peak	k Hour Factor	0.92		Total Trucks, %		7.18	
Segi	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.26	
Int	ermediate Results						
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.9	
Spe	ed Slope Coefficient	3.93639		Speed Power Coe	fficient	0.41674	
PF S	Slope Coefficient	-1.27406		PF Power Coefficient	ent	0.75949	
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.6	
%lm	nproved % Followers	9.7		% Improved Avg	% Improved Avg Speed		
Sul	bsegment Data	·					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h	
1	Horizontal Curve	950	163	37	2	59.2	
2	Tangent	634	-		-	59.4	
3	Horizontal Curve	317	716	)	2	46.4	
4	Tangent	739	-		-	59.4	
5	Horizontal Curve	264 229		92	2	59.4	
6	Tangent	4541 -			-	59.4	
Vel	hicle Results						
Aver	rage Speed, mi/h	58.9		Percent Followers	49.2		
Segi	ment Travel Time, minutes	1.44		Follower Density,	3.3		
Vehi	icle LOS	В					
		<u> </u>	Segm	ent 19		_	
Vel	hicle Inputs						
	ment Type	Passing Zone		Length, ft		1426	
	e Width, ft	12		Shoulder Width, f	t	6	
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		0.0	
De	mand and Capacity			1			
	ectional Demand Flow Rate, veh/h	436		Opposing Deman	d Flow Rate, veh/h	472	
	k Hour Factor	0.92				7.18	
Segi	ment Capacity, veh/h	1700		Total Trucks, %  Demand/Capacity	' (D/C)	0.26	
	ermediate Results						
Sogi	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.5	
J	10.1.001 01000	1.1		to use novaPDF. fficient 0.48595			

PF SI	lope Coefficient	-1.32903		PF Power Coefficie	ent .	0.77694		
	assing Lane Effective Length?	Yes		Total Segment De		3.6		
	proved % Followers	9.2		% Improved Avg S		0.0		
	osegment Data	7.12		70 Improvod 711g C				
#	Segment Type	Length, ft	Par	dius, ft	Superelevation, %	Average Speed, mi/h		
1	3 21	1426	Rac	Jius, It	- Superelevation, %	60.3		
	Tangent	1420	-		-	00.3		
	nicle Results							
	rage Speed, mi/h	60.3		Percent Followers		50.2		
	ment Travel Time, minutes	0.27		Follower Density,	followers/mi/ln	3.3		
Vehi	cle LOS	В						
			Segm	ent 20				
Ver	nicle Inputs							
Segr	ment Type	Passing Constrained				4066		
Lane	e Width, ft	12		Shoulder Width, fr	t	6		
Speed Limit, mi/h 55			Access Point Dens	sity, pts/mi	2.6			
Der	mand and Capacity			•				
Direc	ctional Demand Flow Rate, veh/h	436		Opposing Deman	d Flow Rate, veh/h	-		
Peak	Peak Hour Factor 0.92			Total Trucks, %		7.18		
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.26		
Inte	ermediate Results	1						
Segment Vertical Class 1			Free-Flow Speed,	mi/h	61.8			
Spee	ed Slope Coefficient	3.89772		Speed Power Coef	fficient	0.41674		
PF SI	lope Coefficient	-1.29367	PF Power Coeffic		ent	0.76574		
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.7		
%lm	proved % Followers	7.9		% Improved Avg S	Speed	0.0		
Suk	osegment Data	_		,				
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	3432	-		-	59.3		
2	Horizontal Curve	634	788	3	2	53.0		
Ver	nicle Results							
Aver	rage Speed, mi/h	58.3		Percent Followers	 , %	49.6		
	ment Travel Time, minutes	0.79		Follower Density,		3.4		
	cle LOS	В		j.				
		'	Seam	nent 21				
Veh	nicle Inputs		3					
	ment Type	Passing Constrained	<b>1</b>	Length, ft		1267		
	e Width, ft	12	.a	Shoulder Width, fi	t	6		
Lanc	ed Limit, mi/h	55						
Snee	-(1			Access Point Density, pts/mi 0.0 to use novaPDF.				

Segme Segme Segme Speed PF Slop In Pass %Impro Subse I T 2	ent Travel Time, minutes	0.95 1700  3 6.08907 -1.46238  Yes 7.8  Length, ft 845 422	Rad - 955	Total Trucks, %  Demand/Capacity  Free-Flow Speed, Speed Power Coefficient Total Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Demand Segment Segmen	mi/h ificient ent nsity, veh/mi/ln	7.18  0.24  61.3  0.58785  0.74548  3.8  0.0		
Segme Speed Speed PF Slop In Pass Wilmpro Subse  y I T I Vehic Averag	ent Vertical Class  Slope Coefficient pe Coefficient sing Lane Effective Length? roved % Followers segment Data Segment Type Tangent Horizontal Curve cle Results ge Speed, mi/h ent Travel Time, minutes	3 6.08907 -1.46238 Yes 7.8 Length, ft 845 422	-	Free-Flow Speed, Speed Power Coef PF Power Coefficie Total Segment Der % Improved Avg S	mi/h  ficient ent nsity, veh/mi/ln Speed	61.3 0.58785 0.74548 3.8 0.0		
Speed PF Slop In Pass Wilmpro Subse I T I T Vehic Averag	ent Vertical Class  Slope Coefficient  pe Coefficient  sing Lane Effective Length?  roved % Followers  segment Data  Segment Type  Tangent  Horizontal Curve  cle Results  ge Speed, mi/h  ent Travel Time, minutes	6.08907 -1.46238 Yes 7.8 Length, ft 845 422	-	Speed Power Coefficient Total Segment Dead Minimum Segment Dead Novel 1	rficient ent nsity, veh/mi/In Speed	0.58785 0.74548 3.8 0.0		
Speed PF Slop In Pass %Impro Subse # S I T Vehic Averag	Slope Coefficient pe Coefficient sing Lane Effective Length? roved % Followers segment Data Segment Type Tangent Horizontal Curve cle Results ge Speed, mi/h ent Travel Time, minutes	6.08907 -1.46238 Yes 7.8 Length, ft 845 422	-	Speed Power Coefficient Total Segment Dead Minimum Segment Dead Novel 1	rficient ent nsity, veh/mi/In Speed	0.58785 0.74548 3.8 0.0		
PF Slopen Pass %Impro Subse # S I T Vehice Averag	pe Coefficient sing Lane Effective Length? roved % Followers segment Data Segment Type Tangent Horizontal Curve cle Results ge Speed, mi/h ent Travel Time, minutes	-1.46238  Yes  7.8  Length, ft  845  422	-	PF Power Coefficient Total Segment Deal % Improved Avg Statistics, ft	ent nsity, veh/mi/ln Speed	0.74548 3.8 0.0		
n Pass %Impro Subse  # S I T 2 H Vehice Average	sing Lane Effective Length? roved % Followers  segment Data  Segment Type  Tangent  Horizontal Curve  cle Results  ge Speed, mi/h ent Travel Time, minutes	Yes 7.8  Length, ft 845 422	-	Total Segment Der % Improved Avg S	nsity, veh/mi/ln Speed	3.8		
Subset   Sub	roved % Followers  segment Data  Segment Type  Tangent  Horizontal Curve  cle Results  ge Speed, mi/h ent Travel Time, minutes	7.8  Length, ft  845  422	-	% Improved Avg S	Speed	0.0		
Subset   Sub	Segment Data Segment Type Tangent Horizontal Curve Cle Results ge Speed, mi/h ent Travel Time, minutes	Length, ft 845 422	-	lius, ft				
# S I T 2 F Vehic Averag Segme	Segment Type Tangent Horizontal Curve Cle Results ge Speed, mi/h ent Travel Time, minutes	845 422	-		Superelevation, %	Average Speed mi/h		
Tehic Vehic Averag	Tangent  Horizontal Curve  Cle Results  ge Speed, mi/h ent Travel Time, minutes	845 422	-		Superelevation, %	Average Cheed mith		
2 H Vehic Averag Segme	Horizontal Curve  cle Results  ge Speed, mi/h ent Travel Time, minutes	422	955			Average Speed, mi/h		
Vehic Averag Segme	cle Results ge Speed, mi/h ent Travel Time, minutes		955		-	58.3		
Averag Segme	ge Speed, mi/h ent Travel Time, minutes	56.5		1	2	53.0		
Segme	ent Travel Time, minutes	56.5						
		Average Speed, mi/h 56.5				52.6		
/ehicle	e LOS	0.25		Follower Density, 1	followers/mi/ln	3.5		
		В		, , , , , , , , , , , , , , , , , , ,				
		Se	gm	ent 22				
/ehic	cle Inputs							
	ent Type	Passing Zone		Length, ft		1426		
	Width, ft	12		Shoulder Width, ft		6		
Speed	Limit, mi/h	55		Access Point Dens	ity, pts/mi	7.4		
	nand and Capacity				371			
	ional Demand Flow Rate, veh/h	405		Opposing Demand Flow Rate, veh/h 405				
	Hour Factor	0.95		Total Trucks, %	a now rate, venin	7.18		
	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.24		
	rmediate Results	1700		Demand, odpacity	(5/ 5)	0.21		
						1,0,4		
	ent Vertical Class	1		Free-Flow Speed,		60.6		
	Slope Coefficient	3.60307		Speed Power Coefficie		0.49597		
	pe Coefficient	-1.33240 Yes				3.5		
	sing Lane Effective Length? roved % Followers	7.4		Total Segment Del		0.0		
	segment Data	7.4		% improved Avg 3	<del>ppeeu</del>	0.0		
		Longth ft	Pad	lius, ft	Superplayation 9/	Avorago Spood mi/h		
	Segment Type	Length, ft			Superelevation, %	Average Speed, mi/h		
	Horizontal Curve Tangent	792	955		2	53.0		
	-	192	-		-	36.0		
	cle Results							
verag	ge Speed, mi/h	56.1		Percent Followers,		48.4		
	ent Travel Time, minutes ocument was created by an app	0.29	ا امما	Follower Density, t	followers/mi/ln	3.2		

			Segi	ment 23		
Ver	nicle Inputs					
Segr	ment Type	Passing Constrain	ed	Length, ft		3326
Lane	Width, ft	12		Shoulder Width	ı, ft	6
Spee	Speed Limit, mi/h 55		Access Point De	ensity, pts/mi	3.2	
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	405		Opposing Dem	and Flow Rate, veh/h	-
Peak	Hour Factor	0.95		Total Trucks, %		7.18
Segr	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.24
Inte	ermediate Results					
Segr	ment Vertical Class	3		Free-Flow Spee	d, mi/h	60.5
Spee	ed Slope Coefficient	6.95129		Speed Power C	pefficient	0.60216
PF S	lope Coefficient	-1.36393		PF Power Coeff	icient	0.75251
In Pa	ssing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	3.5
%lm	proved % Followers	6.6		% Improved Av	g Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3326 -			-	57.1
Veľ	nicle Results	<u> </u>			•	
Aver	age Speed, mi/h	57.1		Percent Followe	ers, %	49.9
Segment Travel Time, minutes		0.66		Follower Densit	y, followers/mi/ln	3.3
Vehicle LOS		В			-	
		<u>'</u>	Segi	ment 24		<u>'</u>
Vek	nicle Inputs					
	ment Type	Passing Lanes		Longth ft		5122
	· Width, ft	12		Length, ft Shoulder Width	, ft	6
	ed Limit, mi/h	55		Access Point De		2.1
•	mand and Capacity	30		Access Fourt De	, pt3/1111	2.1
	ctional Demand Flow Rate, veh/h	411		Onnosing Dem	and Flow Rate, veh/h	  -
	Hour Factor	0.94		Total Trucks, %	and now hate, verim	7.18
	nent Capacity, veh/h	1500		Demand/Capac	ity (D/C)	0.27
	ermediate Results	1.515			, (= )	1.2.
		3		Free-Flow Spee	d mi/h	61.0
Segment Vertical Class 3 Speed Slope Coefficient 6.76267		Speed Power Co		1.09026		
	lope Coefficient	-1.06016		PF Power Coeff		0.85035
	ussing Lane Effective Length?	No			Density, veh/mi/ln	2.7
	proved % Followers	0.0		% Improved Av	•	0.0
	osegment Data					
	Josephionic Data					

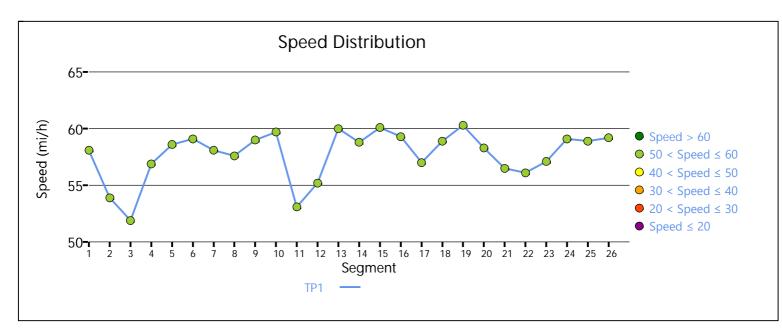
	Tangent	512	2	-		-	59.1
Pas	sing Lane Results						·
			Faster Lane			Slower Lane	
Flow	Rate, veh/h		251			160	
Perce	entage of Heavy Vehicles (HV%), 9	%	2.87			13.94	
Initia	ıl Average Speed (Sint), mi/h		60.9				
Aver	age Speed at Midpoint (SPLmid),	mi/h	62.5			57.8	
Perce	ent Followers at Midpoint (PFPLm	id), %	30.6			19.2	
Ver	nicle Results						
Aver	age Speed, mi/h	59.1	1		Percent Followers	, %	39.2
Segment Travel Time, minutes 0.99			)		Follower Density,	followers/mi/ln	2.7
Vehi	cle LOS	В					
			Se	gm	ent 25		
Ver	nicle Inputs						
Segr	nent Type	Pas	sing Constrained		Length, ft		3643
Lane Width, ft 12			-		Shoulder Width, f	t	6
Speed Limit, mi/h 55					Access Point Dens		1.4
Der	mand and Capacity						
Direc	ctional Demand Flow Rate, veh/h	402			Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor 0.95			5		Total Trucks, %	•	7.18
Segment Capacity, veh/h 170			0		Demand/Capacity	(D/C)	0.24
Inte	ermediate Results						
Segr	nent Vertical Class	3			Free-Flow Speed,	mi/h	61.0
	ed Slope Coefficient	7.19	9556		Speed Power Coe	fficient	0.60971
PF SI	ope Coefficient	-1.3	5689		PF Power Coefficie	ent	0.75375
In Pa	ssing Lane Effective Length?	Yes			Total Segment Density, veh/mi/ln		3.5
%lm	proved % Followers	20.4	1		% Improved Avg :	Speed	2.4
Suk	segment Data						
#	Segment Type	Len	gth, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	898		-	·	-	57.5
2	Horizontal Curve	121	4	191	0	2	57.5
3	Tangent	153	1	-		-	57.5
Ver	nicle Results						,
Aver	age Speed, mi/h	58.9	)		Percent Followers	, %	49.5
	nent Travel Time, minutes	0.70	)		Follower Density,		2.7
Vehi	cle LOS	В					
			Se	gm	ent 26		
Ver	nicle Inputs						
This document was created by an application that isn't licensed to use <u>novaPDF</u> .  4118							

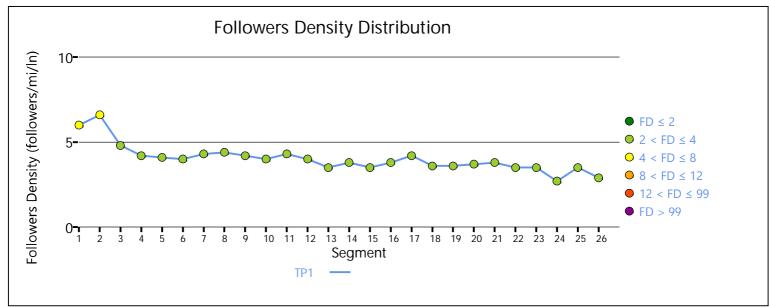
									OS	
Fac	ility Resul	ts								
Vehi	cle LOS		В							
Segi	ment Travel Ti	me, minutes	0.79	)	F	ollower	Density, f	ollowers/mi/ln	2.9	
Aver	age Speed, m	i/h	59.2		Р	Percent F	ollowers,	%	43.3	
Veł	nicle Resul	lts								
Perc	ent Followers	at Midpoint (PFPLmid),	%	33.0				22.6		
		Midpoint (SPLmid), mi/l		62.0				58.9		
		eed (Sint), mi/h		60.4				60.5		
Perc	entage of Hea	vy Vehicles (HV%), %		2.87				13.98		
Flow	Rate, veh/h			246				156	156	
				Faster Lane		Slower Lane				
Pas	sing Lane	Results								
1	Tangent		4118	8  -				-	59.2	
#	Segment Ty	pe		gth, ft Rad		s, ft		Superelevation, %	Average Speed, mi/h	
Sul	segment									
·					1 %	% impro	vea Avg S	peea	0.0	
0 0			No 0.0			Total Segment Density, veh/mi/ln % Improved Avg Speed		2.9		
'				0973		PF Power Coefficient		0.83026		
	•		5.72		_		ower Coef		0.88503	
3			1		_		w Speed, i		61.2	
	ermediate									
_			130			Jerriaria.	Capacity	(5/6)	0.27	
	ment Capacity	woh/h	150		_		/Capacity	(D/C)	0.27	
	: Hour Factor	nd Flow Rate, veh/h	402 0.95		_	Opposin Fotal Tru		I Flow Rate, veh/h	7.18	
	mand and							15. 5. 10		
		0	1 33		1,	1000331	OIIII DOIIS	τς, ρισ/πι	3.1	
	ed Limit, mi/h		55		_		•	ty, pts/mi	5.1	
and	Width, ft		12		9	Shoulder	Width, ft		6	

С

4.0

1





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility H (SB) - FUTURE.xuf Generated: 05/02/2024 10:28:22

	HCS7 Two	o-Lane	e Highway Re	eport			
Project Information							
Analyst			Date		4/27/2024		
Agency			Analysis Year		2024		
Jurisdiction			Time Analyzed				
Project Description	Gold Beach north Port Orford south		Units		U.S. Customary		
		Segr	ment 1				
Vehicle Inputs							
Segment Type	Passing Zone	Passing Zone			7920		
Lane Width, ft	12		Shoulder Width, f	t	6		
Speed Limit, mi/h 55			Access Point Dens	sity, pts/mi	1.8		
Demand and Capacity							
Directional Demand Flow Rate, veh/	h 402		Opposing Deman	d Flow Rate, veh/h	434		
Peak Hour Factor	0.90		Total Trucks, %		22.00		
Segment Capacity, veh/h	1700	1700		/ (D/C)	0.24		
Intermediate Results							
Segment Vertical Class	1		Free-Flow Speed,	mi/h	61.5		
Speed Slope Coefficient	3.73213		Speed Power Coe	fficient	0.49140		
PF Slope Coefficient -1.23545			PF Power Coefficie	ent	0.79365		
In Passing Lane Effective Length? No			Total Segment De	nsity, veh/mi/ln	3.1		
%Improved % Followers	0.0		% Improved Avg	Speed	0.0		
Subsegment Data							
# Segment Type	Length, ft	Ra	dius, 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	В						
	,	Segr	ment 2		<u>'</u>		
Vehicle Inputs							
Segment Type	Passing Constrain	ned	Length, ft		1690		
Lane Width, ft	12		Shoulder Width, f	t	6		
Speed Limit, mi/h	55		Access Point Dens	0.0			
Demand and Capacity							
Directional Demand Flow Rate, veh/	h 356		Opposing Deman	d Flow Rate, veh/h	-		
Peak Hour Factor	0.84		Total Trucks, %		22.00		
Segment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.21		
This document was created by ar		licensed	1 1				

Segment Vertical Class 1 From		1		Free-Flow Speed, mi/h		62.0
Spe	ed Slope Coefficient	3.87412		Speed Power Coefficient		0.41674
PF S	lope Coefficient	-1.35531		PF Power Coefficie	ent	0.75014
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.8
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	osegment Data					·
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690	-		-	59.8
Vel	nicle Results					
Average Speed, mi/h		59.8		Percent Followers	, %	46.4
	ment Travel Time, minutes	0.32		Follower Density,	followers/mi/ln	2.8
Vehi	cle LOS	В				
			Segn	nent 3		•
Veh	nicle Inputs					
	ment Type	Passing Zone		Length, ft		15365
		Shoulder Width, fr	<u> </u>	6		
·		55		Access Point Density, pts/mi		75.0
	mand and Capacity					11111
Directional Demand Flow Rate, veh/h 356		356		Opposing Deman	d Flow Rate, veh/h	385
·		0.84		Total Trucks, %		22.00
		1700		Demand/Capacity	(D/C)	0.21
Into	ermediate Results					<u>'</u>
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	52.0
Spee	ed Slope Coefficient	3.22122		Speed Power Coef	fficient	0.49940
PF S	lope Coefficient	-1.28376		PF Power Coefficient		0.74985
In Pa	assing Lane Effective Length?	No	No		nsity, veh/mi/ln	3.2
%lm	proved % Followers	0.0	0.0		Speed	0.0
Suk	osegment Data			'		·
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	15365	-		-	50.3
Vel	nicle Results					•
Aver	age Speed, mi/h	50.3		Percent Followers,	, %	44.7
Segr	ment Travel Time, minutes	3.47		Follower Density,	followers/mi/ln	3.2
Vehi	cle LOS	В		. S. S. S. S. S. S. S. J. Tollower St. Hill.		
			Segn	nent 4		•
Veł	nicle Inputs					
	<u> </u>	Passing Constraine	ed	Length, ft		3801
				+		
	Lane Width, ft 12		Shoulder Width, f		6	

Dire	ctional Demand Flow Rate, veh/h	322		Opposing Deman	nd Flow Rate, veh/h	-
	K Hour Factor	0.87		Total Trucks, %		22.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.19
	ermediate Results					1
Segment Vertical Class 1 F		Free-Flow Speed,	mi/h	56.5		
PF Slope Coefficient -1.34031 P		Speed Power Coe		0.41674		
		PF Power Coeffici		0.75354		
			Total Segment De	ensity, veh/mi/ln	2.6	
	nproved % Followers	0.0		% Improved Avg		0.0
Sul	bsegment Data	1				<u> </u>
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2851	-	<u> </u>	-	54.6
2	Horizontal Curve	950	229	92	2	54.6
<b>V</b> el	hicle Results	-				
Aver	rage Speed, mi/h	54.6		Percent Followers	 5, %	43.5
Segment Travel Time, minutes 0.79			Follower Density, followers/mi/ln		2.6	
Vehicle LOS B		В		,		
		<u> </u>	Segr	nent 5		
Vel	hicle Inputs					
Segi	egment Type Passing Zone		Length, ft		6231	
Lane	e Width, ft	12		Shoulder Width, f		6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
De	mand and Capacity	1				
Dire	ctional Demand Flow Rate, veh/h	322		Opposing Demar	nd Flow Rate, veh/h	348
Peak	k Hour Factor	0.87		Total Trucks, %		22.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.19
Int	ermediate Results	<u> </u>				
Segi	ment Vertical Class	1		Free-Flow Speed, mi/h		62.0
Spe	ed Slope Coefficient	3.71967		Speed Power Coefficient		0.50579
PF S	Slope Coefficient	-1.22211		PF Power Coefficient		0.80700
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.1
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data	·				
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	634	229	92	2	60.2
2	Tangent	5597	-		-	60.2
 Vel	hicle Results	1				

Segn	nent Travel Time, minutes	1.18		Follower Density,	followers/mi/ln	2.1
Vehic	cle LOS	В				
			Segr	ment 6		
Veh	nicle Inputs					
Segr	nent Type	Passing Zone	Passing Zone			1162
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	314		Opposing Deman	d Flow Rate, veh/h	339
Peak	Hour Factor	0.85		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.18
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.0
Spee	ed Slope Coefficient	3.65669		Speed Power Coe	fficient	0.50754
PF SI	ope Coefficient	-1.31821		PF Power Coefficie	ent	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
Suk	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1162	-		-	60.3
Ver	nicle Results					
Aver	age Speed, mi/h	60.3		Percent Followers	, %	41.3
Segn	nent Travel Time, minutes	0.22	0.22		followers/mi/ln	2.2
Vehi	cle LOS	В				
			Segr	ment 7		
Veh	nicle Inputs					
Segn	nent Type	Passing Constrain	ned	Length, ft		2957
Lane	Width, ft	12		Shoulder Width, ft		6
Spee	ed Limit, mi/h	55		Access Point Density, pts/mi		5.6
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	314		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.85		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.18
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	60.6
Spee	ed Slope Coefficient	3.81703		Speed Power Coe	fficient	0.41674
DE CI	ope Coefficient	-1.32403		PF Power Coefficie	ent	0.76020
PF SI		<del>-</del>		1		1
	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.3

#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2957	-		-	58.6
Vel	hicle Results				·	
Avei	rage Speed, mi/h	58.6		Percent Followers	5, %	42.2
Seg	ment Travel Time, minutes	0.57		Follower Density,	followers/mi/ln	2.3
Vehi	icle LOS	В				
			Segr	ment 8		
Vel	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		3326
Lane	e Width, ft	12		Shoulder Width, 1	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	1.6
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	314		Opposing Demar	nd 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
Int	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed,	mi/h	61.6
Speed Slope Coefficient		3.66523	3.66523		efficient	0.50754
PF Slope Coefficient		-1.25155		PF Power Coeffici	ent	0.80480
In Passing Lane Effective Length?		No		Total Segment De	ensity, veh/mi/ln	2.0
%lm	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3326	-		-	59.9
Vel	hicle Results					
Ave	rage Speed, mi/h	59.9		Percent Followers	5, %	38.9
Seg	ment Travel Time, minutes	0.63		Follower Density, followers/mi/ln		2.0
Vehi	icle LOS	В				
			Segr	nent 9		
Vel	hicle Inputs					
Seg	ment Type	Passing Constrain	ned	Length, ft		1742
Lane	e Width, ft	12		Shoulder Width, t	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	314		Opposing Demar	nd Flow Rate, veh/h	-
Peal	K Hour Factor	0.85		Total Trucks, %		22.00
	ment Capacity, veh/h	1700		Demand/Capacity	(5.40)	0.18

Segment Vertical Class	1		Free-Flow Speed, mi/h		62.0
Speed Slope Coefficient	3.87501		Speed Power Coe		0.41674
PF Slope Coefficient	-1.35283		PF Power Coeffici		0.75095
n Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.3
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data			<u> </u>		
# Segment Type	Length, ft	Rad	dius, 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,		2.3
Vehicle LOS B		Tollower Berisity,	10110WC13/1111/111	2.0	
Vernicio EOS					
		Segm	nent 10		
Vehicle Inputs					
egment Type Passing Zone		Length, ft		3432	
Lane Width, ft	12		Shoulder Width,	ft	6
Speed Limit, mi/h 55		Access Point Den	sity, pts/mi	0.0	
Demand and Capacity					
Directional Demand Flow Rate, veh/h	299		Opposing Demar	nd Flow Rate, veh/h	323
Peak Hour Factor	0.90		Total Trucks, %		22.00
Segment Capacity, veh/h	1700		Demand/Capacity	y (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	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	3432	-		-	60.4
Vehicle Results					
Average Speed, mi/h	60.4		Percent Followers	5, %	37.5
Segment Travel Time, minutes	0.65		Follower Density, followers/mi/ln		1.9
Vehicle LOS	А				
		Segm	ent 11		
Vehicle Inputs					

Speed Limit, mi/h		55		Access Point Density, pts/mi		1.2
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	299	299		d Flow Rate, veh/h	-
Peak Hour Factor		0.90		Total Trucks, %		22.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.18
Int	termediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.7
Spe	ed Slope Coefficient	3.86790		Speed Power Coe	fficient	0.41674
PF S	Slope Coefficient	-1.33247		PF Power Coefficie	ent	0.75760
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.1
%In	nproved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-		-	59.7
2	Horizontal Curve	1848	143	2	2	59.1
<b>V</b> e	hicle 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		В				
		Se	gm	ent 12		
<b>V</b> e	hicle Inputs					
	ment Type	Passing Lanes		Length, ft		2534
	e Width, ft	12		Shoulder Width, fi	<u> </u>	6
	eed Limit, mi/h	55		Access Point Density, pts/mi		0.0
÷	emand and Capacity					1 2.2
	ectional Demand Flow Rate, veh/h	299		Onnosing Deman	d Flow Rate, veh/h	
	k Hour Factor	0.90		Total Trucks, %		22.00
	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.18
	termediate Results	1700		Bernaria, capacity	(2, 3)	0.10
	ment Vertical Class	3		Free-Flow Speed,	mi/h	58.5
	ed Slope Coefficient	8.77159		Speed Power Coef		0.62509
	Slope Coefficient	-1.35444		PF Power Coefficie		0.76708
	Passing Lane Effective Length?	No		Total Segment De		2.2
	nproved % Followers	0.0		% Improved Avg S		0.0
	bsegment Data			1 3		
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1584	-		-	55.4
2	Horizontal Curve	950	127	3	2	55.4
	hiele Desults		1		<u> </u>	

Aver	age Speed, mi/h	55.4		Percent Follow	/ers, %	41.5
Segr	ment Travel Time, minutes	0.52		Follower Dens	ity, followers/mi/ln	2.2
Vehi	cle LOS	В				
			Segr	nent 13		
Vel	nicle Inputs					
Segr	ment Type	Passing Lanes		Length, ft		2639
Lane	· Width, ft	12		Shoulder Widt	h, ft	6
Spee	ed Limit, mi/h	55		Access Point D	Density, pts/mi	0.0
Dei	mand and Capacity			·		
Dire	ctional Demand Flow Rate, veh/h	299		Opposing Der	nand Flow Rate, veh/h	-
Peak	: Hour Factor	0.90		Total Trucks, %	,	22.00
Segment Capacity, veh/h		1700		Demand/Capa	ncity (D/C)	0.18
Inte	ermediate Results					<u>'</u>
Segr	ment Vertical Class	1		Free-Flow Spe	ed, mi/h	62.0
	ed Slope Coefficient	3.88867		Speed Power (		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
	proved % Followers	0.0		% Improved A	-	0.0
Suk	osegment Data			·		<b>'</b>
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	739	57	<u> </u>	2	46.1
2	Tangent	158	-		-	60.0
3	Horizontal Curve	686	65	 51	2	46.1
4	Horizontal Curve	1056	95	 55	2	52.8
Vel	nicle Results	<u>'</u>				
Aver	age Speed, mi/h	49.6		Percent Follow	/ers, %	40.9
Segr	ment Travel Time, minutes	0.60		Follower Dens	ity, followers/mi/ln	2.5
Vehi	cle LOS	В				
		·	Segr	nent 14		<u>'</u>
Vel	nicle Inputs					
Segr	ment Type	Passing Constrain	ned	Length, ft		8659
	e Width, ft	12		Shoulder Widt	:h, ft	6
Speed Limit, mi/h		55		Access Point D		3.8
Dei	mand and Capacity					_
	ctional Demand Flow Rate, veh/h	300		Opposing Der	nand Flow Rate, veh/h	
	Hour Factor	0.94		Total Trucks, %		22.00
	ment Capacity, veh/h	1700		Demand/Capa		0.18
	ermediate Results				, , ,	
	ualato nodanto					

F Slope Coefficient -1.28324  Passing Lane Effective Length? No Improved % Followers 0.0  Pubsegment Data  Segment Type Length, ft Radi Tangent 106 - Horizontal Curve 739 573 Horizontal Curve 792 1118 Tangent 53 - Horizontal Curve 686 716 Tangent 158 - Horizontal Curve 686 716 Tangent 157 Tangent 158 - Horizontal Curve 1686 716 Tangent 158 - Horizontal Curve 1686 716 Tangent 158 - Horizontal Curve 1686 716 Tangent 739 - Horizontal Curve 1686 716 Tangent 739 - Horizontal Curve 1686 573 Tangent 179 Tangent	2	nsity, veh/mi/ln	0.75225 2.3 0.0  Average Speed, mi/h 59.0 46.1 52.8 59.0 46.1 59.0 46.1 59.0 59.0 59.0 59.0 59.0 59.0
Segment Type	% Improved Avg S	Superelevation, %  - 2 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	0.0  Average Speed, mi/h 59.0 46.1 52.8 59.0 46.1 59.0 46.1 59.0 59.0 59.0 59.0 59.0 59.0
Segment Type	ius, ft	Superelevation, %  - 2 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	Average Speed, mi/h 59.0 46.1 52.8 59.0 46.1 59.0 46.1 59.0 46.1 59.0 59.0 59.0 59.0 59.0 59.0
Segment Type	2	- 2 - 2 - 2 - 2 - 2 - 2	59.0 46.1 52.8 59.0 46.1 59.0 46.1 59.0 59.0 59.0 59.0 59.0 59.0 59.0
Tangent       106       -         Horizontal Curve       739       573         Horizontal Curve       792       1115         Tangent       53       -         Horizontal Curve       686       716         Tangent       158       -         Horizontal Curve       686       716         Tangent       739       -         Horizontal Curve       1373       1432         O Tangent       211       -         1 Horizontal Curve       1056       573         2 Tangent       53       -         3 Horizontal Curve       898       1432         4 Horizontal Curve       1109       955	2	- 2 - 2 - 2 - 2 - 2 - 2	59.0 46.1 52.8 59.0 46.1 59.0 46.1 59.0 59.0 59.0 59.0 59.0 59.0 59.0
Horizontal Curve   739   573     Horizontal Curve   792   1115     Tangent   53   -	2	2 2 - 2 - 2 - 2 - 2	46.1 52.8 59.0 46.1 59.0 46.1 59.0 59.0 59.0 46.1 59.0 59.0 59.0
Horizontal Curve   792   1115     Tangent   53   -	2	2 - 2 - 2 - 2 - 2	52.8 59.0 46.1 59.0 46.1 59.0 59.0 59.0 46.1 59.0 59.0 59.0
Tangent       53       -         Horizontal Curve       686       716         Tangent       158       -         Horizontal Curve       686       716         Tangent       739       -         Horizontal Curve       1373       1432         Daragent       211       -         1 Horizontal Curve       1056       573         2 Tangent       53       -         3 Horizontal Curve       898       1432         4 Horizontal Curve       1109       955	2	- 2 - 2 - 2 - 2	59.0 46.1 59.0 46.1 59.0 59.0 59.0 46.1 59.0 59.0
Horizontal Curve		2 - 2 - 2 - 2 -	46.1 59.0 46.1 59.0 59.0 59.0 46.1 59.0 59.0
Tangent       158       -         Horizontal Curve       686       716         Tangent       739       -         Horizontal Curve       1373       1432         Dame       211       -         1 Horizontal Curve       1056       573         2 Tangent       53       -         3 Horizontal Curve       898       1432         4 Horizontal Curve       1109       955         Vehicle Results		- 2 - 2 - 2 - 2	59.0 46.1 59.0 59.0 59.0 46.1 59.0
Horizontal Curve		2 - 2 - 2 -	46.1 59.0 59.0 59.0 46.1 59.0 59.0
Tangent       739       -         Horizontal Curve       1373       1432         D Tangent       211       -         1 Horizontal Curve       1056       573         2 Tangent       53       -         3 Horizontal Curve       898       1432         4 Horizontal Curve       1109       955		- 2 - 2 - 2	59.0 59.0 59.0 46.1 59.0 59.0
Horizontal Curve		2 - 2 - 2	59.0 59.0 46.1 59.0 59.0
0       Tangent       211       -         1       Horizontal Curve       1056       573         2       Tangent       53       -         3       Horizontal Curve       898       1432         4       Horizontal Curve       1109       955         7       Pehicle Results		- 2 - 2	59.0 46.1 59.0 59.0
1 Horizontal Curve 1056 573 2 Tangent 53 - 3 Horizontal Curve 898 1432 4 Horizontal Curve 1109 955  7 Cehicle Results	2	2 - 2	46.1 59.0 59.0
2       Tangent       53       -         3       Horizontal Curve       898       1432         4       Horizontal Curve       1109       955         7ehicle Results	2	2	59.0 59.0
3 Horizontal Curve 898 1432 4 Horizontal Curve 1109 955 Vehicle Results	2	2	59.0
4 Horizontal Curve 1109 955 <b>Vehicle Results</b>	2		
ehicle Results		2	
			52.8
verage Speed, mi/h 52.9			
	Percent Followers,	, %	40.5
egment Travel Time, minutes 1.86	Follower Density, followers/mi/ln		2.3
ehicle LOS B			
Segm	ent 15		
/ehicle Inputs			
egment Type Passing Constrained	Length, ft		3011
ane Width, ft 12	Shoulder Width, ft		6
peed Limit, mi/h 55	Access Point Density, pts/mi		0.0
Demand and Capacity		3.1	
irectional Demand Flow Rate, veh/h 300	Opposing Demand	d Flow Rate, veh/h	-
eak Hour Factor 0.94	Total Trucks, %		22.00
egment Capacity, veh/h 1700	Demand/Capacity (D/C)		0.18
ntermediate Results			
egment Vertical Class 4	Free-Flow Speed, r	mi/h	55.5
peed Slope Coefficient 10.48118	Speed Power Coefficient		0.62210
F Slope Coefficient -1.57592	PF Power Coefficie		0.72926
n Passing Lane Effective Length? No	Total Segment Der	nsity, veh/mi/ln	2.8
SImproved % Followers 0.0	% Improved Avg S		0.0
ubsegment Data	, , ,	•	

1	Tangent	634	-		-	51.6
2	Horizontal Curve	898	955	5	2	51.6
3	Tangent	106	-		-	51.6
4	Horizontal Curve	1373	881	<u> </u>	2	51.6
Veh	icle Results					
Avera	ge Speed, mi/h	51.6		Percent Followers	5, %	48.1
Segn	nent Travel Time, minutes	0.66		Follower Density,	followers/mi/ln	2.8
Vehic	le LOS	В				
			Segm	ent 16		1
Veh	icle Inputs					
Segn	nent Type	Passing Constra	ined	Length, ft		2904
Lane Width, ft		12		Shoulder Width, f		6
Spee	d Limit, mi/h	55		Access Point Den	sity, pts/mi	6.5
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	300		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor		0.94		Total Trucks, %		22.00
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.18
Inte	rmediate Results	<u>'</u>				•
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	60.3
Speed Slope Coefficient		3.80414		Speed Power Coe	efficient	0.41674
PF Slope Coefficient		-1.32735		PF Power Coeffici	ent	0.75929
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.1
%lmţ	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1214	-		-	58.4
2	Horizontal Curve	1056	143	32	2	58.4
3	Tangent	634	-		-	58.4
Veh	icle Results		·			
Avera	ge Speed, mi/h	58.4		Percent Followers	5, %	41.3
Segn	nent Travel Time, minutes	0.57		Follower Density, followers/mi/ln		2.1
Vehic	le LOS	В				
			Segm	ent 17		
Veh	icle Inputs					
Segr	nent Type	Passing Constra	ined	Length, ft		4805
Lane	Width, ft	12		Shoulder Width, f		6
Spee	d Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
Dor	nand and Capacity					
Dei.						

ak Hour Factor 0.94	94	Total Trucks, %		22.00
gment Capacity, veh/h 170	00	Demand/Capacity (D/C)		0.18
itermediate Results				
gment Vertical Class 5		Free-Flow Speed, 1	mi/h	53.1
peed Slope Coefficient 15.3	5.33504	Speed Power Coef	ficient	0.60343
Slope Coefficient -1.8	.85038	PF Power Coefficie	ent	0.84240
Passing Lane Effective Length? No	)	Total Segment Der	nsity, veh/mi/ln	3.1
mproved % Followers 0.0	)	% Improved Avg S	peed	0.0
ubsegment Data				
Segment Type Len	ngth, ft Rac	ius, ft	Superelevation, %	Average Speed, mi/h
Tangent 264	4 -		-	47.2
Horizontal Curve 105	56 143	2	2	47.2
Horizontal Curve 898	8 958		2	47.2
Tangent 264	4 -		-	47.2
Horizontal Curve 121	14 163	7	0	47.2
Horizontal Curve 581	1 819		0	47.2
Horizontal Curve 475	5 819		0	47.2
Tangent 53 -			-	47.2
ehicle Results				·
verage Speed, mi/h 47.3	.2	Percent Followers,	%	48.9
gment Travel Time, minutes 1.10	 16	Follower Density, f	followers/mi/ln	3.1
hicle LOS B				
	Segm	ent 18		
ehicle Inputs				
gment Type Pas	ussing Constrained	Length, ft		1267
ne Width, ft 12		Shoulder Width, ft		6
peed Limit, mi/h 55		Access Point Density, pts/mi		5.9
emand and Capacity				
rectional Demand Flow Rate, veh/h 300	00	Opposing Demand	d Flow Rate, veh/h	-
ak Hour Factor 0.94		Total Trucks, %		22.00
gment Capacity, veh/h 170		Demand/Capacity (D/C)		0.18
Itermediate Results			<u> </u>	
gment Vertical Class 3		Free-Flow Speed, i	mi/h	57.1
9	 66098	Speed Power Coef		0.59732
	.44589	PF Power Coefficie	ent	0.75314
Slope Coefficient -1.4	)	Total Segment Der	nsity, veh/mi/ln	2.5
Slope Coefficient -1.4 Passing Lane Effective Length? No	)	% Improved Avg S		0.0
·				
Passing Lane Effective Length? No				
Passing Lane Effective Length?  No Improved % Followers  0.0  ubsegment Data	ngth, ft Rac	ius, ft	Superelevation, %	Average Speed, mi/h
Passing Lane Effective Length? No				

2	Tangent	317	-		-	54.1
Vel	nicle Results					
Ave	rage Speed, mi/h	53.1		Percent Followers, %		44.2
Seg	ment Travel Time, minutes	0.27		Follower Density,	followers/mi/ln	2.5
Vehi	icle LOS	В				
			Segm	ent 19		
Vel	nicle Inputs					
Seg	ment Type	Passing Constrained	 d	Length, ft		2377
Lane	e Width, ft	12		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		0.0
De	mand and Capacity			•		·
Dire	ctional Demand Flow Rate, veh/h	300		Opposing Deman	nd Flow Rate, veh/h	-
Peal	Hour Factor	0.94		Total Trucks, %		22.00
Seg	Segment Capacity, veh/h 1700		Demand/Capacity	/ (D/C)	0.18	
Int	ermediate 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 Coeffici	ent	0.76605
In Passing Lane Effective Length?		No		Total Segment De	ensity, veh/mi/ln	2.7
%Improved % Followers 0.0		0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	739	637	1	2	46.1
2	Tangent	106	-		-	55.4
3	Horizontal Curve	845	573	3	2	46.1
4	Tangent	106	-		-	55.4
5	Horizontal Curve	581	716	)	2	46.1
Vel	nicle Results					
Ave	rage Speed, mi/h	46.9		Percent Followers	s, %	41.9
Seg	ment Travel Time, minutes	0.58		Follower Density, followers/mi/ln		2.7
Vehi	icle LOS	В				
		:	Segm	ent 20		
Vel	nicle Inputs					
Seg	ment Type	Passing Constrained	d	Length, ft		4488
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	0.0
De	mand and Capacity					
	ctional Demand Flow Rate, veh/h	300		Opposing Deman	nd Flow Rate, veh/h	-
Dire				'   0		

Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.18
Int	ermediate Results					
Segr	ment Vertical Class	1	1		ed, mi/h	62.0
Spe	ed Slope Coefficient	3.91077		Speed Power C	Coefficient	0.41674
PF S	lope Coefficient	-1.28518		PF Power Coef	ficient	0.76892
In Pa	assing Lane Effective Length?	No		Total Segment	Density, veh/mi/ln	2.1
%lm	proved % Followers	0.0		% Improved A	vg Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3274	-		-	60.0
2	Horizontal Curve	1214	669	)	0	46.1
Vel	nicle Results					
Aver	rage Speed, mi/h	56.2		Percent Follow	ers, %	39.9
Segment Travel Time, minutes		0.91		Follower Densi	ty, followers/mi/ln	2.1
Vehicle LOS		В				
			Segm	ent 21		
Vel	nicle Inputs					
Segment Type		Passing Constrai	ined	Length, ft		2060
Lane Width, ft		12		Shoulder Widt	h, ft	6
Speed Limit, mi/h		55		Access Point D	ensity, pts/mi	0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	323		Opposing Den	nand Flow Rate, veh/h	-
Peak	Hour Factor	0.87	0.87			22.00
Segr	ment Capacity, veh/h	1700	1700		city (D/C)	0.19
Int	ermediate Results					·
Segr	ment Vertical Class	3	3		ed, mi/h	58.5
Spe	ed Slope Coefficient	8.53130		Speed Power Coefficient		0.61883
PF S	lope Coefficient	-1.38009		PF Power Coefficient		0.76430
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.8
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	634	-		-	55.2
2	Horizontal Curve	792	716	5	2	46.1
3	Tangent	634	-		-	55.2
Vel	nicle Results					
Aver	rage Speed, mi/h	51.7		Percent Follow	ers, %	44.1
Segr	ment Travel Time, minutes	0.45		Follower Densi	ty, followers/mi/ln	2.8
Vehi	cle LOS document was created by an ap	В				

			Segm	nent 22		
Ver	nicle Inputs					
Segn	nent Type	Passing Constraine	ed	Length, ft		3009
Lane	Width, ft	12		Shoulder Width, ft		6
Speed Limit, mi/h 55		55		Access Point Dens	sity, pts/mi	0.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	323		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor		0.87		Total Trucks, %		22.00
Segment Capacity, veh/h		1700		Demand/Capacity	(D/C)	0.19
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.0
Spee	d Slope Coefficient	3.89358		Speed Power Coe	fficient	0.41674
PF SI	ope Coefficient	-1.31015		PF Power Coefficie	ent	0.76397
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.3
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	686	-		-	59.9
2	Horizontal Curve	686	143	32	2	59.1
3	Tangent	1637	-		-	59.9
Ver	nicle Results					
Aver	age Speed, mi/h	59.7		Percent Followers	, %	42.5
Segn	nent Travel Time, minutes	0.57		Follower Density,	followers/mi/ln	2.3
Vehic	cle LOS	В				
			Segm	nent 23		
Ver	nicle Inputs					
Segn	nent Type	Passing Zone		Length, ft	3221	
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Density, pts/mi		0.0
•						
Der	mand and Capacity					
	tional Demand Flow Rate, veh/h	323		Opposing Deman	d Flow Rate, veh/h	336
Dired		323 0.87		Opposing Deman	d Flow Rate, veh/h	336 22.00
Dired Peak	tional Demand Flow Rate, veh/h					
Dired Peak Segn	ctional Demand Flow Rate, veh/h Hour Factor	0.87		Total Trucks, %		22.00
Direct Peak Segr	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	0.87		Total Trucks, %	(D/C)	22.00
Direct Peak Segn Inte	Hour Factor nent Capacity, veh/h ermediate Results	0.87		Total Trucks, %  Demand/Capacity	mi/h	22.00
Direct Peak Segr Inte Segr Spee	tional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class	0.87		Total Trucks, %  Demand/Capacity  Free-Flow Speed,	(D/C) mi/h fficient	22.00 0.19 62.0

#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3221	-		-	60.2
Vel	hicle Results				·	
Avei	rage Speed, mi/h	60.2		Percent Followe	rs, %	39.6
Seg	ment Travel Time, minutes	0.61		Follower Density	y, followers/mi/ln	2.1
Vehi	icle LOS	В				
			Segm	ent 24		
Vel	hicle Inputs					
Segment Type		Passing Constrain	ned	Length, ft		1901
Lane	e Width, ft	12		Shoulder Width	, ft	6
Spe	ed Limit, mi/h	55		Access Point De	nsity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	323		Opposing Dema	and Flow Rate, veh/h	-
Peal	k Hour Factor	0.87		Total Trucks, %		22.00
Seg	Segment Capacity, veh/h 1700		Demand/Capac	ity (D/C)	0.19	
Int	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed	d, mi/h	62.0
Spe	ed Slope Coefficient	3.87765		Speed Power Co	pefficient	0.41674
PF S	Slope Coefficient	-1.34571		PF Power Coeffi	cient	0.75326
In Pa	assing Lane Effective Length?	No		Total Segment D	2.4	
%lm	nproved % Followers	0.0		% Improved Avo	g Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1901	-		-	59.9
Vel	hicle Results					
Ave	rage Speed, mi/h	59.9		Percent Followe	rs, %	43.7
Seg	ment Travel Time, minutes	0.36		Follower Density	y, followers/mi/ln	2.4
Vehi	icle LOS	В				
			Segm	ent 25		
Vel	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		2112
Lane	e Width, ft	12		Shoulder Width	, ft	6
Spe	ed Limit, mi/h	55		Access Point De	nsity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	323		Opposing Dema	and Flow Rate, veh/h	336
Peal	k Hour Factor	0.87		Total Trucks, %		22.00
				Demand/Capacity (D/C)		0.19

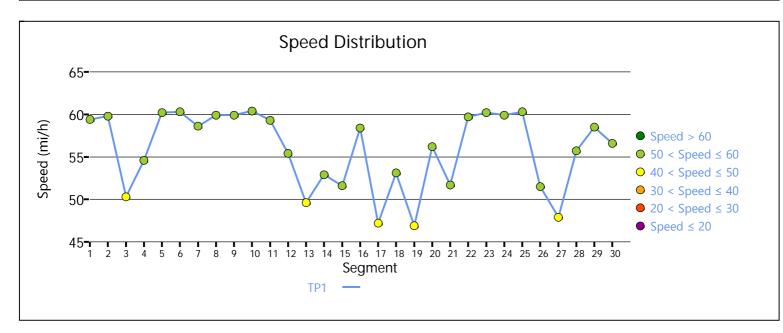
cyiii	ent Vertical Class	1		Free-Flow Speed, mi/h		62.0
Speed	I Slope Coefficient	3.66942		Speed Power Coe	efficient	0.50814
PF SIc	pe Coefficient	-1.28121		PF Power Coeffici	ent	0.79541
n Pas	sing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.2
%lmp	roved % Followers	0.0		% Improved Avg	Speed	0.0
Sub	segment Data	·				
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2112	-		-	60.3
<b>V</b> ehi	icle Results				<u>'</u>	
Average Speed, mi/h 60.3			Percent Followers	5, %	40.6	
Segment Travel Time, minutes 0.40		Follower Density,		2.2		
		В		,		
			Segm	ent 26		
<b>v</b> ehi	icle Inputs					
	ent Type	Passing Constrai	ned	Length, ft		9508
	Width, ft	12		Shoulder Width, f		6
	I Limit, mi/h	55		Access Point Den		1.0
	nand and Capacity			7.100000 7 0.1111 2 0.11	οι <i>λ</i> η <b>ρ</b> τοι	
	ional Demand Flow Rate, veh/h	323		Opposing Demar	nd Flow Rate, veh/h	-
	Hour Factor	0.87		Total Trucks, %		22.00
	ent Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.19
	rmediate Results			' '	, , ,	
	ent Vertical Class	1		Free-Flow Speed,	mi/h	61.7
	I Slope Coefficient	3.94044		Speed Power Coe		0.41674
•	ppe Coefficient	-1.28122		PF Power Coeffici		0.74821
	sing Lane Effective Length?	No		Total Segment De		2.7
	roved % Followers	0.0		% Improved Avg		0.0
	segment Data	1		1		
	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
_	Tangent	581	-		-	59.6
-	Horizontal Curve	2218	955	j	2	52.7
	Tangent	581	-		-	59.6
-	Horizontal Curve	106	235	)	2	32.7
5	Horizontal Curve	158	266	)	2	32.7
5	Tangent	53	-		-	59.6
7	Horizontal Curve	158	292	)	2	32.7
3	Tangent	158	-		-	59.6
		158   -   370   305				39.4

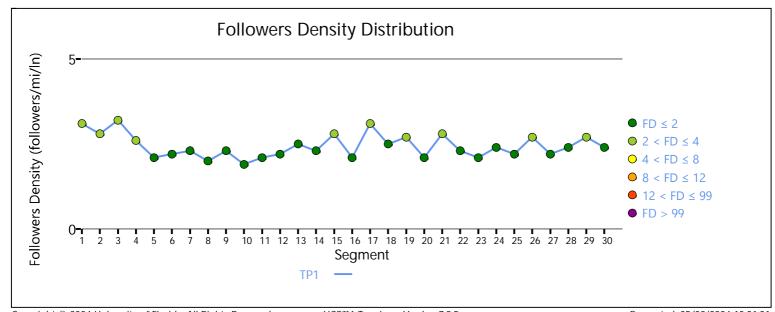
11	Tangent	317	-		-	59.6
12	Horizontal Curve	264	190		2	32.7
13	Tangent	53	-		-	59.6
14	Horizontal Curve	106	243		2	32.7
15	Tangent	106	-		-	59.6
16	Horizontal Curve	53	128	0	2	59.1
17	Tangent	106	-		-	59.6
18	Horizontal Curve	211 673			2	46.1
19	Tangent	53 -			-	59.6
20	Horizontal Curve	158 259			2	32.7
21	Tangent	370 -			-	59.6
22	Horizontal Curve	1373	716		2	46.1
23	Tangent	106	-		-	59.6
24	Horizontal Curve	634	143	3	2	59.1
25	Tangent	581	-		-	59.6
26	Horizontal Curve	370	615		2	46.1
Veh	icle Results					
Average Speed, mi/h 51.5				Percent Followers,	, %	42.3
 Segn	nent Travel Time, minutes	2.10	Follower Density		followers/mi/ln	2.7
Vehic	cle LOS	В				
		Se	gm	ent 27		
<b>V</b> eh	icle Inputs					
 Segn	nent Type	Passing Lanes		Length, ft		2851
Lane	Width, ft	12		Shoulder Width, ft	t	6
Spee	d Limit, mi/h	55	Access Point Density, pts/m		sity, pts/mi	0.0
Der	mand and Capacity					
 Direc	tional Demand Flow Rate, veh/h	323		Opposing Demand Flow Rate, veh/h		-
 Peak	Hour Factor	0.87		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1200		Demand/Capacity	(D/C)	0.27
Inte	ermediate Results					
Segn	nent Vertical Class	4		Free-Flow Speed,	mi/h	58.2
	d Slope Coefficient	11.62596		Speed Power Coef		1.07737
•	ope Coefficient	-1.09139		PF Power Coefficie		0.88720
	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.2
	proved % Followers	0.0		% Improved Avg S	-	0.0
Sub	segment Data			, ,	·	
#	Segment Type	Length, ft Rac		lius, ft	Superelevation, %	Average Speed, mi/h
	Horizontal Curve	1373	615		2	46.1
1					2	55.8
1	Horizontal Curve	317	254	8	<del>-</del>	33.0
	Horizontal Curve Tangent	317 211	254	8	-	55.8

Passii	ng Lane Results								
			Faster Lane	:		Slower Lane			
Flow Ra	ate, veh/h		197			126			
Percent	tage of Heavy Vehicles (HV%),	%	8.80			42.68			
Initial A	Average Speed (Sint), mi/h		60.0			53.8	53.8		
Average	e Speed at Midpoint (SPLmid)	, mi/h	61.9			51.9			
Percent	t Followers at Midpoint (PFPLr	nid), %	24.3			9.1			
Vehic	cle Results								
Average	e Speed, mi/h	47.9	)		Percent Followe	ers, %	33.0		
Segmei	nt Travel Time, minutes	0.68	3		Follower Densit	y, followers/mi/ln	2.2		
Vehicle	LOS	В							
				Segm	ent 28				
Vehic	cle Inputs								
 Segmei	nt Type	Pass	sing Constrai	ined	Length, ft		5861		
Lane Width, ft 12			Shoulder Width	ı, ft	6				
Speed Limit, mi/h 55					Access Point De	0.0			
Dema	and and Capacity								
Directional Demand Flow Rate, veh/h 323				Opposing Dema	and Flow Rate, veh/h	-			
Peak Hour Factor 0.87				Total Trucks, %		22.00			
Segmei	nt Capacity, veh/h	170	0		Demand/Capac	ity (D/C)	0.19		
Interi	mediate Results								
 Segmei	nt Vertical Class	1	Free-Flow Speed,		d, mi/h	62.0			
Speed S	Slope Coefficient	3.92	2432		Speed Power Coefficient		0.41674		
PF Slop	oe Coefficient	-1.2			PF Power Coefficient		0.76772		
In Passi	ing Lane Effective Length?	Yes			Total Segment Density, veh/mi/ln		2.4		
%Impro	oved % Followers	18.5	5		% Improved Av	g Speed	1.7		
Subs	egment Data								
# S	Segment Type	Len	gth, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h		
1 Ta	angent	634		-		-	59.9		
2 H	Horizontal Curve	121	4	573	}	2	46.1		
3 Ta	angent	53		-		-	59.9		
4 H	Horizontal Curve	950		573	}	2	46.1		
5 Ta	angent	301	0	-		-	59.9		
Vehic	cle Results								
Average	e Speed, mi/h	55.7	7		Percent Followe	ers, %	41.5		
		1.20	)		Follower Densit	y, followers/mi/ln	2.0		
Segmei	Vehicle LOS A								

				ı				
Segn	ment Type	Passing Constrained		Length, ft		1373		
Lane	Width, ft	12		Shoulder Width, f	t	6		
Spee	ed Limit, mi/h	55		Access Point Density, pts/mi 3.1				
Der	mand and Capacity							
Dired	ctional Demand Flow Rate, veh/h	323		Opposing Deman	d Flow Rate, veh/h	-		
Peak	Hour Factor	0.87		Total Trucks, %		22.00		
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.19		
Inte	ermediate Results							
Segn	nent Vertical Class	2		Free-Flow Speed,	mi/h	60.1		
Spee	ed Slope Coefficient	4.94053		Speed Power Coe	fficient	0.46648		
PF SI	ope Coefficient	-1.47554	-1.47554 I		ent	0.73416		
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	2.7		
%lm	proved % Followers	17.2		% Improved Avg	Speed	1.5		
Sub	osegment Data					·		
#	# Segment Type Length, ft Rad		lius, ft	Superelevation, %	Average Speed, mi/h			
1	Tangent	1373 -			-	57.6		
Ver	nicle Results							
Aver	age Speed, mi/h	58.5		Percent Followers	, %	47.5		
Segn	ment Travel Time, minutes	0.27		Follower Density,	followers/mi/ln	2.2		
Vehic	cle LOS	В						
		Se	gm	ent 30		·		
Ver	nicle Inputs							
	nent Type	Passing Constrained		Length, ft		6442		
	Width, ft	12		Shoulder Width, ft		6		
	ed Limit, mi/h	55		Access Point Density, pts/mi		0.0		
Der	mand and Capacity							
	ctional Demand Flow Rate, veh/h	323		Onnosing Deman	d Flow Rate, veh/h	T <sub>-</sub>		
	Hour Factor	0.87		Total Trucks, %	u How Rate, ven/II	22.00		
	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.19		
	ermediate Results	1700		Demand/Capacity	(D/C)	0.17		
		1		Froe Flow Speed	mi/h	62.0		
	nent Vertical Class	1		Free-Flow Speed,		+		
	ed Slope Coefficient	3.92956		Speed Power Coe PF Power Coefficie		0.41674		
	issing Lane Effective Length?	Yes		Total Segment De		2.4		
	proved % Followers	12.9		% Improved Avg S		0.5		
		12.7		% improved Avg .	<del></del>	0.5		
	osegment Data	I				1		
#	Segment Type	Length, ft		lius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	2957	-		-	59.9		
2 his c	Horizontal Curve Hocument was created by an app	739 Dication that isn't licens	573 sed t		0	39.4		
This document was created by an application that isn't licensed Purchase a license to generate PDF files without this notice.					0	52.7		

4	Tangent		1637	-		-	59.9		
Veh	Vehicle Results								
Average Speed, mi/h 56.6			Pei	cent Followers	, %	41.5			
Segment Travel Time, minutes		1.29	Fo	Follower Density, followers/mi/ln 2.1		2.1			
Vehic	cle LOS		В						
Fac	Facility Results								
	T Follower Density, followers/mi/ln			n		LOS			
	1		2.5			В			





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility I (NB) - FUTURE.xuf Generated: 05/02/2024 10:31:01

		HCS7 Two	o-Lane	Highway Re	eport	
Pro	pject Information		_			
Anal	lyst			Date		4/14/2024
Age				Analysis Year		2024
	sdiction			Time Analyzed		
Proj	ect Description	Port Orford sout	h UGB to	Units		U.S. Customary
_	·	Gold Beach north	n UGB			
			Segr	nent 1		
Vel	hicle Inputs					
Segr	ment Type	Passing Constrain	ned	Length, ft		2746
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	Limit, mi/h 55		Access Point Dens	sity, pts/mi	0.0	
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	336		Opposing Deman	d Flow Rate, veh/h	-
Peak	K Hour Factor	0.87		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1700			(D/C)	0.20
Int	ermediate Results					
Segment Vertical Class		1		Free-Flow Speed,	mi/h	62.0
Speed Slope Coefficient		3.89011		Speed Power Coe	fficient	0.41674
PF S	Slope Coefficient	-1.31685		PF Power Coefficie	ent	0.76212
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.6
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1637	-		-	59.8
2	Horizontal Curve	1109	873	3	0	52.7
Vel	hicle Results	•				
Aver	rage Speed, mi/h	57.0		Percent Followers	, %	43.6
Segr	ment Travel Time, minutes	0.55		Follower Density, followers/mi/ln		2.6
Vehi	icle LOS	В		,		
		<u>'</u>	Segr	nent 2		
Vel	hicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1795
Lane Width, ft 12			Shoulder Width, ft		6	
Spe	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity			<u>'</u>		
	ctional Demand Flow Rate, veh/h	336		Opposing Deman	d Flow Rate, veh/h	323
Peak	K Hour Factor	0.87		Total Trucks, %		22.00
		<del></del>		to use novaPDF. / (D/C)		0.20

Sea	ment Vertical Class	1		Free-Flow Speed,	mi/h	62.0
Spe	ed Slope Coefficient	3.66073		Speed Power Coe	efficient	0.51058
PF S	lope Coefficient	-1.29164		PF Power Coefficient		0.79155
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.7
%lm	proved % Followers	0.0	0.0		Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	739	573		0	39.4
2	Tangent	1056	-		-	60.2
<b>V</b> el	nicle Results					
Ave	rage Speed, mi/h	51.6		Percent Followers	5, %	42.0
Segment Travel Time, minutes		0.39		Follower Density,	followers/mi/ln	2.7
Veh	icle LOS	В		r energy renergers minimum		
			Segn	nent 3		
<b>V</b> el	nicle Inputs					
Seg	ment Type	Passing Constrai	ned	Length, ft		950
Lane Width, ft		12		Shoulder Width, f	ft	6
Speed Limit, mi/h		55		Access Point Den	sity, pts/mi	5.6
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	336		Opposing Demar	nd Flow Rate, veh/h	-
Peal	K Hour Factor	0.87		Total Trucks, %		22.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.20
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	60.6
Spe	ed Slope Coefficient	3.79147		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.38900		PF Power Coeffici	ent	0.74041
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.6
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	950	-		-	58.5
<b>V</b> el	nicle Results	·			<u>'</u>	
Average Speed, mi/h		58.5		Percent Followers	5, %	46.1
Seg	ment Travel Time, minutes	0.18		Follower Density,	followers/mi/ln	2.6
Veh	icle LOS	В				
			Segn	nent 4		
	nicle Inputs					
VΔI						

Lane Width, ft 12					Shoulder Width, ft	t	Shoulder Width, ft		
Spee	ed Limit, mi/h	55			Access Point Dens	ity, pts/	mi	1.7	
Der	mand and Capacity								
Direc	ctional Demand Flow Rate, veh/h	336			Opposing Demand	d Flow F	Rate, veh/h	-	
Peak	Hour Factor	0.87	7		Total Trucks, %			22.00	
Segn	nent Capacity, veh/h	130	0		Demand/Capacity	(D/C)		0.26	
Inte	ermediate Results								
Segn	nent Vertical Class	3			Free-Flow Speed, mi/h			58.5	
Spee	ed Slope Coefficient	9.39	9564		Speed Power Coef	fficient		1.05207	
PF SI	ope Coefficient	-0.8	4408		PF Power Coefficie	ent		0.66141	
In Passing Lane Effective Length? No				Total Segment De	nsity, ve	h/mi/ln	2.0		
%Improved % Followers 0.0				% Improved Avg S	Speed		0.0		
Sub	osegment Data							·	
#	Segment Type	Len	gth, ft	Rad	lius, ft	Supere	elevation, %	Average Speed, mi/h	
1	Tangent	311	5		-		56.5		
Pas	sing Lane Results								
Faster Lane						SI	ower Lane		
Flow	Rate, veh/h		204			13	32		
Perce	entage of Heavy Vehicles (HV%), %		8.80			42	2.44		
Initia	ıl Average Speed (Sint), mi/h		59.9			54	1.9		
Aver	age Speed at Midpoint (SPLmid), m	i/h	61.8			53	3.0		
Perce	ent Followers at Midpoint (PFPLmid)	, %	26.6			18.7			
Veh	nicle Results								
Aver	age Speed, mi/h	56.5	5		Percent Followers, % 33.6			33.6	
Segn	nent Travel Time, minutes	0.63	3		Follower Density, followers/mi/ln			2.0	
3									
Vehic	cle LOS	A							
Vehic	cle LOS	A	Se	egn	nent 5				
	nicle Inputs	A	Se	gm	nent 5				
Veh			Season Se	egm	nent 5			6019	
<b>Veh</b> Segn	nicle Inputs			egm				6019	
<b>Veh</b> Segn	nicle Inputs nent Type	Pas		egm	Length, ft		mi		
Veh Segn Lane Spee	nicle Inputs nent Type Width, ft	Pas 12		egm	Length, ft Shoulder Width, ft		mi	6	
Veh Segn Lane Spee	nicle Inputs  nent Type  Width, ft  ed Limit, mi/h	Pas 12	sing Constrained	egm	Length, ft Shoulder Width, ft	ity, pts/		6	
Veh Segn Lane Spee Der	nicle Inputs  ment Type  Width, ft  ed Limit, mi/h  mand and Capacity	Pas 12 55	sing Constrained	egm	Length, ft Shoulder Width, ft Access Point Dens	ity, pts/		0.0	
Veh Segn Lane Spee Der Direc	nicle Inputs  nent Type  Width, ft  Ed Limit, mi/h  mand and Capacity  Ctional Demand Flow Rate, veh/h	Pas 12 55 336	sing Constrained	egm	Length, ft Shoulder Width, ft Access Point Dens Opposing Demand	ity, pts/		6 0.0	
Veh Segn Lane Spee Der Direc Peak Segn	nicle Inputs  nent Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  Hour Factor	Pas 12 55 336 0.83	sing Constrained	egm	Length, ft Shoulder Width, ft Access Point Dens Opposing Demand Total Trucks, %	ity, pts/		- 22.00	
Veh Segn Lane Spee Der Direct Peak Segn Inte	nicle Inputs  nent Type  Width, ft  ed Limit, mi/h  mand and Capacity  ctional Demand Flow Rate, veh/h  Hour Factor  nent Capacity, veh/h	Pas 12 55 336 0.83	sing Constrained	egm	Length, ft Shoulder Width, ft Access Point Dens Opposing Demand Total Trucks, %	d Flow F		- 22.00	
Veh Segn Lane Spee Der Direct Peak Segn Inte	nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity etional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results	Pas 12 55 336 0.87 170	sing Constrained	egm	Length, ft Shoulder Width, ft Access Point Dens Opposing Demand Total Trucks, % Demand/Capacity	d Flow F (D/C)		- 22.00 0.20	

Sub				% Improved Avg Speed		2.0
<b>-</b>	segment Data					
#	Segment Type	Length, ft	Rad	dius, 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	3	2	46.1
5	Tangent	634	-		-	59.8
6	Horizontal Curve	950	716		2	46.1
Veh	icle Results					
Avera	age Speed, mi/h	53.8		Percent Follow	ers, %	42.4
	nent Travel Time, minutes	1.27			ity, followers/mi/ln	2.2
Vehicle LOS		В			<u>.                                    </u>	
			Sean	nent 6		
			Jegi			
Veh	nicle Inputs					
Segn	nent Type	Passing Constrai	assing Constrained Le			2270
Lane Width, ft		12		Shoulder Widt	h, ft	6
Speed Limit, mi/h		55		Access Point D	ensity, pts/mi	0.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	336		Opposing Den	nand Flow Rate, veh/h	-
Peak	Hour Factor	0.87		Total Trucks, %	,	22.00
Segn	nent Capacity, veh/h	1700		Demand/Capa	city (D/C)	0.20
Inte	ermediate Results					
Segn	nent Vertical Class	3		Free-Flow Spe	ed, mi/h	58.5
Spee	d Slope Coefficient	8.62180			Coefficient	0.62110
PF SI	ope Coefficient	-1.36937		PF Power Coefficient		0.76552
n Pa	ssing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	3.1
%lm <sub>l</sub>	oroved % Followers	16.7		% Improved A	vg Speed	1.7
Sub	segment Data					<u>'</u>
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
 1	Tangent	211	-	,	-	55.0
2	Horizontal Curve	317	254	<u> </u>	2	55.0
3	Horizontal Curve	1742	615		2	46.1
		17.12			1-	1.6.1
	icle Results					
	age Speed, mi/h	49.0		Percent Follow		44.8
Segment Travel Time, minutes		0.53		Follower Densi	ity, followers/mi/ln	2.6
	cle LOS	В				

Segr	ment Type	Passing Constrain	Passing Constrained			8293
Lane	e Width, ft	12		Shoulder Width, ft		6
Spe	ed Limit, mi/h	55		Access Point De	ensity, pts/mi	2.5
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	336		Opposing Dem	and Flow Rate, veh/h	-
Peak	Hour Factor	0.87		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.20
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Spee	d, mi/h	61.3
Spe	ed Slope Coefficient	3.91099		Speed Power Co	pefficient	0.41674
PF S	lope Coefficient	-1.27917		PF Power Coeff	icient	0.75540
In Pa	assing Lane Effective Length?	Yes		Total Segment I	Density, veh/mi/ln	2.8
%lm	proved % Followers	11.9		% Improved Av	g Speed	0.4
Sul	osegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	581	-		-	59.2
2	Horizontal Curve	634	143	3	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	128	0	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
Veł	nicle Results					
Aver	rage Speed, mi/h	51.2		Percent Followe	ers, %	42.9
Average Speed, mi/h    51.2					2.5	

venic	cle LOS	В				
			Seg	ment 8		
Veh	icle Inputs					
Segn	Segment Type Passing Zone			Length, ft		2112
Lane	Width, ft	12		Shoulder Wid	h, ft	6
Speed Limit, mi/h 55		Access Point D	ensity, pts/mi	2.5		
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	336		Opposing Der	nand Flow Rate, veh/h	323
Peak	Hour Factor	0.87		Total Trucks, %	)	22.00
Segn	nent Capacity, veh/h	1700		Demand/Capa	city (D/C)	0.20
Inte	ermediate Results			-		
Segn	nent Vertical Class	1		Free-Flow Spe	ed, mi/h	61.3
Spee	d Slope Coefficient	3.63193		Speed Power	Coefficient	0.51058
PF SI	ope Coefficient	-1.28281		PF Power Coe	ficient	0.79449
In Passing Lane Effective Length?		Yes	Yes		Density, veh/mi/ln	2.4
%Improved % Followers		11.0		% Improved A	vg Speed	0.1
Sub	segment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	264	9	55	2	52.7
2	Tangent	1848	-		-	59.6
Veh	icle Results					
Avera	age Speed, mi/h	58.8		Percent Follov	ers, %	41.7
Segn	nent Travel Time, minutes	0.41		Follower Dens	ity, followers/mi/ln	2.1
Vehic	cle LOS	В				
			Seg	ment 9		
Veh	icle Inputs					
Segn	nent Type	Passing Constra	ined	Length, ft		1848
Lane	Width, ft	12		Shoulder Wid	h, ft	6
Spee	d Limit, mi/h	55		Access Point D	ensity, pts/mi	0.0
Der	mand and Capacity					
Direc	tional Demand Flow Rate, veh/h	336		Opposing Der	nand Flow Rate, veh/h	-
Peak	Hour Factor	0.87		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capa	city (D/C)	0.20
Inte	ermediate Results			·		
Segn	nent Vertical Class	1		Free-Flow Spe	ed, mi/h	62.0
Spee	d Slope Coefficient	3.87678		Speed Power	Coefficient	0.41674
PF SI	ope Coefficient	-1.34801		PF Power Coe	ficient	0.75252
In Pa	ssing Lane Effective Length?	Yes		Total Segment	Density, veh/mi/ln	2.5
		1	_	T		0.0

_	bsegment Data	1		l' 6'	0 - 1 - 11 - 21	
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1848	-		-	59.8
<b>V</b> el	hicle Results					
Ave	rage Speed, mi/h	59.8		Percent Follo	owers, %	44.7
Seg	ment Travel Time, minutes	0.35		Follower Der	nsity, followers/mi/ln	2.3
Veh	icle LOS	В				
			Segm	ent 10		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		3010
Lane	e Width, ft	12		Shoulder Wi	dth, ft	6
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	336		Opposing D	emand Flow Rate, veh/h	323
Peal	k Hour Factor	0.87	0.87		%	22.00
Seg	ment Capacity, veh/h	1700		Demand/Ca	pacity (D/C)	0.20
Int	ermediate Results					
Segment Vertical Class 2		Free-Flow Sp	peed, mi/h	61.1		
Spe	ed Slope Coefficient	4.96623		Speed Powe	r Coefficient	0.59071
PF S	Slope Coefficient	-1.23508		PF Power Co	efficient	0.80490
In Pa	assing Lane Effective Length?	Yes		Total Segme	nt Density, veh/mi/ln	2.3
%lm	nproved % Followers	9.2		% Improved	Avg Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3010	-		-	59.0
Vel	hicle Results					
Ave	rage Speed, mi/h	59.0		Percent Followers, %		40.1
Seg	ment Travel Time, minutes	0.58		Follower Density, followers/mi/ln		2.1
Veh	icle LOS	В				
			Segm	ent 11		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		2270
Lane	e Width, ft	12		Shoulder Wi	dth, ft	6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	336		Opposing D	emand Flow Rate, veh/h	323
Peak Hour Factor 0.87		0.87		Total Trucks,	%	22.00
Peal	Segment Capacity, veh/h 1700					

Int	ermediate Results					
Seg	ment Vertical Class	2		Free-Flow Speed,	mi/h	61.1
Spe	ed Slope Coefficient	4.86561		Speed Power Coe	fficient	0.58815
PF S	lope Coefficient	cient -1.26387 P		PF Power Coefficie	ent	0.79743
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	2.3
%lm	proved % Followers	8.5		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2270	-		-	59.1
Vel	nicle Results				<u>'</u>	
Avei	rage Speed, mi/h	59.1		Percent Followers	, %	41.1
Seg	ment Travel Time, minutes	0.44		Follower Density,	followers/mi/ln	2.1
Vehi	icle LOS	В				
			Segm	nent 12		
Vel	nicle Inputs					
Segi	ment Type	Passing Constraine	·d	Length, ft		3907
Lane	e Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h		55		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity					,
Dire	ctional Demand Flow Rate, veh/h	336		Opposing Deman	d Flow Rate, veh/h	-
Peal	Hour Factor	0.87		Total Trucks, %		22.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.20
Int	ermediate Results					<u> </u>
Segi	ment Vertical Class	2		Free-Flow Speed,	mi/h	60.7
	ed Slope Coefficient	5.44376			fficient	0.47984
	lope Coefficient	-1.34497			ent	0.75568
	assing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		2.7
%lm	proved % Followers	7.4		% Improved Avg Speed		0.0
Sul	bsegment Data					<b>'</b>
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-		-	58.0
2	Horizontal Curve	686	143	32	2	58.0
3	Tangent	1320	-		-	58.0
4	Horizontal Curve	792	716	 5	2	46.1
5	Tangent	634	-		-	58.0
Vel	nicle Results					
Ave	rage Speed, mi/h	55.6		Percent Followers	, %	44.5
Seg	ment Travel Time, minutes	0.80		Follower Density,	followers/mi/ln	2.5
	icle LOS	В				

		Segn	ment 13		
Vehicle Inputs					
Segment Type	Passing Constrai	Passing Constrained			4488
Lane Width, ft 12		Shoulder Width, f	t	6	
Speed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	312		Opposing Deman	d 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 Coef	fficient	0.48185
PF Slope Coefficient	-1.33390		PF Power Coefficie	ent	0.75686
In Passing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	2.4
%Improved % Followers	6.5		% Improved Avg \$	% Improved Avg Speed	
Subsegment Data					
# Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1 Horizontal Curve	1214	66	59	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	0.93		followers/mi/ln	2.3
Vehicle LOS	В	В			
	'	Segn	ment 14		
Vehicle Inputs					
Segment Type	Passing Constrai	ned	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 Deman	d 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 Coef		0.60449
PF Slope Coefficient	-1.59828		PF Power Coefficie		0.74511
In Passing Lane Effective Length?	Yes		Total Segment De		3.2
%Improved % Followers	5.7		% Improved Avg S	0.0	

#	Segment Type	Length, ft	Length, ft Radius		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
Ver	nicle Results					
Aver	age Speed, mi/h	48.1		Percent Followe	ers, %	48.9
 Segr	nent Travel Time, minutes	0.86		Follower Densit	y, followers/mi/ln	3.0
Vehi	cle LOS	В				
			Segm	ent 15		
Ver	nicle Inputs					
 Segr	nent Type	Passing Constrain	ned	Length, ft		5439
Lane	Width, ft	12		Shoulder Width	, ft	6
Speed Limit, mi/h 55			Access Point De	ensity, pts/mi	1.0	
Der	mand and Capacity					<u>'</u>
Directional Demand Flow Rate, veh/h 312			Opposing Dema	and Flow Rate, veh/h	-	
Peak	Hour Factor	0.94		Total Trucks, %		22.00
Segr	nent Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.18
Inte	ermediate Results					
Segr	nent Vertical Class	5		Free-Flow Spee	d, mi/h	52.2
Spee	d Slope Coefficient	15.26525		Speed Power Coefficient		0.57177
PF SI	ope Coefficient	-1.88067	-1.88067		cient	0.85124
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		3.4
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	lius, 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	163	37	0	46.0
5	Tangent	264	-		-	46.0
6	Horizontal Curve	898	958		2	46.0
7	Horizontal Curve	1056	143	2	2	46.0
8	Tangent	898	-		-	46.0
Ver	nicle Results					
Average Speed, mi/h 46.0			Percent Followe	50.2		
Aver	Seament Travel Time, minutes 1.34					

			Segn	nent 16		
Veł	nicle Inputs					
Segment Type Passing Constrained		Length, ft		2270		
Lane	e Width, ft	12		Shoulder Width, f		6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	2.3
Dei	mand and Capacity			•		
Dire	ctional Demand Flow Rate, veh/h	312		Opposing Demar	nd Flow Rate, veh/h	-
Peak	K Hour Factor	0.94		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.18
Int	ermediate Results	<u>'</u>		<u>'</u>		
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.4
Spe	ed Slope Coefficient	3.85221		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.33684		PF Power Coeffici	ent	0.75639
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.2
%Improved % Followers		0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data	·				
#	Segment Type	Length, ft Rad		dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1056	14	32	2	59.1
2	Tangent	1214	-		-	59.4
Vel	nicle Results				'	
Aver	rage Speed, mi/h	59.2		Percent Followers	. %	42.5
	ment Travel Time, minutes	0.44		Follower Density,	2.2	
	icle LOS	В		, and a single		
			Sean	nent 17		
— Veł	nicle Inputs					
	•	Passing Constraine		Longth ft		3011
	ment Type e Width, ft	Passing Constraine	ea	Length, ft		6
	ed Limit, mi/h	55		Shoulder Width, ft  Access Point Density, pts/mi		1.8
		55		Access Foint Den	sity, pts/iiii	1.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	312		Opposing Demar	nd Flow Rate, veh/h	-
Peak	K Hour Factor	0.94		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.18
Int	ermediate Results					
Segr	ment Vertical Class	4		Free-Flow Speed,	mi/h	55.0
Spe	ed Slope Coefficient	10.19086		Speed Power Coe	efficient	0.61969
PF S	lope Coefficient	-1.57720		PF Power Coeffici	ent	0.72814
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	3.0
_	proved % Followers	0.0		% Improved Avg		0.0

Purchase a license to generate PDF files without this notice.

#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
l	Horizontal Curve	1373	881		2	51.1
2	Tangent	106	-		-	51.1
3	Horizontal Curve	898	955		2	51.1
1	Tangent	634	-		-	51.1
Ve	hicle Results					
Average Speed, mi/h		51.1		Percent Follo	wers, %	49.1
Seg	ment Travel Time, minutes	0.67		Follower Den	sity, followers/mi/ln	3.0
Veh	icle LOS	В				
			Segm	ent 18		
Ve	hicle Inputs					
Seg	ment Type	Passing Constrain	ned	Length, ft		11298
Lan	e Width, ft	12		Shoulder Wic	lth, ft	6
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	1.9
De	mand and Capacity					·
Dire	ectional Demand Flow Rate, veh/h	323		Opposing De	mand Flow Rate, veh/h	-
Peak Hour Factor		0.90		Total Trucks, %		22.00
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.19
Int	ermediate Results	<u>'</u>		<u>'</u>		
Seg	ment Vertical Class	1		Free-Flow Sp	eed, mi/h	61.5
Spe	ed Slope Coefficient	3.94068		Speed Power Coefficient		0.41674
PF S	Slope Coefficient	-1.29627	-1.29627		efficient	0.73316
In P	assing Lane Effective Length?	No		Total Segmer	nt Density, veh/mi/ln	2.7
%In	nproved % Followers	0.0		% Improved	Avg Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1109	955		2	52.7
2	Horizontal Curve	898	143	2	2	59.1
3	Tangent	53	-		-	59.4
4	Horizontal Curve	1056	573	1	2	46.1
5	Tangent	211	-		-	59.4
6	Horizontal Curve	1373	143	2	2	59.1
7	Tangent	739	-			59.4
8	Horizontal Curve	686	716	)	2	46.1
<u> </u>	Tangent	158	-		-	59.4
9	Horizontal Curve	686	716	)	2	46.1
	Tangent	53	-			59.4
10	langent	700	111	5	2	52.7
10 11	Horizontal Curve	792	- 1			
10 11 12		739	573		2	46.1
9 10 11 12 13	Horizontal Curve	_			-	46.1 59.4

16	Horizontal Curve	686	651		2	46.1
17	Tangent	158	001		-	59.4
18	Horizontal Curve	739	573		2	46.1
	icle Results	137	373			40.1
		Teac		la	24	1.00
	age Speed, mi/h	52.2		Percent Followers,		43.2
	nent Travel Time, minutes	2.46		Follower Density,	followers/mi/ln	2.7
Vehic	le LOS	В				
			Segm	ent 19		
Veh	icle Inputs					
Segn	nent Type	Passing Constrained	t	Length, ft		2534
Lane	Width, ft	12		Shoulder Width, ft		6
Spee	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	0.0
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	323		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.90		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.19
Inte	rmediate Results					
Segn	nent Vertical Class	3		Free-Flow Speed,	mi/h	58.5
Speed Slope Coefficient		8.72982		Speed Power Coef	ficient	0.62395
PF Slope Coefficient		-1.35826		PF Power Coefficie	ent	0.76671
In Passing Lane Effective Length?		No		Total Segment De	nsity, veh/mi/ln	2.6
%lmp	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rad	lius, ft Superelevation, %		Average Speed, mi/h
1	Horizontal Curve	950	127	3 2		55.1
2	Tangent	1584	-		-	55.1
Veh	icle Results					
Avera	age Speed, mi/h	55.1		Percent Followers,	%	43.5
Segn	nent Travel Time, minutes	0.52		Follower Density, followers/mi/ln		2.6
Vehic	le LOS	В				
			Segm	ent 20		•
Veh	icle Inputs					
	nent Type	Passing Constrained		Length, ft		1478
Lane Width, ft 12				Shoulder Width, ft		6
	d Limit, mi/h	55		Access Point Dens		3.6
Der	nand and Capacity					
	tional Demand Flow Rate, veh/h	323		Opposing Deman	d Flow Rate, veh/h	-
Direc				Total Trucks, %		22.00
	Hour Factor	0.90	sn't licensed to use novaPDF. / (D/C)			

Segr	ment Vertical Class	1		Free-Flow Sp	eed, mi/h	61.1
Spee	ed Slope Coefficient	3.82157		Speed Power	Coefficient	0.41674
PF S	lope Coefficient	-1.37491		PF Power Co	efficient	0.74454
In Pa	assing Lane Effective Length?	No		Total Segmer	nt Density, veh/mi/ln	2.5
%lm	proved % Followers	0.0		% Improved	Avg Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1478	143	32	2	59.0
Ver	nicle Results	<u> </u>				
Aver	age Speed, mi/h	59.0		Percent Follo	 wers, %	44.7
<u> </u>		Follower Den	sity, followers/mi/ln	2.5		
Vehicle LOS B						
			Segm	nent 21		
Ver	nicle Inputs					
		Length, ft		3116		
_	e Width, ft	-		Shoulder Wid	dth, ft	6
	ed Limit, mi/h				Density, pts/mi	0.0
	mand and Capacity				3.1	
	ctional Demand Flow Rate, veh/h	323		Opposing De	emand Flow Rate, veh/h	299
	Hour Factor	0.90		Total Trucks,		22.00
Segr	ment Capacity, veh/h	1700		Demand/Cap	pacity (D/C)	0.19
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Sp	eed, mi/h	62.0
	ed Slope Coefficient	3.67269		Speed Power Coefficient		0.51543
	lope Coefficient	-1.24699		PF Power Coefficient		0.80693
	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.1
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
	osegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	370	143		2	59.1
2	Tangent	2746	-		-	60.3
Ver	nicle Results	<u> </u>				
Aver	age Speed, mi/h	60.1		Percent Follo	wers, %	39.4
	ment Travel Time, minutes	0.59			sity, followers/mi/ln	2.1
	cle LOS	В	25.25.37, 5.50.50.37.11			
			Segm	nent 22		
	nicle Inputs					
V/AL						

Lan	e Width, ft	12		Shoulder Width	n, ft	6
Spe	ed Limit, mi/h	55		Access Point De	ensity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	339		Opposing Dem	and Flow Rate, veh/h	-
Pea	k Hour Factor	0.85		Total Trucks, %		22.00
Seg	ment Capacity, veh/h	1700		Demand/Capac	city (D/C)	0.20
Int	ermediate Results			-		
Seg	ment Vertical Class	1		Free-Flow Spee	ed, mi/h	62.0
Spe	ed Slope Coefficient	3.88098		Speed Power C	oefficient	0.41674
PF S	Slope Coefficient	-1.33723		PF Power Coeff	icient	0.75596
In P	assing Lane Effective Length?	No		Total Segment	Density, veh/mi/ln	2.5
%In	nproved % Followers	0.0		% Improved Av	g Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Length, ft Radius,		Superelevation, %	Average Speed, mi/h
1	Tangent	2112	2112 -		-	59.8
<b>V</b> e	hicle Results	<u>'</u>				
Ave	rage Speed, mi/h	59.8		Percent Followe	ers, %	44.6
Seg	ment Travel Time, minutes	0.40		Follower Density, followers/mi/ln		2.5
Veh	icle LOS	В				
			Segn	nent 23		
<b>V</b> e	hicle Inputs					
Sea	ment Type	Passing Zone		Length, ft		3432
	e Width, ft	12		Shoulder Width	n. ft	6
	ed Limit, mi/h	55		Access Point De		1.5
	mand and Capacity					
	ectional Demand Flow Rate, veh/h	339		Opposing Demand Flow Rate, veh/h		314
	k Hour Factor	0.85		Total Trucks, %		22.00
	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.20
	ermediate Results	1.700		2 omanar sapat	, (2, 3)	0.20
	ment Vertical Class	1		Free-Flow Spee	ed. mi/h	61.6
	ed Slope Coefficient	3.66079		Speed Power C		0.51233
	Slope Coefficient	-1.24542		PF Power Coeff		0.80683
	assing Lane Effective Length?	No			Density, veh/mi/ln	2.3
	nproved % Followers	0.0		% Improved Av		0.0
	bsegment Data				3 11 11 11	
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3432	-		-	59.8
	hicle Results					
				1		
his	document was created by an applace a license to generate PDF			to use <u>novaPDF</u>	. , %	40.6

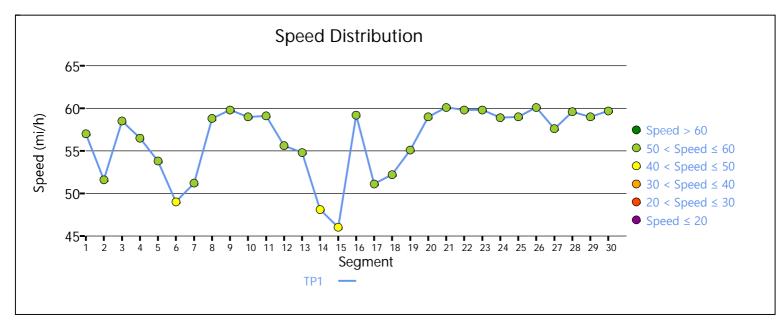
Segment Travel Time, minutes 0.65				Follower Density,	followers/mi/ln	2.3
Vehic	cle LOS	В				
			Segn	nent 24		
Ver	nicle Inputs					
Segment Type Passing Constrained		Length, ft		2746		
Lane	Width, ft	12		Shoulder Width, f	it	6
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.8
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	339		Opposing Deman	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.85		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.20
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.0
Spee	d Slope Coefficient	3.83862		Speed Power Coe	fficient	0.41674
PF SI	ope Coefficient	-1.32551		PF Power Coeffici	entent	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
Suk	segment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2746 -			-	58.9
Ver	nicle Results					
Aver	age Speed, mi/h	58.9		Percent Followers	s, %	44.1
Segn	nent Travel Time, minutes	0.53		Follower Density, followers/mi/ln		2.5
Vehi	cle LOS	В	В			
			Segn	nent 25		
Ver	nicle Inputs					
Segn	nent Type	Passing Zone		Length, ft		2059
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	348		Opposing Deman	nd Flow Rate, veh/h	322
Peak	Hour Factor	0.87		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.20
Inte	ermediate Results					
Segn	nent Vertical Class	2		Free-Flow Speed,	mi/h	61.2
Spee	d Slope Coefficient	4.83250		Speed Power Coe	fficient	0.58769
PF SI	ope Coefficient	-1.27423		PF Power Coeffici	ent	0.79474
In Do	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.5
III Pa						

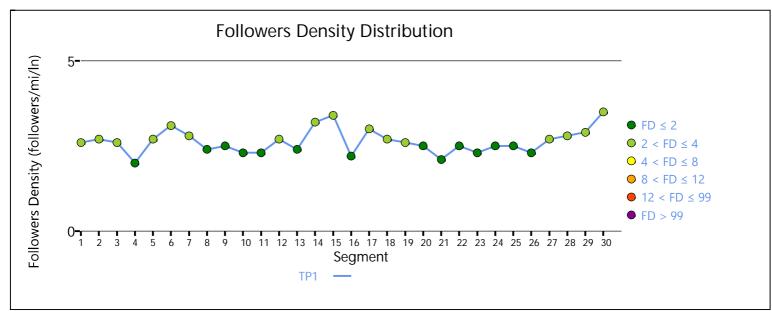
_	bsegment Data							
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	2059	-		-	59.0		
Vel	hicle Results							
Ave	rage Speed, mi/h	59.0		Percent Follo	wers, %	42.4		
Seg	ment Travel Time, minutes	0.40		Follower Den	sity, followers/mi/ln	2.5		
Veh	icle LOS	В						
			Segm	ent 26				
<b>V</b> el	hicle Inputs							
Seg	ment Type	Passing Zone		Length, ft		5597		
Lane	e Width, ft	12	12		dth, ft	6		
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	0.0		
De	mand and Capacity							
Dire	ectional Demand Flow Rate, veh/h	348		Opposing De	emand Flow Rate, veh/h	322		
Peal	k Hour Factor	0.87	0.87		%	22.00		
Seg	ment Capacity, veh/h	1700 Demand/Capacity (D/C)		0.20				
Int	ermediate Results							
Seg	ment Vertical Class	ass 1		Free-Flow Sp	eed, mi/h	62.0		
Spe	ed Slope Coefficient	3.70634		Speed Power	Coefficient	0.51080		
PF S	Slope Coefficient	-1.22069	-1.22069		efficient	0.81007		
In Pa	assing Lane Effective Length?	No		Total Segmer	nt Density, veh/mi/ln	2.3		
%lm	nproved % Followers	0.0		% Improved	Avg Speed	0.0		
Sul	bsegment Data							
#	Segment Type	Length, ft	Rac	us, ft Superelevation, %		Average Speed, mi/h		
1	Tangent	5597	-		-	60.1		
<b>V</b> el	hicle Results							
Ave	rage Speed, mi/h	60.1		Percent Followers, %		40.5		
Seg	ment Travel Time, minutes	1.06		Follower Density, followers/mi/ln		2.3		
Veh	icle LOS	В						
			Segm	ent 27				
<b>V</b> el	hicle Inputs							
Seg	ment Type	Passing Constrain	ned	Length, ft		3485		
Lane	e Width, ft	12		Shoulder Wid	dth, ft	6		
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	9.1		
De	mand and Capacity							
Dire	ectional Demand Flow Rate, veh/h	348		Opposing De	emand Flow Rate, veh/h	-		
		0.87		Total Trucks,	%	22.00		
Peal	Seament Capacity, veh/h 1700			Demand/Capacity (D/C) 0.20				

Seg	ment Vertical Class	1		Free-Flow Speed	, mi/h	59.7
Spe	ed Slope Coefficient	3.77620		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.32009		PF Power Coefficient		0.76077
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.7
%lm	proved % Followers	oved % Followers 0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1584	229	92	2	57.6
2	Tangent	1901	-		-	57.6
<b>V</b> el	nicle Results		·			
Ave	rage Speed, mi/h	57.6		Percent Followers	s, %	44.7
Seg	ment Travel Time, minutes	0.69		Follower Density,	followers/mi/ln	2.7
Veh	icle LOS	В				
			Segm	ent 28		
<b>V</b> el	nicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		3379
	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	1.6
De	mand and Capacity			<u>'</u>		
Dire	ctional Demand Flow Rate, veh/h	385		Opposing Demar	nd Flow Rate, veh/h	356
	Hour Factor	0.84		Total Trucks, %		22.00
Seg	ment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.23
Int	ermediate Results	<u> </u>		·		1
Seg	ment Vertical Class	1		Free-Flow Speed, mi/h 61.6		
Spe	ed Slope Coefficient	3.67064		Speed Power Coe	efficient	0.50439
PF S	lope Coefficient	-1.25313		PF Power Coeffic	ient	0.80413
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.8
%Im	proved % Followers	0.0		% Improved Avg Speed		0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3379	-		-	59.6
<b>V</b> el	nicle Results					
Ave	rage Speed, mi/h	59.6		Percent Followers	s, %	44.1
	ment Travel Time, minutes	0.64		Follower Density,		2.8
Veh	icle LOS	В				
			Segm	ent 29		
ام\	nicle Inputs					
A C	noic inputs					

Lane	e Width, ft	12		Shoulder Wi	dth, ft	6
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	4.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	385		Opposing Demand Flow Rate, veh/h		356
Peak	Hour Factor	0.84		Total Trucks,	%	22.00
Segr	ment Capacity, veh/h	1700		Demand/Ca	pacity (D/C)	0.23
Int	ermediate Results					
Segr	Segment Vertical Class 1 Fr		Free-Flow Sp	peed, mi/h	61.0	
Spe	ed Slope Coefficient	3.70133		Speed Powe	r Coefficient	0.50439
PF S	lope Coefficient	-1.24094		PF Power Co	efficient	0.77740
In Pa	assing Lane Effective Length?	No		Total Segme	nt Density, veh/mi/ln	2.9
%lm	proved % Followers	0.0		% Improved	Avg Speed	0.0
Sul	osegment Data					·
#	Segment Type	Length, ft Radius		dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	11774			-	59.0
Vel	nicle Results					_
Average Speed, mi/h		59.0		Percent Follo	owers, %	44.6
Segment Travel Time, minutes		2.27	2.27		nsity, followers/mi/ln	2.9
	cle LOS	В				
			Sean	nent 30		
\/_L	alala kamusta					
	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		10771
Lane	e Width, ft	12		Shoulder Wi		6
Spe	ed Limit, mi/h	55		Access Point	Density, pts/mi	0.5
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	434		Opposing Demand Flow Rate, veh/h		402
Peak	Hour Factor	0.90		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1700		Demand/Ca	pacity (D/C)	0.26
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Sp	peed, mi/h	61.8
Spe	ed Slope Coefficient	3.76107		Speed Powe	r Coefficient	0.49647
PF S	lope Coefficient	-1.24231		PF Power Co	efficient	0.77729
In Pa	assing Lane Effective Length?	No		Total Segme	nt Density, veh/mi/ln	3.5
%lm	proved % Followers	0.0		% Improved	Avg Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	10771	-		-	59.7
	nicle Results					

Segment Travel Time, minutes		2.05	Follower Density, followers/mi/ln		3.5			
Vehicle LOS		В						
Facility Results								
Т	Follower I	Follower Density, followers/mi/In		LOS				
1		2.6		В				





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility I (SB) - FUTURE.xuf Generated: 05/02/2024 10:33:17

		Н	CS7 Two-La	ine	Highway Re	еро	rt	
Pro	ject Information							
Anal	yst	Т			Date			4/27/2024
Age	ncy				Analysis Year		2024	
Juris	diction				Time Analyzed			
Proje	ect Description		okings north UGB t d Beach south UGB		Units			U.S. Customary
			Se	egm	nent 1			
Veł	nicle Inputs							
Segment Type Passing Lanes		sing Lanes		Length, ft			5809	
Lane	ane Width, ft 12		Shoulder Width, ft	t		6		
Spe	ed Limit, mi/h	55			Access Point Dens	sity, pt	ts/mi	0.0
Dei	mand and Capacity							
Directional Demand Flow Rate, veh/h 41					Opposing Deman	d Flov	w Rate, veh/h	-
Peak	Hour Factor	0.93	}		Total Trucks, %			22.00
Segment Capacity, veh/h 11			0		Demand/Capacity (D/C)		0.37	
Int	ermediate Results							
Segment Vertical Class 5		5			Free-Flow Speed,	mi/h		55.9
Speed Slope Coefficient 17.1		0441		Speed Power Coef	fficien	nt	1.11767	
PF S	lope Coefficient	-0.9	4737		PF Power Coefficie	ent		0.94070
In Pa	assing Lane Effective Length?	No	)		Total Segment De	nsity,	veh/mi/ln	2.7
%lm	proved % Followers	0.0			% Improved Avg S	Speed		0.0
Sul	osegment Data							
#	Segment Type	Len	gth, ft	Rad	dius, ft Superelevation, %		erelevation, %	Average Speed, mi/h
1	Tangent	169	0	-		-		51.2
2	Horizontal Curve	142	6	1910	0	2		51.2
3	Tangent	269	3	-		-		51.2
Pas	ssing Lane Results					<u> </u>		
			Faster Lane				Slower Lane	
Flow	r Rate, veh/h		243				167	
Perc	entage of Heavy Vehicles (HV%), %	,	8.80				41.21	
Initia	al Average Speed (Sint), mi/h		58.5				49.1	
Aver	age Speed at Midpoint (SPLmid), n	ni/h	60.4				47.2	
Perc	ent Followers at Midpoint (PFPLmid	23.7				9.2		
Vel	nicle Results							
Aver	rage Speed, mi/h	51.2	)		Percent Followers,	, %		33.6
Segr	ment Travel Time, minutes	1.29	)		Follower Density,	follow	vers/mi/ln	2.7
	cle LOS	В						

Ver	nicle Inputs					
	nent Type	Passing Constrained		Length, ft		5123
	Width, ft	12		Shoulder Width, f	t	6
	d Limit, mi/h	55		Access Point Density, pts/mi		0.0
	Demand and Capacity					
		1				
	ctional Demand Flow Rate, veh/h	410			d Flow Rate, veh/h	-
	Hour Factor	0.93		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.24
Inte	ermediate Results					
Segn	nent Vertical Class	5		Free-Flow Speed,	mi/h	52.8
Spee	d Slope Coefficient	15.39723		Speed Power Coe	fficient	0.58755
PF SI	ope Coefficient	-1.86522		PF Power Coefficie	ent	0.84774
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	5.3
%Improved % Followers		17.2		% Improved Avg	Speed	0.5
Suk	segment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	950	-		-	45.0
2	Horizontal Curve	1162	143	2	2	45.0
3	Tangent	370	-		-	45.0
4	Horizontal Curve	1162	955	<u> </u>	2	45.0
5	Tangent	53	-		-	45.0
6	Horizontal Curve	1320	143	2	2	45.0
7	Tangent	106	-		-	45.0
	nicle Results					
	age Speed, mi/h	45.3		Percent Followers	0/_	58.3
	nent Travel Time, minutes	1.29	45.3		•	4.4
	cle LOS	C C		Follower Density, followers/mi/ln		4.4
verno	LIE LO3					
		S	egn	nent 3		
Veh	nicle Inputs					
Segn	nent Type	Passing Constrained		Length, ft		4330
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Density, pts/mi		10.3
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	410		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.93	0.93			22.00
Segr	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.24
Inte	ermediate Results					
Sear	nent Vertical Class	1		Free-Flow Speed,	mi/h	59.4
				<u> </u>		
	Speed Slope Coefficient 3.76952 This document was created by an application that isn't licensed to			Speed Power Coe	fficient	0.41674

In Pa	ssing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	3.5
%lm	proved % Followers	14.3		% Improved Avg	Speed	0.0
Sul	segment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1056	955	2		52.6
2	Tangent	211	-		-	57.1
3	Horizontal Curve	1426	143	2	2	57.1
4	Tangent	211	-		-	57.1
5	Horizontal Curve	1426	143	2	2	57.1
Vel	nicle Results					·
Aver	age Speed, mi/h	56.0		Percent Followers	5, %	48.5
Segr	nent Travel Time, minutes	0.88		Follower Density,	followers/mi/ln	3.0
Vehi	cle LOS	В				
			Segn	nent 4		·
Vel	nicle Inputs					
Segr	nent Type	Passing Lanes		Length, ft		1478
Lane Width, ft		12		Shoulder Width, f		6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		22.2
Dei	mand and Capacity					,
Dire	ctional Demand Flow Rate, veh/h	410		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor		0.93		Total Trucks, %		22.00
Segr	nent Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.24
Int	ermediate Results					
Segr	nent Vertical Class	3		Free-Flow Speed,	mi/h	53.0
Spee	d Slope Coefficient	6.57060		Speed Power Coefficient		0.57420
PF S	ope Coefficient	-1.38904		PF Power Coefficient		0.74769
In Pa	ssing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		4.2
%lm	proved % Followers	13.5		% Improved Avg Speed		0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	475	143	2	2	49.6
2	Tangent	1003	-		-	49.6
Vel	nicle Results					
Aver	age Speed, mi/h	49.6		Percent Followers	5, %	51.0
Segr	nent Travel Time, minutes	0.34	0.34		followers/mi/ln	3.6
Vehi	cle LOS	В				
			Segn	nent 5		
Veł	nicle Inputs					
his o	locument was created by an app	olication that isn't li	censed t	o use novaPDF		2692
	ase a license to generate PDF f					

Lane	e Width, ft	12			Shoulder Width, f	t		6
Spe	ed Limit, mi/h	55			Access Point Dens	sity, p	ts/mi	0.0
De	mand and Capacity							·
Dire	ctional Demand Flow Rate, veh/h	410			Opposing Deman	d Flo	w Rate, veh/h	-
Peak	K Hour Factor	0.93	3		Total Trucks, %		22.00	
Segi	ment Capacity, veh/h	120	0		Demand/Capacity	/ (D/C	C)	0.34
Int	ermediate Results							
Segi	ment Vertical Class	4			Free-Flow Speed,	mi/h		58.2
Spe	ed Slope Coefficient	11.6	60796		Speed Power Coe	fficie	nt	1.07320
PF S	PF Slope Coefficient -1.10063			PF Power Coeffici	ent		0.87959	
In Passing Lane Effective Length? No			Total Segment De	nsity	veh/mi/ln	2.9		
%Improved % Followers 0.0			% Improved Avg	Speed	d	0.0		
Sul	bsegment Data							
#	Segment Type Length, ft Radio		lius, ft	Sup	erelevation, %	Average Speed, mi/h		
1	Horizontal Curve	147	1478 127		3	2		54.9
2	Tangent	121	4	-		-		54.9
Pas	ssing Lane Results							
Faster Lane							Slower Lane	
Flow	v Rate, veh/h		243				167	
Perc	entage of Heavy Vehicles (HV%), %		8.80				41.21	
Initia	al Average Speed (Sint), mi/h		59.6				53.7	
Aver	rage Speed at Midpoint (SPLmid), mi	i/h	61.5		51.8			
Perc	ent Followers at Midpoint (PFPLmid)	, %	28.6				13.0	
Vel	hicle Results							
Aver	rage Speed, mi/h	54.9	9		Percent Followers, %			39.5
Segi	ment Travel Time, minutes	0.56	5		Follower Density, followers/mi/ln			2.9
Vehi	icle LOS	В						
			Se	gn	nent 6			
Vel	hicle Inputs							
Segi	ment Type	Pas	sing Constrained		Length, ft			13147
	e Width, ft	12			Shoulder Width, f	t		6
Spe	ed Limit, mi/h	55			Access Point Dens	sity, p	its/mi	2.0
De	mand and Capacity							•
	ctional Demand Flow Rate, veh/h	364			Opposing Deman	d Flo	w Rate, veh/h	-
Peak	K Hour Factor	0.96	5		Total Trucks, %			22.00
Segi	ment Capacity, veh/h	170	0		Demand/Capacity	/ (D/C	<u>;)</u>	0.21
Int	ermediate Results							
Segi	ment Vertical Class	1			Free-Flow Speed,	mi/h		61.5
Spe	ed Slope Coefficient		5118		Speed Power Coe	fficie	nt	0.41674
1	document was created by an app	dication	on that isn't licens	sed to	o use novaPDF.	ent		0.71583

	assing Lane Effective Length?	Yes			Density, veh/mi/ln	3.1
%lm	proved % Followers	13.5		% Improved Av	g Speed	1.3
Sul	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1214	127	/3	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	114	16	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
Vel	nicle Results	<u>'</u>				
Aver	rage Speed, mi/h	55.7		Percent Followe	ers, %	47.1
Segr	ment Travel Time, minutes	2.68		Follower Densit	ty, followers/mi/ln	2.7
Vehi	cle LOS	В				
			Segn	nent 7		<u>'</u>
Vel	nicle Inputs					
	ment Type	Passing Zone		Length, ft		1690
	e Width, ft	12			n ft	6
		55		Shoulder Width, ft  Access Point Density, pts/mi		0.0
	ed Limit, mi/h	55		Access Politi De	ensity, pts/mi	0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	364		Opposing Dem	and Flow Rate, veh/h	425
Peak	Hour Factor	0.96		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1700		Demand/Capac	city (D/C)	0.21
Int	ermediate Results					
	ment Vertical Class	1		Free-Flow Spee	ed, mi/h	62.0
Segr		3.68635		Speed Power C	oefficient	0.49285
_	ed Slope Coefficient			PF Power Coeff	icient	0.78479
Spe	lope Coefficient	-1.31139		Li Lower Coen		
Spe	<u> </u>	-1.31139 Yes			Density, veh/mi/ln	2.7

#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	845	254	17	2	60.1
2	Tangent	845	-		-	60.1
<b>V</b> e	hicle Results	•				·
Ave	rage Speed, mi/h	60.7		Percent Followers	5, %	44.7
Seg	ment Travel Time, minutes	0.32		Follower Density,	followers/mi/ln	2.3
Veh	icle LOS	В				
			Segn	nent 8		
Ve	hicle Inputs					
Seg	ment Type	Passing Constrai	ned	Length, ft		9346
Lan	e Width, ft	12		Shoulder Width, f		6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	1.6
De	mand and Capacity	·				
Directional Demand Flow Rate, veh/h 364			Opposing Deman	nd Flow Rate, veh/h	-	
Pea	k Hour Factor	0.96		Total Trucks, %		22.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.21
Int	ermediate Results					
Seg	Segment Vertical Class 1			Free-Flow Speed,	mi/h	61.6
Speed Slope Coefficient		3.93113		Speed Power Coe	efficient	0.41674
PF Slope Coefficient		-1.28164		PF Power Coeffici	ent	0.74900
In P	assing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	2.9
%In	nproved % Followers	8.9	% Improved Avg Speed		0.0	
Su	bsegment Data					
#	Segment Type	Length, ft	Rac	ius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	2587	-		-	59.3
2	Horizontal Curve	1426	955	5	2	52.7
3	Tangent	264	-		-	59.3
4	Horizontal Curve	1056	163	37	2	59.0
5	Tangent	739	-		-	59.3
6	Horizontal Curve	898	114	16	2	52.7
7	Tangent	53	-		-	59.3
8	Horizontal Curve	2006	127	/3	2	59.0
9	Tangent	317	-		-	59.3
<b>V</b> e	hicle Results					
Ave	rage Speed, mi/h	57.5		Percent Followers	5, %	45.2
Seg	ment Travel Time, minutes	1.85		Follower Density,	followers/mi/ln	2.6
Veh	icle LOS	В				
			Segn	nent 9		
<b>V</b> e	hicle Inputs					
his	document was created by an ap			o use <u>novaPDF</u> .		2323
urc	hase a license to generate PDF	tiles without this n	otice.			2020

Lane Width, ft 12 Shoulder Width, ft				Shoulder Width, ft	t	6	
Spe	ed Limit, mi/h	55		Access Point Dens	Access Point Density, pts/mi 0.8		
De	mand and Capacity						
Dire	ctional Demand Flow Rate, veh/h	364		Opposing Deman	Opposing Demand Flow Rate, veh/h		
Peal	K Hour Factor	0.96		Total Trucks, %		22.00	
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.21	
Int	ermediate Results	·		•			
Segment Vertical Class		4		Free-Flow Speed,	mi/h	55.3	
Speed Slope Coefficient		10.25557		Speed Power Coef	fficient	0.63025	
PF S	Slope Coefficient	-1.56477		PF Power Coefficie	ent	0.71652	
In P	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.8	
%ln	proved % Followers	8.1		% Improved Avg S	Speed	0.0	
Su	bsegment Data			•			
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Horizontal Curve	2323	10	)42	0	50.8	
<b>V</b> el	hicle Results						
Ave	rage Speed, mi/h	50.8		Percent Followers,	. %	53.1	
	ment Travel Time, minutes	0.52		Follower Density,		3.5	
	icle LOS	В		3.			
			Soan	nont 10			
			Segn	nent 10			
Vel	hicle Inputs						
Seg	ment Type	Passing Lanes	-			2112	
Lan	e Width, ft	12	12		t 	6	
Spe	ed Limit, mi/h	55	Access Point Density, pts/mi			0.0	
De	mand and Capacity						
Dire	ctional Demand Flow Rate, veh/h	364		Opposing Demand	-		
Peal	K Hour Factor	0.96		Total Trucks, %		22.00	
Seg	ment Capacity, veh/h	1700		Demand/Capacity	Demand/Capacity (D/C)		
	ermediate Results						
Int	ment Vertical Class	3		Free-Flow Speed,	Free-Flow Speed, mi/h		
	ment vertical class	8.77159		Speed Power Coef	fficient	0.62509	
Seg	ed Slope Coefficient	8.77159			PF Power Coefficient		
Seg Spe		-1.35444		PF Power Coefficie	ent	0.76708	
Seg Spe PF S	ed Slope Coefficient			PF Power Coefficient Total Segment De		3.1	
Seg Spe PF S	ed Slope Coefficient Slope Coefficient	-1.35444			nsity, veh/mi/ln		
Seg Spe PF S In P	ed Slope Coefficient Slope Coefficient assing Lane Effective Length?	-1.35444 Yes		Total Segment De	nsity, veh/mi/ln	3.1	
Seg Spe PF S In P	ed Slope Coefficient  slope Coefficient assing Lane Effective Length? approved % Followers  bsegment Data	-1.35444 Yes 7.5	Ra	Total Segment De % Improved Avg S	nsity, veh/mi/ln Speed	3.1	
Seg Spe PF S In P	ed Slope Coefficient  slope Coefficient assing Lane Effective Length? aproved % Followers	-1.35444 Yes	Ra	Total Segment De	nsity, veh/mi/ln	3.1	

Avera	ge Speed, mi/h	54.7		Percent Followers	, %	46.4
Segm	ent Travel Time, minutes	0.44		Follower Density,	followers/mi/ln	2.8
Vehicl	le LOS	В				
			Segm	ent 11		
<b>V</b> ehi	icle Inputs					
Segm	egment Type Passing Constrained		Length, ft		4435	
	Width, ft	12		Shoulder Width, f	t	6
Speed	Speed Limit, mi/h 55		Access Point Dens	sity, pts/mi	0.9	
Dem	nand and Capacity					
	ional Demand Flow Rate, veh/h	364		Opposing Deman	d Flow Rate, veh/h	
	Hour Factor	0.96		Total Trucks, %		22.00
	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.21
	rmediate Results	100			(2, 3)	0.2.
	ent Vertical Class	5		Free-Flow Speed,	mi/h	53.2
	d Slope Coefficient	15.09084				0.62191
•	<u> </u>			Speed Power Coefficient  PF Power Coefficient		0.83425
PF Slope Coefficient				Total Segment Density, veh/mi/ln		4.3
In Passing Lane Effective Length?				-		0.0
%Improved % Followers 6.4		0.4		% Improved Avg	speea	0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	528	-		-	46.6
2	Horizontal Curve	1003	127	3	2	46.6
3	Tangent	53	-		-	46.6
4	Horizontal Curve	1267	127	3	2	46.6
5	Tangent	106	-		-	46.6
6	Horizontal Curve	1267	104	2	2	46.6
7	Tangent	211	-		-	46.6
<b>V</b> ehi	icle Results					
Avera	ge Speed, mi/h	46.6		Percent Followers	, %	54.5
Segm	ent Travel Time, minutes	1.08		Follower Density,	followers/mi/ln	4.0
Vehicl	le LOS	В				
			Segm	ent 12		
<b>V</b> ehi	icle Inputs					
Segm	ent Type	Passing Lanes		Length, ft		3326
Lane \	Width, ft	12		Shoulder Width, f	t	6
Speed	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	2.9
Den	nand and Capacity	<u>'</u>				·
	ional Demand Flow Rate, veh/h	348		Opposing Deman	d Flow Rate, veh/h	-
	Hour Factor	0.95		Total Trucks. %		22.00
	ocument was created by an app	olication that isn't lic	ensed to			

Segment Vertical Class 4					Free-Flow Speed, mi/h			57.4
Spe	ed Slope Coefficient	11.2	14989		Speed Power Coefficient			1.09561
PF S	lope Coefficient	-1.0	6349		PF Power Coefficient			0.90257
In Passing Lane Effective Length? No					Total Segment De	nsity,	veh/mi/ln	2.1
%Improved % Followers 0.0					% Improved Avg	Speed	d	0.0
Sul	osegment Data							
#	Segment Type	Len	gth, ft	ius, ft	Sup	erelevation, %	Average Speed, mi/h	
1	Horizontal Curve	211	2	1432	2	2		55.0
2	Tangent	121	4	-		-		55.0
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow	Rate, veh/h		211				138	
Perc	entage of Heavy Vehicles (HV%), %		8.80				42.21	
Initia	al Average Speed (Sint), mi/h		59.2				53.0	
Aver	age Speed at Midpoint (SPLmid), m	i/h	61.1				51.1	
Perc	ent Followers at Midpoint (PFPLmid	), %	24.6			9.4		
Vel	nicle Results							
Aver	age Speed, mi/h	55.0	)		Percent Followers	, %		33.7
Segr	ment Travel Time, minutes	0.69	)		Follower Density,	follov	vers/mi/ln	2.1
Vehi	cle LOS	В						
			Se	gm	ent 13			
Vel	nicle Inputs							
Segr	ment Type	Pass	sing Constrained		Length, ft			3591
Long	e Width, ft	12			Shoulder Width, ft			6
Lane Width, ft 12			Access Point Density, p			ts/mi		
	ed Limit, mi/h	55			Access Point Dens	sity, p	15/1111	1.6
Spe	ed Limit, mi/h mand and Capacity	55			Access Point Dens	sity, p	15/1111	1.6
Spe <b>De</b> i		348			Access Point Dens Opposing Deman			1.6
Spee <b>De</b> l	mand and Capacity							- 22.00
Spec Dei Dire	mand and Capacity ctional Demand Flow Rate, veh/h	348	j		Opposing Deman	d Flo	w Rate, veh/h	-
Del Dire Peak Segr	mand and Capacity ctional Demand Flow Rate, veh/h t Hour Factor	348	j		Opposing Deman Total Trucks, %	d Flo	w Rate, veh/h	22.00
Der Dire Peak Segr	mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor ment Capacity, veh/h	348	j		Opposing Deman Total Trucks, %	d Flo	w Rate, veh/h	22.00
Der Dire Peak Segr Int	ctional Demand Flow Rate, veh/h Hour Factor ment Capacity, veh/h ermediate Results	348 0.95 170	j		Opposing Deman Total Trucks, % Demand/Capacity	d Flo	w Rate, veh/h	- 22.00 0.20
Der Dire Peak Segn	mand and Capacity ctional Demand Flow Rate, veh/h t Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class	348 0.95 170 1 3.87	0		Opposing Deman Total Trucks, % Demand/Capacity Free-Flow Speed,	d Floo (D/C mi/h fficier	w Rate, veh/h	- 22.00 0.20
Del Dire Peak Segri Into Segri Speci	mand and Capacity ctional Demand Flow Rate, veh/h t Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient	348 0.95 170 1 3.87	7909		Opposing Deman Total Trucks, % Demand/Capacity Free-Flow Speed, Speed Power Coe	d Flor (D/C mi/h fficier	w Rate, veh/h	- 22.00 0.20 61.6 0.41674
Der Dire Peak Segri Interest Segri Spee	mand and Capacity ctional Demand Flow Rate, veh/h t Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient	348 0.95 170 1 3.87 -1.3	909 0170		Opposing Deman Total Trucks, % Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficient	d Floor (D/C) mi/h mi/h ffficier ent msity,	w Rate, veh/h  )  nt  veh/mi/ln	- 22.00 0.20 61.6 0.41674 0.76590
Del Dire Peak Segri Inte Segri Spee PF S In Pa	ctional Demand Flow Rate, veh/h thour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length?	348 0.95 170 1 3.87 -1.3 Yes	909 0170		Opposing Deman Total Trucks, % Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De	d Floor (D/C) mi/h mi/h ffficier ent msity,	w Rate, veh/h  )  nt  veh/mi/ln	- 22.00 0.20 61.6 0.41674 0.76590 2.6
Del Dire Peak Segri Inte Segri Spee PF S In Pa	ctional Demand Flow Rate, veh/h thour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers	1 3.87 -1.3 Yes 22.0	909 0170	Radi	Opposing Deman Total Trucks, % Demand/Capacity  Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De	d Floor (D/C) mi/h fficier tent sty,	w Rate, veh/h  )  nt  veh/mi/ln	- 22.00 0.20 61.6 0.41674 0.76590 2.6

61.0		Percent Followers	Percent Followers, %		
gment Travel Time, minutes 0.67			followers/mi/ln	2.0	
A					
	Segm	ent 14			
Passing Constrair	ned	Length, ft		3432	
12		Shoulder Width,	ft	6	
55		Access Point Den	sity, pts/mi	0.0	
348		Opposing Demar	nd Flow Rate, veh/h	-	
0.95		Total Trucks, %		22.00	
1700		Demand/Capacity	y (D/C)	0.20	
4		Free-Flow Speed, mi/h		55.4	
10.58564		Speed Power Coe	0.61163		
-1.58995		PF Power Coeffici	ent	0.74089	
Yes		Total Segment De	ensity, veh/mi/ln	3.5	
18.5		% Improved Avg	Speed	2.6	
Length, ft	Length, ft Radi		ius, ft Superelevation, %		
3432	-	-		50.9	
52.3		Percent Followers	51.7		
0.75		Follower Density,	2.8		
В					
	Segm	ent 15			
Passing Constrain	ned	Length, ft		4435	
12		Shoulder Width,	ft	6	
55		Access Point Den	sity, pts/mi	50.0	
				·	
348		Opposing Demar	nd Flow Rate, veh/h	-	
0.95		Total Trucks, %	22.00		
1700		Demand/Capacity	y (D/C)	0.20	
Segment Vertical Class 1			Free-Flow Speed, mi/h		
1		Free-Flow Speed,	mi/h	52.0	
	0.67 A  Passing Constrain 12 55  348 0.95 1700  4 10.58564 -1.58995 Yes 18.5  Length, ft 3432  52.3 0.75 B  Passing Constrain 12 55	O.67	Segment 14  Passing Constrained Length, ft  12 Shoulder Width, 15  55 Access Point Den  348 Opposing Demard  0.95 Total Trucks, %  1700 Demand/Capacity  4 Free-Flow Speed, 10.58564 Speed Power Coefficity  Yes Total Segment Den  18.5 % Improved Avg  Length, ft Radius, ft 3432 -  52.3 Percent Followers  0.75 Follower Density, B  Segment 15  Passing Constrained Length, ft 12 Shoulder Width, 16 15 Access Point Den  348 Opposing Demard  19 Passing Constrained Length, ft 19 Shoulder Width,	Passing Constrained Length, ft  12 Shoulder Width, ft  55 Access Point Density, pts/mi  348 Opposing Demand Flow Rate, veh/h  0.95 Total Trucks, %  1700 Demand/Capacity (D/C)  4 Free-Flow Speed, mi/h  10.58564 Speed Power Coefficient  -1.58995 PF Power Coefficient  Yes Total Segment Density, veh/mi/ln  18.5 % Improved Avg Speed  Length, ft Radius, ft Superelevation, %  3432  52.3 Percent Followers, %  0.75 Follower Density, followers/mi/ln  B  Segment 15  Passing Constrained Length, ft  12 Shoulder Width, ft  55 Access Point Density, pts/mi	

In Passing Lane Effective Length?  Yes			Total Segment D	Total Segment Density, veh/mi/ln		
%lm	nproved % Followers	15.3		% Improved Avg	Speed	1.9
Sul	bsegment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4435	-		-	50.1
<b>V</b> el	hicle Results					
Ave	rage Speed, mi/h	51.1		Percent Follower	rs, %	46.4
Seg	ment Travel Time, minutes	0.99		Follower Density	, followers/mi/ln	2.7
Veh	icle LOS	В				
			Seg	ment 16		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		6389
Lane	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Der	nsity, pts/mi	2.3
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	364		Opposing Dema	nd Flow Rate, veh/h	425
Peal	k Hour Factor	0.91		Total Trucks, %		22.00
Seg	ment Capacity, veh/h	1700		Demand/Capacit	ty (D/C)	0.21
Int	ermediate Results					
Segment Vertical Class 1			Free-Flow Speed	l, mi/h	61.4	
Spe	ed Slope Coefficient	3.71023		Speed Power Co	efficient	0.49281
PF S	Slope Coefficient	-1.23523		PF Power Coeffic	cient	0.80077
In Pa	assing Lane Effective Length?	Yes	Yes		ensity, veh/mi/ln	2.6
%lm	nproved % Followers	12.0		% Improved Avg	Speed	0.9
Sul	bsegment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	6389	-		-	59.5
<b>V</b> el	hicle Results					
Ave	rage Speed, mi/h	60.0		Percent Follower	rs, %	42.3
Seg	ment Travel Time, minutes	1.21		Follower Density	, followers/mi/ln	2.3
Veh	icle LOS	В				
			Seg	ment 17		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrai	ined	Length, ft		9610
	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Der	nsity, pts/mi	1.7
De	mand and Capacity					•
	ectional Demand Flow Rate, veh/h	391		Opposing Dema	nd Flow Rate, veh/h	-
This document was created by an application that isn't licensed to use novaPDF.  Purchase a license to generate PDF files without this notice.						

Segment Capacity, veh/h 1700			Demand/Capacity	(D/C)	0.23	
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.5
Spee	ed Slope Coefficient	3.93169	3.93169		fficient	0.41674
PF S	lope Coefficient	-1.28334	-1.28334		ent	0.74701
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.3
%lm	proved % Followers	8.5		% Improved Avg :	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2904	-		-	59.2
2	Horizontal Curve	1056	19	10	2	58.9
3	Tangent	158	-		-	59.2
4	Horizontal Curve	1267	95	 5	2	52.6
5	Tangent	370	-		-	59.2
6	Horizontal Curve	1637	95	 5	2	52.6
7	Tangent	53	-		-	59.2
8	Horizontal Curve	1109	95	 5	2	52.6
9	Tangent	1056 -		-		59.2
Vel	nicle Results					
Average Speed, mi/h 56.4				Percent Followers	 , %	47.1
	ment Travel Time, minutes	1.94		Follower Density,		3.0
	cle LOS	В		31		
			Sean	nent 18		
Vok	nicle Inputs					
	•	Descion Lanca		Length, ft		7400
	ment Type		Passing Lanes			7482
	Width, ft		12		t	6
Spee	ed Limit, mi/h	55		Access Point Dens	1.0	
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	409		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.87		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1100		Demand/Capacity	(D/C)	0.37
Inte	ermediate Results					
Segr	nent Vertical Class	5		Free-Flow Speed,	mi/h	55.5
Spee	ed Slope Coefficient	17.67194		Speed Power Coe	fficient	1.12697
PF S	lope Coefficient	-0.91272		PF Power Coefficie	ent	0.99960
In Pa	In Passing Lane Effective Length? No			Total Segment De	nsity, veh/mi/ln	2.5
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
This document was created by an application that isn't licensed						

2	Horizontal Curve	121	4	104	2	2		50.8	
3	Tangent	264		-		-		50.8	
4	Horizontal Curve	110	9	955		2		50.8	
5	Tangent	686		-		-		50.8	
6	Horizontal Curve	792	792 8		881			50.8	
7	Tangent	53		-		-		50.8	
8	Horizontal Curve	634		114	6	2		50.8	
9	Tangent	528		-				50.8	
10	Horizontal Curve	195		881		2		50.8	
11	Tangent	137	3	-		-		50.8	
Pas	sing Lane Results								
			Faster Lane				Slower Lane		
Flow	Rate, veh/h		243				167		
	entage of Heavy Vehicles (HV%), %		8.80				41.22		
	al Average Speed (Sint), mi/h		58.2				48.5		
	age Speed at Midpoint (SPLmid), mi	/h	60.2			46.6			
Perc	ent Followers at Midpoint (PFPLmid)	, %	21.8			7.3			
Vel	nicle Results								
Average Speed, mi/h 50.			3		Percent Follower	rs, %		31.2	
Segment Travel Time, minutes 1.6			7		Follower Density	y, follo	wers/mi/ln	2.5	
Vehi	cle LOS	В							
			Se	gm	ent 19				
Veł	nicle Inputs								
	ment Type	Pass	sing Lanes		Length, ft 3168				
	e Width, ft	12		Shoulder Width, ft			6		
	ed Limit, mi/h	55	Access Point Density						
•		100			7.00033 7 01171 2 01	1101197	7.13/1111	10.0	
	mand and Capacity	-						1	
	ctional Demand Flow Rate, veh/h	384			Opposing Demand Flow Rate, veh/h			-	
	Hour Factor	0.87			Total Trucks, %			22.00	
Segr	ment Capacity, veh/h	130	0		Demand/Capaci	ty (D/0	<u> </u>	0.30	
Inte	ermediate Results								
Segr	ment Vertical Class	1			Free-Flow Speed	d, mi/h		62.0	
Spee	ed Slope Coefficient	7.60	)765		Speed Power Co	efficie	nt	0.87306	
PF S	lope Coefficient	-1.1	5694		PF Power Coeffic	cient		0.78069	
In Passing Lane Effective Length? No				Total Segment Density, veh/mi/ln			, veh/mi/ln	2.9	
%lm	proved % Followers	0.0			% Improved Avg Speed 0.0				
Suk	osegment Data								
#	Segment Type	Len	gth, ft	Rad	lius, ft	Sup	perelevation, %	Average Speed, mi/h	
1	Tangent	110	9	-		-		59.4	
	Horizontal Curve	205	•	042 2			52.6		

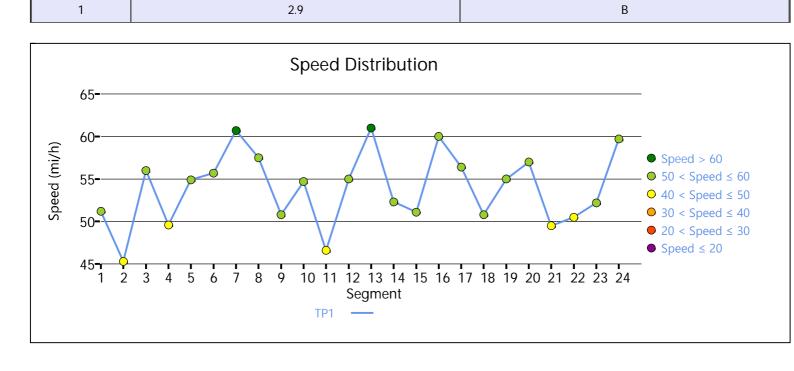
Purchase a license to generate PDF files without this notice.

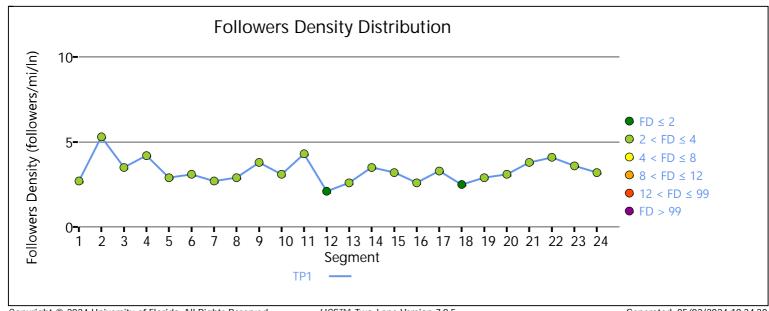
ı a.	ssing Lane Results		1						
			Faster Lane			Slower Lane			
Flov	v Rate, veh/h		229			154	154		
Perc	centage of Heavy Vehicles (HV%), %		8.80			41.61	41.61		
Initi	al Average Speed (Sint), mi/h		61.3			60.7			
Ave	rage Speed at Midpoint (SPLmid), m	63.2			58.8				
Perc	cent Followers at Midpoint (PFPLmid	), %	31.4			22.1			
Vel	hicle Results								
Ave	rage Speed, mi/h	55.0	)		Percent Followers	, %	42.2		
Seg	ment Travel Time, minutes	0.65	5		Follower Density,	followers/mi/ln	2.9		
Veh	icle LOS	В							
			S	egm	ent 20				
Vel	hicle Inputs								
Seg	ment Type	Pas	sing Constrained		Length, ft		5227		
Lane	e Width, ft	12			Shoulder Width, f	t	6		
Spe	ed Limit, mi/h	55			Access Point Dens	sity, pts/mi	1.7		
De	mand and Capacity								
Dire	ectional Demand Flow Rate, veh/h	al Demand Flow Rate, veh/h 384			Opposing Deman	d Flow Rate, veh/h	-		
Peal	k Hour Factor	0.87	7		Total Trucks, %		22.00		
Segment Capacity, veh/h 1700			0		Demand/Capacity	/ (D/C)	0.23		
Int	ermediate Results								
Seg	ment Vertical Class	1			Free-Flow Speed,	mi/h	61.5		
Spe	ed Slope Coefficient	3.89	39525		Speed Power Coe	fficient	0.41674		
PF S	Slope Coefficient	-1.2			PF Power Coefficie	ent	0.76773		
In Pa	assing Lane Effective Length?	Yes			Total Segment De	nsity, veh/mi/ln	3.1		
%lm	nproved % Followers	17.4	4		% Improved Avg	Speed	0.4		
Sul	bsegment Data								
#	Segment Type	Len	gth, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h		
1	Horizontal Curve	634		104	2	2	52.6		
2	Tangent	53		-		-	59.2		
3	Horizontal Curve	121	4	955		2	52.6		
4	Tangent	264		-		-	59.2		
5	Horizontal Curve	153	1	127	3	2	58.9		
6	Tangent	153	1	-		-	59.2		
Vel	hicle Results								
Ave	rage Speed, mi/h	57.0	)		Percent Followers	, %	45.9		
Segment Travel Time, minutes 1.0			)4		Follower Density,	followers/mi/ln	2.6		
Jcg				•					

Ver	nicle Inputs					
	nent Type	Passing Constrain	ined	Length, ft		2165
	Width, ft	12		Shoulder Width, f	t	6
	peed Limit, mi/h 55		Access Point Dens		1.3	
Der	mand and Capacity			<u>'</u>		
	tional Demand Flow Rate, veh/h	384		Opposing Deman	d Flow Rate, veh/h	
	Hour Factor	0.87		Total Trucks, %	a riow Rate, veri, ii	22.00
	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.23
		1700		Domaila sapasity	(2, 0)	0.20
inte	ermediate Results					
Segr	nent Vertical Class	3		Free-Flow Speed,	mi/h	58.2
Spec	d Slope Coefficient	8.45373		Speed Power Coe	fficient	0.61698
PF SI	ope Coefficient	-1.37631		PF Power Coefficie	ent	0.76388
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.8
%lm	proved % Followers	15.4		% Improved Avg	Speed	0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	422	955	5	2	52.6
2	Tangent	53	-		-	54.3
3	Horizontal Curve	1056	716	5	2	46.0
4	Tangent	53	-		-	54.3
5	Horizontal Curve	581	955	5	2	52.6
Ver	icle Results	<u>'</u>				_
Aver	age Speed, mi/h	49.5		Percent Followers	, %	48.4
Segr	nent Travel Time, minutes	0.50		Follower Density,	followers/mi/ln	3.2
Vehi	cle LOS	В				
			Segm	ent 22		
Ver	icle Inputs					
	nent Type	Passing Constrai	inod	Length, ft		3750
	Width, ft	12		Shoulder Width, f	<del>†</del>	6
	d Limit, mi/h	55		Access Point Dens		0.0
	mand and Capacity			Access Fourt Bens	Sity, pts/fill	10.0
	tional Demand Flow Rate, veh/h	384		Opposing Deman	d Flow Rate, veh/h	
	Hour Factor	0.87		Total Trucks, %	a riew nate, veriiri	22.00
	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.23
	ermediate Results	1		Tomana, supusit,	(27.5)	3.23
	nent Vertical Class	4		Free-Flow Speed,	mi/h	55.4
_	d Slope Coefficient	10.65976		Speed Power Coe		0.60372
•	ope Coefficient	-1.60099		PF Power Coefficie		0.74834
	ssing Lane Effective Length?	Yes		Total Segment De		4.1
his c	locument was created by an app	olication that isn't		to use neveDDE	Speed	0.0
	ase a license to generate PDF f			,	ppeeu	0.0

Suk	segment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	106	-		-	50.5
2	Horizontal Curve	950	95!	5	2	50.5
3	Tangent	53	-		-	50.5
4	Horizontal Curve	898	104	12	2	50.5
5	Tangent	53	-		-	50.5
6	Horizontal Curve	845	990	5	2	50.5
7	Tangent	53	-		-	50.5
8	Horizontal Curve	792	104	12	2	50.5
Ver	nicle Results					
Aver	age Speed, mi/h	50.5		Percent Followe	ers, %	54.3
Segn	nent Travel Time, minutes	0.84		Follower Densit	y, followers/mi/ln	3.6
Vehi	cle LOS	В				
			Segn	nent 23		
Ver	nicle Inputs					
Segn	nent Type	Passing Constrain	Passing Constrained			2482
Lane	Width, ft	12		Shoulder Width	, ft	6
Spee	ed Limit, mi/h	55		Access Point De	ensity, pts/mi	11.1
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	384		Opposing Dema	and Flow Rate, veh/h	-
Peak	Hour Factor	0.87		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capac	ity (D/C)	0.23
Inte	ermediate Results					
Segn	nent Vertical Class	3		Free-Flow Spee	55.8	
Spee	ed Slope Coefficient	7.62366			pefficient	0.59794
PF SI	ope Coefficient	-1.37647		PF Power Coeffi	cient	0.75713
In Pa	ssing Lane Effective Length?	Yes		Total Segment I	Density, veh/mi/ln	3.6
%lm	proved % Followers	11.4		% Improved Av	g Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2482	-		-	52.2
Ver	nicle Results					
Aver	age Speed, mi/h	52.2		Percent Followe	ers, %	48.7
Segn	nent Travel Time, minutes	0.54		Follower Densit	y, followers/mi/ln	3.2
Vehic	cle LOS	В				
			Segn	nent 24		<u> </u>
Ver	nicle Inputs					
	•					

,			1		l			I .	
	e Width, ft		12			r Width, ft		6	
Spe	ed Limit, mi/h		55	55		oint Dens	sity, pts/mi	0.0	
De	mand and	l Capacity							
Dire	ctional Demar	nd Flow Rate, veh/h	384		Opposin	g Deman	d Flow Rate, veh/h	-	
Peal	k Hour Factor		0.87		Total Tru	cks, %		22.00	
Seg	ment Capacity	/, veh/h	1700		Demand	/Capacity	(D/C)	0.23	
Int	ermediate	Results							
Seg	ment Vertical	Class	1		Free-Flov	w Speed,	mi/h	62.0	
Spe	ed Slope Coef	ficient	3.86735		Speed Power Coefficient			0.41674	
PF S	Slope Coefficie	ent	-1.37557		PF Power Coefficient			0.74346	
In P	assing Lane Ef	ffective Length?	Yes		Total Segment Density, veh/mi/ln			3.2	
%lm	nproved % Fol	lowers	10.7	% Improved Avg Speed		Speed	0.0		
Su	bsegment	Data							
#	Segment Ty	pe	Length, ft	Rad	lius, ft	lus, ft Superelevation, %		Average Speed, mi/h	
1	Tangent		1267	-			-	59.7	
Ve	hicle Resu	Its							
Ave	rage Speed, m	ni/h	59.7		Percent I	Followers,	, %	49.1	
Seg	ment Travel Ti	me, minutes	0.24		Follower	Density,	followers/mi/ln	2.8	
Veh	icle LOS		В						
Fac	ility Resu	lts							
	T	Follower	Density, followers/mi/	/In	LOS				





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility J (NB) - FUTURE.xuf Generated: 05/02/2024 10:34:30

		HCS7 Two-La	ane	Highway Re	eport	
Project Info	ormation					
Analyst	t Date			4/14/2024		
Agency				Analysis Year		2024
Jurisdiction				Time Analyzed		
Project Descript	ion	Gold Beach south UGB Brookings north UGB	Gold Beach south UGB to Brookings north UGB			U.S. Customary
		S	egn	nent 1		
Vehicle Inp	uts					
Segment Type		Passing Lanes		Length, ft		1267
Lane Width, ft		12		Shoulder Width, f	t	6
Speed Limit, mi/	/h	55		Access Point Dens	sity, pts/mi	0.0
Demand an	d Capacity					
Directional Dem	and Flow Rate, veh/h	449		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Facto	or	0.87		Total Trucks, %		22.00
Segment Capaci	ity, veh/h	1700		Demand/Capacity	(D/C)	0.26
Intermedia	te Results					
Segment Vertical Class		1		Free-Flow Speed,	mi/h	62.0
Speed Slope Co	efficient	3.88867		Speed Power Coe	fficient	0.41674
PF Slope Coeffic	cient	-1.31981		PF Power Coefficie	ent	0.76127
In Passing Lane	Effective Length?	No	No		nsity, veh/mi/ln	3.9
%Improved % Fo	ollowers	0.0		% Improved Avg S	Speed	0.0
Subsegmen	nt Data					
# Segment	 Туре	Length, ft	Rac	lius, ft Superelevation, %		Average Speed, mi/h
1 Tangent		1267	-		-	59.5
Vehicle Res	ults					
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		В				
		S	egn	nent 2		
Vehicle Inp	uts					
Segment Type		Passing Lanes		Length, ft		6232
Lane Width, ft 12		Shoulder Width, f	t	6		
Speed Limit, mi/h 55			Access Point Dens	sity, pts/mi	1.7	
Demand an	d Capacity					<u>'</u>
Directional Dem	and Flow Rate, veh/h	449		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Facto	or	0.87		Total Trucks, %	22.00	
Segment Capaci	ity, veh/h	1100		Demand/Capacity	(D/C)	0.41
his document v	was created by an app	olication that isn't licen	sed t	o use <u>novaPDF</u> .		

Sea	ment Vertical Class	5			Free-Flow Speed	mi/h	1	55.4
	ed Slope Coefficient	_	00975		Speed Power Coe		1.12201	
	Slope Coefficient	_	93548		PF Power Coeffic		0.95436	
In Passing Lane Effective Length?  No				Total Segment D		v. veh/mi/ln	3.2	
	%Improved % Followers 0.0				% Improved Avg			0.0
	bsegment Data	10.0				0000		
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sur	perelevation, %	Average Speed, mi/h
1	Tangent	248			-	Screic valient, 70	50.2	
2	Horizontal Curve	792		104	2	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		104	<u> </u>	2		50.2
7	Tangent	53		-		-		50.2
8	Horizontal Curve	950		955		2		50.2
9	Tangent	106		-		-		50.2
_	ssing Lane Results	_						
Faster Lane					Slower Lane			
Flov	Flow Rate, veh/h 263						186	
	centage of Heavy Vehicles (HV%), %		8.80				40.64	
	al Average Speed (Sint), mi/h		57.9				48.5	
	rage Speed at Midpoint (SPLmid), m	i/h	59.8				46.6	
	cent Followers at Midpoint (PFPLmid		24.7				9.9	
Ve	hicle Results							
Ave	rage Speed, mi/h	50.2	2		Percent Followers		35.3	
	ment Travel Time, minutes	1.4	<u> </u>	Follower Density, followers/mi/ln		wers/mi/ln	3.2	
Veh	icle LOS	В						
				Segn	nent 3			
Vol	hicle Inputs							
	<u> </u>	I D			L			04/5
	ment Type		sing Lanes		Length, ft	f+		2165
	e Width, ft ed Limit, mi/h	12 55			Shoulder Width,  Access Point Den		ats/mi	2.4
Ė		55			Access Point Den	isity, p	)(5/11)	2.4
	mand and Capacity	140			0		Data data	
	ectional Demand Flow Rate, veh/h	449			Opposing Demai	na Fic	ow Rate, ven/n	-
Peak Hour Factor 0.87					Total Trucks, %	(D.//	2)	22.00
	ment Capacity, veh/h	170	10		Demand/Capacit	.y (D/(	~) 	0.26
Int	ermediate Results							
Seg	ment Vertical Class	4			Free-Flow Speed	, mi/h	<u> </u>	54.9
Spe	ed Slope Coefficient	10.0	00261		Speed Power Co	efficie	nt	0.62812
	Slope Coefficient document was created by an app		6591 on that isn't lice	ancad t	PF Power Coeffic			0.71551
	hase a license to generate PDF f				o use <u>Hovardr</u> .	ensity	, veh/mi/ln	5.5

%lm	proved % Followers	21.1		% Improved Avg S	Speed	2.5		
Suk	osegment Data							
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h		
1	Horizontal Curve	581	955		2	49.7		
2	Tangent	53	-	-		49.7		
3	Horizontal Curve	1056	716	5	2	46.0		
4	Tangent	53	-	-		49.7		
5	Horizontal Curve	422	955	5	2	49.7		
Ver	nicle Results							
Aver	age Speed, mi/h	49.1		Percent Followers	, %	58.7		
Segr	nent Travel Time, minutes	0.50		Follower Density,	followers/mi/ln	4.2		
Vehi	cle LOS	С	·					
		·	Segn	nent 4				
Ver	nicle Inputs							
Segr	nent Type	Passing Lanes		Length, ft		1267		
Lane	Width, ft	12		Shoulder Width, f	t	6		
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0		
Der	mand and Capacity					•		
Direc	ctional Demand Flow Rate, veh/h		Opposing Deman	d Flow Rate, veh/h	-			
Peak	Hour Factor	0.87		Total Trucks, %		22.00		
Segr	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.26		
Inte	ermediate Results			<u>'</u>				
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.0		
Spee	d Slope Coefficient	3.88867		Speed Power Coe	fficient	0.41674		
PF SI	ope Coefficient	-1.31981		PF Power Coefficie	ent	0.76127		
In Pa	ssing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.9		
%lm	proved % Followers	19.9		% Improved Avg S	Speed	2.3		
Suk	segment Data							
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	1267	-		-	59.5		
Ver	nicle Results							
Aver	age Speed, mi/h	60.8		Percent Followers	, %	51.2		
Segr	nent Travel Time, minutes	0.24		Follower Density,	followers/mi/ln	3.0		
Vehi	cle LOS	В						
			Segn	nent 5				
Vok	nicle Inputs							
VCI	I T	Passing Constrain	Passing Constrained Le			6128		
	nent Type			1 0				
Segr	Width, ft	12		Shoulder Width, f	t	6		

	onal Demand Flow Rate, veh/h	449		Opposing Deman	d Flow Rate, veh/h	-
Peak H	our Factor	0.87		Total Trucks, %		22.00
Segme	nt Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.26
Inter	mediate Results			1		1
 Segme	nt Vertical Class	1		Free-Flow Speed,	mi/h	61.6
Speed	Slope Coefficient	3.90644		Speed Power Coe	fficient	0.41674
PF Slor	pe Coefficient	-1.27693		PF Power Coeffici	ent	0.76604
In Pass	ing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	4.0
%Impro	oved % Followers	15.6		% Improved Avg	Speed	1.4
Subs	egment Data			•		
# S	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 T		264	-		-	59.1
_	Horizontal Curve	1531	127	73	2	58.8
3 T		264	-		-	59.1
4 F	Horizontal Curve	1214	955	5	2	52.6
5 T		53	-		-	59.1
6 F	Horizontal Curve	1693	104	 12	2	52.6
7 T		1109	1109 -		-	59.1
Vehic	cle Results	<u>'</u>	,			
 Averag	e Speed, mi/h	56.7		Percent Followers	, %	49.9
Segment Travel Time, minutes		1.23		Follower Density,	followers/mi/ln	3.3
Vehicle	LOS	В		İ		
			Segn	nent 6		
Vehic	cle Inputs					
Segme	nt Type	Passing Constrained		Length, ft		9187
Lane W	/idth, ft	12		Shoulder Width, ft		6
 Speed	Limit, mi/h	55		Access Point Dens	1.1	
Dem	and and Capacity	<u>'</u>		,		<u>'</u>
Direction	onal Demand Flow Rate, veh/h	457		Opposing Demand Flow Rate, veh/h		-
Peak H	our Factor	0.91		Total Trucks, %		22.00
 Segme	nt Capacity, veh/h	1700		Demand/Capacity (D/C)		0.27
Inter	mediate Results			•		
 Segme	nt Vertical Class	5		Free-Flow Speed,	mi/h	48.9
Speed Slope Coefficient		14.87794		Speed Power Coefficient		0.38460
PF Slop	pe Coefficient	-2.07860		PF Power Coeffici	ent	0.85487
In Pass	ing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	7.7
%Impr	oved % Followers	11.5		% Improved Avg	Speed	0.0
Subs	egment Data	<u>'</u>				

			_			
1	Tangent	1373	-		-	38.9
2	Horizontal Curve	1795	881		2	38.9
3	Tangent	528	-		-	38.9
4	Horizontal Curve	634	114	6	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	104	2	2	38.9
11	Tangent	739	-		-	38.9
Ver	nicle Results					
Aver	age Speed, mi/h	38.9		Percent Followers	, %	65.5
Segr	ment Travel Time, minutes	2.68	2.68 Follower Dens		followers/mi/ln	6.8
Vehi	cle LOS	С				
		S	egn	nent 7		
Ver	nicle Inputs					
Segr	ment Type	Passing Constrained	Passing Constrained			8501
Lane	Width, ft	12		Shoulder Width, f	t	6
Spec	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	1.9
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	457		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.91		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.27
Inte	ermediate Results					
Segr	ment Vertical Class	1	Free-Flow Speed, mi/h			61.5
Spee	ed Slope Coefficient	3.92073		Speed Power Coefficient		0.41674
PF SI	lope Coefficient	-1.27854	-1.27854		ent	0.75451
In Pa	ssing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		4.2
%lm	proved % Followers	9.0		% Improved Avg Speed		0.0
	accomment Data	•				
Suk	osegment Data				C	Average Speed, mi/h
Suk #	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average speed, Illi/II
	_	Length, ft	Rad	lius, ft	- superelevation, %	58.9
#	Segment Type	-			- 2	
#	Segment Type Tangent	950	-		-	58.9
# 1 2	Segment Type Tangent Horizontal Curve	950 1109	955		-	58.9 52.5
# 1 2 3	Segment Type Tangent Horizontal Curve Tangent	950 1109 53	955		2	58.9 52.5 58.9
# 1 2 3 4	Segment Type Tangent Horizontal Curve Tangent Horizontal Curve	950 1109 53 1637	955 - 955		2	58.9 52.5 58.9 52.5
# 1 2 3 4	Segment Type Tangent Horizontal Curve Tangent Horizontal Curve Tangent Horizontal Curve Tangent Horizontal Curve	950 1109 53 1637 370	955 - 955 -		- 2 - 2	58.9 52.5 58.9 52.5 58.9
# 1 2 3 4 5	Segment Type Tangent Horizontal Curve Tangent Horizontal Curve Tangent	950 1109 53 1637 370 1267	955 - 955 - 955		- 2 - 2	58.9 52.5 58.9 52.5 58.9 52.5

Vehicle Results					
Average Speed, mi/h	55.9		Percent Followers	s, %	50.8
Segment Travel Time, minutes	1.73		Follower Density,	followers/mi/ln	3.8
Vehicle LOS	В				
		Segn	nent 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 Den	sity, pts/mi	0.8
Demand and Capacity					
Directional Demand Flow Rate, veh/h	407		Opposing Demar	nd Flow Rate, veh/h	348
Peak Hour Factor	0.95		Total Trucks, %		22.00
Segment Capacity, veh/h	1700		Demand/Capacit	y (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	
PF Slope Coefficient	-1.22261		PF Power Coeffici	ient	0.80558
In Passing Lane Effective Length?	Yes		Total Segment De	ensity, veh/mi/ln	3.1
%Improved % Followers	7.9		% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	lius, ft	Average Speed, mi/h	
1 Tangent	6494	-		-	59.7
Vehicle Results					
Average Speed, mi/h	59.7	59.7		s, %	44.7
Segment Travel Time, minutes	1.24		Follower Density, followers/mi/ln		2.8
Vehicle LOS	В	В			
		Segn	nent 9		
Vehicle Inputs					
Segment Type	Passing Constrain	ned	Length, ft		5438
Lane Width, ft	12		Shoulder Width,	ft	6
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	1.0
Demand and Capacity					•
Directional Demand Flow Rate, veh/h	407		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor 0.95		Total Trucks, %		22.00	
Segment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.24
Intermediate Results	Segment Vertical Class 1		Free-Flow Speed, mi/h		
Intermediate Results Segment Vertical Class	1		Free-Flow Speed	, mi/h	61.7

In Pa	assing Lane Effective Length?	Yes			Total Segment De	ensity,	veh/mi/ln	3.3
%lm	proved % Followers	6.8			% Improved Avg	Speed	<u> </u>	0.0
Sul	osegment Data				<u> </u>			
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	543		-		-		59.3
Vel	nicle Results							
Aver	rage Speed, mi/h	59.3	 3	Percent Followers	. %		47.4	
	ment Travel Time, minutes	1.04		Follower Density,		vers/mi/ln	3.0	
	cle LOS	В			3.			
				Segm	ent 10			
 Vel	nicle Inputs							
	ment Type	Pass	sing Lanes		Length, ft			4593
Lane Width, ft					Shoulder Width, f	it		6
Speed Limit, mi/h 55					Access Point Dens		ts/mi	0.0
		33		0.0				
	mand and Capacity							
Directional Demand Flow Rate, veh/h 40				Opposing Deman	id Flo	w Rate, veh/h	-	
Peak Hour Factor 0.95					Total Trucks, %			22.00
Segr	ment Capacity, veh/h	110	0		Demand/Capacity	/ (D/C	<u>(i)</u>	0.37
Int	ermediate Results							
Segr	ment Vertical Class	5			Free-Flow Speed,	mi/h		56.0
Spe	ed Slope Coefficient	16.3	36392		Speed Power Coe	fficier	nt	1.11192
PF S	lope Coefficient	-0.9	0.98186		PF Power Coefficie	ent		0.88989
In Pa	assing Lane Effective Length?	No	Vo		Total Segment De	ensity,	veh/mi/ln	2.8
%lm	proved % Followers	0.0		% Improved Avg Speed			0.0	
Sul	osegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	332	6	-		-		51.5
2	Horizontal Curve	126	7	191	10	2		51.5
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flow	r Rate, veh/h		242				166	
Perc	entage 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	
Perc	ent Followers at Midpoint (PFPLmid							
Vel	nicle Results							
Aver	rage Speed, mi/h	51.5	5		Percent Followers, %			35.7
Segr	ment Travel Time, minutes	1.01	1		Follower Density,	follov	vers/mi/ln	2.8
Vehicle LOS B			1 Follower Density, folk					

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

			Segr	ment 11		
Vehi	cle Inputs					
Segme	ent Type	Passing Constrain	ned	Length, ft		3537
Lane V	Width, ft	12		Shoulder Width, f	t	6
Speed	l Limit, mi/h	55		Access Point Dens	Access Point Density, pts/mi	
Dem	nand and Capacity					
Direct	ional Demand Flow Rate, veh/h	407	407 Opposing D		d Flow Rate, veh/h	-
Peak H	Hour Factor	0.95		Total Trucks, %		22.00
Segme	ent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.24
Inte	rmediate Results					·
Segme	ent Vertical Class	1		Free-Flow Speed,	mi/h	60.8
Speed	I Slope Coefficient	3.83915		Speed Power Coe	fficient	0.41674
PF Slo	pe Coefficient	-1.30913		PF Power Coefficie	ent	0.76387
In Pass	sing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.4
%lmpi	roved % Followers	20.4		% Improved Avg S	Speed	2.1
Subs	segment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	950	19	910	2	58.5
2	Tangent	2587	-		-	58.5
Vehi	cle Results					
Averaç	ge Speed, mi/h	59.7		Percent Followers	, %	48.3
Segme	ent Travel Time, minutes	0.67	Follower Density, followers/mi/ln			2.6
Vehicle	e LOS	В				
			Segr	ment 12		
Vehi	cle Inputs					
Segme	ent Type	Passing Constrain	ned	Length, ft	2323	
Lane \	Width, ft	12		Shoulder Width, f	6	
Speed	I Limit, mi/h	55		Access Point Dens	Access Point Density, pts/mi	
Dem	nand and Capacity			<u> </u>		
	ional Demand Flow Rate, veh/h	407		Opposing Deman	d Flow Rate, veh/h	-
	Hour Factor	0.95		Total Trucks, %		22.00
Segme	ent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.24
Inte	rmediate Results					
Segme	ent Vertical Class	3		Free-Flow Speed,	mi/h	58.0
	I Slope Coefficient	8.42234		Speed Power Coe		0.61640
•	pe Coefficient	-1.37014		PF Power Coefficie		0.76390
In Pas	sing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	3.8
%lmpi	roved % Followers	18.2		% Improved Avg	1.8	

#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2112	143	2	2	53.9
2	Tangent	211	-		-	53.9
Vel	hicle Results					
Ave	rage Speed, mi/h	54.9		Percent Follower	rs, %	49.8
Seg	ment Travel Time, minutes	0.48	0.48		, followers/mi/ln	3.0
Veh	icle LOS	В				
			Segm	ent 13		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constrain	ined	Length, ft		1373
Lane	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point De	nsity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	407		Opposing Dema	und Flow Rate, veh/h	-
Peal	k Hour Factor	0.95		Total Trucks, %		22.00
Seg	ment Capacity, veh/h	1700		Demand/Capaci	ty (D/C)	0.24
Int	ermediate Results	<u>'</u>		<u> </u>		•
Seg	ment Vertical Class	3		Free-Flow Speed	d, mi/h	58.5
Speed Slope Coefficient		8.19723		Speed Power Co	pefficient	0.61142
PF Slope Coefficient		-1.43155		PF Power Coeffic	cient	0.75838
In Pa	assing Lane Effective Length?	Yes		Total Segment D	Density, veh/mi/ln	4.0
%lm	nproved % Followers	17.1		% Improved Avg	g Speed	1.6
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	lius, ft Superelevation, %		Average Speed, mi/h
1	Horizontal Curve	1267	104	2 2		52.6
2	Tangent	106	-		-	54.6
Vel	hicle Results					
Ave	rage Speed, mi/h	53.6		Percent Follower	rs, %	51.5
Seg	ment Travel Time, minutes	0.29		Follower Density, followers/mi/ln		3.2
Veh	icle LOS	В		,		
		<u>'</u>	Segm	ent 14		•
Vel	hicle Inputs					
Seg	ment Type	Passing Lanes		Length, ft		2851
	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point De	nsity, pts/mi	3.7
De	mand and Capacity	<u> </u>				
	ectional Demand Flow Rate, veh/h	425		Opposing Dema	and Flow Rate, veh/h	-
Peal	k Hour Factor	0.96		Total Trucks, %		22.00
	document was created by an app	+		-		0.35

1 Horizontal Curve 1267 1273 2 54.0 2 Tangent 53 - 54.0 3 Horizontal Curve 1003 1273 2 54.0 3 Horizontal Curve 1003 1273 2 54.0 3 Horizontal Curve 1003 1273 2 54.0 4 Tangent 528 - 528 54.0  Passing Lane Results    Faster Lane   Faster Lane   Stower Lane   True   Seg	ment Vertical Class	4			Free-Flow Spee	ed, mi/h	1	57.2	
In Passing Lane Effective Length? No Supervision   3.2   3.	Spe	ed Slope Coefficient	11.0	)8813		Speed Power Coefficient			1.08475
Subsegment Data   Subsegment Data	PF S	Slope Coefficient	-1.0	8740		PF Power Coef	ficient		0.87947
## Segment Type   Length, ft   Radius, ft   Superclevation, %   Average Speed, mil.	In P	assing Lane Effective Length?	No			Total Segment	Density	, veh/mi/ln	3.2
Segment Type	%In	nproved % Followers	0.0			% Improved Av	vg Spee	d	0.0
Horizontal Curve	Su	bsegment Data							
Tangent   53   -	#	Segment Type	Len	gth, ft	lius, ft	Suj	perelevation, %	Average Speed, mi/h	
Horizontal Curve	1	Horizontal Curve	126	7	127	3	2		54.0
Tangent   S28   -	2	Tangent	53		-		-		54.0
Faster Lane	3	Horizontal Curve	100	3	'3	2		54.0	
Faster Lane	4	Tangent	528			-		54.0	
Flow Rate, veh/h   Percentage of Heavy Vehicles (HV%), %   8.80	Pas	ssing Lane Results							
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 (FPLmid), % 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 1700 Demand/Capacity (D/C) 0.25  Intermediate Results  Segment Vertical Class 4 Free-Flow Speed, mi/h 55.0  Speed Spoed Sope Coefficient 10.19061 Speed 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	Faster Lane							Slower Lane	
Segment Type	Flow Rate, veh/h 251						174		
Average Speed at Midpoint (SPLmid), mi/h Percent Followers at Midpoint (PFPLmid), w    29,0	Percentage of Heavy Vehicles (HV%), % 8.80						40.98		
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	Initial Average Speed (Sint), mi/h 58.7						52.8		
Vehicle Results  Average Speed, mi/h 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 1700 Demand/Capacity (D/C) 10.25  Intermediate Results  Segment Vertical Class 4 Free-Flow Speed, mi/h 55.0 Speed Sope Coefficient 10.19061 Speed Power Coefficient 0.72811 In Passing Lane Effective Length? Yes Total Segment Density, veh/mi/ln 4.9 %Improved % Followers 2.5	Average Speed at Midpoint (SPLmid), mi/h 60.6							50.9	
Average Speed, mi/h  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  Peak Hour Factor  0.96  Total Trucks, %  22.00  Segment Capacity, veh/h  1700  Demand/Capacity (D/C)  1.25  Intermediate Results  Segment Vertical Class  4  Free-Flow Speed, mi/h  55.0  Speed Slope Coefficient  10.19061  Speed Power Coefficient  0.72811  In Passing Lane Effective Length?  Yes  Total Segment Density, veh/mi/ln  4.9  % Improved & Followers  2.5	Percent Followers at Midpoint (PFPLmid), % 29.0						13.6		
Segment Travel Time, minutes  0.60 Follower Density, followers/mi/In 3.2  Segment 15  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 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 0.72811 In Passing Lane Effective Length? Ves Total Segment Density, veh/mi/In 4.9 %Improved % Followers 2.5	Ve	hicle Results							
Name	Ave	rage Speed, mi/h	54.0	)		Percent Follow	ers, %		40.1
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	Seg	ment Travel Time, minutes	0.60	)		Follower Densi	ty, follo	wers/mi/ln	3.2
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	Veh	icle LOS	В						
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				Se	gm	ent 15			
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	<b>V</b> e	hicle Inputs							
Demand and Capacity   Directional Demand Flow Rate, veh/h   425   Opposing Demand Flow Rate, veh/h   -	Seg	ment Type	Pas	sing Constrained		Length, ft			3010
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	Lan	e Width, ft	12			Shoulder Width, ft			6
Directional Demand Flow Rate, veh/h  Peak Hour Factor  0.96  Total Trucks, %  22.00  Segment Capacity, veh/h  Intermediate Results  Segment Vertical Class  4  Free-Flow Speed, mi/h  Speed Slope Coefficient  10.19061  PF Slope Coefficient  1-1.57717  PF Power Coefficient  In Passing Lane Effective Length?  Ves  Total Segment Density, veh/mi/ln  4.9  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln  Ventral Segment Density, veh/mi/ln	Spe	ed Limit, mi/h	55			Access Point Density, pts/mi 1.8			
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	De	mand and Capacity							
Segment Capacity, veh/h  Intermediate Results  Segment Vertical Class  4 Free-Flow Speed, mi/h  Speed Slope Coefficient  In Passing Lane Effective Length?  Yes  Demand/Capacity (D/C)  0.25  Pere-Flow Speed, mi/h  Speed Power Coefficient  0.61972  PF Power Coefficient  0.72811  In Passing Lane Effective Length?  Yes  Total Segment Density, veh/mi/ln  4.9  % Improved % Followers  2.5	Dire	ectional Demand Flow Rate, veh/h	425			Opposing Dem	nand Flo	ow Rate, veh/h	-
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	Pea	k Hour Factor	0.96	<u> </u>		Total Trucks, %			22.00
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	Seg	ment Capacity, veh/h	170	0		Demand/Capa	city (D/	C)	0.25
Speed Slope Coefficient10.19061Speed Power Coefficient0.61972PF Slope Coefficient-1.57717PF Power Coefficient0.72811In Passing Lane Effective Length?YesTotal Segment Density, veh/mi/ln4.9%Improved % Followers21.8% Improved Avg Speed2.5	Int	ermediate Results							
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	Seg	ment Vertical Class	4			Free-Flow Spee	ed, mi/h	1	55.0
In Passing Lane Effective Length?  Yes  Total Segment Density, veh/mi/In  4.9  %Improved % Followers  21.8  % Improved Avg Speed  2.5	Spe	ed Slope Coefficient	10.1	19061		Speed Power C	Coefficie	ent	0.61972
%Improved % Followers 21.8 % Improved Avg Speed 2.5	PF S	Slope Coefficient	-1.5	57717		PF Power Coef	ficient		0.72811
	In P	assing Lane Effective Length?	Yes			Total Segment	Density	ı, veh/mi/ln	4.9
Cultipagement Data	%In	nproved % Followers	21.8	3		-			
Supsedment Data	Su	bsegment Data							

1	Horizontal Curve	2006	19 <sup>-</sup>	10	2	49.9
2	Tangent	106	-		-	49.9
3	Horizontal Curve	898	104	42	0	49.9
<b>V</b> e	hicle Results	_				<u>'</u>
Ave	rage Speed, mi/h	51.2		Percent Follower	ers, %	57.1
Seg	ment Travel Time, minutes	0.67		Follower Densit	ty, followers/mi/ln	3.7
Veh	icle LOS	В				
		·	Segn	nent 16		
<b>V</b> el	hicle Inputs					
Seg	ment Type	Passing Constra	ined	Length, ft		9875
Lane	e Width, ft	12		Shoulder Width	n, ft	6
Spe	ed Limit, mi/h	55		Access Point De	ensity, pts/mi	1.6
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	425		Opposing Dem	and Flow Rate, veh/h	-
Peal	k Hour Factor	0.96		Total Trucks, %		22.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.25
Int	ermediate Results					
Seg	ment Vertical Class	4		Free-Flow Spee	ed, mi/h	54.8
Spe	ed Slope Coefficient	11.33982		Speed Power C	oefficient	0.44931
PF S	Slope Coefficient	-1.86542		PF Power Coeff	icient	0.77738
In P	assing Lane Effective Length?	Yes	Yes		Density, veh/mi/ln	5.5
%ln	nproved % Followers	13.2	13.2		g Speed	1.1
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1426	104	12	0	48.0
2	Tangent	317	-		-	48.0
3	Horizontal Curve	2006	12	73	2	48.0
4	Tangent	53	-		-	48.0
5	Horizontal Curve	898	114	46	2	48.0
6	Tangent	739	-		-	48.0
7	Horizontal Curve	1056	163	37	2	48.0
8	Tangent	264	-		-	48.0
9	Horizontal Curve	1426	95!	5	2	48.0
10	Tangent	1690	-		-	48.0
Vel	hicle Results					
Ave	rage Speed, mi/h	48.5		Percent Followe	ers, %	61.7
Seg	ment Travel Time, minutes	2.31		Follower Densit	ty, followers/mi/ln	4.7
Veh	icle LOS	С				
			Segm	nent 17		
			3			

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

Segr	ment Type	Passing Zone		Length, ft		1742
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spec	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	0.0
Der	mand and Capacity					
Dired	ctional Demand Flow Rate, veh/h	425		Opposing Deman	d Flow Rate, veh/h	364
Peak	Hour Factor	0.96		Total Trucks, %		22.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.25
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	62.0
Spee	Speed Slope Coefficient 3.67118			Speed Power Coe	fficient	0.50303
PF SI	lope Coefficient	-1.30044		PF Power Coefficie	ent	0.78859
In Passing Lane Effective Length? Yes			Total Segment De	nsity, veh/mi/ln	3.4	
%lm	%Improved % Followers 12.3			% Improved Avg	Speed	0.8
Suk	osegment Data					
#	# Segment Type Length, ft Rac		Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1742	-		-	59.9
Ver	nicle Results					
Average Speed, mi/h 60.4			Percent Followers	, %	48.4	
Segr	ment Travel Time, minutes	0.33		Follower Density,	followers/mi/ln	3.0
Vehi	cle LOS	В				
		Se	gm	ent 18		
Ver	nicle Inputs					
	ment Type	Passing Constrained		Length, ft		15206
_	e Width, ft	12		Shoulder Width, ft		6
	ed Limit, mi/h	55		Access Point Density, pts/mi		1.4
Der	mand and Capacity					
	ctional Demand Flow Rate, veh/h	425		Opposing Deman	d Flow Rate veh/h	
	Hour Factor	0.96		Opposing Demand Flow Rate, veh/h		22.00
	ment Capacity, veh/h	1700		Total Trucks, %  Demand/Capacity (D/C)		0.25
	ermediate Results	1,700				0.23
	ment Vertical Class	1		Free-Flow Speed,	mi/h	61.6
	ed Slope Coefficient	3.97156		Speed Power Coe		0.41674
	lope Coefficient	-1.34056		·		0.69492
	·	Yes		PF Power Coefficient  Total Segment Density, veh/mi/ln		4.0
In Passing Lane Effective Length? Yes %Improved % Followers 6.8			% Improved Avg S		0.0	
	osegment Data	0.0		70 Improved 7 kg s		0.0
# #		Longth ft	Dac	liuc ft	Superalogation 9/	Average Speed mi/h
	Segment Type	Length, ft		lius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1637 317	254	1	<sup>2</sup>	59.1
	Tangent document was created by an app	olication that isn't licens		o use <u>novaPDF</u> . ;	-	59.1
	ase a license to generate PDF f				2	52.6

	ı					
4	Tangent	317	-		-	59.1
5	Horizontal Curve	898	955		2	52.6
6	Tangent	106	-		-	59.1
7	Horizontal Curve	1003	716	1	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	i	2	52.6
12	Tangent	422	-		-	59.1
13	Horizontal Curve	1478	114	6	2	52.6
14	Tangent	686	-		-	59.1
15	Horizontal Curve	2323	191	0	2	58.8
16	Tangent	53	-		-	59.1
17	Horizontal Curve	1214	1214 1273		2	58.8
18	Tangent	1214	-		-	59.1
Veh	nicle Results					
Aver	age Speed, mi/h	55.5		Percent Followers,	%	52.3
Segn	nent Travel Time, minutes	3.11		Follower Density, followers/mi/ln		3.7
Vehic	cle LOS	В				
		Se	gm	ent 19		
Ver	nicle Inputs					
Segn	nent Type	Passing Constrained		Length, ft		2481
Lane	Width, ft	12		Shoulder Width, ft		6
Spee	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	2.1
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	477		Opposing Demand	d Flow Rate, veh/h	-
Peak	Hour Factor	0.93		Total Trucks, %		22.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.28
Inte	ermediate Results					
Sean	nent Vertical Class	3		Free-Flow Speed,	mi/h	58.0
	d Slope Coefficient	8.50328		Speed Power Coef		0.61856
	ope Coefficient	-1.36320		PF Power Coefficie		0.76477
	ssing Lane Effective Length?	Yes		Total Segment De		4.8
	proved % Followers	5.6		% Improved Avg S		0.0
	osegment Data	3.0		70 Improved 7tty c		0.0
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
<u>"</u> 1	Horizontal Curve	1478	127		2	53.4
2	Tangent	1003	-		-	53.4
	<u> </u>	1000				700.1
Ver	nicle Results					
Average Speed. mi/h  53.4  Percent Followers, %  53.9  This document was created by an application that isn't licensed to use novaPDF.						
	locument was created by an apr	dication that icn't lican	664 t	O LICE DOVODDE -		

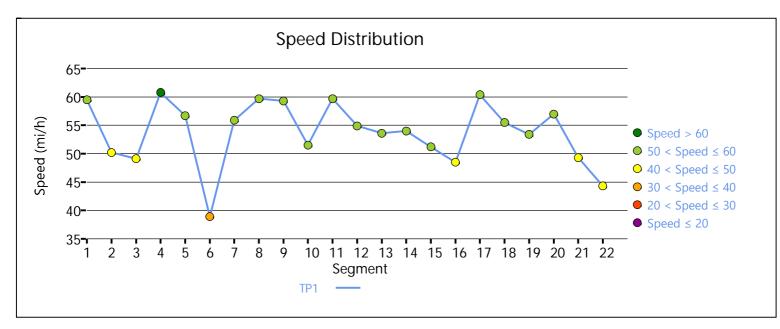
Vehi	icle LOS	С				
		Se	egm	ent 20		
Vel	nicle Inputs					
Segi	ment Type	Passing Constrained		Length, ft		4805
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		4.4
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	477		Opposing Deman	d Flow Rate, veh/h	-
Peak	K Hour Factor	0.93		Total Trucks, %		22.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.28
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	60.9
Spe	ed Slope Coefficient	3.85445		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.29156		PF Power Coefficie	ent	0.76622
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	4.3
%Improved % Followers		4.5		% Improved Avg Speed		0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1901	143	32	2	58.3
2	Tangent	211	-		-	58.3
3	Horizontal Curve	1426	143	32	2	58.3
4	Tangent	211	-		-	58.3
5	Horizontal Curve	1056 95		5	2	52.5
Vel	nicle Results					
Aver	rage Speed, mi/h	57.0		Percent Followers, %		52.0
Segi	ment Travel Time, minutes	0.96		Follower Density, followers/mi/ln		4.2
Vehi	icle LOS	С				
		Se	egm	ent 21		
Vel	nicle Inputs					
Segi	ment Type	Passing Lanes		Length, ft		5704
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		4.6
De	mand and Capacity					
Directional Demand Flow Rate, veh/h		477		Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor		0.93		Total Trucks, %		22.00
Segi	ment Capacity, veh/h	1100		Demand/Capacity	/ (D/C)	0.43
Int	ermediate Results					
Segi	ment Vertical Class	5		Free-Flow Speed,	mi/h	54.7
_		+				

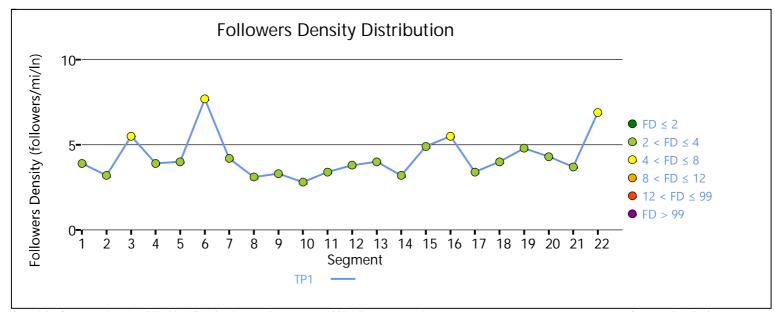
PF S	Slope Coefficient	-0.9	-0.94419		PF Power Coefficient			0.92925
In Passing Lane Effective Length?			No		Total Segment Density, veh/mi/ln			3.7
%In	nproved % Followers	0.0	0.0 % Improved Avg Speed				0.0	
Su	bsegment Data							
#	Segment Type	Len	gth, ft	lius, ft	Supe	erelevation, %	Average Speed, mi/h	
1	Tangent	106		-		-		49.3
2	Horizontal Curve	132	0	143	2	2		49.3
3	Tangent	53		-		-		49.3
4	Horizontal Curve	116	2	955		2		49.3
5	Tangent	370		-		-		49.3
6	Horizontal Curve	116	2	143	2	2		49.3
7	Tangent	153	1	-		-		49.3
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		277				200	
Perc	entage of Heavy Vehicles (HV%), %		8.80				40.27	
Initi	al Average Speed (Sint), mi/h		57.1				47.9	
Ave	rage Speed at Midpoint (SPLmid), m	ni/h	59.0				46.0	
Perc	ent Followers at Midpoint (PFPLmid	l), %	26.5				11.7	
Ve	hicle Results							
Ave	rage Speed, mi/h	}		Percent Followers	5, %		37.8	
Segment Travel Time, minutes			Follower Density, followers/mi/ln		/ers/mi/ln	3.7		
Vehicle LOS B								
			Se	gm	ent 22			
<b>V</b> el	hicle Inputs							
Seg	ment Type	Pass	sing Constrained		Length, ft			5228
Lan	e Width, ft	12			Shoulder Width, ft		6	
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi			ts/mi	3.0
De	mand and Capacity							
	ctional Demand Flow Rate, veh/h	477			Opposing Demand Flow Rate, veh/h			-
Peal	K Hour Factor	0.93	0.93		Total Trucks, %		22.00	
Seg	ment Capacity, veh/h	170	0		Demand/Capacity	Demand/Capacity (D/C)		0.28
Int	ermediate Results							•
Seg	ment Vertical Class	5			Free-Flow Speed,	mi/h		51.9
	Speed Slope Coefficient 14.88471			Speed Power Coe		t	0.58231	
	Slope Coefficient		7122		PF Power Coefficient			0.84644
	assing Lane Effective Length?	Yes				al Segment Density, veh/mi/ln		6.9
	nproved % Followers	18.3	3		% Improved Avg			2.0
						•		1
Su	bsegment Data							

1	Tangent	ent 2112		-	43.5				
2	Horizontal Curve	1426	1910	2	43.5				
3	Tangent	1690	-	-	43.5				
Veh	Vehicle Results								
Avera	age Speed, mi/h	44.3	Percent Followers,	, %	63.2				
Segn	nent Travel Time, minutes	1.34	Follower Density,	followers/mi/ln	5.6				
Vehic	cle LOS	С							
Faci	Facility Results								

## | Facility Results

Т	Follower Density, followers/mi/ln	LOS
1	3.9	В



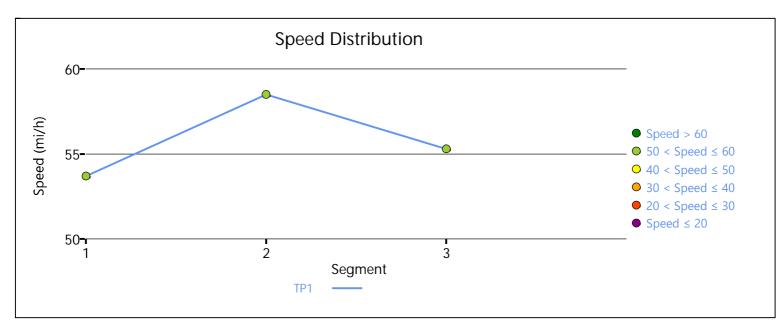


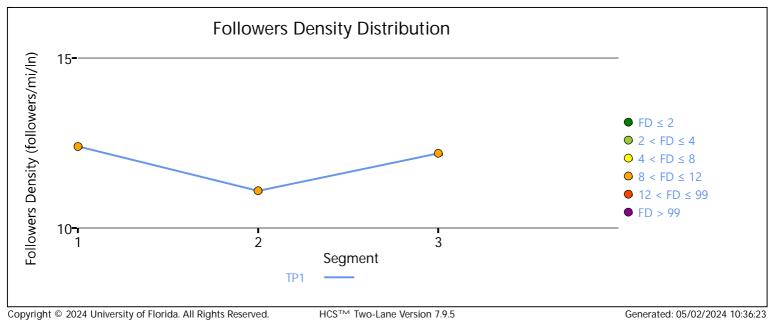
Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility J (SB) - FUTURE.xuf Generated: 05/02/2024 10:35:41

_						
Pro	oject Information					
Ana	lyst			Date		4/27/2024
Age	ency			Analysis Year		2024
Juri	sdiction			Time Analyzed		
Proj	ect Description	CA border to Br south UGB	ookings	Units		U.S. Customary
			Segi	ment 1		
<b>V</b> e	hicle Inputs					
Seg	ment Type	Passing Constra	ined	Length, ft		5650
Lan	e Width, ft	12		Shoulder Width,	ft	6
Spe	ed Limit, mi/h	55		Access Point Den	sity, pts/mi	9.3
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	929		Opposing Demai	nd Flow Rate, veh/h	-
Pea	k Hour Factor	0.92		Total Trucks, %		23.90
Seg	ment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.55
Int	ermediate Results					
Seg	ment Vertical Class	2		Free-Flow Speed, mi/h		58.1
Spe	ed Slope Coefficient	4.79071		Speed Power Coefficient		0.47129
PF Slope Coefficient		-1.33928		PF Power Coeffic	ient	0.75116
In Passing Lane Effective Length?		No	No		ensity, veh/mi/ln	12.4
%In	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5650	-		-	53.7
<b>V</b> e	hicle Results	•			•	
Ave	rage Speed, mi/h	53.7		Percent Followers	s, %	71.8
Seg	ment Travel Time, minutes	1.20		Follower Density, followers/mi/ln		12.4
Veh	icle LOS	E				
		·	Segi	ment 2		
<b>V</b> e	hicle Inputs					
Seg	ment Type	Passing Zone	Passing Zone Length, ft			1267
· ·		12			ft	6
Spe	ed Limit, mi/h	55	55		sity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	903		Opposing Demai	nd Flow Rate, veh/h	1010
	k Hour Factor	0.93		Total Trucks, %		23.90
	Segment Capacity, veh/h 1700			Demand/Capacity (D/C) 0.53		

Segment Vertical Class 1					Free-Flov	w Speed,	mi/h	61.9	
Speed Slope Coefficient			3.79184			ower Coe		0.43660	
PF Slope Coefficient			-1.37174		-	r Coefficie		0.75716	
In Passing Lane Effective Length?			No		Total Seg	gment De	nsity, veh/mi/ln	11.1	
%lm	proved % Foll	owers	0.0		% Impro	ved Avg S	Speed	0.0	
Suk	osegment	Data	,		<u> </u>			·	
#	Segment Typ	oe	Length, ft	Ra	ndius, ft		Superelevation, %	Average Speed, mi/h	
1	Tangent		1267	-			-	58.5	
Ver	nicle Resul	lts							
Aver	age Speed, m	 i/h	58.5		Percent I	Followers	, %	71.9	
	ment Travel Ti		0.25		Follower	Density,	followers/mi/ln	11.1	
Vehi	cle LOS		D						
			<u>'</u>	Segi	ment 3				
Ver	nicle Input	is							
Segr	ment Type		Passing Constrain	ed	Length, f	t		1478	
	· Width, ft		12		+ -	r Width, f	t	6	
Spee	ed Limit, mi/h		55		Access P	oint Dens	sity, pts/mi	3.6	
Der	mand and	Capacity							
Directional Demand Flow Rate, veh/h			903 Opposing			g Deman	d Flow Rate, veh/h	-	
Peak	Hour Factor		0.93	Total Tru	cks, %		23.90		
Segr	ment Capacity	, veh/h	1700		Demand	/Capacity	(D/C)	0.53	
Inte	ermediate	Results							
Segr	ment Vertical (	Class	2		Free-Flow Speed, mi/h			59.8	
Spee	ed Slope Coeff	ficient	5.00194		Speed Po	ower Coe	fficient	0.46539	
PF S	lope Coefficie	nt	-1.46637		PF Powe	r Coefficie	ent	0.73624	
In Pa	nssing Lane Eff	fective Length?	No		Total Seç	gment De	nsity, veh/mi/ln	12.2	
%lm	proved % Foll	owers	0.0		% Impro	ved Avg S	Speed	0.0	
Suk	osegment	Data							
#	Segment Typ	ре	Length, ft	Ra	ndius, ft		Superelevation, %	Average Speed, mi/h	
1	Tangent		1478	-			-	55.3	
Ver	nicle Resul	lts							
Aver	age Speed, m	i/h	55.3		Percent I	Percent Followers, % 74.3			
Segr	ment Travel Ti	me, minutes	0.30		Follower	Density,	followers/mi/ln	12.2	
Vehi	cle LOS		E						
Fac	ility Resul	ts							
	т	Follower	r Density, followers.	/mi/ln		LOS			
	1		12.2			E			





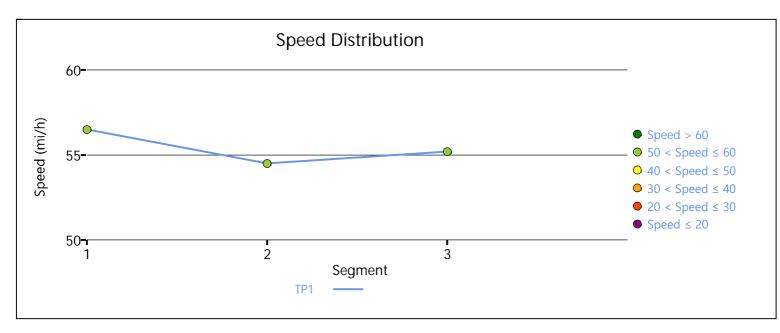
Copyright © 2024 University of Florida. All Rights Reserved.

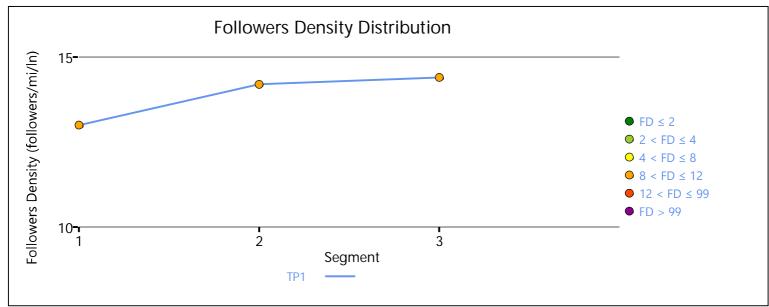
HCS™ Two-Lane Version 7.9.5 US 101 - Facility K (NB) - FUTURE.xuf

	HCS7 Tw	o-Lan <u>e</u>	Highway Re	eport	
Project Information					
Analyst			Date		4/14/2024
Agency			Analysis Year		2024
Jurisdiction			Time Analyzed		
Project Description	Brooking south border	UGB to CA	Units		U.S. Customary
		Segr	ment 1		<b>'</b>
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		6230
Lane Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h	55		Access Point Dens	sity, pts/mi	6.8
Demand and Capacity	<u>'</u>				
Directional Demand Flow Rate, veh/l	h 1010		Opposing Deman	d 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	1		mi/h	60.2
Speed Slope Coefficient	3.83193	3.83193		fficient	0.41674
PF Slope Coefficient	-1.28831	-1.28831		ent	0.76237
In Passing Lane Effective Length?	No	No		nsity, veh/mi/ln	13.0
%Improved % Followers	0.0	% Improved Avg Speed		Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	dius, 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				
		Segr	ment 2		·
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		1742
Lane Width, ft 12		Shoulder Width, f	t	6	
Speed Limit, mi/h 55		Access Point Dens	sity, pts/mi	6.1	
Speed Limit, mi/h					
Speed Limit, mi/h  Demand and Capacity					
•			Opposing Deman	d Flow Rate, veh/h	-
Demand and Capacity			Opposing Deman Total Trucks, %	d Flow Rate, veh/h	24.00

This document was created by an application that isn't licensed to use <u>novaPDF</u>. Purchase a license to generate PDF files without this notice.

			Ta		T			T-0.
Segment Vertical Class			2			w Speed,		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				nsity, veh/mi/ln	14.2
%lm	proved % Foll	lowers	0.0		% Impro	ved Avg S	Speed	0.0
Suk	osegment	Data						
#	Segment Ty	ре	Length, ft	Ra	dius, ft		Superelevation, %	Average Speed, mi/h
1	Tangent		1742	-			-	54.5
Veľ	nicle Resu	lts						
Aver	age Speed, m	ii/h	54.5		Percent	Followers	, %	76.8
Segr	ment Travel Ti	me, minutes	0.36		Follower	Density,	followers/mi/ln	14.2
Vehi	cle LOS		E					
				Segr	nent 3			
Ver	nicle Inpu	ts						
Segr	ment Type		Passing Constraine	ed	Length, t	t		422
Lane	: Width, ft		12		Shoulde	r Width, f	t	6
Spee	ed Limit, mi/h		55		Access Point Density, pts/mi		sity, pts/mi	12.5
Der	mand and	Capacity	<u>'</u>		<u>'</u>			,
Dire	ctional Demar	nd Flow Rate, veh/h	1037		Opposin	g Deman	d Flow Rate, veh/h	Ţ-
Peak	Hour Factor		0.92 Total		Total Tru	Total Trucks, %		24.00
Segr	nent Capacity	, veh/h	1700		Demand	Demand/Capacity (D/C)		0.61
Inte	ermediate	Results						
Segr	ment Vertical	Class	1		Free-Flow Speed, mi/h			58.8
Spee	ed Slope Coef	ficient	3.69437		Speed Po	Speed Power Coefficient		0.41674
PF S	lope Coefficie	nt	-1.40521		PF Power Coefficient			0.73669
In Pa	ssing Lane Ef	fective Length?	No		Total Seg	Total Segment Density, veh/mi/ln		14.4
%lm	proved % Fol	lowers	0.0		% Impro	ved Avg S	Speed	0.0
Suk	osegment	Data						
#	Segment Ty	pe	Length, ft	Ra	dius, ft		Superelevation, %	Average Speed, mi/h
1	Tangent		422	-			-	55.2
Ver	nicle Resu	lts						
Aver	age Speed, m	ıi/h	55.2		Percent	Followers	, %	76.4
Segr	Segment Travel Time, minutes		0.09		Follower	Density,	followers/mi/ln	14.4
Vehi	Vehicle LOS		E					
Fac	ility Resu	lts			•			
	T Follower Density, followers/mi/ln				LOS			
			13.3				E	





Copyright © 2024 University of Florida. All Rights Reserved.

HCS<sup>™</sup> Two-Lane Version 7.9.5 US 101 - Facility K (SB) - FUTURE.xuf Generated: 05/02/2024 10:36:57