SH 83 Safety and Operations Analysis: Bayou Gulch to El Paso County Line MP 30.20 – MP 53.88 Project Code 23008

Appendix E – HCS Analysis and Synchro Evaluation Results

Prepared for:





Prepared by:



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		HCS7 Two	o-Lane	Highwa	y Report	
Project Info	ormation					
Analyst		CONSOR/Apex		Date		1/11/2022
Agency		CDOT Region 1		Analysis Yea	r	2020
Jurisdiction		Douglas County		Time Period	Analyzed	AM Peak
Project Descript	ion	SH 83 Safety and Operation Analys		Unit		United States Customary
			Segn	nent 1		
Vehicle Inp	outs					
Segment Type		Passing Constrai	ned	Length, ft		5335
Lane Width, ft		12		Shoulder Wi	dth, ft	3
Speed Limit, mi	/h	65		Access Point	: Density, pts/mi	8.0
Demand ar	nd Capacity					
Directional Den	nand Flow Rate, veh/h	251		Opposing De	emand Flow Rate, veh/h	-
Peak Hour Facto	or	0.94		Total Trucks,	%	4.90
Segment Capac	ity, veh/h	1700		Demand/Capacity (D/C)		0.15
Intermedia	te Results					
Segment Vertic	al Class	1		Free-Flow Sp	peed, mi/h	69.8
Speed Slope Co	pefficient	4.34586		Speed Powe	r Coefficient	0.41674
PF Slope Coeffic	cient	-1.20426		PF Power Co	efficient	0.78662
In Passing Lane	Effective Length?	No		Total Segme	nt Density, veh/mi/ln	1.3
%Improved % F	ollowers	0.0		% Improved	Avg Speed	0.0
Subsegmen	nt Data					
# Segment	Туре	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent		2955	-		-	67.9
2 Horizonta	al Curve	2380	960)	8	64.2
Vehicle Res	sults					
Average Speed,	mi/h	66.2		Percent Follo	owers, %	33.4
Segment Travel	Time, minutes	0.92		Followers De	ensity, followers/mi/ln	1.3
Vehicle LOS		Α				
Bicycle Res	ults					
Percent Occupi	ed Parking	0		Pavement Co	ondition Rating	4
Flow Rate Outsi	de Lane, veh/h	251		Bicycle Effec	tive Width, ft	15
Bicycle LOS Sco	re	5.18		Bicycle Effec	tive Speed Factor	5.07
		E				i i

Vehic	cle Inputs					
	ent Type	Passing Zone		Length, ft		1635
Lane W	Vidth, ft	12		Shoulder Width, ft		2
Speed	Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dem	and and Capacity					
Direction	onal Demand Flow Rate, veh/h	251		Opposing Deman	d Flow Rate, veh/h	115
Peak H	lour Factor	0.94		Total Trucks, %		9.00
Segme	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.15
Inter	mediate Results					
Segme	ent Vertical Class	1		Free-Flow Speed,	mi/h	69.0
Speed	Slope Coefficient	3.96399		Speed Power Coe	fficient	0.56787
PF Slop	pe Coefficient	-1.20621		PF Power Coefficie	ent	0.81947
In Pass	ing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.2
%Impr	oved % Followers	0.0		% Improved Avg S	Speed	0.0
Subs	egment Data					
# 5	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1 T	Fangent	1635	-	-		67.6
Vehi	cle Results					
Averag	ge Speed, mi/h	67.6		Percent Followers,	, %	32.2
Segme	ent Travel Time, minutes	0.27		Followers Density, followers/mi/ln		1.2
Vehicle	e LOS	A				
Bicyc	cle Results					
Percen	t Occupied Parking	0		Pavement Condition	on Rating	4
Flow R	ate Outside Lane, veh/h	251		Bicycle Effective Width, ft		14
Bicycle	LOS Score	6.81		Bicycle Effective Speed Factor		5.07
Bicycle	LOS	F				
		Se	gn	nent 3		
Vehi	cle Inputs					
Segme	ent Type	Passing Constrained		Length, ft		5860
Lane W	Vidth, ft	12		Shoulder Width, ft	t	1
Speed	Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dem	and and Capacity					
Direction	onal Demand Flow Rate, veh/h	271		Opposing Demand	d Flow Rate, veh/h	-
Peak H	lour Factor	0.94		Total Trucks, %		9.00
Segme	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.16
Inter	mediate Results					
Segme	ent Vertical Class	2	4	Free-Flow Speed,	mi/h	66.9

Spee	d Slope Coefficient	6.45386		Speed Power Coe	efficient	0.51255
PF SI	ope Coefficient	-1.27762	-1.27762		ent	0.76399
In Pa	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.6
%Im _l	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	3360 -			-	64.3
2	Horizontal Curve	2500	960)	8	64.0
Vel	nicle Results					
Aver	age Speed, mi/h	64.2		Percent Followers	5, %	37.6
Segn	nent Travel Time, minutes	1.04		Followers Density	r, followers/mi/ln	1.6
Vehi	cle LOS	Α				
Bic	ycle Results					
Perce	ent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow	Rate Outside Lane, veh/h	271		Bicycle Effective V	Vidth, ft	13
Bicyc	le LOS Score	6.99		Bicycle Effective S	speed Factor	5.07
Bicyc	le LOS	F				
			Segn	nent 4		
Veh	nicle Inputs					
Segn	nent Type	Passing Zone		Length, ft		1100
Lane	Width, ft	12		Shoulder Width, ft		1
Spee	d Limit, mi/h	65		Access Point Density, pts/mi		8.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	280		Opposing Deman	nd Flow Rate, veh/h	128
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.16
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spee	d Slope Coefficient	3.92625		Speed Power Coefficient		0.56282
PF SI	ope Coefficient	-1.23055		PF Power Coeffici	ent	0.80949
In Pa	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.5
%Im _l	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	1915	-		-	66.8
Vel	icle Results					
Average Speed, mi/h 66.8						

Sear	ment Travel Time, minutes	0.19		Followers Density,	followers/mi/ln	1.5
	icle LOS	A		The state of the s		1
	ycle Results					
Perc	rent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	/ Rate Outside Lane, veh/h	280		Bicycle Effective W	Vidth, ft	13
Bicy	cle LOS Score	7.01		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
			Segr	nent 5		
Vel	hicle Inputs					
Segi	ment Type	Passing Constrained	<u> </u>	Length, ft		5335
Lane	e Width, ft	12		Shoulder Width, ft	t	1
Spe	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	mand and Capacity					·
Dire	ctional Demand Flow Rate, veh/h	280		Opposing Deman	d Flow Rate, veh/h	-
Peak	k Hour Factor	0.94		Total Trucks, %		9.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.16
Int	ermediate Results			<u> </u>		
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	4.26258		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.21926		PF Power Coefficient		0.78318
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.5
%Im	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	5335	-		-	66.2
Vel	hicle Results					
Avei	rage Speed, mi/h	66.2		Percent Followers,	, %	36.2
Segi	ment Travel Time, minutes	0.92		Followers Density,	followers/mi/ln	1.5
Vehi	icle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condition	on Rating	4
Flow	/ Rate Outside Lane, veh/h	280		Bicycle Effective W	Vidth, ft	13
Bicy	cle LOS Score	7.01		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
			Segr	nent 6		
Vel	hicle Inputs					
	ment Type	Passing Zone		Length, ft		1265

Lane Width, ft	12		Shoulder Width, f	ft	1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity	<u>'</u>		•		
Directional Demand Flow Rate, veh/h	278		Opposing Demar	nd Flow Rate, veh/h	128
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.16
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	3.92625		Speed Power Coe	efficient	0.56282
PF Slope Coefficient	-1.23055		PF Power Coeffici	ent	0.80949
In Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.5
%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	1925	-		-	66.8
Vehicle Results		·			·
Average Speed, mi/h	66.8		Percent Followers	5, %	35.3
Segment Travel Time, minutes	0.22		Followers Density	, followers/mi/ln	1.5
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow Rate Outside Lane, veh/h	278		Bicycle Effective V	Width, ft	13
Bicycle LOS Score	7.00		Bicycle Effective Speed Factor		5.07
Bicycle LOS	F				
		Segn	nent 7		
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		4225
Lane Width, ft	12		Shoulder Width, f	ft	1
Speed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
Demand and Capacity			<u> </u>		•
Directional Demand Flow Rate, veh/h	278		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.16
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.25120		Speed Power Coe		0.41674
PF Slope Coefficient	-1.22936		PF Power Coeffici	ent	0.78276

In Pa	ssing Lane Effective Length?	No	No		ensity, veh/mi/ln	1.5
%Im	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	4225	-		-	66.2
Veł	nicle Results					
Aver	age Speed, mi/h	66.2		Percent Followers	5, %	36.3
Segr	nent Travel Time, minutes	0.72		Followers Density	, followers/mi/ln	1.5
Vehi	cle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow	Rate Outside Lane, veh/h	278		Bicycle Effective V	Vidth, ft	13
Bicyc	cle LOS Score	7.00		Bicycle Effective S	Speed Factor	5.07
Bicyc	cle LOS	F				
			Segr	ment 8		
Veł	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1740
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
Dei	nand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	278		Opposing Demar	nd Flow Rate, veh/h	128
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.16
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed, mi/h		68.3
Spee	ed Slope Coefficient	3.93387		Speed Power Coe	efficient	0.56282
PF SI	ope Coefficient	-1.21071		PF Power Coeffici	ent	0.81840
In Pa	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.5
%Im	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	660	-		-	66.8
2	Horizontal Curve	730	960	0	8	64.0
3	Tangent	350	-		-	66.8
Veł	nicle Results					
Aver	age Speed, mi/h	65.6		Percent Followers	5, %	34.6
5 1		0.30		Followers Density	followers/mi/ln	1.5

Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	278	278		Vidth, ft	13
Bicycle LOS Score	7.00	7.00		peed Factor	5.07
Bicycle LOS	F	F			
		Segn	nent 9		
Vehicle Inputs					
Segment Type	Passing Constrai	ined	Length, ft		3540
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	278		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.16
Intermediate Results			<u> </u>		•
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.24340		Speed Power Coe	fficient	0.41674
PF Slope Coefficient	-1.23939		PF Power Coeffici	ent	0.78054
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.5
%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	3540	-		-	66.2
Vehicle Results					
Average Speed, mi/h	66.2		Percent Followers	, %	36.6
Segment Travel Time, minutes	0.61		Followers Density	, followers/mi/ln	1.5
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	278		Bicycle Effective V	Vidth, ft	13
Bicycle LOS Score	7.00		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segm	ent 10		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1900
Lane Width, ft	12		9 Shoulder Width, f	†	1

Spe	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	278		Opposing Deman	d Flow Rate, veh/h	128
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.16
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	3.93652		Speed Power Coe	fficient	0.56282
PF S	lope Coefficient	-1.20442		PF Power Coeffici	ent	0.82119
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.4
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	osegment Data	•				
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	795	-		-	66.8
Vel	hicle Results					•
Aver	rage Speed, mi/h	66.8		Percent Followers	;, %	34.3
Segr	ment Travel Time, minutes	0.32		Followers Density, followers/mi/ln		1.4
Vehi	icle LOS	A				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	ion Rating	4
Flow	Rate Outside Lane, veh/h	278		Bicycle Effective V	Vidth, ft	13
Bicy	cle LOS Score	7.00		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	F				
			Segn	nent 11		
Vel	hicle Inputs					
Segr	ment Type	Passing Constrai	ned	Length, ft		475
	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity	<u>'</u>				
Dire	ctional Demand Flow Rate, veh/h	278		Opposing Deman	d Flow Rate, veh/h	-
	Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.16
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	4.21060		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.31148		PF Power Coeffici	ent	0.75510
I.a. D.	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.6

%Improved % Followers 0.0			% Improved Avg S	% Improved Avg Speed 0.0		
Sul	bsegment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	600	-		-	66.3
Ve	hicle Results					
Ave	rage Speed, mi/h	66.3		Percent Followers	, %	39.2
Segi	ment Travel Time, minutes	0.08		Followers Density,	followers/mi/ln	1.6
Veh	icle LOS	А				
Bic	ycle Results					
Perc	cent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	v Rate Outside Lane, veh/h	278		Bicycle Effective V	Vidth, ft	13
Bicy	cle LOS Score	7.00		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
			Segi	ment 12		
Ve	hicle Inputs					
Segi	ment Type	Passing Zone		Length, ft		1740
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	284		Opposing Deman	d Flow Rate, veh/h	130
Peal	k Hour Factor	0.94		Total Trucks, %	Total Trucks, %	
Segi	ment Capacity, veh/h	1700		Demand/Capacity	Demand/Capacity (D/C)	
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	3.93484		Speed Power Coe	fficient	0.56201
PF S	lope Coefficient	-1.21139		PF Power Coefficie	ent	0.81819
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.5
%Im	proved % Followers	0.0		% Improved Avg S	% Improved Avg Speed	
Sul	bsegment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2010	-		-	66.8
Ve	hicle Results					
Avei	rage Speed, mi/h	66.8		Percent Followers	, %	35.1
	ment Travel Time, minutes	0.30		Followers Density,	followers/mi/ln	1.5
	icle LOS	А				
Bic	ycle Results					
	ent Occupied Parking	0		1 Pavement Conditi	on Rating	4
	, ,	1			<i>J</i>	1

Flow	Rate Outside Lane, veh/h	284		Bicycle Effective W	Vidth, ft	13
Bicyc	le LOS Score	7.01		Bicycle Effective S	peed Factor	5.07
Bicyc	le LOS	F				
			Segm	ent 13		
Veh	nicle Inputs					
Segn	nent Type	Passing Constrai	ned	Length, ft		8130
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	d Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Der	mand and Capacity					
Direc	tional Demand Flow Rate, veh/h	284		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.17
Inte	ermediate Results					
Segn	nent Vertical Class	2		Free-Flow Speed,	mi/h	66.8
Spee	d Slope Coefficient	6.91269		Speed Power Coe	fficient	0.52093
PF SI	ope Coefficient	-1.27840		PF Power Coefficient		0.75675
In Pa	ssing Lane Effective Length?	No	No		ensity, veh/mi/ln	1.7
%Im	proved % Followers	0.0		% Improved Avg Speed		0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2960	-		-	64.0
2	Horizontal Curve	795	960		8	64.0
3	Tangent	4375	-		-	64.0
Veh	nicle Results					
Aver	age Speed, mi/h	64.0		Percent Followers	, %	38.9
Segn	nent Travel Time, minutes	1.44		Followers Density,	, followers/mi/ln	1.7
Vehic	cle LOS	А				
Bicy	ycle Results					
Perce	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	284		Bicycle Effective V	Vidth, ft	13
Bicyc	le LOS Score	7.01		Bicycle Effective S	peed Factor	5.07
Bicyc	le LOS	F				
			Segm	ent 14		
Veh	nicle Inputs					
	nicle Inputs nent Type	Passing Zone		Length, ft		1100
Segn		Passing Zone		Length, ft Shoulder Width, ft	t	1100

Demand and Capacity					
Directional Demand Flow Rate, veh/h	304		Opposing Deman	d Flow Rate, veh/h	139
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.18
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	3.93150		Speed Power Coe	fficient	0.55848
PF Slope Coefficient	-1.23424		PF Power Coefficie	ent	0.80840
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.7
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2340	-		-	66.7
Vehicle Results					
Average Speed, mi/h	66.7		Percent Followers	, %	37.6
Segment Travel Time, minutes	0.19		Followers Density, followers/mi/ln		1.7
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	304		Bicycle Effective Width, ft		13
Bicycle LOS Score	7.05		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
	,	Segm	nent 15		
Vehicle Inputs					
Segment Type	Passing Constrained		Length, ft		2110
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	304		Opposing Deman	d Flow Rate, veh/h	Ī-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.18
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.22420		Speed Power Coe	fficient	0.41674
PF Slope Coefficient	-1.27547		PF Power Coefficie	ent	0.76866
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.8
%Improved % Followers	0.0		13% Improved Avg S	Speed	0.0

Sul	osegment Data					
#	Segment Type	Length, ft	R	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	600			-	
Vel	nicle Results					
Aver	age Speed, mi/h	66.1		Percent Followers	5, %	40.0
Segr	nent Travel Time, minutes	0.36		Followers Density	, followers/mi/ln	1.8
Vehi	cle LOS	А				
Bic	ycle Results					
Percent Occupied Parking 0			Pavement Condit	ion Rating	4	
Flow	Rate Outside Lane, veh/h	304		Bicycle Effective V	Vidth, ft	13
Bicy	cle LOS Score	7.05		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
			Segi	ment 16		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft	Length, ft	
Lane	Width, ft	12		Shoulder Width, f	Shoulder Width, ft	
Spe	ed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	310		Opposing Deman	d Flow Rate, veh/h	141
Peak	Hour Factor	0.94		Total Trucks, %	Total Trucks, %	
Segr	ment Capacity, veh/h	1700		Demand/Capacity	Demand/Capacity (D/C)	
Int	ermediate Results					
Segr	ment Vertical Class	1	1 Free-Flov		mi/h	68.3
Spe	ed Slope Coefficient	3.93736		Speed Power Coefficient		0.55771
PF S	lope Coefficient	-1.22170		PF Power Coeffici	PF Power Coefficient	
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.7
%Im	proved % Followers	0.0		% Improved Avg	% Improved Avg Speed	
Sul	segment Data					
#	Segment Type	Length, ft	R	ladius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7050	-		-	66.7
Vel	nicle Results					
Aver	age Speed, mi/h	66.7		Percent Followers	Percent Followers, %	
Segr	ment Travel Time, minutes	0.27		Followers Density	Followers Density, followers/mi/ln	
Vehi	cle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condition Rating		4
Flow	Rate Outside Lane, veh/h	310		¹⁴ Bicycle Effective Width, ft		13

Bicy	cle LOS Score	7.06		Bicycle Effective S	peed Factor	5.07
	cle LOS	F				
		Se	gm	ent 17		
Vel	hicle Inputs					
Segr	ment Type	Passing Constrained		Length, ft		845
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	0.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	310		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	, (D/C)	0.18
Int	ermediate Results			-		
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	73.8
Spee	ed Slope Coefficient	4.50870		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.24980		PF Power Coefficient		0.76717
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.7
%Im	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	Tangent	5280	-	-		71.4
Vel	hicle Results	-				
Aver	rage Speed, mi/h	71.4		Percent Followers	, %	39.9
Segr	ment Travel Time, minutes	0.13	0.13		, followers/mi/ln	1.7
Vehi	icle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	310		Bicycle Effective V	Vidth, ft	24
Bicy	cle LOS Score	5.02		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	E				
		Se	gm	ent 18		
Vel	hicle Inputs					
Sear	ment Type	Passing Zone		Length, ft		2430
_	e Width, ft	12		Shoulder Width, f	t	6
	ed Limit, mi/h	65		Access Point Dens		0.0
•	mand and Capacity					
	ctional Demand Flow Rate, veh/h	310		Opposing Deman	d Flow Rate, veh/h	141
		Flow Rate, veh/h 310		Opposing Demand Flow Rate, veh/h Total Trucks, %		

Segment Capacity, veh/h	1700	1700		(D/C)	0.18
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	73.8
Speed Slope Coefficient	4.24889		Speed Power Coe	fficient	0.55771
PF Slope Coefficient	-1.15236	-1.15236		ent	0.84152
In Passing Lane Effective Length?	No	No		nsity, veh/mi/ln	1.5
%Improved % Followers	0.0	0.0		Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Length, ft Radi		Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-		-	72.0
Vehicle Results					
Average Speed, mi/h	72.0		Percent Followers,	. %	34.9
Segment Travel Time, minutes	0.38		Followers Density,	followers/mi/ln	1.5
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Condition Rating		4
Flow Rate Outside Lane, veh/h	310	310		/idth, ft	24
Bicycle LOS Score	5.02		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	E				
		Segn	nent 19		
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		900
Lane Width, ft	12		Shoulder Width, ft		6
Speed Limit, mi/h	65		Access Point Density, pts/mi		0.0
Demand and Capacity					•
Directional Demand Flow Rate, veh/h	310		Opposing Demand Flow Rate, veh/h		-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.18
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	73.8
Speed Slope Coefficient	4.50870			fficient	0.41674
PF Slope Coefficient	-1.24980		PF Power Coefficie	ent	0.76717
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.7
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-	16	-	71.4

Average Speed, mi/h	71.4		Percent Follow	ers, %	39.9
Segment Travel Time, minutes	0.14		Followers Den	sity, followers/mi/ln	1.7
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Con	dition Rating	4
Flow Rate Outside Lane, veh/h	310		Bicycle Effectiv	e Width, ft	24
Bicycle LOS Score	5.02		Bicycle Effectiv	e Speed Factor	5.07
Bicycle LOS	E				
		Seg	ment 20		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1425
Lane Width, ft	12	12		h, ft	6
Speed Limit, mi/h	65		Access Point D	ensity, pts/mi	0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	310	310		nand Flow Rate, veh/h	141
Peak Hour Factor	0.94	0.94			9.00
Segment Capacity, veh/h	1700	1700		city (D/C)	0.18
Intermediate Results	·				
Segment Vertical Class	1		Free-Flow Spe	ed, mi/h	73.8
Speed Slope Coefficient	4.23254		Speed Power (Coefficient	0.55771
PF Slope Coefficient	-1.18897		PF Power Coef	ficient	0.82410
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.6
%Improved % Followers	0.0		% Improved Avg Speed		0.0
Subsegment Data					
# Segment Type	Length, ft	F	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-		-	72.0
Vehicle Results				·	
Average Speed, mi/h	72.0		Percent Follow	ers, %	36.4
Segment Travel Time, minutes	0.22		Followers Den	sity, followers/mi/ln	1.6
Vehicle LOS A					
Bicycle Results					
Percent Occupied Parking	0		Pavement Con	dition Rating	4
Flow Rate Outside Lane, veh/h 310			Bicycle Effectiv	e Width, ft	24
Flow Rate Outside Lane, veh/h			D's de Effert	e Speed Factor	5.07
Flow Rate Outside Lane, veh/h Bicycle LOS Score	5.02		Bicycle Effectiv	e Speca ractor	3.07
	5.02 E		вісусіе Епестіх		3.07

Val	sielo Inpute					
	nicle Inputs			ı		
	ment Type	Passing Constrained		Length, ft		4435
	Width, ft	12		Shoulder Width, f		1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	356		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	Segment Capacity, veh/h 1700		Demand/Capacity	(D/C)	0.21	
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient 4.25345		Speed Power Coe	fficient	0.41674		
PF S	lope Coefficient	-1.22693		PF Power Coefficie	ent	0.78311
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.3
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	ius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	1540	1-		-	65.9
2	Horizontal Curve	2095	960)	8	63.8
3	Tangent	800	-		-	65.9
Vel	nicle Results					·
Aver	rage Speed, mi/h	64.9		Percent Followers	, %	42.1
Segr	ment Travel Time, minutes	0.78	Followers Density, follo		, followers/mi/ln	2.3
Vehi	cle LOS	В				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	356		Bicycle Effective Width, ft		13
Bicyo	cle LOS Score	7.13		Bicycle Effective Speed Factor		5.07
Bicyc	cle LOS	F				
		Se	egm	ent 22		<u>'</u>
Vel	nicle Inputs					
	-	Passing Zone		Length, ft		1215
	Segment Type Passing Zone Lane Width, ft 12		Shoulder Width, ft		1	
Speed Limit, mi/h 65		Access Point Density, pts/mi		8.0		
-	mand and Capacity				21 E	
		356		Opposing Daman	d Flow Rate veh/h	163
		Opposing Demand Flow Rate, veh/h				
	eak Hour Factor 0.94 1		Total Trucks, % Demand/Capacity (D/C)		9.00	

					68.3
Segment Vertical Class	1			Free-Flow Speed, mi/h	
Speed Slope Coefficient	3.94137		Speed Power Coe		0.55048
PF Slope Coefficient	-1.24099			ent	0.80637
In Passing Lane Effective Length?	No		Total Segment D	<u> </u>	2.2
%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	1215	-		-	66.4
Vehicle Results					
Average Speed, mi/h	66.4		Percent Followers	5, %	41.7
Segment Travel Time, minutes	0.21		Followers Density	, followers/mi/ln	2.2
Vehicle LOS	В				
Bicycle Results					
Percent Occupied Parking	0		Pavement Condit	Pavement Condition Rating	
Flow Rate Outside Lane, veh/h	356		Bicycle Effective Width, ft		13
Bicycle LOS Score	7.13	7.13		Bicycle Effective Speed Factor	
Bicycle LOS	F				
		Segn	nent 23		
Vehicle Inputs		Segn	nent 23		
Vehicle Inputs Segment Type	Passing Constra		Length, ft		1160
<u> </u>	Passing Constra			ft	1160 1
Segment Type			Length, ft		
Segment Type Lane Width, ft	12		Length, ft Shoulder Width,		1
Segment Type Lane Width, ft Speed Limit, mi/h	12		Length, ft Shoulder Width, Access Point Den		1
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity	12 65		Length, ft Shoulder Width, Access Point Den	sity, pts/mi	8.0
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor	12 65 356		Length, ft Shoulder Width, Access Point Den Opposing Deman	sity, pts/mi nd Flow Rate, veh/h	8.0
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h	12 65 356 0.94		Length, ft Shoulder Width, Access Point Den Opposing Demar Total Trucks, %	sity, pts/mi nd Flow Rate, veh/h	1 8.0 - 9.00
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results	12 65 356 0.94		Length, ft Shoulder Width, Access Point Den Opposing Demar Total Trucks, %	sity, pts/mi and Flow Rate, veh/h y (D/C)	1 8.0 - 9.00
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class	12 65 356 0.94 1700		Length, ft Shoulder Width, Access Point Den Opposing Demar Total Trucks, % Demand/Capacit	sity, pts/mi nd Flow Rate, veh/h y (D/C) mi/h	- 9.00 0.21
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient	12 65 356 0.94 1700		Length, ft Shoulder Width, Access Point Den Opposing Demar Total Trucks, % Demand/Capacit	sity, pts/mi and Flow Rate, veh/h y (D/C) mi/h efficient	1 8.0 - 9.00 0.21
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h	12 65 356 0.94 1700		Length, ft Shoulder Width, Access Point Den Opposing Demar Total Trucks, % Demand/Capacit Free-Flow Speed, Speed Power Cod	sity, pts/mi and Flow Rate, veh/h y (D/C) mi/h efficient tent	1 8.0 - 9.00 0.21 68.3 0.41674
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient	12 65 356 0.94 1700 1 4.21060 -1.31148		Length, ft Shoulder Width, Access Point Den Opposing Demar Total Trucks, % Demand/Capacit Free-Flow Speed, Speed Power Coeffic	sity, pts/mi and Flow Rate, veh/h y (D/C) mi/h efficient ent ensity, veh/mi/ln	1 8.0 - 9.00 0.21 68.3 0.41674 0.75510
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient In Passing Lane Effective Length?	12 65 356 0.94 1700 1 4.21060 -1.31148 No		Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed, Speed Power Coeffic Total Segment Den	sity, pts/mi and Flow Rate, veh/h y (D/C) mi/h efficient ent ensity, veh/mi/ln	1 8.0 - 9.00 0.21 68.3 0.41674 0.75510 2.4
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient In Passing Lane Effective Length? %Improved % Followers	12 65 356 0.94 1700 1 4.21060 -1.31148 No	ined	Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed, Speed Power Coeffic Total Segment Den	sity, pts/mi and Flow Rate, veh/h y (D/C) mi/h efficient ent ensity, veh/mi/ln	1 8.0 - 9.00 0.21 68.3 0.41674 0.75510 2.4

Average Speed, mi/h	65.9		Percent Follo	wers, %	45.2
Segment Travel Time, minutes	0.20	0.20		nsity, followers/mi/ln	2.4
Vehicle LOS	В				
Bicycle Results					
Percent Occupied Parking	0		Pavement Co	ndition Rating	4
Flow Rate Outside Lane, veh/h	356		Bicycle Effect	ive Width, ft	13
Bicycle LOS Score	7.13		Bicycle Effect	ive Speed Factor	5.07
Bicycle LOS	F				
		Segm	nent 24		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1265
Lane Width, ft	12		Shoulder Wid	Ith, ft	1
Speed Limit, mi/h	65		Access Point	Density, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	356		Opposing De	mand Flow Rate, veh/h	163
Peak Hour Factor	0.94	0.94		%	9.00
Segment Capacity, veh/h	1700	1700		acity (D/C)	0.21
Intermediate Results					
Segment Vertical Class	1		Free-Flow Sp	eed, mi/h	68.3
Speed Slope Coefficient	3.94137		Speed Power	Coefficient	0.55048
PF Slope Coefficient	-1.24099		PF Power Coefficient		0.80637
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.2
%Improved % Followers	0.0		% Improved	Avg Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1265	-		-	66.4
Vehicle Results					
Average Speed, mi/h	66.4		Percent Follo	wers, %	41.7
Segment Travel Time, minutes	0.22		Followers De	nsity, followers/mi/ln	2.2
Vehicle LOS	В				
Bicycle Results					
Percent Occupied Parking	0		Pavement Co	ndition Rating	4
Flow Rate Outside Lane, veh/h	356		Bicycle Effect	ive Width, ft	13
Bicycle LOS Score	7.13		Bicycle Effect	ive Speed Factor	5.07
Bicycle LOS	F				
		Segn	nent 25		
Vehicle Inputs			20		

Segi	ment Type	Passing Constrained		Length, ft		4330
Lane	e Width, ft	12		Shoulder Width, ft		1
Spe	ed Limit, mi/h	65	Access Point Density, pts/mi		sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	356		Opposing Deman	d Flow Rate, veh/h	-
Peal	Hour Factor	0.94		Total Trucks, %		9.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.21
Int	ermediate Results					
Segi	ment Vertical Class	3		Free-Flow Speed,	mi/h	66.1
Spe	ed Slope Coefficient	9.51713		Speed Power Coe	fficient	0.67702
PF S	lope Coefficient	-1.32607		PF Power Coeffici	ent	0.77005
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.6
%Im	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	2165 -			-	62.4
2	Horizontal Curve	1880 960)	8	62.4
3	Tangent	285	-		-	62.4
Vel	hicle Results	·				
Avei	rage Speed, mi/h	62.4		Percent Followers	, %	45.1
Segi	ment Travel Time, minutes	0.79		Followers Density, followers/mi/ln		2.6
Veh	icle LOS	В				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condition Rating		4
Flow	Rate Outside Lane, veh/h	356		Bicycle Effective Width, ft		13
Bicy	cle LOS Score	7.13		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	F				
		Sc	egm	ent 26		
Ve	hicle Inputs					
Segi	ment Type	Passing Zone		Length, ft		3590
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h			Access Point Density, pts/mi		8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	173		Opposing Deman	d Flow Rate, veh/h	80
Peal	Hour Factor	0.94		Total Trucks, %		5.60
Segi	ment Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.10
Int	ermediate Results			21		
			4			

Segment Vertical Class	1	1		peed,	mi/h	68.4
Speed Slope Coefficient	3.94125	3.94125		Speed Power Coefficient		0.58392
PF Slope Coefficient	-1.14513		PF Power Coefficient		ent	0.84374
In Passing Lane Effective Length?	No	No		nt De	nsity, veh/mi/ln	0.6
%Improved % Followers	0.0		% Improved	Avg S	Speed	0.0
Subsegment Data						•
# Segment Type	Length, ft	Length, ft Radi			Superelevation, %	Average Speed, mi/h
1 Tangent	3590	3590 -			-	67.6
Vehicle Results						
Average Speed, mi/h	67.6		Percent Follo	owers.	%	23.0
Segment Travel Time, minutes	0.60				followers/mi/ln	0.6
Vehicle LOS	A					
Bicycle Results						<u> </u>
Percent Occupied Parking	0		Pavement Co	onditi	on Rating	4
Flow Rate Outside Lane, veh/h	173		Bicycle Effect			13
Bicycle LOS Score	5.50		Bicycle Effective Speed Factor			5.07
Bicycle LOS	E		July die Enissans Speed vaster			
,		Seam	nent 27			<u> </u>
Vehicle Inputs		<u> </u>	10110 27			
Segment Type	Passing Constrai	ned	Length, ft			3800
Lane Width, ft	12	Ticu -	Shoulder Width, ft		<u> </u>	1
Speed Limit, mi/h	65		Access Point Density, pts/mi			0.0
Demand and Capacity					271	<u> </u>
Directional Demand Flow Rate, veh/h	173		Opposing De	emano	d Flow Rate veh/h	T-
Peak Hour Factor	0.94		Opposing Demand Flow Rate, veh/h Total Trucks, %		a riew riate, veri, ri	5.60
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		(D/C)	0.10
Intermediate Results	1 44				(-1-)	1000
Segment Vertical Class	2		Free-Flow Sp	nood i	mi/h	69.6
Speed Slope Coefficient	5.98172		Speed Power			0.51180
PF Slope Coefficient	-1.28343		PF Power Co			0.76591
In Passing Lane Effective Length?	No					0.7
%Improved % Followers	0.0		-	Total Segment Density, veh/mi/ln % Improved Avg Speed		0.0
Subsegment Data			, , , ,	9-	<u>'</u>	
# Segment Type	Length, ft	Ray	dius, ft		Superelevation, %	Average Speed, mi/h
1 Tangent	3800	-	arus, it		-	68.0
Vehicle Results	3000					35.5
			1.			1
Average Speed, mi/h 68.0 2			Percent Followers, %			28.5

		T _a		I		T ₀ -
_	ment Travel Time, minutes	0.64		Followers Density, followers/mi/ln		0.7
Veh	icle LOS	A				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	/ Rate Outside Lane, veh/h	173	173		/idth, ft	13
Bicy	cle LOS Score	5.50		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	E				
		Se	gm	ent 28		
Vel	hicle Inputs					
Segi	ment Type	Passing Zone		Length, ft		1635
Lane	e Width, ft	12		Shoulder Width, ft	t	1
Spe	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	173		Opposing Deman	d Flow Rate, veh/h	80
Peal	K Hour Factor	0.94		Total Trucks, %		5.60
Segi	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.10
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.4
Spe	ed Slope Coefficient	3.91367		Speed Power Coe	fficient	0.58392
PF S	lope Coefficient	-1.19690		PF Power Coefficie	ent	0.82158
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.6
%Im	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	1635	-		-	67.6
Vel	hicle Results					
Avei	rage Speed, mi/h	67.6		Percent Followers,	, %	24.7
Segi	ment Travel Time, minutes	0.28		Followers Density,	followers/mi/ln	0.6
Veh	icle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condition	on Rating	4
Flow	/ Rate Outside Lane, veh/h	173		Bicycle Effective W	/idth, ft	13
Bicy	cle LOS Score	5.50		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	Е				
		Se	gm	ent 29		
Vel	hicle Inputs					
Segi	ment Type	Passing Constrained	2	B Length, ft		1585

Lane Width, ft	12		Shoulder Width, f	t	3
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity			•		
Directional Demand Flow Rate, veh/h	mand Flow Rate, veh/h 173		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		5.60
Segment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.10
Intermediate Results					
Segment Vertical Class	2		Free-Flow Speed,	mi/h	69.0
Speed Slope Coefficient	4.93420		Speed Power Coe	fficient	0.49995
PF Slope Coefficient	-1.38553		PF Power Coeffici	ent	0.74477
In Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.8
%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	1585	-		-	67.7
Vehicle Results					
Average Speed, mi/h	67.7		Percent Followers	s, %	31.3
Segment Travel Time, minutes	0.27		Followers Density	, followers/mi/ln	0.8
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Condition Rating		4
Flow Rate Outside Lane, veh/h	173		Bicycle Effective Width, ft		15
Bicycle LOS Score	5.22		Bicycle Effective Speed Factor		5.07
Bicycle LOS	E				
		Segm	nent 30		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1635
Lane Width, ft	12		Shoulder Width, f	t	3
Speed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	173		Opposing Deman	d Flow Rate, veh/h	80
Peak Hour Factor	0.94				5.60
Segment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.10
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	69.8
Speed Slope Coefficient	3.98955		Speed Power Coe	fficient	0.58392
PF Slope Coefficient	-1.18757	,	PF Power Coeffici	ent	0.82517

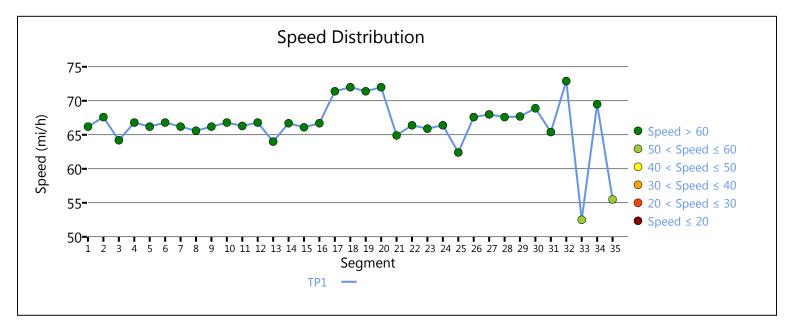
In Passing Lane Effective Length?		Total Segment De	ensity, veh/mi/ln	0.6		
%Im	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	osegment Data	•		•		
#	Segment Type	Length, ft	Rad	dius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	1635	-		-	68.9
Vel	nicle Results		·			·
Aver	age Speed, mi/h	68.9		Percent Followers	;, %	24.4
Segr	ment Travel Time, minutes	0.27		Followers Density	, followers/mi/ln	0.6
Vehi	cle LOS	Α				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow	Rate Outside Lane, veh/h	173		Bicycle Effective V	Vidth, ft	15
Bicy	cle LOS Score	5.22		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	E				
			Segm	ent 31		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrain	ned	Length, ft		7340
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	186		Opposing Demand Flow Rate, veh/h		-
Peak	Hour Factor	0.94		Total Trucks, %		5.60
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.11
Into	ermediate Results					
Segr	ment Vertical Class	4		Free-Flow Speed,	mi/h	69.2
Spee	ed Slope Coefficient	13.17671		Speed Power Coe	fficient	0.54012
PF S	lope Coefficient	-1.73651		PF Power Coeffici	ent	0.76881
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.1
%Im	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	Tangent	12175	-		-	65.7
2	Horizontal Curve	3125	960)	8	64.3
Vel	nicle Results					
Aver	age Speed, mi/h	65.4		Percent Followers	, %	37.9
Segr	ment Travel Time, minutes	1.28		Followers Density	, followers/mi/ln	1.1
Vehi	cle LOS	А	Α 2			

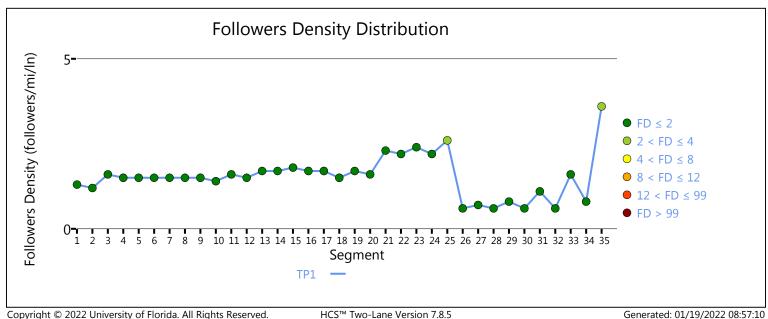
Bic	cycle Results					
Perc	cent Occupied Parking	0		Pavement Conditi	on Rating	4
Flov	v Rate Outside Lane, veh/h	186	186		/idth, ft	24
Bicy	rcle LOS Score	3.51		Bicycle Effective S	peed Factor	5.07
Bicy	rcle LOS	D				
		<u>'</u>	Segm	ent 32		
Ve	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		2270
_	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	0.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	186		Opposing Deman	d Flow Rate, veh/h	85
	k Hour Factor	0.94		Total Trucks, %		5.60
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.11
Int	ermediate Results					
Seg	ment Vertical Class	1	1		mi/h	73.9
_	ed Slope Coefficient	4.22501		Speed Power Coefficient		0.58124
	Slope Coefficient	-1.13838		PF Power Coefficient		0.84590
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.6
%Im	nproved % Followers	0.0		% Improved Avg	Speed	0.0
Su	bsegment Data	<u> </u>				
#	Segment Type	Length, ft Rad		lius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	2270	-	-		72.9
Ve	hicle Results	<u>'</u>				<u>'</u>
Ave	rage Speed, mi/h	72.9		Percent Followers	, %	24.0
	ment Travel Time, minutes	0.35		Followers Density, followers/mi/ln		0.6
Veh	icle LOS	А		,		
Bic	cycle Results					
Perc	cent Occupied Parking	0		Pavement Conditi	on Rating	4
	v Rate Outside Lane, veh/h	186		Bicycle Effective V		24
_	rcle LOS Score	3.51		Bicycle Effective S		5.07
Bicy	rcle LOS	D				
			Segm	ent 33		
Ve	hicle Inputs					
	ment Type	Passing Constrain	ned	Length, ft		13465
_	e Width, ft	12		Shoulder Width, f	t	1
	ed Limit, mi/h	65	2	Access Point Dens		8.0

Der	mand and Capacity					
	ctional Demand Flow Rate, veh/h	186		Opposing Deman	d Flow Rate, veh/h	-
	: Hour Factor			Total Trucks, %		5.60
Segr	ment Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.11
Inte	ermediate Results	<u>'</u>		<u> </u>		'
Segr	ment Vertical Class	5		Free-Flow Speed,	mi/h	62.5
Spee	ed Slope Coefficient	21.20406		Speed Power Coe	fficient	0.30590
PF SI	lope Coefficient	-2.36857		PF Power Coeffici	ent	0.80122
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.6
%Im	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	Horizontal Curve	3125	960)	8	52.5
2	Tangent	5415	-		-	52.5
3	Horizontal Curve	2290	960)	8	52.5
4	Tangent	2635	-		-	52.5
Vel	nicle Results					
Aver	age Speed, mi/h	52.5		Percent Followers	, %	46.0
Segr	ment Travel Time, minutes	2.92		Followers Density	, followers/mi/ln	1.6
Vehi	cle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	186		Bicycle Effective Width, ft		13
Bicyo	cle LOS Score	5.54		Bicycle Effective Speed Factor		5.07
Bicyc	cle LOS	F				
		·	Segm	ent 34		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		2430
Lane	Width, ft	12		Shoulder Width, ft		5
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dei	mand and Capacity					·
Dire	ctional Demand Flow Rate, veh/h	202		Opposing Deman	d Flow Rate, veh/h	93
	: Hour Factor	0.94		Total Trucks, %		5.60
Segr	nent Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.12
Inte	ermediate Results					
Segr	ment Vertical Class	2		Free-Flow Speed,	mi/h	70.5
	ed Slope Coefficient	4.91942		Speed Power Coe	fficient	0.70520

PF Slope Coefficient		-1.14351		PF Power Coefficient		0.83802
In Passing Lane Effective Length?		No		Total Segment De	ensity, veh/mi/ln	0.8
%Improved % 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	2265	-		-	69.5
Veh	nicle Results					·
Avera	age Speed, mi/h	69.5		Percent Followers	5, %	25.9
Segn	nent Travel Time, minutes	0.40		Followers Density	, followers/mi/ln	0.8
Vehic	cle LOS	А				
Bicy	ycle Results					
Perce	ent Occupied Parking	0		Pavement Conditi	ion Rating	4
Flow	Rate Outside Lane, veh/h	202		Bicycle Effective V	Vidth, ft	22
Bicyc	le LOS Score	4.01		Bicycle Effective S	peed Factor	5.07
Bicyc	le LOS	D				
		9	Segm	ent 35		
Veh	nicle Inputs					
Segn	nent Type	Passing Constrained	d	Length, ft		4540
Lane	Width, ft	12		Shoulder Width, f	t	2
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	8.0
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	410		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		5.60
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.24
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed, mi/h		57.7
Spee	d Slope Coefficient	3.68076		Speed Power Coefficient		0.41674
PF SI	ope Coefficient	-1.32246		PF Power Coefficient		0.75555
In Pa	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	3.6
%Imp	proved % 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 3770		3770	-		-	55.5
Veh	nicle Results					
Avera	age Speed, mi/h	55.5		Percent Followers, %		49.0
	nent Travel Time, minutes	0.93		Followers Density	, followers/mi/ln	3.6
Vehicle LOS		В				

Bicycle Results									
Percent Occupied Parking	0	Pavement Condition Rating	4						
Flow Rate Outside Lane, veh/h	410	Bicycle Effective Width, ft	14						
Bicycle LOS Score	5.67	Bicycle Effective Speed Factor	4.79						
Bicycle LOS	F								





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	HCS7 Two	-Lane	e Highway Re	eport	
Project Information					
Analyst	CONSOR/Apex		Date		7/16/2021
Agency	CDOT Region 1		Analysis Year		2020
Jurisdiction	Douglas County		Time Period Analy	/zed	AM Peak
Project Description	SH 83 Safety and Operation Analysis	s - SB	Unit		United States Customary
		Segr	ment 1		
Vehicle Inputs					
Segment Type	Passing Constraine	ed	Length, ft		6125
Lane Width, ft	12		Shoulder Width, f	t	2
Speed Limit, mi/h	45		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/	h 187		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		5.60
Segment Capacity, veh/h	1700	1700		(D/C)	0.11
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	46.3
Speed Slope Coefficient	3.07829		Speed Power Coe	fficient	0.41674
PF Slope Coefficient	-1.37840		PF Power Coefficie	ent	0.71945
In Passing Lane Effective Length?	No	No		nsity, veh/mi/ln	1.4
%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	6125	-		-	45.2
Vehicle Results		·			
Average Speed, mi/h	45.2		Percent Followers	, %	33.8
Segment Travel Time, minutes	1.54		Followers Density,	followers/mi/ln	1.4
Vehicle LOS	Α				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	187		Bicycle Effective V	Vidth, ft	14
Bicycle LOS Score	5.08		Bicycle Effective S	peed Factor	4.42
Bicycle LOS	E				
	·	Segr	ment 2		
Vehicle Inputs					
Terricie Imputs			30		

Segn	egment Type Passing Zone		Length, ft		1690	
	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	93		Opposing Deman	d Flow Rate, veh/h	202
Peak	Hour Factor	0.94		Total Trucks, %		5.60
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.05
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	71.9
Spee	ed Slope Coefficient	4.15910		Speed Power Coe	fficient	0.53865
PF SI	ope Coefficient	-1.20651		PF Power Coefficie	ent	0.81938
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.2
%Im _l	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sub	osegment Data	<u>'</u>		•		
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690	-		-	71.9
Vel	icle Results					
Aver	age Speed, mi/h	71.9 Pe		Percent Followers	 . %	15.8
	nent Travel Time, minutes	0.27		Followers Density,		0.2
	cle LOS	A		,	,	
Bic	ycle Results					
	ent Occupied Parking	0		Pavement Conditi	on Rating	4
	Rate Outside Lane, veh/h	93			Jidth, ft	34
Bicyc	cle LOS Score	0.25		Bicycle Effective Speed Factor		5.07
	cle LOS	А				
			Segn	nent 3		•
Vel	nicle Inputs					
Segn	nent Type	Passing Constraine	ed	Length, ft		11880
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Der	mand and Capacity			<u> </u>		
Direc	ctional Demand Flow Rate, veh/h	93		Opposing Deman	d Flow Rate, veh/h	-
	Hour Factor	0.94		Total Trucks, %		5.60
	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.05
	ermediate Results					
	nent Vertical Class	4	Free-Flow Speed		mi/h	65.7
	ed Slope Coefficient	13.20663		Speed Power Coefficient		0.40914

PF SI	lope Coefficient	-1.97178		PF Power Coeffic	ient	0.75086
·		No	No		ensity, veh/mi/ln	0.4
5		% Improved Avg	Speed	0.0		
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	8660	-		-	65.7
2	Horizontal Curve	3220	96	50	8	65.7
Vel	nicle Results					
Aver	rage Speed, mi/h	65.7		Percent Follower	rs, %	28.1
Segr	ment Travel Time, minutes	2.06		Followers Densit	y, followers/mi/ln	0.4
Vehi	cle LOS	А				
Bic	ycle Results					<u>'</u>
Perc	ent Occupied Parking	0		Pavement Condi	tion Rating	4
Flow	Rate Outside Lane, veh/h	93		Bicycle Effective	Width, ft	20
Bicyc	cle LOS Score	4.03		Bicycle Effective	Speed Factor	5.07
Bicyc	cle LOS	D	D			
			Seg	ment 4		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1585
Lane	Width, ft	12		Shoulder Width,	ft	1
Spee	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	93		Opposing Dema	nd Flow Rate, veh/h	202
Peak	Hour Factor	0.94		Total Trucks, %		5.60
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.05
Inte	ermediate Results					
Segr	ment Vertical Class	2		Free-Flow Speed, mi/h		67.7
Spee	ed Slope Coefficient	4.17044		Speed Power Coefficient		0.63813
PF SI	lope Coefficient	-1.24398		PF Power Coeffic	ient	0.80310
In Pa	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	0.2
%Im	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	1585	-		-	67.7
Veł	nicle Results					
Aver	rage Speed, mi/h	67.7		Percent Follower	16.8	
3 1		Followers Density, followers/mi/ln				

Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	0		ion Rating	4
Flow Rate Outside Lane, veh/h	93		Bicycle Effective V	Vidth, ft	20
Bicycle LOS Score	4.03		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	D				
		Segn	nent 5		
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		315
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	93		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		5.60
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.05
Intermediate Results					
Segment Vertical Class	1	1		mi/h	68.4
Speed Slope Coefficient	4.21673		Speed Power Coe	fficient	0.41674
PF Slope Coefficient	-1.31065		PF Power Coeffici	ent	0.75485
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.3
%Improved % Followers	0.0	0.0 % Impro		Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	dius, ft Superelevation, %		Average Speed, mi/h
1 Tangent	315	-		-	68.4
Vehicle Results					
Average Speed, mi/h	68.4		Percent Followers	5, %	19.5
Segment Travel Time, minutes	0.05		Followers Density, followers/mi/ln		0.3
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	ion Rating	4
Flow Rate Outside Lane, veh/h	93		Bicycle Effective V	Vidth, ft	20
Bicycle LOS Score	4.03		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	D				
		Segn	nent 6		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		2005
Lane Width, ft	12	3	Shoulder Width, f	·+	1

Speed Limit, mi/h		65		Access Point Density, pts/mi		8.0
De	mand and Capacity					
Directional Demand Flow Rate, veh/h		93		Opposing Deman	nd Flow Rate, veh/h	202
Peal	c Hour Factor	0.94		Total Trucks, %		5.60
Segi	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.05
Int	ermediate Results					
Segi	ment Vertical Class	2		Free-Flow Speed,	mi/h	67.7
Spe	ed Slope Coefficient	4.35768		Speed Power Coe	efficient	0.63970
PF S	lope Coefficient	-1.21888		PF Power Coeffici	ent	0.81076
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.2
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2005	-		-	67.7
Ve	hicle Results					
Avei	rage Speed, mi/h	67.7		Percent Followers, %		16.2
Segi	ment Travel Time, minutes	0.34		Followers Density, followers/mi/ln		0.2
Veh	icle LOS	A				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow	Rate Outside Lane, veh/h	93		Bicycle Effective V	Vidth, ft	20
Bicy	cle LOS Score	4.03		Bicycle Effective S	Speed Factor	5.07
Bicy	cle LOS	D				
			Segr	nent 7		
Ve	hicle Inputs					
Segi	ment Type	Passing Constrai	ned	Length, ft		10295
	e Width, ft	12		Shoulder Width, ft		1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	80		Opposing Deman	nd Flow Rate, veh/h	-
Peal	K Hour Factor	0.94		Total Trucks, %		5.60
Segment Capacity, veh/h 17		1700			y (D/C)	0.05
Int	ermediate Results					
Segi	ment Vertical Class	4		Free-Flow Speed, mi/h		65.7
Spe	ed Slope Coefficient	12.70234		Speed Power Coe	efficient	0.44834
PF S	lope Coefficient	-1.88856		PF Power Coefficient		0.76212
In Pa	assing Lane Effective Length?			Total Segment Density, veh/mi/ln		0.3

%Im	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	685	-		-	65.7
2	Horizontal Curve	2204	960)	8	65.7
3	Tangent	7406	-		-	65.7
Vel	nicle Results					
Aver	age Speed, mi/h	65.7		Percent Followers	, %	24.0
Segr	ment Travel Time, minutes	1.78		Followers Density,	followers/mi/ln	0.3
Vehi	cle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	80		Bicycle Effective W	Vidth, ft	21
Bicy	cle LOS Score	3.75		Bicycle Effective S	peed Factor	5.07
Bicyc	cle LOS	D				
		,	Segn	nent 8		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		3060
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	80		Opposing Deman	d Flow Rate, veh/h	173
Peak	Hour Factor	0.94		Total Trucks, %		5.60
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.05
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed, mi/h		68.4
Spee	ed Slope Coefficient	3.97865		Speed Power Coefficient		0.54710
PF S	lope Coefficient	-1.18421		PF Power Coefficient		0.83003
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.2
%Im	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	osegment Data					
# Segment Type Length, ft Rad		dius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	3060	-		-	68.4
Vel	nicle Results					
Aver	age Speed, mi/h	68.4		Percent Followers	, %	13.5
Segr	ment Travel Time, minutes	0.51		Followers Density,	followers/mi/ln	0.2
Vehi	cle LOS	А	9	35		

Bio	cycle Results					
Pero	cent Occupied Parking	0		Pavement Conditi	on Rating	4
Flov	v Rate Outside Lane, veh/h	80	80		/idth, ft	21
Bicy	rcle LOS Score	3.75		Bicycle Effective S	peed Factor	5.07
Вісу	rcle LOS	D				
		<u>'</u>	Segn	nent 9		
Ve	hicle Inputs					
Sea	ment Type	Passing Constrai	ined	Length, ft		2430
	e Width, ft	12		Shoulder Width, f	t	1
	ed Limit, mi/h	65		Access Point Dens		8.0
	mand and Capacity					
	ectional Demand Flow Rate, veh/h	80		Opposing Deman	d Flow Rate, veh/h	
_	k Hour Factor	0.94		Total Trucks, %	,	5.60
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.05
	ermediate Results					
Sea	ment Vertical Class	1		Free-Flow Speed, mi/h		68.4
_	ed Slope Coefficient	4.23509		Speed Power Coefficient		0.41674
	Slope Coefficient		-1.26418		ent	0.77219
	assing Lane Effective Length?	No		Total Segment De		0.2
_	nproved % Followers	0.0		% Improved Avg S		0.0
	bsegment Data				·	
#	Segment Type	Length, ft	Length, ft Rad		Superelevation, %	Average Speed, mi/h
1	Tangent	2430	-	,	-	68.4
	hicle Results					
Ave	rage Speed, mi/h	68.4		Percent Followers	. %	16.4
	ment Travel Time, minutes	0.40		Followers Density, followers/mi/ln		0.2
	icle LOS	A		Tollowers Delisity, Tollowers, This in		1
	cycle Results	1				
	cent Occupied Parking	0		Pavement Conditi	on Rating	4
	v Rate Outside Lane, veh/h	80		Bicycle Effective V		21
_	rcle LOS Score	3.75		Bicycle Effective S		5.07
_	rcle LOS	D		.,		
-,			Seam	ent 10		
Ve	hicle Inputs		239.11			
	-	Descire 7		Longth #		2645
_	ment Type	Passing Zone		Length, ft		3645
_	e Width, ft	65	3	Shoulder Width, f		1
spe	ed Limit, mi/h	ده ا		Access Point Density, pts/mi		8.0

Demand and Capacity					
Directional Demand Flow Rate, veh/h	80		Opposing Deman	d Flow Rate, veh/h	173
Peak Hour Factor	0.94	0.94			5.60
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.05
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.4
Speed Slope Coefficient	3.98581		Speed Power Coe	fficient	0.54710
PF Slope Coefficient	-1.17368		PF Power Coefficie	ent	0.83357
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.2
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft Radio		dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	3645	-		-	68.4
Vehicle Results					
Average Speed, mi/h	ed, mi/h 68.4		Percent Followers	, %	13.3
Segment Travel Time, minutes	0.61		Followers Density, followers/mi/ln		0.2
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	80		Bicycle Effective Width, ft		21
Bicycle LOS Score	3.75		Bicycle Effective Speed Factor		5.07
Bicycle LOS	D				
	S	Segm	ent 11		
Vehicle Inputs					
Segment Type	Passing Constrained	 I	Length, ft		4120
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	163		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700			(D/C)	0.10
Intermediate Results					
Segment Vertical Class	3		Free-Flow Speed,	mi/h	66.1
Speed Slope Coefficient	9.40946		Speed Power Coe	fficient	0.67475
PF Slope Coefficient	-1.32676		PF Power Coefficie	ent	0.77062
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.7
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0

Su	bsegment Data						
#	Segment Type	Length, ft		Radius, ft	5	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	4120	4120 960		8	3	64.3
Ve	hicle Results						
Ave	rage Speed, mi/h	64.3		Percent Follow	vers, %	<u></u>	27.9
Segment Travel Time, minutes 0.73		Followers Den	sity, fo	ollowers/mi/ln	0.7		
Veh	icle LOS	А					
Bio	cycle Results						
Percent Occupied Parking 0		Pavement Con	nditior	n Rating	4		
Flov	v Rate Outside Lane, veh/h	163	163		e Wic	dth, ft	16
Bicy	rcle LOS Score	6.30		Bicycle Effectiv	e Spe	eed Factor	5.07
Bicy	cle LOS	F	F				
			Seg	ment 12			
Ve	hicle Inputs						
Seg	ment Type	Passing Zone		Length, ft	Length, ft		1110
Lan	e Width, ft	12		Shoulder Widt	Shoulder Width, ft		1
Spe	ed Limit, mi/h	65		Access Point D	Density	y, pts/mi	8.0
De	mand and Capacity						
Dire	ectional Demand Flow Rate, veh/h	163		Opposing Den	mand l	Flow Rate, veh/h	356
Pea	k Hour Factor	0.94		Total Trucks, %	Total Trucks, %		9.00
Seg	ment Capacity, veh/h	1700		Demand/Capa	Demand/Capacity (D/C)		0.10
Int	ermediate Results						
Seg	ment Vertical Class	1		Free-Flow Spe	ed, m	ii/h	68.3
Spe	ed Slope Coefficient	4.00482		Speed Power (Power Coefficient		0.50431
PF S	Slope Coefficient	-1.27794		PF Power Coef	PF Power Coefficient		0.79391
In P	assing Lane Effective Length?	No		Total Segment	t Density, veh/mi/ln		0.6
%In	nproved % Followers	0.0		% Improved A	vg Sp	eed	0.0
Su	bsegment Data						
#	Segment Type	Length, ft		Radius, ft	5	Superelevation, %	Average Speed, mi/h
1	Tangent	1110		-		-	67.3
Ve	hicle Results						
Ave	rage Speed, mi/h	67.3		Percent Follow	vers, %	%	26.1
Seg	ment Travel Time, minutes	0.19		Followers Den	sity, fo	ollowers/mi/ln	0.6
Veh	icle LOS	А					
Bio	cycle Results						
Perd	cent Occupied Parking	0		Pavement Con			4
Flov	v Rate Outside Lane, veh/h	163		³⁸ Bicycle Effectiv	Bicycle Effective Width, ft		16

Bicy	cle LOS Score	6.30		Bicycle Effective S	peed Factor	5.07
	cle LOS	F				
		Se	gm	ent 13		
Vel	hicle Inputs					
Segr	ment Type	Passing Constrained		Length, ft		1320
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	163		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.10
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spee	ed Slope Coefficient	4.21060		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.31148		PF Power Coefficie	ent	0.75510
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.7
%Im	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	Tangent	1320	-	-		67.0
Vel	hicle Results					
Aver	rage Speed, mi/h	67.0		Percent Followers	, %	28.3
Segr	ment Travel Time, minutes	0.22		Followers Density, followers/mi/ln		0.7
Vehi	icle LOS	А				
Bic	ycle Results					•
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	163		Bicycle Effective V	Vidth, ft	16
Bicy	cle LOS Score	6.30		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
		Se	gm	ent 14		
Vel	hicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1210
_	e Width, ft	12		Shoulder Width, f	t	1
	ed Limit, mi/h	65		Access Point Dens		8.0
Dei	mand and Capacity					
	ctional Demand Flow Rate, veh/h	163		Opposing Deman	d Flow Rate, veh/h	356
	Hour Factor	0.94	3	Total Trucks, %		9.00

Segment Capacity, veh/h	1700	1700		(D/C)	0.10
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.00482		Speed Power Coe	fficient	0.50431
PF Slope Coefficient	-1.27794	-1.27794		ent	0.79391
In Passing Lane Effective Length?	No	No		nsity, veh/mi/ln	0.6
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Length, ft Radio		Superelevation, %	Average Speed, mi/h
1 Tangent	1210	-		-	67.3
Vehicle Results					
Average Speed, mi/h	67.3		Percent Followers,	%	26.1
Segment Travel Time, minutes	0.20		Followers Density,	followers/mi/ln	0.6
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Condition	on Rating	4
Flow Rate Outside Lane, veh/h	163		Bicycle Effective W	/idth, ft	16
Bicycle LOS Score	6.30		Bicycle Effective Speed Factor		5.07
Bicycle LOS	F				
		Segn	nent 15		
Vehicle Inputs					
Segment Type	Passing Constrain	ned	Length, ft		6760
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	141		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.08
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.27558	4.27558		fficient	0.41674
PF Slope Coefficient	-1.21419		PF Power Coefficie	ent	0.77950
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.5
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	3280	- ,	40	-	67.2

2 Horizontal Curve	3480	960)	8	64.4
Vehicle Results		·			
Average Speed, mi/h	65.8		Percent Followers, %		23.2
Segment Travel Time, minutes	1.17		Followers Density,	followers/mi/ln	0.5
Vehicle LOS	А	А			
Bicycle Results	·				
Percent Occupied Parking	0	0		on Rating	4
Flow Rate Outside Lane, veh/h	141		Bicycle Effective W	/idth, ft	17
Bicycle LOS Score	6.06		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segm	nent 16		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		2060
Lane Width, ft	12		Shoulder Width, ft	t	1
Speed Limit, mi/h	65	65		ity, pts/mi	8.0
Demand and Capacity	·				
Directional Demand Flow Rate, veh/h	141		Opposing Demand	d Flow Rate, veh/h	310
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.08
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.00434		Speed Power Coefficient		0.51324
PF Slope Coefficient	-1.23805		PF Power Coefficient		0.80997
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.5
%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	2060	-		-	67.5
Vehicle Results					
Average Speed, mi/h	67.5		Percent Followers,	. %	22.4
Segment Travel Time, minutes	0.35			followers/mi/ln	0.5
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	141		Bicycle Effective W	/idth, ft	17
Bicycle LOS Score	6.06		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F	,	41		

		S	egn	nent 17		
Veh	icle Inputs					
Segn	nent Type	Passing Constrained		Length, ft		1320
Lane	Width, ft	12		Shoulder Width, ft	t	1
Spee	d Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Der	nand and Capacity			•		·
Direc	tional Demand Flow Rate, veh/h	139		Opposing Demand	d Flow Rate, veh/h	T-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.08
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spee	d Slope Coefficient	4.21060		Speed Power Coe	fficient	0.41674
PF SI	ope Coefficient	-1.31148		PF Power Coefficie	ent	0.75510
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.5
%Imp	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sub	segment Data					·
#	Segment Type	Length, ft	Rad	ius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	1320	T-	-		67.2
Veh	nicle Results					
Avera	age Speed, mi/h	67.2		Percent Followers,	, %	25.6
Segn	nent Travel Time, minutes	0.22		Followers Density, followers/mi/ln		0.5
Vehic	cle LOS	А				
Bicy	ycle Results					
Perce	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	139		Bicycle Effective W	/idth, ft	17
Вісус	le LOS Score	6.05		Bicycle Effective S	peed Factor	5.07
Bicyc	le LOS	F				
		S	egm	nent 18		
Veh	nicle Inputs					
	nent Type	Passing Zone		Length, ft		1265
	Width, ft	12		Shoulder Width, ft	t	1
	d Limit, mi/h	65		Access Point Dens		8.0
Der	nand and Capacity					1
	tional Demand Flow Rate, veh/h	139		Opposing Demand	d Flow Rate, veh/h	304
	Hour Factor	0.94		Total Trucks, %	,	9.00
	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.08

Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed		68.3
Speed Slope Coefficient	3.98994		Speed Power Co		0.51433
PF Slope Coefficient	-1.27031	-1.27031		ient	0.79676
In Passing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	0.5
%Improved % Followers	0.0	0.0		Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1265	-		-	67.5
Vehicle Results					
Average Speed, mi/h	67.5		Percent Followers	5, %	23.2
Segment Travel Time, minutes	0.21		Followers Density	, followers/mi/ln	0.5
Vehicle LOS	А		1		
Bicycle Results					
Percent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow Rate Outside Lane, veh/h	139		+	Bicycle Effective Width, ft	
Bicycle LOS Score	6.05		Bicycle Effective Speed Factor		5.07
	F				
Bicycle LOS					
Bicycle LOS	F	Segn	nent 19		
Vehicle Inputs	F	Segn	nent 19		
Vehicle Inputs	Passing Constrai		nent 19		2480
				ft	2480
Vehicle Inputs Segment Type	Passing Constrai		Length, ft		
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h	Passing Constrain 12		Length, ft Shoulder Width,		1
Vehicle Inputs Segment Type Lane Width, ft	Passing Constrain 12		Length, ft Shoulder Width, Access Point Den		1
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity	Passing Constrain 12 65		Length, ft Shoulder Width, Access Point Den	sity, pts/mi	8.0
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h	Passing Constrain 12 65 139		Length, ft Shoulder Width, Access Point Den Opposing Deman	sity, pts/mi nd Flow Rate, veh/h	1 8.0
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h	Passing Constrain 12 65 139 0.94		Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, %	sity, pts/mi nd Flow Rate, veh/h	1 8.0 - 9.00
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor	Passing Constrain 12 65 139 0.94		Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, %	sity, pts/mi and Flow Rate, veh/h y (D/C)	1 8.0 - 9.00
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results	Passing Constrain 12 65 139 0.94 1700		Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, % Demand/Capacit	sity, pts/mi nd Flow Rate, veh/h y (D/C) mi/h	- 9.00 0.08
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient	Passing Constrain 12 65 139 0.94 1700		Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed	sity, pts/mi nd Flow Rate, veh/h y (D/C) mi/h efficient	1 8.0 - 9.00 0.08
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class	Passing Constrain 12 65 139 0.94 1700 1 4.22967		Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed, Speed Power Cod	sity, pts/mi nd Flow Rate, veh/h y (D/C) mi/h efficient ient	1 8.0 - 9.00 0.08 - 68.3 0.41674
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient	Passing Constraint 12 65 139 0.94 1700 1 4.22967 -1.26349		Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed Speed Power Coeffic	sity, pts/mi and Flow Rate, veh/h y (D/C) mi/h efficient ient ensity, veh/mi/ln	1 8.0 - 9.00 0.08 68.3 0.41674 0.77294
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient In Passing Lane Effective Length?	Passing Constrain 12 65 139 0.94 1700 1 4.22967 -1.26349 No		Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed, Speed Power Coeffic Total Segment D	sity, pts/mi and Flow Rate, veh/h y (D/C) mi/h efficient ient ensity, veh/mi/ln	1 8.0 - 9.00 0.08 68.3 0.41674 0.77294 0.5
Vehicle Inputs Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient In Passing Lane Effective Length? %Improved % Followers	Passing Constrain 12 65 139 0.94 1700 1 4.22967 -1.26349 No	ined	Length, ft Shoulder Width, Access Point Den Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed, Speed Power Coeffic Total Segment D	sity, pts/mi and Flow Rate, veh/h y (D/C) mi/h efficient ient ensity, veh/mi/ln	- 9.00 0.08 68.3 0.41674 0.77294 0.5

Average Speed, mi/h	67.2		Percent Follo	owors %	24.1
Segment Travel Time, minutes	0.42			nsity, followers/mi/ln	0.5
Vehicle LOS		A		Tisity, Tollowers/Til/III	0.5
	^				
Bicycle Results					
Percent Occupied Parking	0	0		ondition Rating	4
Flow Rate Outside Lane, veh/h	139		Bicycle Effect	ive Width, ft	17
Bicycle LOS Score	6.05	6.05		ive Speed Factor	5.07
Bicycle LOS	F				
		Segm	nent 20		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1160
Lane Width, ft	12		Shoulder Wid	dth, ft	1
Speed Limit, mi/h	65		Access Point	Density, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	130		Opposing De	emand Flow Rate, veh/h	284
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.08
Intermediate Results					
Segment Vertical Class	1		Free-Flow Sp	eed, mi/h	68.3
Speed Slope Coefficient	3.98383		Speed Power Coefficient		0.51858
PF Slope Coefficient	-1.26698		PF Power Coefficient		0.79794
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.4
%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	1160	-		-	67.7
Vehicle Results					
Average Speed, mi/h	67.7		Percent Follo	wers, %	22.0
Segment Travel Time, minutes	0.19		Followers Density, followers/mi/ln		0.4
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0		Pavement Co	ondition Rating	4
Flow Rate Outside Lane, veh/h	130		Bicycle Effect	ive Width, ft	18
Bicycle LOS Score	5.84		Bicycle Effect	ive Speed Factor	5.07
Bicycle LOS	F				
		Segm	nent 21		
Vehicle Inputs		4	14		
1 3 3 3					

Segn	ment Type	Passing Constrain	ned	Length, ft		7815
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	130	130		d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segn	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.08
Inte	ermediate Results					
Segn	ment Vertical Class	2		Free-Flow Speed,	mi/h	66.8
Spee	ed Slope Coefficient	6.85373		Speed Power Coe	fficient	0.51976
PF SI	lope Coefficient	-1.27695		PF Power Coeffici	ent	0.75819
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.5
%Im _l	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sub	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	6485	-		-	65.7
2	Horizontal Curve	1330	960)	8	64.5
Vel	nicle Results		·			
Aver	age Speed, mi/h	65.5		Percent Followers	, %	23.8
Segn	ment Travel Time, minutes	1.36		Followers Density, followers/mi/ln		0.5
Vehi	cle LOS	А				
Bic	ycle Results					
Perce	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	130		Bicycle Effective Width, ft		18
Bicyc	cle LOS Score	5.84		Bicycle Effective S	peed Factor	5.07
Bicyc	cle LOS	F				
			Segm	nent 22		
Vel	nicle Inputs					
Segn	nent Type	Passing Zone		Length, ft		2640
	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Der	mand and Capacity					
	ctional Demand Flow Rate, veh/h	130		Opposing Deman	d Flow Rate, veh/h	284
	: Hour Factor	0.94		Total Trucks, %		9.00
Segn	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.08
Inte	ermediate Results					
	ment Vertical Class	1		Free-Flow Speed,	• 4	68.3

Speed Slope Coefficient	4.00514	4.00514		oefficient	0.51858
PF Slope Coefficient	-1.21636		PF Power Coeff	icient	0.81840
In Passing Lane Effective Length?	No		Total Segment	Density, veh/mi/ln	0.4
%Improved % Followers	0.0		% Improved Av	rg Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	ius, ft Superelevation, %		Average Speed, mi/h
1 Tangent	2640 -			-	67.7
Vehicle Results	•				
Average Speed, mi/h 67.7		Percent Follow	ers, %	20.4	
Segment Travel Time, minutes	0.44		Followers Dens	ity, followers/mi/ln	0.4
Vehicle LOS	А				
Bicycle Results			•		
Percent Occupied Parking	0		Pavement Cond	dition Rating	4
Flow Rate Outside Lane, veh/h	130		Bicycle Effective	e Width, ft	18
Bicycle LOS Score	5.84		Bicycle Effective	e Speed Factor	5.07
Bicycle LOS	F				
		Segn	nent 23		
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		315
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		0.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	130		Opposing Dem	and Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.08
Intermediate Results					
Segment Vertical Class	1		Free-Flow Spee	ed, mi/h	70.3
Speed Slope Coefficient	4.31900		Speed Power Coefficient		0.41674
PF Slope Coefficient	-1.28943		PF Power Coeff	icient	0.75941
In Passing Lane Effective Length?	No		Total Segment	Density, veh/mi/ln	0.4
%Improved % Followers	0.0		% Improved Av	g Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	idius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	315			-	69.3
Vehicle Results					
Average Speed, mi/h	69.3		Percent Follow	ers, %	23.9
Segment Travel Time, minutes	0.05		Followers Density, followers/mi/ln		0.4

Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	8		Pavement Conditi	ion Rating	4
Flow Rate Outside Lane, veh/h	130		Bicycle Effective V	Vidth, ft	18
Bicycle LOS Score	5.84		Bicycle Effective Speed Factor		5.07
Bicycle LOS	F				
		Segm	ent 24		
Vehicle Inputs					
Segment Type	Passing Zone	Passing Zone			1265
Lane Width, ft	12	12		t	1
Speed Limit, mi/h	65	65		sity, pts/mi	8.0
Demand and Capacity			•		·
Directional Demand Flow Rate, veh/h	148		Opposing Deman	d Flow Rate, veh/h	322
Peak Hour Factor	0.94				9.00
Segment Capacity, veh/h	1700	1700		/ (D/C)	0.09
Intermediate Results			<u> </u>		•
Segment Vertical Class	Segment Vertical Class 1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	3.99523		Speed Power Coe	fficient	0.51070
PF Slope Coefficient	-1.27310		PF Power Coefficient		0.79574
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.5
%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	1265	-		-	67.5
Vehicle Results					
Average Speed, mi/h	67.5		Percent Followers	s, %	24.3
Segment Travel Time, minutes	0.21		Followers Density	, followers/mi/ln	0.5
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	ion Rating	4
Flow Rate Outside Lane, veh/h	Flow Rate Outside Lane, veh/h 148		Bicycle Effective V	Vidth, ft	17
Bicycle LOS Score 6.08		Bicycle Effective S	peed Factor	5.07	
Bicycle LOS	F				
		Segm	ent 25		
Vehicle Inputs					
Segment Type	Passing Constrai	ined	Length, ft		3430
Lane Width, ft	12	2	Shoulder Width, ft		1

Spe	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	mand and Capacity					
Dire	Directional Demand Flow Rate, veh/h 148		Opposing Deman	d Flow Rate, veh/h	-	
Peak	k Hour Factor	0.94		Total Trucks, %		9.00
Segi	Segment Capacity, veh/h 1700		Demand/Capacity	/ (D/C)	0.09	
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	4.24208		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.24135		PF Power Coeffici	ent	0.78001
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.5
%Im	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	Tangent	3430	-		-	67.1
Vel	hicle Results					
Avei	rage Speed, mi/h	67.1		Percent Followers	, %	24.4
Segi	ment Travel Time, minutes	0.58		Followers Density	, followers/mi/ln	0.5
Vehi	icle LOS	Α				
Bic	ycle Results					·
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	, Rate Outside Lane, veh/h	148		Bicycle Effective Width, ft		17
Bicy	cle LOS Score	6.08	Bicycle Effec		peed Factor	5.07
Bicy	cle LOS	F				
			Segn	nent 26		
Vel	hicle Inputs					
Segi	ment Type	Passing Zone		Length, ft		1585
	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity	,				
Dire	ctional Demand Flow Rate, veh/h	148		Opposing Deman	d Flow Rate, veh/h	322
	K Hour Factor	0.94		Total Trucks, %		9.00
Segi	Segment Capacity, veh/h 1700		Demand/Capacity	/ (D/C)	0.09	
Int	ermediate Results					·
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	4.00016		Speed Power Coe	fficient	0.51070
PF S	lope Coefficient	-1.25942		PF Power Coeffici	ent	0.80136
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.5

%Improved % Followers 0.0		0.0		% Improved A	vg S	peed	0.0
Sul	osegment Data						
#	Segment Type	Length, ft	F	Radius, ft		Superelevation, %	Average Speed, mi/h
1	Tangent	1585	-			-	67.5
Vel	hicle Results						
Avei	rage Speed, mi/h	67.5		Percent Follow	vers,	%	23.8
Segi	ment Travel Time, minutes	0.27		Followers Den	sity,	followers/mi/ln	0.5
Vehi	icle LOS	A					
Bic	ycle Results						
Perc	ent Occupied Parking	0		Pavement Cor	nditio	on Rating	4
Flow	Rate Outside Lane, veh/h	148		Bicycle Effectiv	∕e W	idth, ft	17
Bicy	cle LOS Score	6.08		Bicycle Effectiv	∕e Sp	peed Factor	5.07
Bicy	cle LOS	F					
			Seg	ment 27			·
Vel	hicle Inputs						
Segi	ment Type	Passing Constrai	ined	Length, ft	Length, ft		4595
	e Width, ft	12		Shoulder Widt	th, ft		1
Spe	ed Limit, mi/h	65		Access Point D	Densi	ity, pts/mi	8.0
De	mand and Capacity						<u>'</u>
Dire	ctional Demand Flow Rate, veh/h	148		Opposing Der	nanc	l Flow Rate, veh/h	-
Peak	K Hour Factor	0.94		Total Trucks, 9	Total Trucks, %		9.00
Segi	ment Capacity, veh/h	1700		Demand/Capa	Demand/Capacity (D/C)		0.09
Int	ermediate Results	·		·			·
Segi	ment Vertical Class	1		Free-Flow Spe	ed, r	mi/h	68.3
Spe	ed Slope Coefficient	4.25514		Speed Power	Speed Power Coefficient		0.41674
PF S	lope Coefficient	-1.22525		PF Power Coe	fficie	nt	0.78329
In Pa	assing Lane Effective Length?	No		Total Segmen	t Der	nsity, veh/mi/ln	0.5
%Im	proved % Followers	0.0		% Improved A	% Improved Avg Speed		0.0
Sul	osegment Data	·					
#	Segment Type	Length, ft	F	Radius, ft		Superelevation, %	Average Speed, mi/h
1	Tangent	4035	-			-	67.1
2	Horizontal Curve	560	ç	960		8	64.4
Vel	hicle Results						
Ave	rage Speed, mi/h	66.8		Percent Follov	vers,	%	24.0
	ment Travel Time, minutes	0.78		Followers Den	sity,	followers/mi/ln	0.5
-		А					
Vehi							

Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	148		Bicycle Effective V	Vidth, ft	17
Bicycle LOS Score	6.08		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segn	nent 28		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1110
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	148		Opposing Deman	d Flow Rate, veh/h	322
Peak Hour Factor	Peak Hour Factor 0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.09
Intermediate Results	_		•		
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	3.99523		Speed Power Coefficient		0.51070
PF Slope Coefficient	-1.27310	-1.27310		ent	0.79574
In Passing Lane Effective Length?	No	No		nsity, veh/mi/ln	0.5
%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	1110	-		-	67.5
Vehicle Results					
Average Speed, mi/h	67.5		Percent Followers	, %	24.3
Segment Travel Time, minutes	0.19		Followers Density, followers/mi/ln		0.5
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	148		Bicycle Effective V	Vidth, ft	17
Bicycle LOS Score	6.08		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segn	nent 29		
Vehicle Inputs					
Segment Type	Passing Constrai	ned	Length, ft		5385
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity	•		50		·

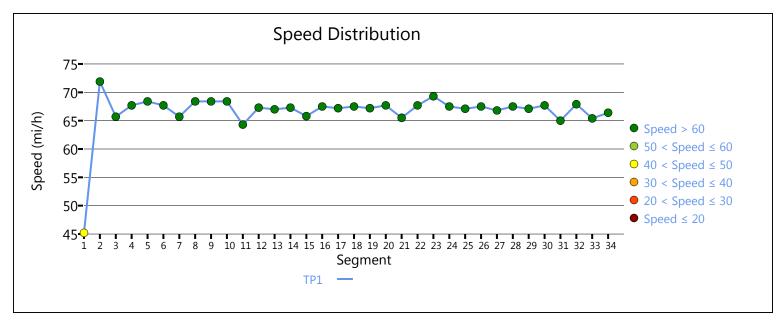
Directional Demand Flow Rate, veh/h	148		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.09
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.26307	4.26307 S _I		fficient	0.41674
PF Slope Coefficient	-1.21895	-1.21895 P		ent	0.78313
In Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.5
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5385	-		-	67.1
Vehicle Results					
Average Speed, mi/h	67.1		Percent Followers	, %	23.9
Segment Travel Time, minutes	0.91		Followers Density,	, followers/mi/ln	0.5
Vehicle LOS	A				
Bicycle Results	•				
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h			Bicycle Effective W	Vidth, ft	17
Bicycle LOS Score	6.08		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segm	ent 30		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1265
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					•
Directional Demand Flow Rate, veh/h	128		Opposing Deman	d Flow Rate, veh/h	280
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.08
Internalists Decules					
Intermediate Results	T		Free-Flow Speed,	mi/h	68.3
	1				+
Segment Vertical Class Speed Slope Coefficient	3.98252		Speed Power Coe	fficient	0.51951
Segment Vertical Class			Speed Power Coe PF Power Coefficie		0.51951 0.79819
Segment Vertical Class Speed Slope Coefficient	3.98252		<u> </u>	ent	

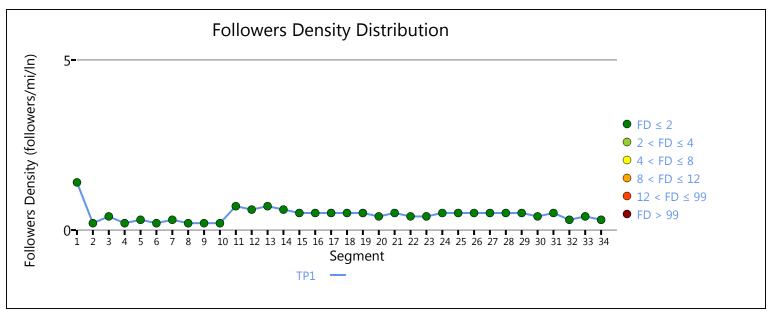
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1265	-		-	67.7
Vel	nicle Results					
Aver	age Speed, mi/h	67.7		Percent Followers	, %	21.7
Segr	ment Travel Time, minutes	0.21		Followers Density	, followers/mi/ln	0.4
Vehi	cle LOS	A				
Bic	ycle Results					
Percent Occupied Parking 0		Pavement Conditi	on Rating	4		
Flow Rate Outside Lane, veh/h 128		Bicycle Effective V	Vidth, ft	18		
Bicy	cle LOS Score	5.83		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
			Segn	nent 31		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrai	ned	Length, ft		5755
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	124		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	γ (D/C)	0.07
Into	ermediate Results					
Segr	ment Vertical Class	3	3		mi/h	66.1
Spee	ed Slope Coefficient	10.18748		Speed Power Coefficient		0.69240
PF S	lope Coefficient	-1.33484		PF Power Coefficient		0.76328
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.5
%Im	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	Tangent	3430	-		-	65.4
2	Horizontal Curve	2325	960	0	8	64.5
Vel	nicle Results					
Aver	age Speed, mi/h	65.0	Percent Followe		, %	23.8
Segr	ment Travel Time, minutes	1.01		Followers Density	, followers/mi/ln	0.5
Vehi	cle LOS	A				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	124		Bicycle Effective Width, ft		18

Bicy	cle LOS Score	5.82		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
		Se	gm	ent 32		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1530
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	mand and Capacity	·				•
Dire	ctional Demand Flow Rate, veh/h	115		Opposing Deman	d Flow Rate, veh/h	251
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	, (D/C)	0.07
Int	ermediate Results			-		
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spee	ed Slope Coefficient	3.97732		Speed Power Coe	fficient	0.52606
PF S	lope Coefficient	-1.25014		PF Power Coefficient		0.80458
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.3
%Im	proved % Followers	0.0	0.0		Speed	0.0
Sul	osegment Data	·				
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1530	-		-	67.9
Vel	hicle Results					
Aver	rage Speed, mi/h	67.9		Percent Followers	, %	19.7
Segr	ment Travel Time, minutes	0.26		Followers Density, followers/mi/ln		0.3
Vehi	cle LOS	А				
Bic	ycle Results	·				•
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	115		Bicycle Effective V	Vidth, ft	19
Bicy	cle LOS Score	5.59		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	F				
		Se	gm	ent 33		
Vel	nicle Inputs					
Sear	ment Type	Passing Constrained		Length, ft		3645
_	e Width, ft	12		Shoulder Width, f	t	1
	ed Limit, mi/h	65		Access Point Dens		8.0
•	mand and Capacity					
	ctional Demand Flow Rate, veh/h	115		Opposing Deman	d Flow Rate, veh/h	-
				, ,		

Segment Capacity, veh/h 1700		Demand/Capacity (D/C)		0.07	
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.24464		Speed Power Coe	fficient	0.41674
PF Slope Coefficient	-1.23762	-1.23762		ent	0.78099
In Passing Lane Effective Length?	e Effective Length? No		Total Segment De	nsity, veh/mi/ln	0.4
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	idius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	945	945 -		-	67.6
2 Horizontal Curve	2700	2700 960		8	64.6
Vehicle Results					•
Average Speed, mi/h	65.4		Percent Followers	, %	20.4
Segment Travel Time, minutes	0.63		Followers Density	followers/mi/ln	0.4
Vehicle LOS A					
Bicycle Results			<u>'</u>		<u>'</u>
Percent Occupied Parking	0)		on Rating	4
Flow Rate Outside Lane, veh/h	115		Bicycle Effective V	Vidth, ft	19
Bicycle LOS Score			Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
	·	Segn	nent 34		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1110
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	115		Opposing Deman	d Flow Rate, veh/h	251
Peak Hour Factor	0.94		Total Trucks, %		4.90
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.07
Intermediate Results			<u>'</u>		<u>'</u>
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.4
Speed Slope Coefficient	3.98077		Speed Power Coe		0.52606
PF Slope Coefficient	-1.26051		PF Power Coefficient	ent	0.79969
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.3
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					·
# Segment Type	Length, ft	Ra	gjjus, ft	Superelevation, %	Average Speed, mi/h

1	Horizontal Curve	548	960		8	64.7		
2	Tangent	562	-		-	68.0		
Veh	Vehicle Results							
Average Speed, mi/h 66.4			Percent Followers,	%	20.0			
Segn	Segment Travel Time, minutes 0.19		Followers Density, followers/mi/ln		0.3			
Vehic	Vehicle LOS A							
Bicy	ycle Results							
Perce	ent Occupied Parking	0		Pavement Conditi	on Rating	4		
Flow	Flow Rate Outside Lane, veh/h 115		Bicycle Effective Width, ft		19			
Bicyc	Bicycle LOS Score 4.11		Bicycle Effective S	peed Factor	5.07			
Bicyc	le LOS	D				_		





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HCS™ Two-Lane Version 7.8.5 HCS_SB SH 83 Analysis AM Existing 2022.xuf Generated: 01/19/2022 09:02:22

	HCS7 Two-L	.ane	Highway Re	eport	
Project Information					
Analyst	CONSOR/Apex		Date		7/14/2021
Agency	CDOT Region 1		Analysis Year		2020
Jurisdiction	Douglas County		Time Period Analy	zed	PM Peak
Project Description	SH 83 Safety and Operation Analysis -	NB	Unit		United States Customary
	S	Segm	nent 1		
Vehicle Inputs					
Segment Type	Passing Constrained		Length, ft		5335
Lane Width, ft	12		Shoulder Width, f	i	3
Speed Limit, mi/h 65		Access Point Dens	ity, pts/mi	8.0	
Demand and Capacity					
Directional Demand Flow Rate, veh/h	213		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		4.90
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.13
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	69.8
Speed Slope Coefficient	4.34586		Speed Power Coe	fficient	0.41674
PF Slope Coefficient	-1.20426		PF Power Coefficient		0.78662
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.0
%Improved % Followers	0.0		% Improved Avg Speed		0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	ius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2955	1-		-	68.1
2 Horizontal Curve	2380	960		8	64.3
Vehicle Results					
Average Speed, mi/h	66.4		Percent Followers	. %	30.0
Segment Travel Time, minutes	0.91		Followers Density, followers/mi/ln		1.0
Vehicle LOS	А				
	S	Segm	nent 2		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1635
Lane Width, ft	12		Shoulder Width, fr	t	2
Speed Limit, mi/h	65		Access Point Dens	ity, pts/mi	8.0
Demand and Capacity					•

Directional Demand Flow Rate, veh/h	213		Opposing Deman	d Flow Rate, veh/h	278
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.13
Intermediate Results	<u>'</u>				•
Segment Vertical Class	1		Free-Flow Speed,	mi/h	69.0
Speed Slope Coefficient 4.02561		Speed Power Coe	fficient	0.51998	
PF Slope Coefficient	-1.24481		PF Power Coefficie	ent	0.80661
In Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.9
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1635	-		-	67.7
Vehicle Results					
Average Speed, mi/h	67.7		Percent Followers	, %	30.0
Segment Travel Time, minutes	0.27		Followers Density, followers/mi/ln		0.9
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking 0		Pavement Conditi	on Rating	4	
Flow Rate Outside Lane, veh/h	213		Bicycle Effective W	Vidth, ft	14
Bicycle LOS Score	6.73			peed Factor	5.07
Bicycle LOS	F				
	S	egn	nent 3		
Vehicle Inputs					
Segment Type	Passing Constrained		Length, ft		5860
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					•
Directional Demand Flow Rate, veh/h	230		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.14
Intermediate Results					
Segment Vertical Class	2		Free-Flow Speed,	mi/h	66.9
Speed Slope Coefficient	6.45386		Speed Power Coe		0.51255
			PF Power Coefficie	ent	0.76399
PF Slope Coefficient	-1.27762		FF Fower Coefficie		•
PF Slope Coefficient In Passing Lane Effective Length?	-1.27762 No		Total Segment De		1.2

#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3360	-		-	64.6
2	Horizontal Curve	2500	960		8	64.1
Vel	hicle Results		·			
Aver	rage Speed, mi/h	64.4		Percent Followers	. %	34.0
Segment Travel Time, minutes 1.03		Followers Density,	followers/mi/ln	1.2		
Vehi	icle LOS	А				
Bic	ycle Results					
Percent Occupied Parking 0		Pavement Conditi	on Rating	4		
Flow	Rate Outside Lane, veh/h	230		Bicycle Effective V	/idth, ft	13
Bicy	cle LOS Score	6.91		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
			Segn	nent 4		
Vel	hicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1100
Lane	e Width, ft	12	-		i	1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	236		Opposing Deman	d Flow Rate, veh/h	310
Peak	Hour Factor	0.94		Total Trucks, %		9.00
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	68.3
Spe	ed Slope Coefficient	3.99151		Speed Power Coefficient		0.51324
PF S	lope Coefficient	-1.27114		PF Power Coefficient		0.79645
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.2
%Im	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1100	-		-	66.9
Vel	hicle Results					
Average Speed, mi/h 66.9			Percent Followers, %		33.1	
Segr	ment Travel Time, minutes	0.19		Followers Density,	followers/mi/ln	1.2
Vehi	icle LOS	A				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	236	ı	Bicycle Effective V	/idth, ft	13

Bicyc	Sicycle LOS Score 6.92		Bicycle Effective S	Speed Factor	5.07
Bicyc	cle LOS	F			
		Se	egment 5		
Veł	nicle Inputs				
Segr	nent Type	Passing Constrained	Length, ft		5335
Lane	Width, ft	12	Shoulder Width,	ft	1
Spee	d Limit, mi/h	65	Access Point Den	sity, pts/mi	8.0
Dei	nand and Capacity				
Dire	ctional Demand Flow Rate, veh/h	236	Opposing Demar	nd Flow Rate, veh/h	-
Peak	Hour Factor	0.94	Total Trucks, %		9.00
Segr	Segment Capacity, veh/h 1700		Demand/Capacit	y (D/C)	0.14
Inte	ermediate Results				
Segr	nent Vertical Class	1	Free-Flow Speed,	mi/h	68.3
Spee	d Slope Coefficient	4.26258	Speed Power Coe	efficient	0.41674
	ope Coefficient	-1.21926	PF Power Coeffic	ient	0.78318
In Pa	ssing Lane Effective Length?	No	Total Segment Do	ensity, veh/mi/ln	1.2
%Im	proved % Followers	0.0	% Improved Avg		0.0
Suk	osegment Data				
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5335	-	-	66.4
Vel	nicle Results				<u> </u>
Aver	age Speed, mi/h	66.4	Percent Followers	5, %	32.5
	nent Travel Time, minutes	0.91	Followers Density		1.2
	cle LOS	A		,	
Bic	vcle Results				
	ycle Results ent Occupied Parking	0	Pavement Condit	ion Rating	4
Perc	ent Occupied Parking	0	Pavement Condit		4
Perc	ent Occupied Parking Rate Outside Lane, veh/h	236	Bicycle Effective \	Width, ft	13
Perco Flow Bicyc	ent Occupied Parking Rate Outside Lane, veh/h cle LOS Score			Width, ft	
Perco Flow Bicyc	ent Occupied Parking Rate Outside Lane, veh/h	236 6.92 F	Bicycle Effective \ Bicycle Effective S	Width, ft	13
Perco Flow Bicyc Bicyc	ent Occupied Parking Rate Outside Lane, veh/h Ele LOS Score	236 6.92 F	Bicycle Effective \	Width, ft	13
Perco Flow Bicyc Bicyc	ent Occupied Parking Rate Outside Lane, veh/h cle LOS Score cle LOS	236 6.92 F	Bicycle Effective S Bicycle Effective S egment 6	Width, ft	13 5.07
Perco Flow Bicyc Bicyc	ent Occupied Parking Rate Outside Lane, veh/h cle LOS Score cle LOS nicle Inputs nent Type	236 6.92 F Se	Bicycle Effective S Bicycle Effective S egment 6 Length, ft	Width, ft Speed Factor	13 5.07 1265
Perco Flow Bicyc Bicyc	Rate Outside Lane, veh/h cle LOS Score cle LOS nicle Inputs nent Type Width, ft	236 6.92 F Se Passing Zone 12	Bicycle Effective S Bicycle Effective S egment 6 Length, ft Shoulder Width, fr	Width, ft Speed Factor	13 5.07 1265 1
Perco Flow Bicyc Bicyc Vel Segr Lane	Rate Outside Lane, veh/h cle LOS Score cle LOS nicle Inputs nent Type Width, ft cd Limit, mi/h	236 6.92 F Se	Bicycle Effective S Bicycle Effective S egment 6 Length, ft	Width, ft Speed Factor	13 5.07 1265
Perco Flow Bicyc Bicyc Vel Segr Lane Spee	Rate Outside Lane, veh/h cle LOS Score cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity	236 6.92 F Se Passing Zone 12 65	Bicycle Effective S Bicycle Effective S Pegment 6 Length, ft Shoulder Width, ft Access Point Den	Width, ft Speed Factor ft sity, pts/mi	13 5.07 1265 1 8.0
Perco Flow Bicyc Bicyc Vel Segr Lane Spee	Rate Outside Lane, veh/h cle LOS Score cle LOS nicle Inputs nent Type Width, ft cd Limit, mi/h	236 6.92 F Se Passing Zone 12	Bicycle Effective S Bicycle Effective S Pegment 6 Length, ft Shoulder Width, ft Access Point Den	Width, ft Speed Factor	13 5.07 1265 1

Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.14
Intermediate Results	1				
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	3.99151		Speed Power Coe	fficient	0.51324
PF Slope Coefficient	-1.27114		PF Power Coefficie	ent	0.79645
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.2
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	ndius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1265	-		-	66.9
Vehicle Results					
Average Speed, mi/h	66.9		Percent Followers	. %	33.1
Segment Travel Time, minutes	0.21		Followers Density,	followers/mi/ln	1.2
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0		Pavement Condition Rating		4
Flow Rate Outside Lane, veh/h	236		Bicycle Effective W	/idth, ft	13
Bicycle LOS Score	6.92		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segi	ment 7		
Vehicle Inputs					
Segment Type	Passing Constrai	ined	Length, ft		4225
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	235		Opposing Deman	d Flow Rate, veh/h	Ţ-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.14
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.25120	4.25120		fficient	0.41674
PF Slope Coefficient -1.22936		PF Power Coefficie	ent	0.78276	
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.2
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	ndius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	4225	-	60	-	66.5

V/-I	iala Dagulta					
	icle Results					
Avera	age Speed, mi/h	66.5		Percent Followers	, %	32.7
Segm	nent Travel Time, minutes	0.72		Followers Density	, followers/mi/ln	1.2
Vehic	ile LOS	А				
Bicy	cle Results					
Perce	nt Occupied Parking	0		Pavement Conditi	ion Rating	4
Flow	Rate Outside Lane, veh/h	235	235		Vidth, ft	13
Bicyc	le LOS Score	6.92	6.92		peed Factor	5.07
Bicyc	le LOS	F				
			Segn	nent 8		
Veh	icle Inputs					
Segm	nent Type	Passing Zone		Length, ft		1740
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	d Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Den	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	235		Opposing Deman	d Flow Rate, veh/h	309
Peak	Hour Factor			Total Trucks, %		9.00
		1700				
Segm	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.14
	ermediate Results	1700		Demand/Capacity	ι (D/C)	0.14
Inte		1700		Demand/Capacity Free-Flow Speed,		68.3
Inte Segm	rmediate Results				mi/h	
Inte Segm Speed	ermediate Results nent Vertical Class	1		Free-Flow Speed,	mi/h fficient	68.3
Segm Speed PF Sld	ermediate Results nent Vertical Class d Slope Coefficient	1 3.99882		Free-Flow Speed, Speed Power Coe	mi/h ifficient ent	68.3 0.51346
Inte Segm Speed PF Sld In Pas	nent Vertical Class d Slope Coefficient ope Coefficient	1 3.99882 -1.25037		Free-Flow Speed, Speed Power Coe PF Power Coeffici	mi/h ifficient ent ensity, veh/mi/ln	68.3 0.51346 0.80500
Inte Segm Speed PF Sld In Pas %Imp	nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length?	1 3.99882 -1.25037 No		Free-Flow Speed, Speed Power Coe PF Power Coeffici	mi/h ifficient ent ensity, veh/mi/ln	68.3 0.51346 0.80500 1.2
Inte Segm Speed PF Sld In Pas %Imp	nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers	1 3.99882 -1.25037 No	Rac	Free-Flow Speed, Speed Power Coe PF Power Coeffici	mi/h ifficient ent ensity, veh/mi/ln	68.3 0.51346 0.80500 1.2
Inte Segm Speed PF Sld In Pas %Imp	remediate Results nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers segment Data	1 3.99882 -1.25037 No 0.0	Rac -	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h ifficient ent ensity, veh/mi/ln Speed	68.3 0.51346 0.80500 1.2 0.0
Inte Segm Speed PF Sld In Pas %Imp Sub	remediate Results nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers segment Data Segment Type	1 3.99882 -1.25037 No 0.0	Rac - 960	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h ifficient ent ensity, veh/mi/ln Speed	68.3 0.51346 0.80500 1.2 0.0
Inte Segm Speed PF Sld In Pas %Imp Sub #	remediate Results nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers segment Data Segment Type Tangent	1 3.99882 -1.25037 No 0.0 Length, ft 660	-	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h ifficient ent ensity, veh/mi/ln Speed Superelevation, %	68.3 0.51346 0.80500 1.2 0.0 Average Speed, mi/h 66.9
Inte Segm Speed PF Sld In Pas %Imp Sub # 1 2 3	ermediate Results nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers segment Data Segment Type Tangent Horizontal Curve	1 3.99882 -1.25037 No 0.0 Length, ft 660 730	-	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h ifficient ent ensity, veh/mi/ln Speed Superelevation, %	68.3 0.51346 0.80500 1.2 0.0 Average Speed, mi/h 66.9 64.1
Inte Segm Speed PF Sld In Pass %Imp Sub # 1 2 3 Veh	ermediate Results nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers segment Data Segment Type Tangent Horizontal Curve Tangent	1 3.99882 -1.25037 No 0.0 Length, ft 660 730	-	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h Ifficient ent ensity, veh/mi/ln Speed Superelevation, % - 8	68.3 0.51346 0.80500 1.2 0.0 Average Speed, mi/h 66.9 64.1
Inte Segm Speed PF Sld In Pas %Imp Sub # 1 2 3 Veh Avera	remediate Results nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers segment Data Segment Type Tangent Horizontal Curve Tangent icle Results	1 3.99882 -1.25037 No 0.0 Length, ft 660 730 350	-	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h efficient ent ensity, veh/mi/ln Speed Superelevation, % - 8 -	68.3 0.51346 0.80500 1.2 0.0 Average Speed, mi/h 66.9 64.1 66.9
Segm Speed PF Slo In Pas %Imp Sub # 1 2 3 Veh Avera	ermediate Results nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers segment Data Segment Type Tangent Horizontal Curve Tangent icle Results age Speed, mi/h	1 3.99882 -1.25037 No 0.0 Length, ft 660 730 350	-	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h efficient ent ensity, veh/mi/ln Speed Superelevation, % - 8 -	68.3 0.51346 0.80500 1.2 0.0 Average Speed, mi/h 66.9 64.1 66.9
Intersection Segment Speed PF Slot In Pass %Imp Sub # 1 2 3 Veh Avera Segment Vehicles	remediate Results nent Vertical Class d Slope Coefficient ope Coefficient ssing Lane Effective Length? roved % Followers segment Data Segment Type Tangent Horizontal Curve Tangent icle Results age Speed, mi/h ment Travel Time, minutes	1 3.99882 -1.25037 No 0.0 Length, ft 660 730 350 65.7 0.30	-	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h efficient ent ensity, veh/mi/ln Speed Superelevation, % - 8 -	68.3 0.51346 0.80500 1.2 0.0 Average Speed, mi/h 66.9 64.1 66.9
Intersection Segment Speed PF Slot In Pass %Imp Sub # 1 2 3 Veh Avera Segment Vehicle Bicy	remediate Results Interpretation of Stope Coefficient Interpretation of Stope Coeff	1 3.99882 -1.25037 No 0.0 Length, ft 660 730 350 65.7 0.30	-	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg	mi/h efficient ent ensity, veh/mi/ln Speed Superelevation, % - 8 - s, % , followers/mi/ln	68.3 0.51346 0.80500 1.2 0.0 Average Speed, mi/h 66.9 64.1 66.9
Interest Segment Speed PF Slot In Pass %Imp Sub # 1 2 3 Veh Avera Segment Vehic Bicy Percest	remediate Results Ident Vertical Class Ident Slope Coefficient Ident Specificient Ident	1 3.99882 -1.25037 No 0.0 Length, ft 660 730 350 65.7 0.30 A	-	Free-Flow Speed, Speed Power Coe PF Power Coeffici Total Segment De % Improved Avg s dius, ft Percent Followers Followers Density	mi/h Ifficient Insity, veh/mi/ln Speed Superelevation, % - 8 - Insity, veh/mi/ln Speed Superelevation, % - Insity of the series of	68.3 0.51346 0.80500 1.2 0.0 Average Speed, mi/h 66.9 64.1 66.9 32.3 1.2

Bicycle LOS	F				
		Segn	nent 9		
Vehicle Inputs					
Segment Type	Passing Constraine	d	Length, ft		3540
Lane Width, ft	12	12		t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	235		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.14
Intermediate Results	<u>'</u>		<u> </u>		
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.24340		Speed Power Coe	fficient	0.41674
PF Slope Coefficient	-1.23939		PF Power Coefficion	ent	0.78054
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.2
%Improved % Followers	0.0	0.0		Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft Superelevation, %		Average Speed, mi/h
1 Tangent	3540	-		-	66.5
Vehicle Results					
Average Speed, mi/h	66.5		Percent Followers	5, %	33.0
Segment Travel Time, minutes	0.61		Followers Density, followers/mi/ln		1.2
Vehicle LOS	А	A			
Bicycle Results			•		
Percent Occupied Parking	0		Pavement Condition Rating		4
Flow Rate Outside Lane, veh/h	235		Bicycle Effective V	Vidth, ft	13
Bicycle LOS Score	6.92		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segm	nent 10		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1900
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity	•				
Directional Demand Flow Rate, veh/h	235		Opposing Deman	d Flow Rate, veh/h	309
Peak Hour Factor	0.94		Total Trucks, %		9.00

Seg	ermediate Results	1.		T_ :		1
	ment Vertical Class	1		Free-Flow Speed,		68.3
	ed Slope Coefficient	4.00148		Speed Power Coe		0.51346
	Slope Coefficient			PF Power Coefficie		0.80765
	assing Lane Effective Length?	No		Total Segment De		1.1
%In	nproved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1900	-		-	66.9
Ve	hicle Results					
Ave	rage Speed, mi/h	66.9		Percent Followers,	, %	32.0
Seg	ment Travel Time, minutes	0.32		Followers Density,	followers/mi/ln	1.1
Veh	icle LOS	A				
Bio	cycle Results					
Per	cent Occupied Parking	0		Pavement Conditi	on Rating	4
Flov	v Rate Outside Lane, veh/h	235		Bicycle Effective Width, ft		13
Вісу	rcle LOS Score	6.92		Bicycle Effective Speed Factor		5.07
Вісу	rcle LOS	F				
			Segn	nent 11		
Ve	hicle Inputs					
Seg	ment Type	Passing Constrair	ned	Length, ft		475
Lan	e Width, ft	12		Shoulder Width, ft		1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
_	mand and Capacity					
De	·	240		Opposing Demand Flow Rate, veh/h		-
	ectional Demand Flow Rate, veh/h					
Dire	k Hour Factor	0.94		Total Trucks, %		9.00
Dire Pea		0.94 1700		Total Trucks, % Demand/Capacity	(D/C)	9.00
Dire Pea Seg	k Hour Factor				(D/C)	
Dire Pea Seg	k Hour Factor ment Capacity, veh/h cermediate Results			Demand/Capacity		
Dire Pea Seg Int Seg	k Hour Factor ment Capacity, veh/h	1700			mi/h	0.14
Dire Pea Seg Int Seg Spe	k Hour Factor ment Capacity, veh/h cermediate Results ment Vertical Class	1700		Demand/Capacity Free-Flow Speed,	mi/h fficient	0.14
Dire Pea Seg Int Seg Spe	k Hour Factor ment Capacity, veh/h cermediate Results ment Vertical Class ed Slope Coefficient	1700 1 4.21060		Demand/Capacity Free-Flow Speed, Speed Power Coe	mi/h fficient ent	0.14 68.3 0.41674
Dire Pea Seg Int Seg Spe PF S	k Hour Factor ment Capacity, veh/h cermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient	1700 1 4.21060 -1.31148		PF Power Coefficie	mi/h fficient ent nsity, veh/mi/ln	0.14 68.3 0.41674 0.75510
Pea Seg Int Seg Spe PF S	ment Capacity, veh/h cermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length?	1700 1 4.21060 -1.31148 No		Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De	mi/h fficient ent nsity, veh/mi/ln	0.14 68.3 0.41674 0.75510 1.3
Direct Pear Seg Int Seg Spe PF S In P %Im	k Hour Factor ment Capacity, veh/h cermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length? hproved % Followers bsegment Data	1700 1 4.21060 -1.31148 No 0.0	Raa	Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De % Improved Avg S	mi/h fficient ent nsity, veh/mi/ln Speed	0.14 68.3 0.41674 0.75510 1.3 0.0
Director Pear Seg Int Seg Spe PF S In P %Int Sul	k Hour Factor ment Capacity, veh/h rermediate Results ment Vertical Class ed Slope Coefficient Slope Coefficient assing Lane Effective Length? proved % Followers	1700 1 4.21060 -1.31148 No	Rac	Free-Flow Speed, Speed Power Coe PF Power Coefficie Total Segment De	mi/h fficient ent nsity, veh/mi/ln	0.14 68.3 0.41674 0.75510 1.3

Segment Travel Time, minutes	Avorago Spood milh	66.4		Porcont Falls	orc %	36.0
Parcent Occupied Parking 0	Average Speed, mi/h					
Procession Pro				Followers Density, followers/mi/in		1.3
Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 12 Vehicle Inputs Segment 17 Segment 19 Passing Zone Length, ft 1740 Lane Width, ft 12 Shoulder Width, ft 1 Speed Limit mi/h 65 Access Point Density, pts/mi 8.0 Demand and Capacity Directional Demand Flow Rate, veh/h 240 Opposing Demand Flow Rate, veh/h 315 Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.14 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.00069 Speed Power Coefficient 0.51218 PF Slope Coefficient 2.125134 PF Power Coefficient 0.80463 In Passing Lane Effective Length? No Total Segment Density, veh/mi/In 12 Simproved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 17 Tangent 1740 - 66.8 Percent Occupied Parking 0 Percent Followers, % 32.8 Segment Travel Time, minutes 0.30 Followers Density, followers/mi/In 12 Vehicle Los Score 6.93 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 13						
Bicycle Effective Width, ft	Bicycle Results					
Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07	Percent Occupied Parking	0		Pavement Con	dition Rating	4
Segment 12 Segment 12	Flow Rate Outside Lane, veh/h	240		Bicycle Effectiv	e Width, ft	13
Segment 12	Bicycle LOS Score	6.93		Bicycle Effectiv	e Speed Factor	5.07
Vehicle Inputs Passing Zone Length, ft 1740 Segment Type Passing Zone Length, ft 1740 Lane Width, ft 12 Shoulder Width, ft 1 Speed Limit, mi/h 65 Access Point Density, pts/mi 8.0 Demand and Capacity Directional Demand Flow Rate, veh/h 240 Opposing Demand Flow Rate, veh/h 315 Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.14 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.00069 Speed Power Coefficient 0.51218 PF Slope Coefficient -1.25134 PF Power Coefficient 0.80463 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.2 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Type Length, ft Radius, ft Superclevation, % Average Speed, mi/h	Bicycle LOS	F				
Segment Type			Segm	ent 12		
12	Vehicle Inputs					
Speed Limit, mi/h	Segment Type	Passing Zone		Length, ft		1740
Demand and Capacity Directional Demand Flow Rate, veh/h 240 Opposing Demand Flow Rate, veh/h 315 Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.14 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.00069 Speed Power Coefficient 0.51218 PF Slope Coefficient -1.25134 PF Power Coefficient 0.80463 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.2 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data ## Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1740 - 666.8 Vehicle Results Average Speed, mi/h 66.8 Percent Followers, % 32.8 Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Wehicle LOS A Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS F Segment 13	Lane Width, ft	12		Shoulder Widtl	h, ft	1
Directional Demand Flow Rate, veh/h 240 Opposing Demand Flow Rate, veh/h 315	Speed Limit, mi/h	65		Access Point D	ensity, pts/mi	8.0
Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.14 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.00069 Speed Power Coefficient 0.51218 PF Slope Coefficient 0.80463 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.2 Walmproved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1740 - - 66.8 Vehicle Results Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Vehicle LOS A Bicycle Effective Width, ft 13 Bicycle LOS 6.93 Bicycle Effective Speed Factor 5.07 Segment 13 </td <td>Demand and Capacity</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Demand and Capacity					
Segment Capacity, veh/h	Directional Demand Flow Rate, veh/h	240		Opposing Demand Flow Rate, veh/h		315
Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.00069 Speed Power Coefficient 0.51218 PF Slope Coefficient -1.25134 PF Power Coefficient 0.80463 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.2 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1740 - 66.8 Vehicle Results Average Speed, mi/h 66.8 Percent Followers, % 32.8 Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Vehicle LOS A Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Bicycle LOS Segment 13	Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.00069 Speed Power Coefficient 0.51218 PF Slope Coefficient -1.25134 PF Power Coefficient 0.80463 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.2 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data #* Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1740 - 66.8 Vehicle Results Average Speed, mi/h 66.8 Percent Followers, % 32.8 Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Vehicle LOS A Followers Density followers/mi/ln 1.2 Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 13	Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.14
Speed Slope Coefficient 4.00069 Speed Power Coefficient 0.51218 PF Slope Coefficient -1.25134 PF Power Coefficient 0.80463 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.2 ½ Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1740 - 66.8 Vehicle Results Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Vehicle LOS A Image: Average Speed, mi/h 1.2 Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS F Segment 13	Intermediate Results					
PF Slope Coefficient -1.25134 PF Power Coefficient 0.80463 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.2 **Mimproved % Followers 0.0 % Improved Avg Speed 0.0 **Subsegment Data** **** **** **** ***Segment Type	Segment Vertical Class	1		Free-Flow Spee	ed, mi/h	68.3
In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.2 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type	Speed Slope Coefficient	4.00069		Speed Power Coefficient		0.51218
%Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type	PF Slope Coefficient	-1.25134		PF Power Coefficient		0.80463
# Segment Type	In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.2
# Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1740 - - 66.8 Vehicle Results Average Speed, mi/h 66.8 Percent Followers, % 32.8 Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Vehicle LOS A Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Bicycle LOS F Segment 13	%Improved % Followers	0.0		% Improved Avg Speed		0.0
Tangent 1740 - 66.8 Vehicle Results Average Speed, mi/h 66.8 Percent Followers, % 32.8 Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Vehicle LOS A Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 13	Subsegment Data					
Vehicle Results Average Speed, mi/h 66.8 Percent Followers, % 32.8 Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Vehicle LOS A Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 13	# Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
Average Speed, mi/h Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Vehicle LOS A Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 13	1 Tangent	1740	-		-	66.8
Segment Travel Time, minutes 0.30 Followers Density, followers/mi/ln 1.2 Wehicle LOS Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 13	Vehicle Results					
Vehicle LOS Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 13	Average Speed, mi/h	66.8		Percent Follow	ers, %	32.8
Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Bicycle LOS Score F Segment 13	Segment Travel Time, minutes	0.30		Followers Dens	sity, followers/mi/ln	1.2
Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 240 Bicycle Effective Width, ft 13 Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Bicycle LOS Segment 13	Vehicle LOS	Α				
Flow Rate Outside Lane, veh/h Bicycle Effective Width, ft Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Segment 13	Bicycle Results					
Bicycle LOS Score 6.93 Bicycle Effective Speed Factor 5.07 Bicycle LOS F Segment 13	Percent Occupied Parking	0		Pavement Con	dition Rating	4
Bicycle LOS F Segment 13	Flow Rate Outside Lane, veh/h	240		Bicycle Effectiv	e Width, ft	13
Segment 13	Bicycle LOS Score	6.93		Bicycle Effectiv	e Speed Factor	5.07
	Bicycle LOS	F				
Vehicle Inputs 64			Segm	ent 13		
	Vehicle Inputs		6	34		

Segn	ment Type	Passing Constrained		Length, ft		8130
Lane	Width, ft	12		Shoulder Width, ft		1
Spee	ed Limit, mi/h 65		Access Point Dens	sity, pts/mi	8.0	
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	ow Rate, veh/h 257			d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segn	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.15
Inte	ermediate Results					
Segn	ment Vertical Class	2		Free-Flow Speed,	mi/h	66.8
Spee	ed Slope Coefficient	6.91269		Speed Power Coe	fficient	0.52093
PF SI	lope Coefficient	-1.27840		PF Power Coefficie	ent	0.75675
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.5
%Im	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	2960	-		-	64.2
2	Horizontal Curve	795	960)	8	64.0
3	Tangent	4375	-		-	64.2
Vel	nicle Results					
Aver	rage Speed, mi/h	64.2	54.2 Percent Follow		, %	36.7
Segn	ment Travel Time, minutes	1.44	.44 Followers Der		followers/mi/ln	1.5
Vehi	cle LOS	А				
Bic	ycle Results					
Perce	ent Occupied Parking	0		Pavement Condition Rating		4
Flow	Rate Outside Lane, veh/h	257		Bicycle Effective Width, ft		13
Bicyc	cle LOS Score	6.96		Bicycle Effective S	peed Factor	5.07
Bicyc	cle LOS	F				
		S	egm	ent 14		
Vel	nicle Inputs					
	ment Type	Passing Zone		Length, ft		1100
	· Width, ft	12		Shoulder Width, fr	t	1
	ed Limit, mi/h	65		Access Point Dens		8.0
Der	mand and Capacity			<u> </u>		
	ctional Demand Flow Rate, veh/h	257		Opposing Deman	d Flow Rate, veh/h	337
	Hour Factor	0.94		Total Trucks, %		9.00
	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.15
Segn	nent Capacity, ven/n	1700		Demand, Capacity	(D/C)	0.13

Segment Vertica	al Class	1		Free-Flow Speed, mi/h		68.3
Speed Slope Co	efficient	3.99949		Speed Power C	oefficient	0.50784
PF Slope Coeffic	ient	-1.27528	-1.27528		icient	0.79492
In Passing Lane	Effective Length?	No	No		Density, veh/mi/ln	1.4
%Improved % Fo	ollowers	0.0		% Improved Av	g Speed	0.0
Subsegmen	it Data			•		•
# Segment	 Гуре	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent		1100			-	66.7
Vehicle Res	ults	<u>'</u>				
Average Speed,	mi/h	66.7		Percent Followe	 ers, %	35.2
Segment Travel		0.19			ity, followers/mi/ln	1.4
Vehicle LOS	<u>·</u>	A				
Bicycle Res	ults					
Percent Occupie		0		Pavement Cond	dition Rating	4
Flow Rate Outsid	-	257		Bicycle Effective		13
Bicycle LOS Scor		6.96		Bicycle Effective Speed Factor		5.07
Bicycle LOS		F				
			Seam	ent 15		
Vehicle Inp	uts					
Segment Type		Passing Constrain	ied	Length, ft		2110
Lane Width, ft		12		Shoulder Width	n, ft	1
Speed Limit, mi/	'h	65		Access Point Density, pts/mi		8.0
Demand an	d Capacity					
Directional Dem	and Flow Rate, veh/h	257		Opposing Demand Flow Rate, veh/h		-
Peak Hour Facto	or	0.94		Total Trucks, %		9.00
Segment Capaci	ty, veh/h	1700		Demand/Capacity (D/C)		0.15
Intermedia	te Results					
Segment Vertica	al Class	1		Free-Flow Speed, mi/h		68.3
Speed Slope Co	efficient	4.22420		Speed Power C	oefficient	0.41674
PF Slope Coeffic	ient	-1.27547		PF Power Coeff	icient	0.76866
<u> </u>	Effective Length?	No		Total Segment	Density, veh/mi/ln	1.4
%Improved % Fo	ollowers	0.0		% Improved Av	g Speed	0.0
Subsegmen	it Data					•
# Segment	Гуре	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
		2110	-		-	66.3
1 Tangent						
1 Tangent Vehicle Res	ults	<u> </u>				

	1.7	0.26		E	6.11	1
	el Time, minutes	0.36		Followers Density, followers/mi/ln		1.4
Vehicle LOS		A				
Bicycle Re	esults					
Percent Occup	oied Parking	0		Pavement Condition Rating		4
Flow Rate Out	tside Lane, veh/h	257		Bicycle Effective W	/idth, ft	13
Bicycle LOS So	core	6.96		Bicycle Effective S	peed Factor	5.07
Bicycle LOS		F				
		Se	gm	ent 16		
Vehicle In	puts					
Segment Type	9	Passing Zone		Length, ft		1585
Lane Width, ft	i	12		Shoulder Width, ft	t	1
Speed Limit, r	ni/h	65		Access Point Dens	ity, pts/mi	8.0
Demand a	and Capacity					
Directional De	emand Flow Rate, veh/h	263		Opposing Demand	d Flow Rate, veh/h	337
Peak Hour Fac	ctor	0.94		Total Trucks, %		9.00
Segment Capa	acity, veh/h	1700		Demand/Capacity (D/C)		0.15
Intermedi	ate Results					
Segment Vert	ical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope (Coefficient	4.00441		Speed Power Coe	fficient	0.50784
PF Slope Coef	ficient	-1.26157		PF Power Coefficient		0.80053
In Passing Lar	ne Effective Length?	No		Total Segment Density, veh/mi/ln		1.4
%Improved %	Followers	0.0		% Improved Avg Speed		0.0
Subsegme	ent Data					
# Segmer	nt Type	Length, ft	Rad	dius, ft Superelevation, %		Average Speed, mi/h
1 Tangen	t	1585	-		-	66.7
Vehicle Re	esults					
Average Spee	d, mi/h	66.7		Percent Followers,	. %	35.1
Segment Trav	el Time, minutes	0.27		Followers Density,	followers/mi/ln	1.4
Vehicle LOS		А				
Bicycle Re	esults					
Percent Occup	oied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Out	tside Lane, veh/h	263		Bicycle Effective W	/idth, ft	13
Bicycle LOS So	core	6.97		Bicycle Effective S	peed Factor	5.07
Bicycle LOS		F				
		Se	gm	ent 17		
Vehicle In	puts					
Segment Type	<u> </u>	Passing Constrained	6	Length, ft		845

Lane	e Width, ft	12		Shoulder Width, ft		1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	263		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.15
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spee	ed Slope Coefficient	4.21060		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.31148		PF Power Coefficie	ent	0.75510
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.5
%Im	proved % 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	Horizontal Curve	401	960)	8	64.0
2	Tangent	444	-		-	66.3
Vel	hicle Results					
Average Speed, mi/h		65.2		Percent Followers	, %	38.0
Segr	ment Travel Time, minutes	0.15		Followers Density,	followers/mi/ln	1.5
Vehi	icle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condition Rating		4
Flow	Rate Outside Lane, veh/h	263		Bicycle Effective Width, ft		13
Bicy	cle LOS Score	6.97		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	F				
			Segm	ent 18		
Vel	hicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		2430
	e Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	mand and Capacity					•
Dire	ctional Demand Flow Rate, veh/h	263		Opposing Deman	d Flow Rate, veh/h	337
	c Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.15
Int	ermediate Results					•
Segr	ment Vertical Class	1		Free-Flow Speed, mi/h		68.3
	ed Slope Coefficient	4.01784		Speed Power Coefficient		0.50784

PF Slope Coefficient -1.23009		PF Power Coefficie	ent	0.81300		
In Pass	ing Lane Effective Length?	No	No		nsity, veh/mi/ln	1.3
%Impr	oved % Followers	0.0		% Improved Avg S	Speed	0.0
Subs	egment Data	<u>'</u>		•		'
# 5	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 T	angent	2430	-		-	66.7
Vehic	cle Results					
Averag	e Speed, mi/h	66.7		Percent Followers	, %	34.0
Segme	nt Travel Time, minutes	0.41		Followers Density,	followers/mi/ln	1.3
Vehicle	LOS	А				
Bicyc	cle Results					
 Percen	t Occupied Parking	0		Pavement Conditi	on Rating	4
Flow R	ate Outside Lane, veh/h	263		Bicycle Effective V	Vidth, ft	13
Bicycle	LOS Score	6.97		Bicycle Effective S	peed Factor	5.07
Bicycle	LOS	F				
		S	egm	ent 19		
Vehi	cle Inputs					
Segme	nt Type	Passing Constrained		Length, ft		900
Lane W	/idth, ft	12		Shoulder Width, f	t	3
Speed	Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dem	and and Capacity					
Direction	onal Demand Flow Rate, veh/h	302		Opposing Demand Flow Rate, veh/h		-
Peak H	our Factor	0.94		Total Trucks, %		9.00
Segme	nt Capacity, veh/h	1700		Demand/Capacity (D/C)		0.18
Inter	mediate Results					
Segme	nt Vertical Class	1		Free-Flow Speed,	mi/h	69.7
Speed	Slope Coefficient	4.28648		Speed Power Coe	fficient	0.41674
PF Slop	pe Coefficient	-1.29610		PF Power Coefficient		0.75811
In Pass	ing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.8
%Impr	oved % Followers	0.0		% Improved Avg S	Speed	0.0
Subs	egment Data					
# 5	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent 900 -			-	67.5		
Vehi	cle Results					
Averag	e Speed, mi/h	67.5		Percent Followers	, %	40.7
	nt Travel Time, minutes	0.15		Followers Density,	followers/mi/ln	1.8
-		А		69		

Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	, Rate Outside Lane, veh/h	302		Bicycle Effective W	Vidth, ft	15
Bicy	cle LOS Score	6.76	6.76		peed Factor	5.07
Bicy	cle LOS	F	F			
		<u>'</u>	Segm	ent 20		
Vel	hicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1425
_	e Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dei	mand and Capacity	<u> </u>				
Dire	ctional Demand Flow Rate, veh/h	302		Opposing Deman	d Flow Rate, veh/h	395
Peak	K Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.18
Inte	ermediate Results	<u>'</u>				
Segr	ment Vertical Class	1		Free-Flow Speed, mi/h		68.3
_	ed Slope Coefficient	4.01707		Speed Power Coe		0.49770
	lope Coefficient	-1.27704		PF Power Coefficie		0.79428
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.8
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	bsegment Data	,				
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1425	-	-		66.5
Vel	hicle Results	<u>'</u>				<u>'</u>
Aver	rage Speed, mi/h	66.5		Percent Followers, %		39.0
	ment Travel Time, minutes	0.24		Followers Density,	followers/mi/ln	1.8
Vehi	icle LOS	А				
Bic	ycle Results	<u> </u>				•
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
	/ Rate Outside Lane, veh/h	302		Bicycle Effective W		13
	cle LOS Score	7.04		Bicycle Effective S		5.07
_	cle LOS	F				
			Segm	ent 21		
Vel	hicle Inputs					
	ment Type	Passing Constrai	ned	Length, ft		4435
			i icu		t	1
Lane Width, ft 12		65	7	Shoulder Width, ft Access Point Density, pts/mi		8.0

De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	302		Opposing Deman	d Flow Rate, veh/h	-
Peak	c Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.18
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spee	ed Slope Coefficient	4.25345		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.22693		PF Power Coeffici	ent	0.78311
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	1.8
%Im	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	1540	-		-	66.1
2	Horizontal Curve	2095	960)	8	63.9
3	Tangent	800	-		-	66.1
Vel	hicle Results					
Aver	rage Speed, mi/h	65.1		Percent Followers, %		38.2
Segr	ment Travel Time, minutes	0.77		Followers Density	, followers/mi/ln	1.8
Vehi	icle LOS	A				
Bic	ycle Results	·				
Perc	ent Occupied Parking	0		Pavement Conditi	ion Rating	4
Flow	Rate Outside Lane, veh/h	302		Bicycle Effective Width, ft		13
Bicy	cle LOS Score	7.04		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	F				
			Segm	ent 22		
Vel	hicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1215
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	302		Opposing Deman	d Flow Rate, veh/h	395
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.18
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	4.01506		Speed Power Coe	fficient	0.49770
PF S	lope Coefficient	-1.28281	7	PF Power Coeffici	ent	0.79196

In Passing Lance Effective Length? No Sumproved Avg Speed 0.0						
Supersection Supe	2				1.8	
Segment Type	%Improved % Followers	0.0	0.0		g Speed	0.0
Targent	Subsegment Data					
Vehicle Results	# Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
Average Speed, mi/h Segment Travel Time, minutes 0.21 Followers Density, followers/mi/ln 1.8 A Bicycle Results Percent Occupied Parking O Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 302 Bicycle Effective Width, ft 13 Bicycle LOS Score F Segment 23 Vehicle Inputs Segment 1ype Lane Width, ft 12 Shoulder Width, ft 13 Boyeld Limith 65 Access Point Density, pts/mi 80 Boyeld Effective Limith 12 Shoulder Width, ft 13 Boyeld Limith 14 Boyeld Limith 15 Boyeld Limith 16 Boyeld Limith 17 Boyeld Limith 18 Boyeld Limith 19 Boyeld Limith 19 Boyeld Limith 10 Boyeld Limith 11 Boyeld Limit	1 Tangent	1215	-		-	66.5
Segment Travel Time, minutes 0.21 Followers Density, followers/mi/ln 1.8 Percent Occupied Parking 0 Pavement Condition Rating 4	Vehicle Results					
No Passing	Average Speed, mi/h	66.5		Percent Followe	rs, %	39.2
Bicycle Results Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 302 Bicycle Effective Width, ft 13 Bicycle LOS Score 7,04 Bicycle Effective Speed Factor 5,07 Bicycle LOS Score F S Segment 23 Vehicle Inputs Segment 23 Vehicle Inputs Segment Type Passing Constrained Length, ft 1160 Lane Width, ft 12 Shoulder Width, ft 1 1 Speed Limit, mi/h 65 Access Point Density, pts/mi 8.0 Demand and Capacity Directional Demand Flow Rate, veh/h 700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4,21060 Speed Power Coefficient 0,41674 FF Slope Coefficient 1-1.31148 PF Power Coefficient 0,41674 FF Slope Coefficient 1-1.31148 PF Power Coefficient 0,75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 -	Segment Travel Time, minutes	0.21		Followers Densi	ty, followers/mi/ln	1.8
Percent Occupied Parking 0 Pavement Condition Rating 4 Flow Rate Outside Lane, veh/h 302 Bicycle Effective Width, ft 13 Bicycle LOS Score 7.04 Bicycle Effective Speed Factor 5.07 Bicycle LOS F	Vehicle LOS	А				
Bicycle Los Score 7.04 Bicycle Effective Width, ft 13	Bicycle Results					
Bicycle LOS Score Recycle LOS F Segment 23 Vehicle Inputs Segment Type Passing Constrained Length, ft 1160 Lane Width, ft 12 Shoulder Width, ft 15 Speed Limit, mi/h 65 Access Point Density, pts/mi 8.0 Demand Capacity Directional Demand Flow Rate, veh/h 1700 Demand/Capacity (D/C) Intermediate Results Segment Vertical Class 1 Speed Slope Coefficient 4,21060 Speed Power Coefficient 1-31148 PF Power Coefficient 1-3148 PF Power Coefficient 1-31148 PF Power Coefficient 1	Percent Occupied Parking	0		Pavement Cond	ition Rating	4
Bicycle LOS F Segment 23 Vehicle Inputs Segment Type Passing Constrained Length, ft 1160 Lane Width, ft 12 Shoulder Width, ft 1 1 Speed Limit, mi/h 65 Access Point Density, pts/mi 8.0 Demand and Capacity Directional Demand Flow Rate, veh/h 302 Opposing Demand Flow Rate, veh/h - Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PP P Slope Coefficient 1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	Flow Rate Outside Lane, veh/h	302		Bicycle Effective	Width, ft	13
Segment 23 Vehicle Inputs Segment Type Passing Constrained Length, ft 1160 Lane Width, ft 12 Shoulder Width, ft 1 Speed Limit, mi/h 65 Access Point Density, pts/mi 8.0 Demand and Capacity Directional Demand Flow Rate, veh/h 302 Opposing Demand Flow Rate, veh/h - Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient 0.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 % Improved & Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Percent Followers, % 41.2 Vehicle Results <td>Bicycle LOS Score</td> <td>7.04</td> <td></td> <td>Bicycle Effective</td> <td>Speed Factor</td> <td>5.07</td>	Bicycle LOS Score	7.04		Bicycle Effective	Speed Factor	5.07
Vehicle Inputs Segment Type Passing Constrained Length, ft 1160 Lane Width, ft 12 Shoulder Width, ft 1 Speed Limit, mi/h 65 Access Point Density, pts/mi 8.0 Demand and Capacity Directional Demand Flow Rate, veh/h 302 Opposing Demand Flow Rate, veh/h - Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class \$1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient -1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 66.1 Vehicle Results Xoverage Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A - 66.1	Bicycle LOS	F				
Passing Constrained Length, ft 1160			Segn	nent 23		
Lane Width, ft 12 Shoulder Width, ft 1 1 Speed Limit, mi/h 65 Access Point Density, pts/mi 8.0 Demand and Capacity Directional Demand Flow Rate, veh/h 302 Opposing Demand Flow Rate, veh/h - Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient -1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 Mimproved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data ## Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	Vehicle Inputs					
Speed Limit, mi/h 65 Access Point Density, pts/mi 8.0 Demand and Capacity Directional Demand Flow Rate, veh/h 302 Opposing Demand Flow Rate, veh/h - Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 0.41674 PF Slope Coefficient 0.41674 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 - - 66.1 Vehicle Results Average Speed, mi/h 66.1	Segment Type	Passing Constra	nined	Length, ft		1160
Demand and Capacity Directional Demand Flow Rate, veh/h 302 Opposing Demand Flow Rate, veh/h - Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient -1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 - - 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9	Lane Width, ft	12		Shoulder Width	, ft	1
Directional Demand Flow Rate, veh/h Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient 1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS	Speed Limit, mi/h	65		Access Point De	nsity, pts/mi	8.0
Peak Hour Factor 0.94 Total Trucks, % 9.00 Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 9.4.21060 Speed Power Coefficient 9.4.1060 PF Power Coefficient 9.75510 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 1 Tangent 1160 Percent Followers, % Average Speed, mi/h 1 Tangent Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A # One Percent Followers, % Followers/mi/ln 1.9 Vehicle LOS A # One Percent Followers, % Followers/mi/ln 1.9 Vehicle LOS A # One Percent Followers, % Followers/mi/ln 1.9 **Company Company Comp	Demand and Capacity			•		
Segment Capacity, veh/h 1700 Demand/Capacity (D/C) 0.18 Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient -1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 - - 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A Followers Density, followers/mi/ln 1.9	Directional Demand Flow Rate, veh/h	302		Opposing Dema	and Flow Rate, veh/h	-
Intermediate Results Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient -1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 - 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A Followers Density, followers/mi/ln 1.9	Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Vertical Class 1 Free-Flow Speed, mi/h 68.3 Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient -1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 - 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A — — —	Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.18
Speed Slope Coefficient 4.21060 Speed Power Coefficient 0.41674 PF Slope Coefficient -1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 - 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	Intermediate Results					·
PF Slope Coefficient -1.31148 PF Power Coefficient 0.75510 In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 %Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 - 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	Segment Vertical Class	1		Free-Flow Speed	d, mi/h	68.3
In Passing Lane Effective Length? No Total Segment Density, veh/mi/ln 1.9 **Mimproved % Followers 0.0 **Improved Avg Speed 0.0 **Subsegment Data ** Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160	Speed Slope Coefficient	4.21060		Speed Power Co	pefficient	0.41674
%Improved % Followers 0.0 % Improved Avg Speed 0.0 Subsegment Data # Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 - 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	PF Slope Coefficient	-1.31148		PF Power Coeffi	cient	0.75510
# Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h Tangent 1160 - 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	In Passing Lane Effective Length?	No		Total Segment I	Density, veh/mi/ln	1.9
# Segment Type Length, ft Radius, ft Superelevation, % Average Speed, mi/h 1 Tangent 1160 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	%Improved % Followers	0.0		% Improved Av	g Speed	0.0
Tangent 1160 66.1 Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	Subsegment Data					
Vehicle Results Average Speed, mi/h 66.1 Percent Followers, % 41.2 Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	# Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
Average Speed, mi/h Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	1 Tangent	1160	-		-	66.1
Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	Vehicle Results					
Segment Travel Time, minutes 0.20 Followers Density, followers/mi/ln 1.9 Vehicle LOS A	Average Speed, mi/h	66.1		Percent Followe	rs, %	41.2
Vehicle LOS A		0.20		Followers Densi	ty, followers/mi/ln	1.9
Bicycle Results 72	Vehicle LOS	А				
	Ricycle Results			72		

Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	302		Bicycle Effective V	Vidth, ft	13
Bicycle LOS Score	7.04		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segn	nent 24		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1265
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	302		Opposing Deman	d Flow Rate, veh/h	395
Peak Hour Factor	Hour Factor 0.94		Total Trucks, %		9.00
Segment Capacity, veh/h 1700			Demand/Capacity	(D/C)	0.18
Intermediate Results			•		
Segment Vertical Class	1		Free-Flow Speed, mi/h		68.3
Speed Slope Coefficient	4.01506		Speed Power Coe	fficient	0.49770
PF Slope Coefficient	-1.28281	-1.28281		ent	0.79196
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.8
%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	1265	-		-	66.5
Vehicle Results					
Average Speed, mi/h	66.5		Percent Followers	, %	39.2
Segment Travel Time, minutes	0.22		Followers Density, followers/mi/ln		1.8
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	302		Bicycle Effective V	Vidth, ft	13
Bicycle LOS Score	7.04		Bicycle Effective Speed Factor		5.07
Bicycle LOS	F				
		Segn	nent 25		
Vehicle Inputs					
Segment Type	Passing Constrain	ned	Length, ft		4330
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity	,		73		

Dire	ctional Demand Flow Rate, veh/h	302		Opposing Demand Flow Rate, veh/h		-
Peal	k Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h 1700		Demand/Capacity	/ (D/C)	0.18		
Int	ermediate Results					
Segi	ment Vertical Class	3		Free-Flow Speed,	mi/h	66.1
Spe	ed Slope Coefficient	9.51713		Speed Power Coe	efficient	0.67702
PF S	lope Coefficient	-1.32607		PF Power Coeffici	ent	0.77005
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.0
%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	2165	-		-	62.9
2	Horizontal Curve	1880	960)	8	62.9
3	Tangent	285 -			-	62.9
Ve	hicle Results					
Avei	rage Speed, mi/h	62.9		Percent Followers	s, %	41.0
Segi	ment Travel Time, minutes	0.78		Followers Density	, followers/mi/ln	2.0
Vehicle LOS		А				
Bic	ycle Results	<u>'</u>		<u>'</u>		
Perc	rent Occupied Parking	0		Pavement Conditi	ion Rating	4
Flow	/ Rate Outside Lane, veh/h	302		Bicycle Effective V	Vidth, ft	13
Bicy	cle LOS Score	7.04		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
		<u>'</u>	Segm	ent 26		<u>'</u>
Vel	hicle Inputs					
	<u> </u>	Passing Zone		Length, ft		3590
	ment Type e Width, ft	12		-	·+	1
	ed Limit, mi/h	65		Shoulder Width, ft Access Point Density, pts/mi		8.0
_		103		Access 1 oint Den.	3ιτy, ρτ3/1111	0.0
	mand and Capacity	1.47		lo : p		100
	ctional Demand Flow Rate, veh/h	147			d Flow Rate, veh/h	193
	C Hour Factor	0.94		Total Trucks, %	, (D/C)	5.60
	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.09
Int	ermediate Results					
Segi	ment Vertical Class	2		Free-Flow Speed,	mi/h	67.7
Spe	ed Slope Coefficient	4.91828		Speed Power Coe	efficient	0.64894
PF S	lope Coefficient	-1.16082		PF Power Coeffici	ent	0.82863
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.5
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0

Sul	osegment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3590	-		-	67.0
Vel	nicle Results					
Aver	age Speed, mi/h	67.0		Percent Followers	;, %	21.1
Segr	ment Travel Time, minutes	0.61		Followers Density	, followers/mi/ln	0.5
Vehicle LOS A						
Bic	ycle Results					
Percent Occupied Parking 0		Pavement Condit	ion Rating	4		
Flow	Rate Outside Lane, veh/h	147		Bicycle Effective V	Vidth, ft	17
Bicy	cle LOS Score	4.82		Bicycle Effective S	peed Factor	5.07
Bicy	Bicycle LOS E					
			Segr	ment 27		
Vel	nicle Inputs					
Segr	ment Type	Passing Constrain	ned	Length, ft	Length, ft	
Lane	Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	147		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		5.60
Segr	ment Capacity, veh/h	1700		Demand/Capacity	Demand/Capacity (D/C)	
Int	ermediate Results					
Segr	ment Vertical Class	2		Free-Flow Speed,	Free-Flow Speed, mi/h	
Spe	ed Slope Coefficient	5.54297		Speed Power Coe	Speed Power Coefficient	
PF S	lope Coefficient	-1.30197		PF Power Coefficient		0.76108
In Pa	assing Lane Effective Length?	No		Total Segment De	Total Segment Density, veh/mi/ln	
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3800	-		-	66.4
Vel	nicle Results					
Aver	age Speed, mi/h	66.4		Percent Followers	, %	26.1
Segr	ment Travel Time, minutes	0.65		Followers Density	, followers/mi/ln	0.6
Vehi	cle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condition Rating		4
Flow	Rate Outside Lane, veh/h	147		75 Bicycle Effective V	Vidth, ft	17

Bicy	cle LOS Score	4.82		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	E				
		Se	gm	ent 28		
Vel	hicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1635
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	147		Opposing Deman	d Flow Rate, veh/h	193
Peak	K Hour Factor	0.94		Total Trucks, %		5.60
Segr	ment Capacity, veh/h	1700		Demand/Capacity	γ (D/C)	0.09
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.4
Spee	ed Slope Coefficient	3.96492		Speed Power Coe	fficient	0.54137
PF S	lope Coefficient	-1.23253		PF Power Coefficient		0.81055
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.5
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	bsegment Data			-		
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1635	-	-		67.7
Vel	hicle Results					
Aver	rage Speed, mi/h	67.7		Percent Followers	, %	22.9
Segr	ment Travel Time, minutes	0.27		Followers Density, followers/mi/ln		0.5
Vehi	icle LOS	А				
Bic	ycle Results					•
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	/ Rate Outside Lane, veh/h	147		Bicycle Effective Width, ft		17
Bicy	cle LOS Score	4.82		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	E				
		Se	gm	ent 29		
Vel	hicle Inputs					
Segr	ment Type	Passing Constrained		Length, ft		1585
	e Width, ft	12		Shoulder Width, f	t	1
	ed Limit, mi/h	65		Access Point Dens		0.0
De	mand and Capacity					
	ctional Demand Flow Rate, veh/h	147		Opposing Deman	d Flow Rate, veh/h	-
	K Hour Factor	0.94	7	Total Trucks, %		5.60

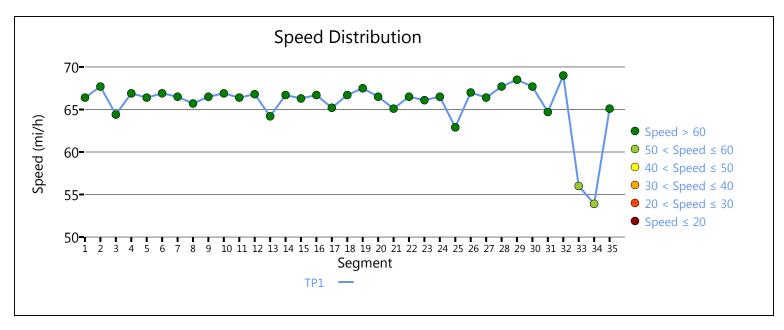
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.09
Intermediate Results					
Segment Vertical Class	2		Free-Flow Speed,	mi/h	69.6
Speed Slope Coefficient	5.02173		Speed Power Coe	fficient	0.50350
PF Slope Coefficient	-1.37937		PF Power Coefficie	ent	0.74595
In Passing Lane Effective Length?	No	No		nsity, veh/mi/ln	0.6
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1585	-		-	68.5
Vehicle Results					
Average Speed, mi/h	68.5		Percent Followers,	%	28.1
Segment Travel Time, minutes	0.26		Followers Density,	followers/mi/ln	0.6
Vehicle LOS	Α	A			
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	147		Bicycle Effective W	/idth, ft	17
Bicycle LOS Score	4.82		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	E				
		Segn	ment 30		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1635
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	147		Opposing Demand	d Flow Rate, veh/h	193
Peak Hour Factor	0.94		Total Trucks, %		5.60
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.09
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.4
Speed Slope Coefficient	3.96492			fficient	0.54137
PF Slope Coefficient -1.23253		PF Power Coefficie	ent	0.81055	
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.5
%Improved % Followers	0.0		% Improved Avg S	peed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1635	-	77	-	67.7

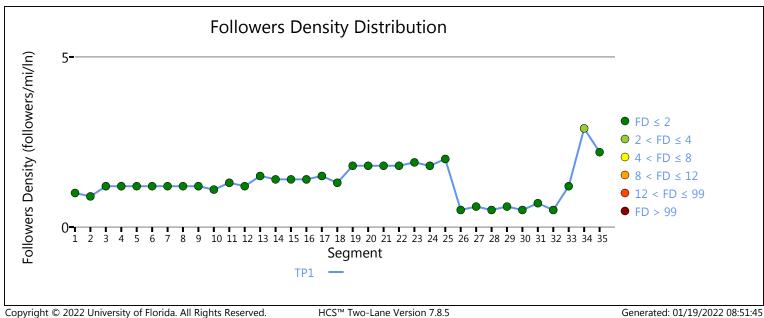
Average Speed, mi/h	67.7		Percent Follow	ers, %	22.9
Segment Travel Time, minutes	0.27		Followers Dens	ity, followers/mi/ln	0.5
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Con	dition Rating	4
Flow Rate Outside Lane, veh/h	147		Bicycle Effectiv	e Width, ft	17
Bicycle LOS Score	4.82		Bicycle Effectiv	e Speed Factor	5.07
Bicycle LOS	E				
		Seg	ment 31		
Vehicle Inputs					
Segment Type	Passing Constrai	ned	Length, ft		7340
Lane Width, ft	12	12		n, ft	3
Speed Limit, mi/h	65		Access Point D	ensity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	147	147		and Flow Rate, veh/h	-
Peak Hour Factor	tor 0.94		Total Trucks, %		5.60
Segment Capacity, veh/h	1700		Demand/Capa	city (D/C)	0.09
Intermediate Results					
Segment Vertical Class	4		Free-Flow Spee	ed, mi/h	67.1
Speed Slope Coefficient	12.25551		Speed Power C	oefficient	0.52891
PF Slope Coefficient	-1.74397		PF Power Coef	ficient	0.76962
In Passing Lane Effective Length?	No		Total Segment	Density, veh/mi/ln	0.7
%Improved % Followers	0.0		% Improved Av	⁄g Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	R	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	7340	-		-	64.7
Vehicle Results					
Average Speed, mi/h	64.7		Percent Follow	ers, %	32.9
Segment Travel Time, minutes	1.29		Followers Dens	ity, followers/mi/ln	0.7
3	A				
Vehicle LOS					•
Vehicle LOS Bicycle Results	0		Pavement Con	dition Rating	4
Vehicle LOS	0 147		Pavement Con Bicycle Effectiv		4 20
Vehicle LOS Bicycle Results Percent Occupied Parking				e Width, ft	
Vehicle LOS Bicycle Results Percent Occupied Parking Flow Rate Outside Lane, veh/h	147		Bicycle Effectiv	e Width, ft	20

Ve	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		2270
Lan	e Width, ft	12	12			3
Spe	ed Limit, mi/h	65		Access Point Dens	ity, pts/mi	8.0
De	mand and Capacity			•		
Dire	ectional Demand Flow Rate, veh/h	147	147		d Flow Rate, veh/h	193
Pea	k Hour Factor	0.94	0.94			5.60
Seg	ment Capacity, veh/h	1700	1700		(D/C)	0.09
Int	termediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	69.8
Spe	ed Slope Coefficient	4.05100		Speed Power Coe	fficient	0.54137
PF S	Slope Coefficient	-1.19905		PF Power Coefficie	ent	0.82410
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.5
%In	nproved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2270	-		-	69.0
Ve	hicle Results					<u>'</u>
Ave	rage Speed, mi/h	69.0		Percent Followers,	%	21.9
Seg	ment Travel Time, minutes	0.37	0.37		followers/mi/ln	0.5
Veh	icle LOS	A				
Bio	cycle Results					
Per	cent Occupied Parking	0		Pavement Condition	on Rating	4
Flov	w Rate Outside Lane, veh/h	147		Bicycle Effective Width, ft		20
Bicy	vcle LOS Score	4.27		Bicycle Effective Speed Factor		5.07
Bicy	vcle LOS	D				
		Se	egm	nent 33		·
Ve	hicle Inputs					
Seg	ment Type	Passing Constrained		Length, ft		13465
	e Width, ft	12		Shoulder Width, ft	:	6
Spe	ed Limit, mi/h	65		Access Point Dens	ity, pts/mi	8.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	157		Opposing Demand	d Flow Rate, veh/h	-
Pea	k Hour Factor	0.94		Total Trucks, %		5.60
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.09
Int	termediate Results					
Sea	ment Vertical Class	5	7	79 Free-Flow Speed,	mi/h	66.0
		1	Segment vertical class			1

Sne	ed Slope Coefficient	23.92578		Speed Power Coe	fficient	0.30590
· ·	lope Coefficient	-2.29869		PF Power Coefficie		0.77976
	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.2
	aproved % Followers	0.0		% Improved Avg Speed		0.0
	bsegment Data	1		, , , , , , , , , , , , , , , , , , ,	1	
#	Segment Type	Length, ft	Pa	dius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	3125	96		8	56.0
2	Tangent	5415	90	0	-	56.0
3	Horizontal Curve	2290	96	0	8	56.0
4	Tangent	2635	90	0	-	56.0
		2033	-		-	30.0
Vel	hicle Results					
Avei	rage Speed, mi/h	56.0		Percent Followers	, %	41.9
Segi	ment Travel Time, minutes	2.73		Followers Density,	followers/mi/ln	1.2
Vehi	icle LOS	А				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condition Rating		4
Flow	v Rate Outside Lane, veh/h	157		Bicycle Effective W	/idth, ft	29
Bicy	cle LOS Score	2.09		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	В				
			Segn	nent 34		
Vel	hicle Inputs					
	ment Type	Passing Zone		Length, ft		2430
	e Width, ft	12		Shoulder Width, ft		1
Spe	ed Limit, mi/h	55		Access Point Density, pts/mi		8.0
De	mand and Capacity					
	ctional Demand Flow Rate, veh/h	347		Opposing Deman	d Flow Rate, veh/h	454
	K Hour Factor	0.94		Total Trucks, %	a riow rate, very ri	5.60
	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.20
	ermediate Results	1700		Demand, capacity	(5) (5)	0.20
		1		Free-Flow Speed,	mi/h	55.8
Segment Vertical Class 4		<u> </u>		0.69318		
Speed Slope Coefficient 5.21788			Speed Power Coefficie		0.76130	
PF Slope Coefficient -1.35669					2.9	
	assing Lane Effective Length?	No		Total Segment De		0.0
	proved % 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	2430	-		-	53.9

Vel	hicle Results					
Avei	rage Speed, mi/h	53.9		Percent Followers	5, %	45.4
	ment Travel Time, minutes	0.51		Followers Density		2.9
	icle LOS	В		, ,	, , ,	
	ycle Results					<u> </u>
	ent Occupied Parking	0		Pavement Conditi	ion Rating	4
	v Rate Outside Lane, veh/h	347		Bicycle Effective V	Vidth, ft	13
Bicy	cle LOS Score	5.72	5.72		Speed Factor	4.79
Bicy	cle LOS	F				
			Segn	nent 35		<u>'</u>
Vel	hicle Inputs					
Segi	ment Type	Passing Constrai	Passing Constrained			4540
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	veh/h 347		Opposing Deman	nd Flow Rate, veh/h	-
Peak	k Hour Factor	0.94		Total Trucks, %		5.60
Segi	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.20
Int	ermediate Results					
Segi	ment Vertical Class	1	1		mi/h	68.4
Spe	ed Slope Coefficient	4.26070		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.22506		PF Power Coeffici	ent	0.78302
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.2
%Im	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	2111	960	0	8	63.9
2	Tangent	2429	-		-	66.0
Vel	hicle Results					
Ave	rage Speed, mi/h	65.1		Percent Followers	5, %	41.4
Segi	ment Travel Time, minutes	0.79		Followers Density	, followers/mi/ln	2.2
Vehicle LOS B						
Bic	ycle Results					
	ent Occupied Parking	0		Pavement Conditi	ion Rating	4
Perc			Bicycle Effective Width, ft		+	
	v Rate Outside Lane, veh/h	347		Bicycle Effective V	Vidth, ft	13
Flow		347 5.86		Bicycle Effective V Bicycle Effective S		5.07





HCS™ Two-Lane Version 7.8.5 HCS_NB SH 83 Analysis PM Existing 2022.xuf

	HCS7 Two-La	ne Highway	Report	
Project Information				
Analyst	CONSOR/Apex	Date		7/16/2021
Agency	CDOT Region 1	Analysis Year		2020
Jurisdiction	Douglas County	Time Period Ar	nalyzed	PM Peak
Project Description	SH 83 Safety and Operation Analysis - Sl	Unit B		United States Customary
	Se	egment 1		
Vehicle Inputs				
Segment Type	Passing Constrained	Length, ft		6125
Lane Width, ft	12	Shoulder Widtl	n, ft	2
Speed Limit, mi/h	45	Access Point D	ensity, pts/mi	8.0
Demand and Capacity				
Directional Demand Flow Rate, veh/h	454	Opposing Dem	nand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	•	5.60
Segment Capacity, veh/h	1700	Demand/Capa	city (D/C)	0.27
Intermediate Results				
Segment Vertical Class	1	Free-Flow Spee	ed, mi/h	46.3
Speed Slope Coefficient	3.07829	Speed Power C	Coefficient	0.41674
PF Slope Coefficient	-1.37840	PF Power Coef	ficient	0.71945
In Passing Lane Effective Length?	No	Total Segment	Density, veh/mi/ln	5.6
%Improved % Followers	0.0	% Improved Av	/g Speed	0.0
Subsegment Data				
# Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	6125	-	-	44.3
Vehicle Results				
Average Speed, mi/h	44.3	Percent Follow	ers, %	54.2
Segment Travel Time, minutes	1.57	Followers Dens	ity, followers/mi/ln	5.6
Vehicle LOS	С			
Bicycle Results	·			
Percent Occupied Parking	0	Pavement Con-	dition Rating	4
Flow Rate Outside Lane, veh/h	e Lane, veh/h 454		e Width, ft	14
Bicycle LOS Score	5.53	Bicycle Effectiv	e Speed Factor	4.42
Bicycle LOS	F			
	Se	egment 2		
Vehicle Inputs				
Tellicie Ilipats		83		

Segn	nent Type	Passing Zone	Passing Zone			1690
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	224		Opposing Deman	d Flow Rate, veh/h	171
Peak	Hour Factor	0.94		Total Trucks, %		5.60
Segn	nent Capacity, veh/h	1700	1700		' (D/C)	0.13
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	71.9
Spee	ed Slope Coefficient	4.14739		Speed Power Coe	fficient	0.54776
PF SI	ope Coefficient	-1.19953		PF Power Coefficie	ent	0.82191
In Pa	ssing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.9
%Im _l	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sub	segment Data					
#	Segment Type	Length, ft Radius		dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690 -			-	70.6
Vel	nicle Results					<u>'</u>
Average Speed, mi/h 70.6			Percent Followers	 , %	29.6	
	nent Travel Time, minutes	0.27	0.27		, followers/mi/ln	0.9
	cle LOS	A				
Bic	ycle Results			<u>'</u>		
Perce	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	224		Bicycle Effective Width, ft		24
Bicyc	cle LOS Score	3.60		Bicycle Effective Speed Factor		5.07
Bicyc	cle LOS	D				
			Segn	nent 3		
Vel	nicle Inputs					
Segn	nent Type	Passing Constrain	ned	Length, ft		11880
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	224		Opposing Deman	d Flow Rate, veh/h	-
	Hour Factor	0.94		Total Trucks, %		5.60
	nent Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.13
	ermediate Results					
	nent Vertical Class	4		Free-Flow Speed,	mi/h	65.7
	ed Slope Coefficient	13.20663		Speed Power Coe		0.40914

PF SI	lope Coefficient	-1.97178		PF Power Coeffic	cient	0.75086
In Pa	assing Lane Effective Length?	No		Total Segment D	Pensity, veh/mi/ln	1.8
%Im _l	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sub	osegment Data					
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	8660	-		-	60.0
2	Horizontal Curve	3220	3220 960		8	60.0
Vel	nicle Results					
Average Speed, mi/h 60.0		Percent Follower	rs, %	47.4		
Segn	ment Travel Time, minutes	2.25		Followers Densit	y, followers/mi/ln	1.8
Vehicle LOS A						
Bic	ycle Results			•		
Perce	ent Occupied Parking	0		Pavement Condi	tion Rating	4
Flow	Rate Outside Lane, veh/h	224 E		Bicycle Effective	Width, ft	13
Bicyc	cle LOS Score	5.63		Bicycle Effective	Speed Factor	5.07
Bicycle LOS F						
			Seg	ment 4		
Vel	nicle Inputs					
Segn	ment Type	Passing Zone		Length, ft		1585
Lane	Width, ft	12		Shoulder Width,	ft	1
Spee	ed Limit, mi/h	65		Access Point De	nsity, pts/mi	8.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	224		Opposing Dema	nd Flow Rate, veh/h	171
Peak	Hour Factor	0.94		Total Trucks, %		5.60
Segn	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.13
Inte	ermediate Results					
Segn	ment Vertical Class	2		Free-Flow Speed	l, mi/h	67.7
Spee	ed Slope Coefficient	4.14433		Speed Power Co	efficient	0.64919
PF SI	lope Coefficient	-1.23450		PF Power Coeffic	cient	0.80582
In Pa	assing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	1.0
%Im _l	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sub	osegment Data					
#	Segment Type	t Type Length, ft Rad		adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1585			-	66.6
Vel	nicle Results					
Aver	age Speed, mi/h	66.6		Percent Follower	rs, %	31.0
3 1		Followers Density, followers/mi/ln 1.		1.0		

Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	224	224 I		Vidth, ft	13
Bicycle LOS Score	5.63		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segn	nent 5		
Vehicle Inputs					
Segment Type	Passing Constra	Passing Constrained L			315
Lane Width, ft	12			t	1
Speed Limit, mi/h	65	65		sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	193		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94	0.94			5.60
Segment Capacity, veh/h	1700	1700		/ (D/C)	0.11
Intermediate Results					•
Segment Vertical Class 1		Free-Flow Speed,	mi/h	68.4	
Speed Slope Coefficient	4.21673	4.21673		fficient	0.41674
PF Slope Coefficient	-1.31065		PF Power Coeffici	ent	0.75485
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.9
%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	315	-		-	66.8
Vehicle Results					
Average Speed, mi/h	66.8		Percent Followers	, %	31.5
Segment Travel Time, minutes	0.05		Followers Density	, followers/mi/ln	0.9
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h 193		Bicycle Effective Width, ft		13	
Bicycle LOS Score	5.56		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segn	nent 6		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		2005
Lane Width, ft	12	8	Shoulder Width, ft		6

Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	, veh/h 193		Opposing Demand Flow Rate, veh/h		147
Peak	c Hour Factor	0.94		Total Trucks, %		5.60
Segi	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.11
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	71.9
Spe	ed Slope Coefficient	4.14252 S		Speed Power Coe	efficient	0.55584
PF S	lope Coefficient	-1.18124		PF Power Coeffici	ient	0.82965
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.7
%Im	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2005	-		-	70.8
Vel	hicle Results					
Average Speed, mi/h 70.8		70.8		Percent Followers, %		26.0
Segment Travel Time, minutes		0.32		Followers Density	, followers/mi/ln	0.7
Vehi	Vehicle LOS A					
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow	Rate Outside Lane, veh/h	193		Bicycle Effective \	Width, ft	24
Bicy	cle LOS Score	3.52		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	D				
			Segr	ment 7		
Vel	hicle Inputs					
Segi	ment Type	Passing Constrai	ned	Length, ft		10295
	e Width, ft	12		Shoulder Width, f	ft	6
Spe	ed Limit, mi/h	50		Access Point Density, pts/mi		0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	0		Opposing Demar	nd Flow Rate, veh/h	-
Peak	K Hour Factor	0.94		Total Trucks, %		0.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity	y (D/C)	0.00
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	57.0
Spe	ed Slope Coefficient	3.69036		Speed Power Coe	efficient	0.41674
PF S	lope Coefficient	-1.32795		PF Power Coeffici	ient	0.72660
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.0

%Ir	nproved % Followers	0.0	0.0		% Improved Avg Speed	
Su	bsegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	10295	-		-	57.0
Ve	hicle Results					
Ave	erage Speed, mi/h	57.0		Percent Followers	i, %	0.0
Seg	ment Travel Time, minutes	2.05	2.05		, followers/mi/ln	0.0
Veł	nicle LOS	А				
Bi	cycle Results					
Per	cent Occupied Parking	0		Pavement Conditi	ion Rating	4
Flo	w Rate Outside Lane, veh/h	0		Bicycle Effective V	Vidth, ft	42
Bic	ycle LOS Score	0.00		Bicycle Effective S	peed Factor	4.62
Bic	ycle LOS	А				
			Segr	nent 8		
Ve	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		3060
Lar	e Width, ft	12	12		t	1
Spe	eed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
De	emand and Capacity					
Dir	ectional Demand Flow Rate, veh/h	193		Opposing Deman	d Flow Rate, veh/h	147
Pea	ık Hour Factor	0.94		Total Trucks, %		5.60
Seg	ment Capacity, veh/h	1700		Demand/Capacity	Demand/Capacity (D/C)	
In	termediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed, mi/h		68.4
Spe	eed Slope Coefficient	3.96775		Speed Power Coefficient		0.55584
PF	Slope Coefficient	-1.17728		PF Power Coeffici	PF Power Coefficient	
In F	Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.7
%Ir	nproved % Followers	0.0		% Improved Avg Speed		0.0
Su	bsegment Data					
	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
#	Tangent	3060			-	67.4
#						
1	hicle Results			Percent Followers	, %	25.8
1 Ve	ehicle Results erage Speed, mi/h	67.4		Followers Density, followers/mi/ln		
1 Ve		0.52		Followers Density	, followers/mi/ln	0.7
1 Ave	erage Speed, mi/h			Followers Density	, followers/mi/ln	0.7
1 Ave Seg Vel	erage Speed, mi/h gment Travel Time, minutes	0.52		Followers Density	, followers/mi/ln	0.7

Flow Rate Outside Lane, veh/h	193		Bicycle Effective \	Width, ft	13
Bicycle LOS Score	5.56	5.56		Speed Factor	5.07
Bicycle LOS	F				
		Segn	nent 9		
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		2430
Lane Width, ft	12		Shoulder Width,	ft	1
Speed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	193		Opposing Demar	nd Flow Rate, veh/h	-
Peak Hour Factor	0.94	0.94			5.60
Segment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.11
Intermediate Results					
Segment Vertical Class	al Class 1		Free-Flow Speed,	mi/h	68.4
Speed Slope Coefficient 4.23509		Speed Power Coe	efficient	0.41674	
PF Slope Coefficient	-1.26418		PF Power Coeffic	ient	0.77219
In Passing Lane Effective Length?	No	No		ensity, veh/mi/ln	0.9
%Improved % Followers 0.0			% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2430	-		-	66.8
Vehicle Results					
Average Speed, mi/h	66.8		Percent Followers	5, %	29.8
Segment Travel Time, minutes	0.41		Followers Density, followers/mi/ln		0.9
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow Rate Outside Lane, veh/h	193		Bicycle Effective Width, ft		13
Bicycle LOS Score	5.56		Bicycle Effective S	Speed Factor	5.07
Bicycle LOS	F				
		Segm	ent 10		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		3645
Lane Width, ft	12		Shoulder Width,	ft	1
Speed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
Demand and Capacity					
			•	nd Flow Rate, veh/h	

Peak Hour Factor	0.94 Total Truck		Total Trucks, %		5.60
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.11
Intermediate Results					
Segment Vertical Class	1	1		mi/h	68.4
Speed Slope Coefficient	3.97491	3.97491		fficient	0.55584
PF Slope Coefficient	-1.16682		PF Power Coeffici	ent	0.83608
In Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	0.7
%Improved % Followers	0.0	0.0		Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	3645	-		-	67.4
Vehicle Results					
Average Speed, mi/h	67.4		Percent Followers	, %	25.5
Segment Travel Time, minutes	0.61		Followers Density	, followers/mi/ln	0.7
Vehicle LOS	A				
Bicycle Results					•
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	193		Bicycle Effective V	Vidth, ft	13
Bicycle LOS Score	5.56		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segm	nent 11		
Vehicle Inputs					
Segment Type	Passing Constrair	ned	Length, ft		4120
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	395		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.23
Intermediate Results					
Segment Vertical Class	3		Free-Flow Speed,	mi/h	66.1
Speed Slope Coefficient	9.40946	Speed Power Coefficient		0.67475	
PF Slope Coefficient	-1.32676		PF Power Coeffici	ent	0.77062
In Passing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	3.0
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data			<u>'</u>		
# Segment Type	Length, ft	Rag	 sjjus, ft	Superelevation, %	Average Speed, mi/h

1	Horizontal Curve	4120	96	0	8	62.0
Vel	hicle Results					
Aver	rage Speed, mi/h	62.0		Percent Followers	, %	47.7
Segr	ment Travel Time, minutes	0.75		Followers Density,	followers/mi/ln	3.0
Vehi	cle LOS	В				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	395		Bicycle Effective V	/idth, ft	13
Bicy	cle LOS Score	7.18		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F	F			
			Segn	nent 12		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1110
Lane	e Width, ft	12	12 5		t	1
Spe	ed Limit, mi/h	65	65		sity, pts/mi	8.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	395		Opposing Deman	d Flow Rate, veh/h	302
Peak	Hour Factor	0.94	0.94			9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.23
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	3.98931		Speed Power Coe	fficient	0.51476
PF S	lope Coefficient	-1.26997		PF Power Coefficie	ent	0.79688
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.7
%Im	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1110	-		-	66.2
Vel	hicle Results					
Aver	rage Speed, mi/h	66.2		Percent Followers	, %	45.4
Segment Travel Time, minutes 0.19		Followers Density, followers/mi/ln		2.7		
Vehicle LOS B						
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	395		Bicycle Effective V	/idth, ft	13
Bicy	cle LOS Score	7.18		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F		91		

			Segn	nent 13		
Vel	nicle Inputs					
Segr	ment Type	Passing Constraine	ed	Length, ft		1320
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	395		Opposing Deman	d Flow Rate, veh/h	-
Peak	Hour Factor	0.94		Total Trucks, %		9.00
Segr	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.23
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spee	ed Slope Coefficient	4.21060		Speed Power Coe	fficient	0.41674
PF SI	lope Coefficient	-1.31148		PF Power Coeffici	ent	0.75510
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.9
%Im	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	Tangent	1320	-		-	65.8
Vel	nicle Results					
Aver	age Speed, mi/h	65.8		Percent Followers	, %	47.8
Segr	ment Travel Time, minutes	0.23		Followers Density, followers/mi/ln		2.9
Vehi	cle LOS	В				
Bic	ycle Results					
Perc	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	395		Bicycle Effective Width, ft		13
Bicyc	cle LOS Score	7.18		Bicycle Effective S	peed Factor	5.07
Bicyc	cle LOS	F				
			Segn	nent 14		
Vel	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		1210
_	Width, ft	12		Shoulder Width, f	t	1
Spee	ed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Dei	mand and Capacity					•
Dire	ctional Demand Flow Rate, veh/h	395		Opposing Deman	d Flow Rate, veh/h	302
Peak	: Hour Factor	0.94		Total Trucks, %		9.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.23

Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	3.98931		Speed Power Coe	fficient	0.51476
PF S	lope Coefficient	-1.26997		PF Power Coefficie	ent	0.79688
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.7
%Im	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	bsegment Data	•				
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1210	-		-	66.2
Vel	hicle Results					
Avei	rage Speed, mi/h	66.2		Percent Followers	, %	45.4
Segi	ment Travel Time, minutes	0.21	0.21		, followers/mi/ln	2.7
Vehi	icle LOS	В				
Bic	ycle Results					
Perc	ent Occupied Parking	0	0		on Rating	4
Flow	r Rate Outside Lane, veh/h	395	395		Vidth, ft	13
Bicy	cle LOS Score	7.18		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
			Segn	nent 15		·
Vel	hicle Inputs					
Segi	ment Type	Passing Constrair	ned	Length, ft		6760
Lane	e Width, ft	12		Shoulder Width, ft		1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity					·
Dire	ctional Demand Flow Rate, veh/h	344		Opposing Deman	d Flow Rate, veh/h	-
Peak	k Hour Factor	0.94		Total Trucks, %		9.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.20
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	4.27558		Speed Power Coe	fficient	0.41674
PF S	lope Coefficient	-1.21419		PF Power Coefficie	ent	0.77950
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.2
%Im	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3280	-		-	65.9
2	Horizontal Curve	3480	960		8	63.8
	1		1 '		1	

Vehicle Results					
Average Speed, mi/h	64.8		Percent Follo	wers, %	41.0
Segment Travel Time, minutes	1.18		Followers Der	nsity, followers/mi/ln	2.2
Vehicle LOS	В				
Bicycle Results					
Percent Occupied Parking	0		Pavement Co	ndition Rating	4
Flow Rate Outside Lane, veh/h	344		Bicycle Effecti	ve Width, ft	13
Bicycle LOS Score	7.11		Bicycle Effecti	ve Speed Factor	5.07
Bicycle LOS	F				
		Seg	ment 16		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		2060
Lane Width, ft	12	12		th, ft	1
Speed Limit, mi/h	mi/h 65		Access Point	Density, pts/mi	8.0
Demand and Capacity	·				
Directional Demand Flow Rate, veh/h	344	344		mand Flow Rate, veh/h	263
Peak Hour Factor	0.94	0.94		%	9.00
Segment Capacity, veh/h	1700	1700		acity (D/C)	0.20
Intermediate Results	·		•		
Segment Vertical Class	1		Free-Flow Spe	eed, mi/h	68.3
Speed Slope Coefficient	3.98998		Speed Power	Coefficient	0.52333
PF Slope Coefficient	-1.23038		PF Power Coe	fficient	0.81289
In Passing Lane Effective Length?	No		Total Segmen	t Density, veh/mi/ln	2.1
%Improved % Followers	0.0		% Improved A	Avg Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	ı	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2060		-	-	66.4
Vehicle Results	'				
Average Speed, mi/h	66.4		Percent Follo	wers, %	40.3
Segment Travel Time, minutes	0.35		Followers Der	nsity, followers/mi/ln	2.1
Vehicle LOS					
Bicycle Results					
Percent Occupied Parking	0		Pavement Co	ndition Rating	4
Flow Rate Outside Lane, veh/h	344		Bicycle Effecti	ve Width, ft	13
Bicycle LOS Score	7.11		Bicycle Effecti	ve Speed Factor	5.07
Bicycle LOS	F				

Ve	hicle Inputs					
Seg	ment Type	Passing Constrained		Length, ft		1320
Lan	e Width, ft	12	12		t	1
Spe	ed Limit, mi/h	65		Access Point Dens	ity, pts/mi	8.0
De	mand and Capacity					·
Dire	ectional Demand Flow Rate, veh/h	337	337		d Flow Rate, veh/h	-
Pea	k Hour Factor	0.94		Total Trucks, %		9.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.20
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	4.21060			fficient	0.41674
PF S	Slope Coefficient	-1.31148		PF Power Coefficie	ent	0.75510
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.2
%In	nproved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	bsegment Data			<u>'</u>		
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1320	1-	-		66.0
Ve	hicle Results					_
Ave	rage Speed, mi/h	66.0		Percent Followers,	. %	43.9
Seg	ment Travel Time, minutes	0.23		Followers Density,	followers/mi/ln	2.2
Veh	icle LOS	В				
Bio	cycle Results			•		
Per	cent Occupied Parking	0		Pavement Condition	on Rating	4
Flov	v Rate Outside Lane, veh/h	337		Bicycle Effective Width, ft		13
Bicy	rcle LOS Score	7.10		Bicycle Effective Speed Factor		5.07
Bicy	rcle LOS	F				
		Se	egm	nent 18		•
Ve	hicle Inputs					
	ment Type	Passing Zone		Length, ft		1265
	e Width, ft	12		Shoulder Width, ft	t	1
	ed Limit, mi/h	65		Access Point Dens	ity, pts/mi	8.0
De	mand and Capacity					•
Dire	ectional Demand Flow Rate, veh/h	337		Opposing Deman	d Flow Rate, veh/h	257
Pea	k Hour Factor	0.94		Total Trucks, %		9.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.20
	ermediate Results					
Sen	ment Vertical Class	1	S	Free-Flow Speed,	mi/h	68.3
9	· · · · - · · · ·			I specu,	•	1

C 101 C "'	2.075.15			· · ·	0.52456
Speed Slope Coefficient	3.97545		Speed Power Coe		0.52456
PF Slope Coefficient	-1.26225		PF Power Coefficient		0.79957
In Passing Lane Effective Length?	No			nsity, veh/mi/ln	2.1
%Improved % Followers	0.0	0.0		Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1265	-		-	66.4
Vehicle Results					
Average Speed, mi/h	66.4		Percent Followers	. %	41.1
Segment Travel Time, minutes	0.22	0.22 F		followers/mi/ln	2.1
Vehicle LOS	В	В			
Bicycle Results	•		<u> </u>		
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	337			/idth, ft	13
Bicycle LOS Score	7.10	7.10		peed Factor	5.07
Bicycle LOS	F	F			
		Segm	ent 19		
Vehicle Inputs					
Segment Type	Passing Constra	Passing Constrained			2480
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	337		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.20
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	4.22967		Speed Power Coefficient		0.41674
PF Slope Coefficient	-1.26349		PF Power Coefficient		0.77294
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.1
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2480	-		-	66.0
Vehicle Results					
Average Speed, mi/h	66.0		Percent Followers	%	42.0
3 1 7 7		Followers Density, followers/mi/ln			

Vehicle LOS	В				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	337	337 E		Vidth, ft	13
Bicycle LOS Score	7.10		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segm	ent 20		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1160
Lane Width, ft	12	12		t	1
Speed Limit, mi/h	65	65		sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	315	315		d Flow Rate, veh/h	240
Peak Hour Factor	0.94	0.94			9.00
Segment Capacity, veh/h	1700	1700		(D/C)	0.19
Intermediate Results					
Segment Vertical Class 1		Free-Flow Speed,	mi/h	68.3	
Speed Slope Coefficient	3.96986	3.96986		fficient	0.52863
PF Slope Coefficient	-1.25898		PF Power Coeffici	ent	0.80067
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	lius, ft	Superelevation, %	Average Speed, mi/h
1 Horizontal Curve	1160	960)	8	63.9
Vehicle Results					
Average Speed, mi/h	63.9		Percent Followers	, %	39.3
Segment Travel Time, minutes	0.21		Followers Density, followers/mi/ln		1.9
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow Rate Outside Lane, veh/h	315		Bicycle Effective Width, ft		13
Bicycle LOS Score	icycle LOS Score 7.06		Bicycle Effective Speed Factor		5.07
Bicycle LOS	F				
		Segm	ent 21		
Vehicle Inputs					
Segment Type	Passing Constraine	ed	Length, ft		7815
Lane Width, ft	12	S	Shoulder Width, ft		1

Speed Limit, mi/h		65		Access Point Density, pts/mi		8.0
De	mand and Capacity					
Directional Demand Flow Rate, veh/h		315		Opposing Deman	d Flow Rate, veh/h	-
Peak Hour Factor		0.94		Total Trucks, %		9.00
Segi	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.19
Int	ermediate Results	·				
Segi	ment Vertical Class	2		Free-Flow Speed,	mi/h	66.8
Spe	ed Slope Coefficient	6.85373		Speed Power Coe	fficient	0.51976
PF S	lope Coefficient	-1.27695		PF Power Coeffici	ent	0.75819
In Pa	assing Lane Effective Length?	No		Total Segment De	ensity, veh/mi/ln	2.0
%Im	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	Tangent	7815	-		-	63.8
Ve	hicle Results					
Ave	rage Speed, mi/h	63.8		Percent Followers, %		41.2
Segi	ment Travel Time, minutes	1.39		Followers Density, followers/mi/ln		2.0
Veh	icle LOS	В				
Bic	cycle Results					
Perc	ent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow	v Rate Outside Lane, veh/h	315		Bicycle Effective V	Vidth, ft	13
Bicy	cle LOS Score	7.06		Bicycle Effective Speed Factor		5.07
Bicy	cle LOS	F				
			Segn	nent 22		
Ve	hicle Inputs					
Segi	ment Type	Passing Zone		Length, ft		2640
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	315		Opposing Deman	d Flow Rate, veh/h	240
Peal	eak Hour Factor 0.94		Total Trucks, %		9.00	
Segi	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.19
Int	ermediate Results					
Segi	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	3.99117		Speed Power Coe	fficient	0.52863
PF S	lope Coefficient	-1.20873		PF Power Coeffici	ent	0.82134
In Pa	assing Lane Effective Length?	No		98 Total Segment De	ensity, veh/mi/ln	1.8

%Improved % Followers		0.0		% Improved Avg Speed		0.0
Su	bsegment Data					
#	Segment Type	Length, ft Radi		lius, ft Superelevation, %		Average Speed, mi/h
1	Tangent	2640	2640 -		-	66.5
Ve	hicle Results					
Ave	rage Speed, mi/h	66.5		Percent Followers	, %	37.4
Seg	ment Travel Time, minutes	0.45		Followers Density	followers/mi/ln	1.8
Veh	icle LOS	А				
Bic	cycle Results					
Perc	cent Occupied Parking	0		Pavement Conditi	on Rating	4
Flov	v Rate Outside Lane, veh/h	315		Bicycle Effective V	Vidth, ft	13
Bicy	cle LOS Score	7.06		Bicycle Effective S	peed Factor	5.07
Bicy	cle LOS	F				
			Segn	nent 23		
Ve	hicle Inputs					
Seg	ment Type	Passing Constrain	ned	Length, ft		315
Lane	e Width, ft	12		Shoulder Width, f	t	1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		0.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	315		Opposing Demand Flow Rate, veh/h		-
Peal	k Hour Factor	0.94		Total Trucks, %		9.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.19
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed, mi/h		70.3
Spe	ed Slope Coefficient	4.31900	4.31900		fficient	0.41674
PF S	lope Coefficient	-1.28943		PF Power Coefficient		0.75941
In P	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.9
%Im	proved % 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	315	-		-	68.0
Ve	hicle Results					
Ave	rage Speed, mi/h	68.0		Percent Followers	, %	41.5
Seg	ment Travel Time, minutes	0.05		Followers Density	followers/mi/ln	1.9
Veh	icle LOS	А				
Bic	ycle Results					
Perd	ent Occupied Parking	8		Pavement Conditi	on Rating	4

Flow Rate Outside Lane, veh/h	315		Bicycle Effective \	Width, ft	13
ycle LOS Score 7.06		Bicycle Effective S	Speed Factor	5.07	
Bicycle LOS	F				
		Segm	ent 24		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1265
Lane Width, ft	12		Shoulder Width,	ft	1
Speed Limit, mi/h	65		Access Point Den	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	357		Opposing Demar	nd Flow Rate, veh/h	273
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacit	y (D/C)	0.21
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	3.98053		Speed Power Coefficient		0.52092
PF Slope Coefficient	-1.26514		PF Power Coefficient		0.79858
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.3
%Improved % Followers	0.0		% Improved Avg Speed		0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	1265	-		-	66.3
Vehicle Results					
Average Speed, mi/h	66.3		Percent Followers	5, %	42.7
Segment Travel Time, minutes	0.22		Followers Density, followers/mi/ln		2.3
Vehicle LOS	В	В			
Bicycle Results					
Percent Occupied Parking	0		Pavement Condition Rating		4
Flow Rate Outside Lane, veh/h	357		Bicycle Effective Width, ft		13
Bicycle LOS Score	7.13		Bicycle Effective Speed Factor		5.07
Bicycle LOS	F				
		Segm	ent 25		
Vehicle Inputs					
Segment Type	Passing Constra	ined	Length, ft		3430
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	357	10	Opposing Demar	al Flanc Data male (la	T-

Pes	ık Hour Factor	0.94		Total Trucks, %		9.00	
	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.21	
Intermediate Results			Demand, Capacity	Demand/Capacity (D/C) 0.21			
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3	
Spe	eed Slope Coefficient	4.24208		Speed Power Coe	fficient	0.41674	
PF S	Slope Coefficient	-1.24135		PF Power Coefficie	ent	0.78001	
In F	Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.3	
%In	nproved % Followers	0.0		% Improved Avg S	Speed	0.0	
Su	bsegment Data						
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	3430	-		-	65.9	
Ve	hicle Results						
Ave	erage Speed, mi/h	65.9		Percent Followers,	. %	42.7	
Seg	ment Travel Time, minutes	0.59		Followers Density,	followers/mi/ln	2.3	
Veh	nicle LOS	В					
Bio	cycle Results					·	
Per	cent Occupied Parking	0		Pavement Condition	on Rating	4	
Flov	w Rate Outside Lane, veh/h	357		Bicycle Effective W	/idth, ft	13	
Bicy	ycle LOS Score	7.13		Bicycle Effective S	peed Factor	5.07	
Bicy	ycle LOS	F					
			Segi	ment 26			
Ve	hicle Inputs						
Seg	gment Type	Passing Zone		Length, ft		1585	
Lan	e Width, ft	12		Shoulder Width, ft		1	
Spe	eed Limit, mi/h	65		Access Point Density, pts/mi		8.0	
De	emand and Capacity						
Dire	ectional Demand Flow Rate, veh/h	357		Opposing Demand	d Flow Rate, veh/h	273	
Pea	sk Hour Factor	0.94		Total Trucks, %		9.00	
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.21	
Int	termediate Results						
Seg	gment Vertical Class	1		Free-Flow Speed,	mi/h	68.3	
	eed Slope Coefficient	3.98546		Speed Power Coe		0.52092	
PF S	Slope Coefficient	-1.25157		PF Power Coefficie	ent	0.80425	
In P	Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.3	
%In	mproved % Followers	0.0		% Improved Avg S	% Improved Avg Speed 0.0		
Su	bsegment Data	<u>'</u>				•	
#	Segment Type	Length, ft	R	aqijus, ft	Superelevation, %	Average Speed, mi/h	
	5 71	,		101		5 , , ,	

1	Tangent	1585	-		-	66.3
Veh	nicle Results	•				
Average Speed, mi/h 66.3			Percent Followers	, %	42.1	
Segn	nent Travel Time, minutes	0.27		Followers Density,	followers/mi/ln	2.3
Vehic	cle LOS	В				
Bicy	ycle Results					
Perce	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	357		Bicycle Effective V	/idth, ft	13
Bicyc	le LOS Score	7.13		Bicycle Effective S	peed Factor	5.07
Bicyc	le LOS	F				
			Segn	nent 27		
Veh	nicle Inputs					
Segn	nent Type	Passing Constrain	ned	Length, ft		4595
Lane	Width, ft	12		Shoulder Width, f	t	1
Spee	d Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Der	mand and Capacity					
Direc	tional Demand Flow Rate, veh/h	357		Opposing Deman	d Flow Rate, veh/h	-
Peak	Peak Hour Factor 0.94		Total Trucks, %		9.00	
Segn	nent Capacity, veh/h	1700	Demand/Capacity (D/C)		0.21	
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spee	d Slope Coefficient	4.25514	4.25514		fficient	0.41674
PF SI	ope Coefficient	-1.22525	-1.22525		ent	0.78329
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.3
%Imp	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	4035	-		-	65.9
2	Horizontal Curve	560	960)	8	63.8
Veh	nicle Results					
Average Speed, mi/h 65.6		Percent Followers, %		42.2		
Segn	nent Travel Time, minutes	0.80		Followers Density,	followers/mi/ln	2.3
Vehic	cle LOS	В				
Bicy	ycle Results					
Perce	ent Occupied Parking	0		Pavement Conditi	on Rating	4
Flow	Rate Outside Lane, veh/h	357		Bicycle Effective V	/idth, ft	13
Flow Rate Outside Lane, veh/h Bicycle LOS Score				Bicycle Effective Speed Factor		5.07

Bicycle LOS	F				
		Segn	nent 28		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1110
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	357		Opposing Deman	d Flow Rate, veh/h	273
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.21
Intermediate Results			•		
Segment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Speed Slope Coefficient	3.98053		Speed Power Coe	fficient	0.52092
PF Slope Coefficient	-1.26514		PF Power Coeffici	ent	0.79858
In Passing Lane Effective Length?	No	No		ensity, veh/mi/ln	2.3
%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	1110	-		-	66.3
Vehicle Results					
Average Speed, mi/h	66.3		Percent Followers	, %	42.7
Segment Travel Time, minutes	0.19	0.19		, followers/mi/ln	2.3
Vehicle LOS	В	В			
Bicycle Results					
Percent Occupied Parking	0		Pavement Condition Rating		4
Flow Rate Outside Lane, veh/h	357		Bicycle Effective Width, ft		13
Bicycle LOS Score	7.13		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
		Segn	nent 29		
Vehicle Inputs					
Segment Type	Passing Constraine	ed	Length, ft		5385
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	357		Opposing Deman	d Flow Rate, veh/h	T-
					+
Peak Hour Factor 0.94 To		Total Trucks, %		9.00	

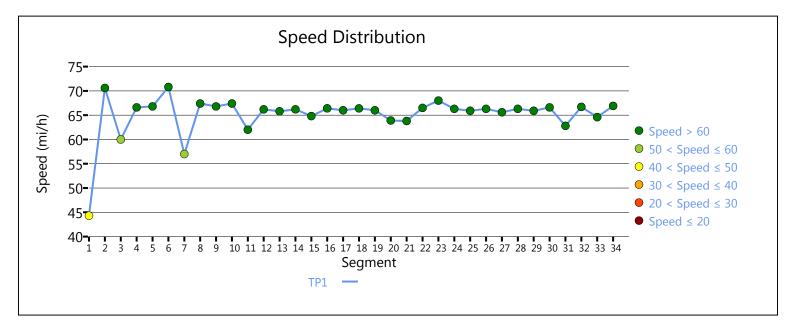
Segment Vertical Class	ss 1		Free-Flow Speed	, mi/h	68.3
Speed Slope Coefficient 4.26307		Speed Power Co	efficient	0.41674	
PF Slope Coefficient	-1.21895		PF Power Coeffic	ient	0.78313
In Passing Lane Effective Length?	No		Total Segment D	ensity, veh/mi/ln	2.3
%Improved % Followers	0.0		% Improved Avg	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	idius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5385	-		-	65.9
Vehicle Results					
Average Speed, mi/h	65.9		Percent Follower	s, %	42.0
Segment Travel Time, minutes	0.93		Followers Density	,, followers/mi/ln	2.3
Vehicle LOS	В				
Bicycle Results					
Percent Occupied Parking	0		Pavement Condit	ion Rating	4
Flow Rate Outside Lane, veh/h	357		Bicycle Effective Width, ft		13
Bicycle LOS Score	7.13	7.13		Bicycle Effective Speed Factor	
Bicycle LOS	F				
		Segn	nent 30		
Vehicle Inputs		Segn	nent 30		
Vehicle Inputs Segment Type	Passing Zone	Segn	Length, ft		1265
<u> </u>	Passing Zone	Segn		ft	1265
Segment Type	3	Segn	Length, ft		
Segment Type Lane Width, ft	12	Segn	Length, ft Shoulder Width,		1
Segment Type Lane Width, ft Speed Limit, mi/h	12	Segn	Length, ft Shoulder Width, Access Point Der		1
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity	12 65	Segn	Length, ft Shoulder Width, Access Point Der	sity, pts/mi	8.0
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor	12 65 310	Segn	Length, ft Shoulder Width, Access Point Der Opposing Demai	nsity, pts/mi nd Flow Rate, veh/h	1 8.0 236
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h	12 65 310 0.94	Segn	Length, ft Shoulder Width, Access Point Der Opposing Demai	nsity, pts/mi nd Flow Rate, veh/h	236 9.00
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results	12 65 310 0.94	Segn	Length, ft Shoulder Width, Access Point Der Opposing Demai	nd Flow Rate, veh/h	1 8.0 236 9.00
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class	12 65 310 0.94 1700	Segn	Length, ft Shoulder Width, Access Point Der Opposing Demai Total Trucks, % Demand/Capacit	nd Flow Rate, veh/h y (D/C)	236 9.00 0.18
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient	12 65 310 0.94 1700	Segn	Length, ft Shoulder Width, Access Point Der Opposing Demai Total Trucks, % Demand/Capacit Free-Flow Speed	nd Flow Rate, veh/h y (D/C) mi/h efficient	1 8.0 236 9.00 0.18
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h	12 65 310 0.94 1700	Segn	Length, ft Shoulder Width, Access Point Der Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed Speed Power Cod	nd Flow Rate, veh/h y (D/C) mi/h efficient ient	1 8.0 236 9.00 0.18 68.3 0.52969
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient	12 65 310 0.94 1700 1 3.96843 -1.25814	Segn	Length, ft Shoulder Width, Access Point Der Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed Speed Power Coeffic	nd Flow Rate, veh/h y (D/C) mi/h efficient ient ensity, veh/mi/ln	1 8.0 236 9.00 0.18 68.3 0.52969 0.80095
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient In Passing Lane Effective Length?	12 65 310 0.94 1700 1 3.96843 -1.25814 No	Segn	Length, ft Shoulder Width, Access Point Der Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed Speed Power Cod PF Power Coeffic Total Segment D	nd Flow Rate, veh/h y (D/C) mi/h efficient ient ensity, veh/mi/ln	1 8.0 236 9.00 0.18 68.3 0.52969 0.80095 1.8
Segment Type Lane Width, ft Speed Limit, mi/h Demand and Capacity Directional Demand Flow Rate, veh/h Peak Hour Factor Segment Capacity, veh/h Intermediate Results Segment Vertical Class Speed Slope Coefficient PF Slope Coefficient In Passing Lane Effective Length? %Improved % Followers	12 65 310 0.94 1700 1 3.96843 -1.25814 No		Length, ft Shoulder Width, Access Point Der Opposing Deman Total Trucks, % Demand/Capacit Free-Flow Speed Speed Power Cod PF Power Coeffic Total Segment D	nd Flow Rate, veh/h y (D/C) mi/h efficient ient ensity, veh/mi/ln	1 8.0 236 9.00 0.18 68.3 0.52969 0.80095 1.8

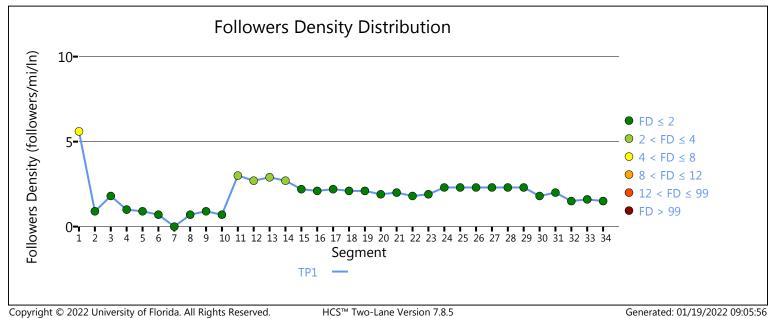
A C 1	66.6		Percent Followers	0/	20.0
Average Speed, mi/h	66.6				38.9
Segment Travel Time, minutes	0.22		Followers Density, followers/mi/ln		1.8
Vehicle LOS A					
Bicycle Results					
Percent Occupied Parking	0	0		ion Rating	4
Flow Rate Outside Lane, veh/h	310		Bicycle Effective V	Vidth, ft	13
Bicycle LOS Score	7.06		Bicycle Effective S	peed Factor	5.07
Bicycle LOS	F				
	S	Segn	nent 31		
Vehicle Inputs					
Segment Type	Passing Constrained	<u> </u>	Length, ft		5755
Lane Width, ft	12		Shoulder Width, f	t	1
Speed Limit, mi/h	65		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	301	301		d Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		9.00
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.18
Intermediate Results			•		
Segment Vertical Class	3	3		mi/h	66.1
Speed Slope Coefficient	10.18748	10.18748		fficient	0.69240
PF Slope Coefficient	-1.33484	-1.33484		ent	0.76328
In Passing Lane Effective Length?	No	No		ensity, veh/mi/ln	2.0
%Improved % Followers	0.0	0.0		Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	3430	-		-	62.8
2 Horizontal Curve	2325	960	0	8	62.8
Vehicle Results					
Average Speed, mi/h	62.8		Percent Followers, %		41.4
Segment Travel Time, minutes	1.04		Followers Density, followers/mi/ln		2.0
Vehicle LOS	А				
Bicycle Results					
Dicycle Results		0		ion Rating	4
Percent Occupied Parking	0		Favernerit Conditi	-	
-	0 301		Bicycle Effective V	Vidth, ft	13
Percent Occupied Parking					13 5.07
Percent Occupied Parking Flow Rate Outside Lane, veh/h	301		Bicycle Effective V		

Ve	hicle Inputs					
Segment Type Passing Zone		Length, ft		1530		
Lan	e Width, ft	12		Shoulder Width, ff	t	1
Spe	ed Limit, mi/h	65		Access Point Dens	ity, pts/mi	8.0
De	mand and Capacity					·
Dire	ctional Demand Flow Rate, veh/h	278		Opposing Demand	d Flow Rate, veh/h	213
Pea	k Hour Factor	0.94		Total Trucks, %		9.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.16
Int	ermediate Results					
Seg	ment Vertical Class	1		Free-Flow Speed,	mi/h	68.3
Spe	ed Slope Coefficient	3.96427		Speed Power Coe	fficient	0.53574
PF S	Slope Coefficient	-1.24238		PF Power Coefficie	ent	0.80720
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.5
%In	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1530	1-	-		66.7
Ve	hicle Results					
Ave	rage Speed, mi/h	66.7		Percent Followers,	. %	35.7
Seg	ment Travel Time, minutes	0.26		Followers Density, followers/mi/ln		1.5
Veh	icle LOS	А				
Bio	cycle Results					
Per	cent Occupied Parking	0		Pavement Condition	on Rating	4
Flov	v Rate Outside Lane, veh/h	278		Bicycle Effective Width, ft		13
Bicy	cle LOS Score	7.00		Bicycle Effective Speed Factor		5.07
Вісу	cle LOS	F				
		Se	egm	nent 33		
Ve	hicle Inputs					
Seg	ment Type	Passing Constrained		Length, ft		3645
Lan	e Width, ft	12		Shoulder Width, ft	i	1
Spe	ed Limit, mi/h	65		Access Point Density, pts/mi		8.0
De	mand and Capacity					
Dire	ectional Demand Flow Rate, veh/h	278		Opposing Demand	d Flow Rate, veh/h	-
Pea	k Hour Factor	0.94		Total Trucks, %		9.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.16
Int	ermediate Results					
Seq	ment Vertical Class	1	1	106 Free-Flow Speed, mi/h		68.3
		1	1			

Speed Slope Coefficient	d Slope Coefficient 4.24464		Speed Power	Coefficient	0.41674
PF Slope Coefficient	ope Coefficient -1.23762		PF Power Coe	efficient	0.78099
n Passing Lane Effective Length? No		Total Segment Density, veh/mi/ln		1.6	
%Improved % Followers	0.0		% Improved /	Avg Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	945	-		-	66.2
2 Horizontal Curve	2700	960)	8	64.0
Vehicle Results					
Average Speed, mi/h	64.6		Percent Follo	wers, %	36.6
Segment Travel Time, minutes	0.64		Followers De	nsity, followers/mi/ln	1.6
Vehicle LOS	А				
Bicycle Results					
Percent Occupied Parking	0		Pavement Co	ndition Rating	4
Flow Rate Outside Lane, veh/h	278		Bicycle Effect	ive Width, ft	13
Bicycle LOS Score	7.00		Bicycle Effective Speed Factor		5.07
Bicycle LOS	F				
		Segm	ent 34		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		1110
Lane Width, ft	12		Shoulder Width, ft		1
Speed Limit, mi/h	65		Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	278		Opposing Demand Flow Rate, veh/h		213
Peak Hour Factor	0.94		Total Trucks, %		4.90
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.16
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed, mi/h		68.4
Speed Slope Coefficient	3.96773		Speed Power Coefficient		0.53574
PF Slope Coefficient	-1.25269		PF Power Coefficient		0.80226
In Passing Lane Effective Length?	No		Total Segmer	nt Density, veh/mi/ln	1.5
%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	1110	-		-	66.9
Vehicle Results					
Average Speed, mi/h	66.9		Percent Follo	wers %	36.1

Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	1.5				
Vehicle LOS	А						
Bicycle Results							
Percent Occupied Parking	0	Pavement Condition Rating	4				
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13				
Bicycle LOS Score	5.52	Bicycle Effective Speed Factor	5.07				
Bicycle LOS	F						

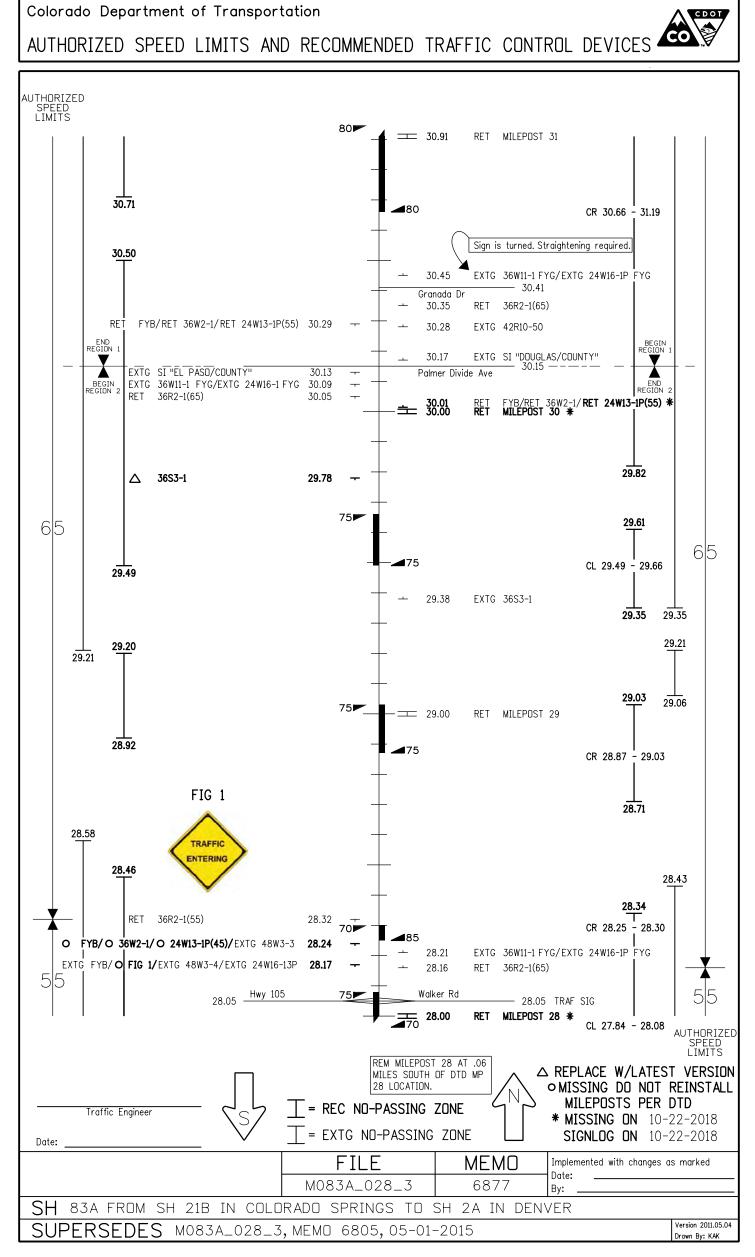




HCS™ Two-Lane Version 7.8.5 HCS_SB SH 83 Analysis PM Existing 2022.xuf

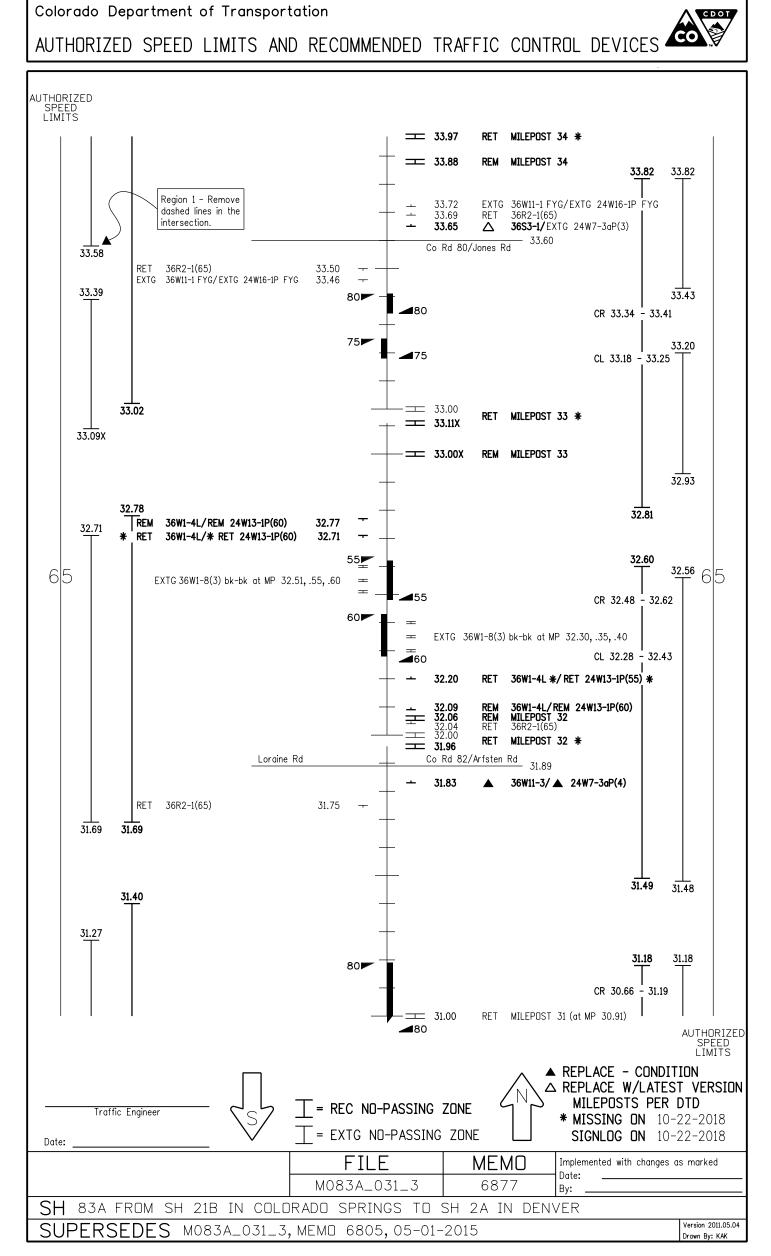






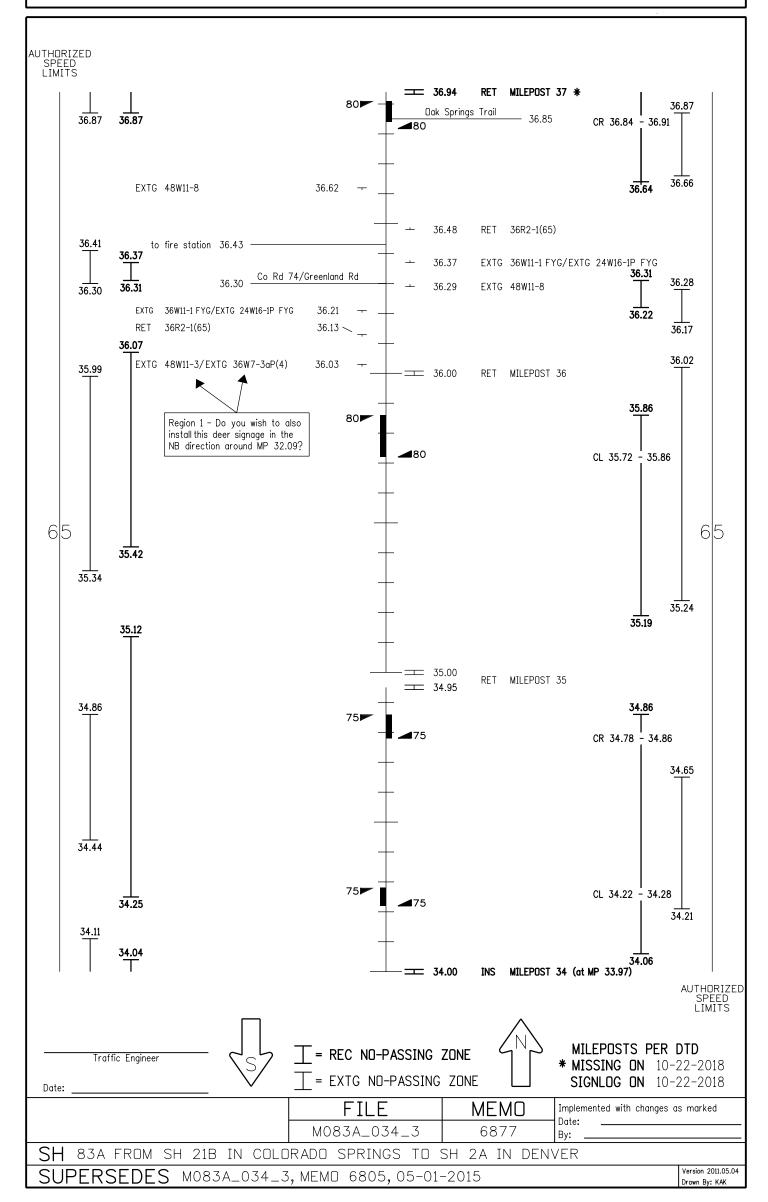






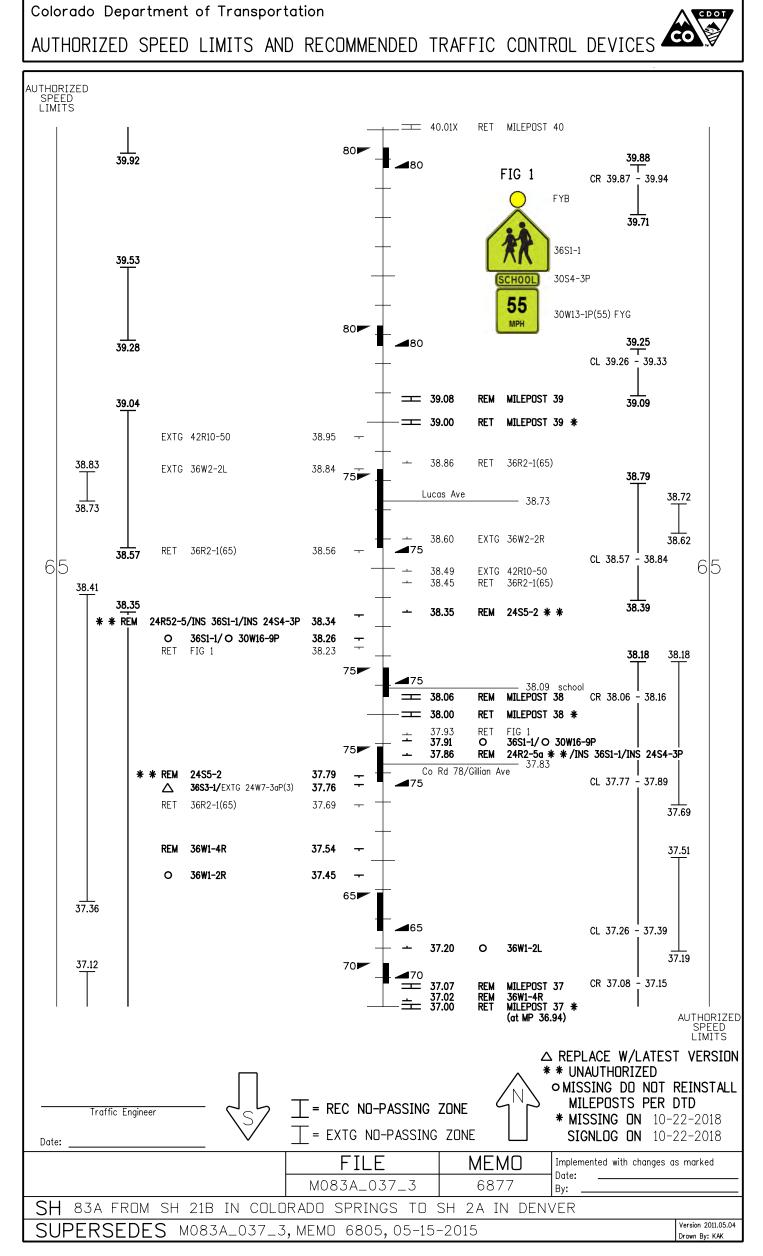






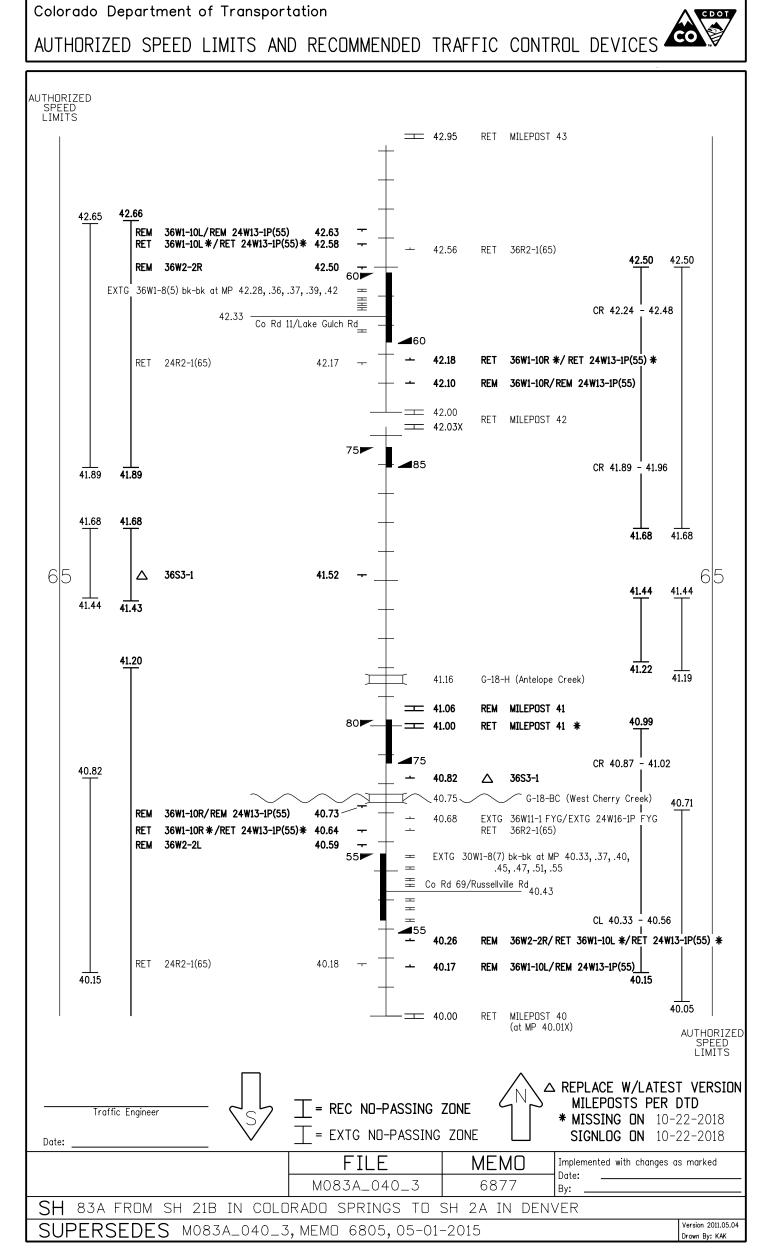






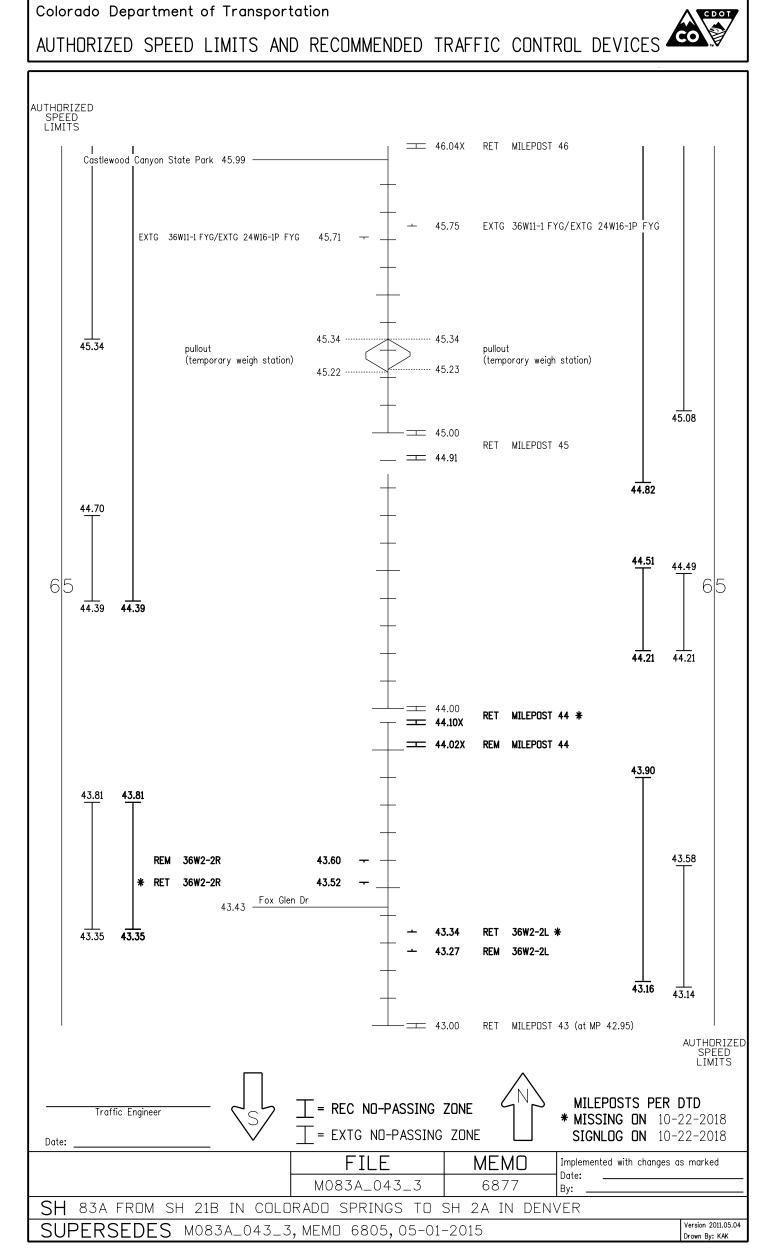






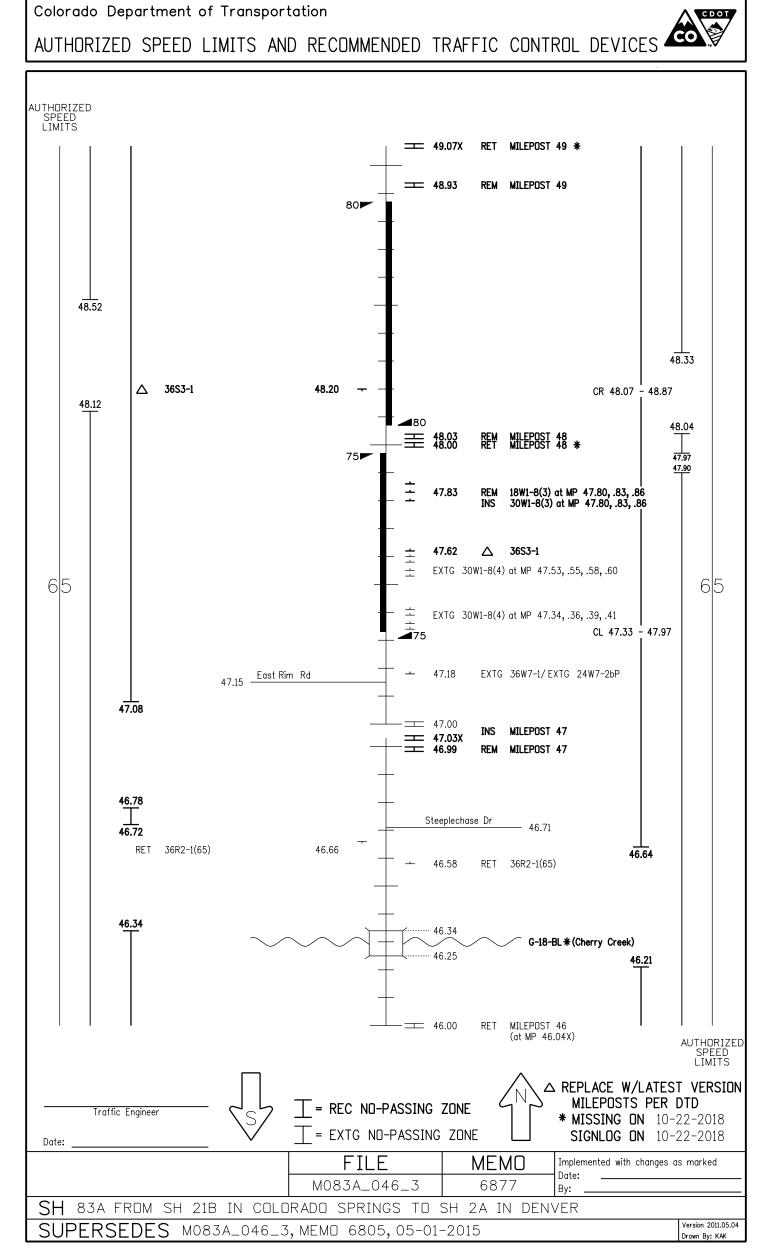






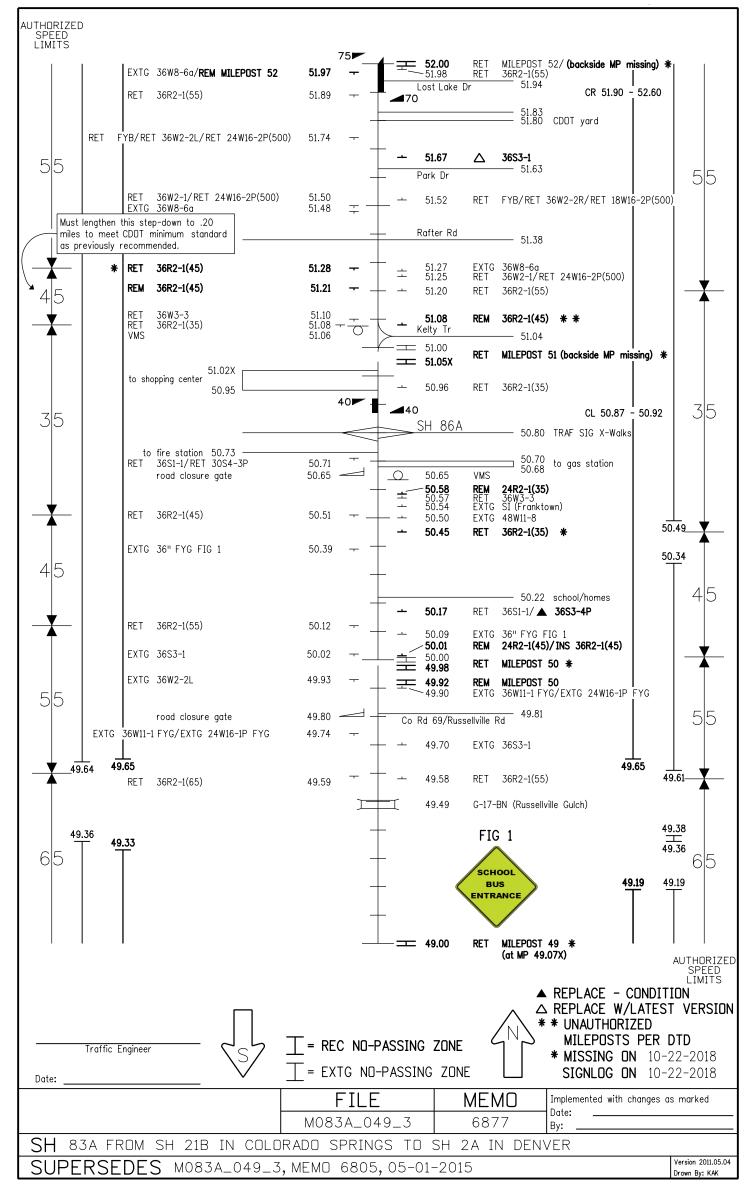












SH 83 Safety and Operations Study 2020 Existing Conditions Synchro HCS Arterial Summary

		AM Peak Ho	our		PM Peak Ho	our		
Direction	Approach	Speed (mph)	LOS	Approach 95 th % Queue ¹	Speed (mph)	LOS	Approach 95 th % Queue ¹	Notes
	SH 86	18.0	E	424	18.0	E	423	
	Castle Oaks	49.0	Α	267	49.0	Α	316	C-17-17-1
Northbound	Bayou Gulch	48.0	А	226	46.0	Α	280	Split times for Ø4 & Ø8 were extended to meet
								pedestrian crossing minimums.
	Corridor	43.0	В		42.0	В		
	Bayou Gulch	34.0	С	140	30.0	С	375	
	Castle Oaks	49.0	Α	295	46.0	Α	559	
Southbound	SH 86	44.0	В	312	44.0	В	466	
	Corridor	44.0	В		40.0	В		

^{1. #} indicates 95th% queue exceeds capacity, queue may be longer; "m" indicates volume for queue is metered by upstream signal

SH 83 Safety and Operations Study 2020 Existing Conditions Synchro HCS Summary

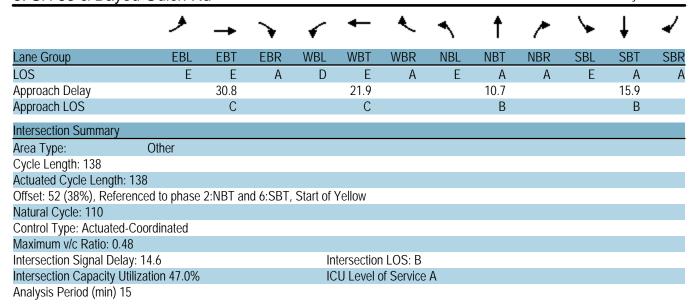
			AM Peak Ho	our		PM Peak Ho	our	
Intersection	Approach	Delay	LOS	95 th % Queue ¹	Delay	LOS	95 th % Queue ¹	Notes
	Eastbound	58.7	E	34	51.1	D	56	
SH 83 & Bayou Gulch	Westbound	69.4	E	42	66.9	E	55	Split times for Ø4 & Ø8 were extended to meet
Road	Northbound	10.2	В	226	21.9	С	280	pedestrian crossing minimums.
Rodu	Southbound	16.6	В	140	26.2	С	375	pedestrian crossing minimums.
	Intersection	18.3	В		31.4	С		
	Eastbound	21.8	С	105	27.9	С	132	
	Northbound	6.4	Α	267	6.8	Α	316	
Sil 65 & Castle Oaks Drive	Southbound	10.6	В	295	12.2	В	559	
	Intersection	9.8	Α		11.7	В		
	Eastbound	27.8	С	152	33.1	С	486	
	Westbound	30.5	С	339	34.2	С	321	
SH 83 & SH 86	Northbound	25.8	С	424	28.4	С	423	
	Southbound	20.4	С	312	20.7	С	466	
	Intersection	25.5	С		27.5	С		

^{1. #} indicates 95th% queue exceeds capacity, queue may be longer; "m" indicates volume for queue is metered by upstream signal

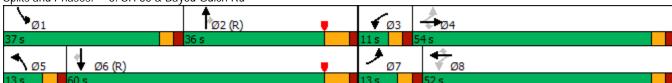
Lane GroupEBLEBTEBRWBLWBTWBRNBLNBTNBRSBLSBTLane Configurations111<	SBR 20 20 1900 0
Lane Configurations 1	20 20 1900
Traffic Volume (vph) 18 14 32 18 16 79 15 758 25 116 580	20 20 1900
	20 1900
Future Volume (vph) 18 14 32 18 16 79 15 758 25 116 580	1900
Ideal Flow (vphpl) 1900 1900 1900 1900 1900 1900 1900 190	
Storage Length (ft) 0 300 190 0 550 285 875	()
Storage Lanes 1 1 1 1 1 2	1
Taper Length (ft) 25 25 25 25	•
Lane Util. Factor 1.00 1.00 1.00 1.00 1.00 0.95 1.00 0.97 0.95	1.00
	0.850
Flt Protected 0.950 0.950 0.950 0.950	
Satd. Flow (prot) 1770 1863 1583 1770 1863 1583 1770 3539 1583 3433 3539	1583
Flt Permitted 0.652 0.744 0.950 0.950	
Satd. Flow (perm) 1215 1863 1583 1386 1863 1583 1770 3539 1583 3433 3539	1583
Right Turn on Red Yes Yes Yes	Yes
Satd. Flow (RTOR) 150 134	95
Link Speed (mph) 40 45 55 55	, 0
Link Distance (ft) 784 1819 1432 1968	
Travel Time (s) 13.4 27.6 17.8 24.4	
Peak Hour Factor 0.67 0.67 0.67 0.88 0.88 0.90 0.90 0.90 0.96 0.96	0.96
Adj. Flow (vph) 27 21 48 20 18 90 17 842 28 121 604	21
Shared Lane Traffic (%)	
Lane Group Flow (vph) 27 21 48 20 18 90 17 842 28 121 604	21
	Perm
Protected Phases 7 4 3 8 5 2 1 6	
Permitted Phases 4 4 8 8 2	6
Detector Phase 7 4 4 3 8 8 5 2 2 1 6	6
Switch Phase	_
Minimum Initial (s) 5.0 5.0 5.0 5.0 5.0 5.0 15.0 15.0 5.0 15.0	15.0
Minimum Split (s) 10.0 49.0 49.0 10.0 52.0 52.0 10.0 22.0 22.0 10.0 38.0	38.0
Total Split (s) 13.0 54.0 54.0 11.0 52.0 52.0 13.0 36.0 36.0 37.0 60.0	60.0
	43.5%
Maximum Green (s) 8.0 49.0 49.0 6.0 47.0 47.0 8.0 29.0 29.0 32.0 53.0	53.0
Yellow Time (s) 3.0 3.0 3.0 3.0 3.0 5.0 5.0 5.0 5.0	5.0
All-Red Time (s) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0
Lost Time Adjust (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0
Total Lost Time (s) 5.0 5.0 5.0 5.0 5.0 5.0 7.0 7.0 7.0 5.0 7.0	7.0
Lead/Lag Lead Lag Lag Lead Lag Lead Lag Lead Lag	Lag
Lead-Lag Optimize? Yes	Yes
Vehicle Extension (s) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	3.0
	C-Min
Walk Time (s) 7.0 7.0 7.0 7.0 7.0	7.0
Flash Dont Walk (s) 37.0 37.0 40.0 40.0 24.0	24.0
Pedestrian Calls (#/hr) 0 0 0 0 0	0
	106.0
Actuated g/C Ratio 0.09 0.06 0.06 0.08 0.05 0.05 0.05 0.70 0.70 0.77	0.77
v/c Ratio 0.19 0.20 0.21 0.16 0.19 0.41 0.19 0.34 0.02 0.48 0.22	0.02
Control Delay 55.2 65.1 2.0 54.6 66.9 5.7 67.3 9.9 0.0 67.1 6.2	0.1
Queue Delay 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0
Total Delay 55.2 65.1 2.0 54.6 66.9 5.7 67.3 9.9 0.0 67.1 6.2	0.1

Weekday AM Peak SH 83 Safety & Operational Analysis 4:20 pm 06/29/2021 2020 Existing CONSOR/Apex

Synchro 11 Report Page 1



Splits and Phases: 3: SH 83 & Bayou Gulch Rd



	۶	•	4	†	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ኻ	7	ኝ	†	†	7
Traffic Volume (vph)	108	25	12	689	545	65
Future Volume (vph)	108	25	12	689	545	65
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	215	650	.,00	.,00	375
Storage Lanes	1	1	1			1
Taper Length (ft)	25	•	25			•
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.850	1.00	1.00	1.00	0.850
Flt Protected	0.950	0.000	0.950			0.000
Satd. Flow (prot)	1770	1583	1770	1863	1863	1583
Flt Permitted	0.950	1000	0.255	1003	1003	1000
Satd. Flow (perm)	1770	1583	475	1863	1863	1583
Right Turn on Red	1770	Yes	4/3	1003	1003	Yes
O .						
Satd. Flow (RTOR)	40	28		FF	FF	79
Link Speed (mph)	40			55	55	
Link Distance (ft)	1069			1386	825	
Travel Time (s)	18.2	0.00	2	17.2	10.2	2.55
Peak Hour Factor	0.88	0.88	0.97	0.97	0.82	0.82
Adj. Flow (vph)	123	28	12	710	665	79
Shared Lane Traffic (%)						
Lane Group Flow (vph)	123	28	12	710	665	79
Turn Type	Prot	Perm	pm+pt	NA	NA	Perm
Protected Phases	4		5	2	6	
Permitted Phases		4	2			6
Detector Phase	4	4	5	2	6	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	3.0	15.0	15.0	15.0
Minimum Split (s)	23.0	23.0	9.5	24.0	24.0	24.0
Total Split (s)	23.0	23.0	10.0	70.0	60.0	60.0
Total Split (%)	24.7%	24.7%	10.8%	75.3%	64.5%	64.5%
Maximum Green (s)	17.0	17.0	5.0	63.0	53.0	53.0
Yellow Time (s)	3.0	3.0	3.0	5.0	5.0	5.0
All-Red Time (s)	3.0	3.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.0	6.0	5.0	7.0	7.0	7.0
	0.0	0.0		7.0		
Lead/Lag			Lead		Lag	Lag
Lead-Lag Optimize?	2.5	2.2	Yes	2.0	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	Min	Min	Min
Act Effct Green (s)	9.7	9.7	33.9	33.7	32.5	32.5
Actuated g/C Ratio	0.19	0.19	0.65	0.65	0.62	0.62
v/c Ratio	0.37	0.09	0.03	0.59	0.57	0.08
Control Delay	25.4	11.3	4.5	10.0	11.7	2.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	25.4	11.3	4.5	10.0	11.7	2.5
LOS	С	В	Α	В	В	A
Approach Delay	22.8			9.9	10.7	
Approach LOS	C			A	В	
Approach EOS	U			Λ.	ט	

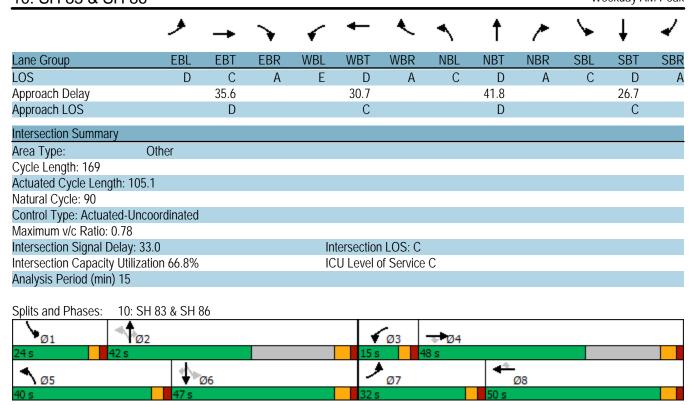
Weekday AM Peak SH 83 Safety & Operational Analysis 4:20 pm 06/29/2021 2020 Existing CONSOR/Apex

∜ Ø6

Intersection Summary		
Area Type: Other		
Cycle Length: 93		
Actuated Cycle Length: 52		
Natural Cycle: 65		
Control Type: Actuated-Uncoordinated		
Maximum v/c Ratio: 0.59		
Intersection Signal Delay: 11.5	Intersection LOS: B	
Intersection Capacity Utilization 53.1%	ICU Level of Service A	
Analysis Period (min) 15		
Splits and Phases: 8: SH 83 & Castle Oaks Dr		·
↑ ø2		₹ Ø4

Lane Group EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT Lane Configurations 1 <t< th=""></t<>
Traffic Volume (vph) 147 149 47 29 273 233 86 331 21 154 262 Future Volume (vph) 147 149 47 29 273 233 86 331 21 154 262 Ideal Flow (vphpl) 1900
Traffic Volume (vph) 147 149 47 29 273 233 86 331 21 154 262 Future Volume (vph) 147 149 47 29 273 233 86 331 21 154 262 Ideal Flow (vphpl) 1900
Future Volume (vph) 147 149 47 29 273 233 86 331 21 154 262 Ideal Flow (vphpl) 1900
Ideal Flow (vphpl) 1900
Storage Length (ft) 200 100 125 375 225 320 175 Storage Lanes 1 1 1 1 1 1 1 1 Taper Length (ft) 25 25 25 25 25 25 Lane Util. Factor 1.00 1
Storage Lanes 1 2 <
Taper Length (ft) 25 25 25 25 Lane Util. Factor 1.00 </td
Lane Util. Factor 1.00
Frt 0.850 0.850 0.850 Flt Protected 0.950 0.950 0.950 0.950 Satd. Flow (prot) 1770 1863 1583 1770 <td< td=""></td<>
Flt Protected 0.950 0.950 0.950 0.950 Satd. Flow (prot) 1770 1863 1583 1770 1863 1583 1770 1863 1583 1770 1863 Flt Permitted 0.950 0.950 0.443 0.217
Satd. Flow (prot) 1770 1863 1583 1770 1863 1583 1770 1863 1583 1770 1863 Flt Permitted 0.950 0.950 0.443 0.217
Flt Permitted 0.950 0.950 0.443 0.217
- 2014 - 1009 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204 - 1204
Right Turn on Red Yes Yes Yes
Satd. Flow (RTOR) 116 262 116
Link Speed (mph) 35 35 35 35
Link Distance (ft) 1542 1664 2352 692
Travel Time (s) 30.0 32.4 45.8 13.5
Peak Hour Factor 0.95 0.95 0.95 0.89 0.89 0.86 0.86 0.86 0.86 0.86
Adj. Flow (vph) 155 157 49 33 307 262 100 385 24 179 305
Shared Lane Traffic (%)
Lane Group Flow (vph) 155 157 49 33 307 262 100 385 24 179 305
Turn Type Prot NA Perm Prot NA Perm pm+pt NA Perm pm+pt NA
Protected Phases 7 4 3 8 5 2 1 6
Permitted Phases 4 8 2 2 6
Detector Phase 7 4 4 3 8 8 5 2 2 1 6
Switch Phase
Minimum Initial (s) 5.0 12.0 12.0 5.0 12.0 5.0 12.0 12.0 5.0 12.0
Minimum Split (s) 10.0 33.0 33.0 10.0 34.0 10.0 32.0 32.0 10.0 34.0
Total Split (s) 32.0 48.0 48.0 15.0 50.0 50.0 40.0 42.0 42.0 24.0 47.0
Total Split (%) 18.9% 28.4% 28.4% 8.9% 29.6% 29.6% 23.7% 24.9% 24.9% 14.2% 27.8% 2
Maximum Green (s) 27.0 42.0 42.0 10.0 44.0 44.0 35.0 36.0 36.0 19.0 41.0
Yellow Time (s) 3.0 4.0 4.0 3.0 4.0 3.0 4.0 3.0 4.0 3.0 4.0
All-Red Time (s) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
Lost Time Adjust (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Total Lost Time (s) 5.0 6.0 6.0 5.0 6.0 5.0 6.0 5.0 6.0 5.0
Lead/Lag Lead Lag Lead Lag Lead Lag Lead Lag Lead Lag
Lead-Lag Optimize? Yes
Vehicle Extension (s) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0
Recall Mode None None None None None None Min Min Min Min
Walk Time (s) 7.0 7.0 7.0 7.0 7.0 7.0 7.0
Flash Dont Walk (s) 20.0 20.0 21.0 19.0 19.0 21.0
Pedestrian Calls (#/hr) 0 0 0 0 0 0
Act Effct Green (s) 15.8 38.8 38.8 7.8 25.0 25.0 39.2 27.9 27.9 45.2 31.0
Actuated g/C Ratio 0.15 0.37 0.37 0.07 0.24 0.24 0.37 0.27 0.27 0.43 0.29
v/c Ratio 0.58 0.23 0.07 0.25 0.69 0.46 0.25 0.78 0.05 0.52 0.56
Control Delay 54.8 27.6 0.2 59.0 47.7 7.2 21.0 49.8 0.2 25.1 37.5
Queue Delay 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Total Delay 54.8 27.6 0.2 59.0 47.7 7.2 21.0 49.8 0.2 25.1 37.5

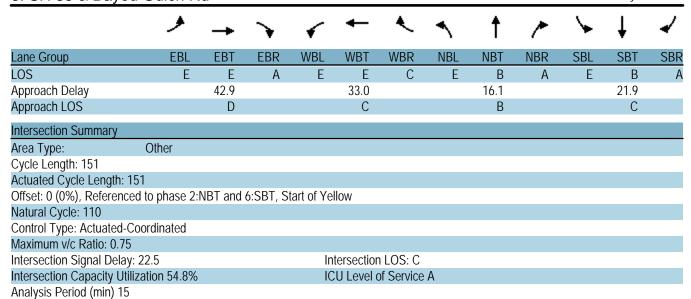
Weekday AM Peak SH 83 Safety & Operational Analysis 4:20 pm 06/29/2021 2020 Existing CONSOR/Apex



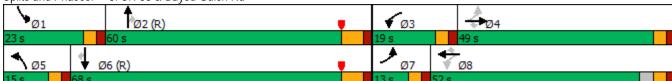
	۶	→	•	•	←	•	•	†	<i>></i>	/	↓	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	†	7	ሻ	†	7	*	^	7	ሻሻ	^	7
Traffic Volume (vph)	35	24	28	48	26	184	31	722	32	194	981	34
Future Volume (vph)	35	24	28	48	26	184	31	722	32	194	981	34
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		300	190		0	550		285	875		0
Storage Lanes	1		1	1		1	1		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.97	0.95	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	3539	1583	3433	3539	1583
Flt Permitted	0.732			0.553			0.950			0.950		
Satd. Flow (perm)	1364	1863	1583	1030	1863	1583	1770	3539	1583	3433	3539	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			173			271			159			123
Link Speed (mph)		40			45			55			55	
Link Distance (ft)		784			1819			1432			1968	
Travel Time (s)		13.4			27.6			17.8			24.4	
Peak Hour Factor	0.81	0.81	0.81	0.68	0.68	0.68	0.93	0.93	0.93	0.91	0.91	0.91
Adj. Flow (vph)	43	30	35	71	38	271	33	776	34	213	1078	37
Shared Lane Traffic (%)												
Lane Group Flow (vph)	43	30	35	71	38	271	33	776	34	213	1078	37
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	15.0	15.0	5.0	15.0	15.0
Minimum Split (s)	10.0	49.0	49.0	10.0	52.0	52.0	10.0	22.0	22.0	10.0	38.0	38.0
Total Split (s)	13.0	49.0	49.0	19.0	52.0	52.0	15.0	60.0	60.0	23.0	68.0	68.0
Total Split (%)	8.6%	32.5%	32.5%	12.6%	34.4%	34.4%	9.9%	39.7%	39.7%	15.2%	45.0%	45.0%
Maximum Green (s)	8.0	44.0	44.0	14.0	47.0	47.0	10.0	53.0	53.0	18.0	61.0	61.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	7.0	7.0	5.0	7.0	7.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	C-Min	C-Min
Walk Time (s)		7.0	7.0		7.0	7.0					7.0	7.0
Flash Dont Walk (s)		37.0	37.0		40.0	40.0					24.0	24.0
Pedestrian Calls (#/hr)		0	0		0	0					0	0
Act Effct Green (s)	16.4	8.9	8.9	19.1	10.4	10.4	8.3	97.5	97.5	14.7	106.0	106.0
Actuated g/C Ratio	0.11	0.06	0.06	0.13	0.07	0.07	0.05	0.65	0.65	0.10	0.70	0.70
v/c Ratio	0.25	0.28	0.14	0.40	0.30	0.75	0.34	0.34	0.03	0.64	0.43	0.03
Control Delay	56.1	72.5	1.1	60.9	71.2	20.4	77.4	14.2	0.1	74.3	12.3	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.1	72.5	1.1	60.9	71.2	20.4	77.4	14.2	0.1	74.3	12.3	0.1

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Splits and Phases: 3: SH 83 & Bayou Gulch Rd



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Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ኘ	7	ኘ	<u> </u>	<u> </u>	7
Traffic Volume (vph)	131	29	24	685	832	180
Future Volume (vph)	131	29	24	685	832	180
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	215	650	1700	. 700	375
Storage Lanes	1	1	1			1
Taper Length (ft)	25	•	25			•
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.850	1.00	1.00	1.00	0.850
Flt Protected	0.950	0.030	0.950			0.030
Satd. Flow (prot)	1770	1583	1770	1863	1863	1583
Flt Permitted	0.950	1303	0.138	1003	1003	1303
	1770	1583	257	1863	1863	1583
Satd. Flow (perm)	1770		257	1003	1003	Yes
Right Turn on Red		Yes				
Satd. Flow (RTOR)	10	37				186
Link Speed (mph)	40			55	55	
Link Distance (ft)	1069			1386	825	
Travel Time (s)	18.2	_	_	17.2	10.2	_
Peak Hour Factor	0.78	0.78	0.90	0.90	0.97	0.97
Adj. Flow (vph)	168	37	27	761	858	186
Shared Lane Traffic (%)						
Lane Group Flow (vph)	168	37	27	761	858	186
Turn Type	Prot	Perm	pm+pt	NA	NA	Perm
Protected Phases	4		5	2	6	
Permitted Phases		4	2			6
Detector Phase	4	4	5	2	6	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	3.0	15.0	15.0	15.0
Minimum Split (s)	23.0	23.0	9.5	24.0	24.0	24.0
Total Split (s)	23.0	23.0	10.0	70.0	60.0	60.0
Total Split (%)	24.7%	24.7%	10.8%	75.3%	64.5%	64.5%
Maximum Green (s)	17.0	17.0	5.0	63.0	53.0	53.0
Yellow Time (s)	3.0	3.0	3.0	5.0	5.0	5.0
All-Red Time (s)	3.0	3.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
	6.0	6.0	5.0	7.0	7.0	7.0
Total Lost Time (s)	0.0	0.0		7.0		
Lead/Lag			Lead		Lag	Lag
Lead-Lag Optimize?	2.5	2.2	Yes	2.0	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	Min	Min	Min
Act Effct Green (s)	12.4	12.4	45.4	43.2	40.2	40.2
Actuated g/C Ratio	0.18	0.18	0.65	0.62	0.58	0.58
v/c Ratio	0.53	0.12	0.10	0.66	0.80	0.19
Control Delay	36.0	12.4	5.0	11.4	19.7	2.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	36.0	12.4	5.0	11.4	19.7	2.0
LOS	D	В	Α	В	В	Α
Approach Delay	31.7			11.2	16.5	
Approach LOS	С			В	В	

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Intersection Summary								
Area Type: Other								
Cycle Length: 93								
Actuated Cycle Length: 69.6								
Natural Cycle: 80								
Control Type: Actuated-Uncoordinated								
Maximum v/c Ratio: 0.80								
Intersection Signal Delay: 16.0	Intersection LOS: B							
Intersection Capacity Utilization 61.9%	ICU Level of Service B							
Analysis Period (min) 15								
Splits and Phases: 8: SH 83 & Castle Oaks Dr								
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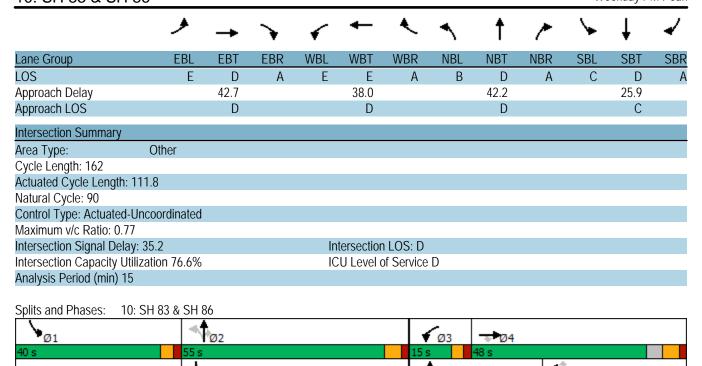
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	^	7	ሻ	†	7	*	†	7	7	†	7
Traffic Volume (vph)	155	378	86	34	216	174	72	329	18	304	430	245
Future Volume (vph)	155	378	86	34	216	174	72	329	18	304	430	245
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	200	1,00	100	125	.,,,,	375	225	1700	320	175	.,,,	600
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25		•	25		•	25		•	25		•
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1100	1.00	0.850	1.00	1.00	0.850	1.00	1.00	0.850	1.00	1.00	0.850
Flt Protected	0.950		0.000	0.950		0.000	0.950		0.000	0.950		0.000
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1863	1583	1770	1863	1583
Flt Permitted	0.950	1000	1000	0.950	1000	1000	0.369	1000	1000	0.204	1000	1000
Satd. Flow (perm)	1770	1863	1583	1770	1863	1583	687	1863	1583	380	1863	1583
Right Turn on Red	1770	1000	Yes	1770	1000	Yes	007	1000	Yes	000	1000	Yes
Satd. Flow (RTOR)			88			189			121			261
Link Speed (mph)		35	00		35	107		35	121		35	201
Link Distance (ft)		1542			1664			2352			692	
Travel Time (s)		30.0			32.4			45.8			13.5	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.83	0.83	0.83	0.94	0.94	0.94
Adj. Flow (vph)	161	394	90	37	235	189	87	396	22	323	457	261
Shared Lane Traffic (%)	101	374	70	31	200	107	07	370	22	323	T31	201
Lane Group Flow (vph)	161	394	90	37	235	189	87	396	22	323	457	261
Turn Type	Prot	NA	Perm	Prot	NA	Perm	pm+pt	NA	Perm	pm+pt	NA	Perm
Protected Phases	7	4	I CIIII	3	8	I CIIII	- pπ+pt 5	2	I CIIII	ριτι τ ρι 1	6	I CIIII
Permitted Phases	,	7	4	3	U	8	2	2	2	6	U	6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase	•	•	'	U	0	0	J			•	J	U
Minimum Initial (s)	5.0	12.0	12.0	5.0	12.0	12.0	5.0	12.0	12.0	5.0	12.0	12.0
Minimum Split (s)	10.0	33.0	33.0	10.0	34.0	34.0	10.0	32.0	32.0	10.0	34.0	34.0
Total Split (s)	32.0	48.0	48.0	15.0	35.0	35.0	40.0	55.0	55.0	40.0	47.0	47.0
Total Split (%)	19.8%	29.6%	29.6%	9.3%	21.6%	21.6%	24.7%	34.0%	34.0%	24.7%	29.0%	29.0%
Maximum Green (s)	27.0	42.0	42.0	10.0	29.0	29.0	35.0	49.0	49.0	35.0	41.0	41.0
Yellow Time (s)	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	6.0	5.0	6.0	6.0	5.0	6.0	6.0	5.0	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	Min	Min	Min	Min	Min
Walk Time (s)	NOTIC	7.0	7.0	None	7.0	7.0	None	7.0	7.0	IVIIII	7.0	7.0
Flash Dont Walk (s)		20.0	20.0		21.0	21.0		19.0	19.0		21.0	21.0
Pedestrian Calls (#/hr)		0	0		0	0		0	0		0	0
Act Effct Green (s)	16.8	35.7	35.7	8.1	20.9	20.9	41.4	31.0	31.0	57.0	41.3	41.3
Actuated g/C Ratio	0.15	0.32	0.32	0.07	0.19	0.19	0.37	0.28	0.28	0.51	0.37	0.37
v/c Ratio	0.13	0.52	0.32	0.07	0.19	0.19	0.37	0.20	0.20	0.74	0.57	0.37
Control Delay	59.4	43.7	8.8	65.0	56.5	9.8	19.0	49.7	0.04	29.7	35.4	4.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Total Delay	59.4	43.7	8.8	65.0	56.5	9.8	19.0	49.7	0.0	29.7	35.4	4.4
Total Delay	37.4	43.1	0.0	00.0	50.5	7.0	17.0	47.1	U.Z	۷۶.۱	JJ.4	4.4

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