Appendix 25-7:

Highway Capacity Software Level of Service Output

Project Information					
Analyst	ВН	ВН			7/7/2020
Agency	PDE	PDE			2020
Jurisdiction	NYSDOT	NYSDOT		/zed	Existing
Project Description	Bank State Road (Co Route 13)	Bank State Road (County Route 13)			United States Customary
	:	Segn	nent 1		
Vehicle Inputs					
Segment Type	Passing Zone	Passing Zone			5280
Lane Width, ft	11		Shoulder Width, f	t	4
Speed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Demand and Capacity					
Directional Demand Flow Rate, veh/	n 219	219		d Flow Rate, veh/h	144
Peak Hour Factor	0.90		Total Trucks, %		7.49
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.13
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	59.7
Speed Slope Coefficient	3.51905		Speed Power Coefficient		0.55667
PF Slope Coefficient	-1.19686		PF Power Coefficient		0.81512
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.1
%Improved % Followers	0.0		% Improved Avg Speed		0.0
Subsegment Data	·				
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-		-	58.6
Vehicle Results				·	
Average Speed, mi/h	58.6		Percent Followers, %		29.3
Segment Travel Time, minutes	1.02		Followers Density	, followers/mi/ln	1.1
Vehicle LOS	A				

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A - Bank State Road (County Route 13).xuf

HCS7 Two-Lane Highway	[,] Report
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Proj	ject Information					
Analy	vst	ВН		Date		7/7/2020
Agen	су	PDE		Analysis Year		2020
Jurisc	liction	NYSDOT		Time Period Analy	/zed	Existing
Project Description Batavia Byron Road (County Route 19A)			Unit		United States Customary	
		S	egn	nent 1		
Veh	icle Inputs					
Segm	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	12		Shoulder Width, f	ť	2
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Den	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	103		Opposing Demand Flow Rate, veh/h		66
Peak	Hour Factor	0.90		Total Trucks, %		4.07
Segm	nent Capacity, veh/h	ity, veh/h 1700		Demand/Capacity (D/C)		0.06
Inte	ermediate Results					
Segm	nent Vertical Class	1	1 F		mi/h	59.0
Spee	d Slope Coefficient	3.44121		Speed Power Coe	fficient	0.59170
PF Slo	ope Coefficient	-1.16949		PF Power Coefficient		0.82204
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.3
%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	5280	-		-	58.9
Veh	icle Results	•			•	
Avera	age Speed, mi/h	58.9		Percent Followers, %		16.6
Segm	nent Travel Time, minutes	1.02		Followers Density	, followers/mi/ln	0.3
Vehic	le LOS	A		1		

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B - Batavia Byron Road (County Route 19A).xuf

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Pro	ject Information					
Analy	<i>y</i> st	ВН		Date		7/7/2020
Agen	су	PDE		Analysis Year		2020
Juriso	diction	NYSDOT	NYSDOT		vzed	Existing
Project Description Byron Elba Road - East (N) 262)		st (NY	Unit		United States Customary	
		S	Segn	nent 1		
Veh	icle Inputs					
Segment Type Passing Zone		Length, ft		5280		
Lane	Width, ft	11		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	ate, veh/h 100		Opposing Demand Flow Rate, veh/h		176
Peak	Hour Factor	0.90		Total Trucks, %		5.80
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.06
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.2
Spee	d Slope Coefficient	3.61075		Speed Power Coefficient		0.54643
PF SI	ope Coefficient	-1.19899		PF Power Coefficient		0.81618
In Pa	ssing Lane Effective Length?	No	No		nsity, veh/mi/ln	0.3
%lmp	proved % Followers	0.0		% Improved Avg Speed		0.0
Sub	segment Data					
#	Segment Type	Length, ft	Rad	ius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	61.2
Veh	icle Results					
Avera	age Speed, mi/h	61.2		Percent Followers, %		16.7
Segn	nent Travel Time, minutes	0.98		Followers Density, followers/mi/ln		0.3
Vehic	cle LOS	A				

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HCS 1 Two-Lane Version 7.8 C - Byron Elba Road - East (NY 262).xuf

Proj	ject Information					
Analy	/st	ВН		Date		7/7/2020
Agen	су	PDE	PDE			2020
Jurisc	diction	NYSDOT	NYSDOT		/zed	Existing
Proje	ct Description	Byron Elba Road - West (NY 262)		Unit		United States Customary
		S	egn	nent 1		
Veh	icle Inputs					
Segm	nent Type	Passing Zone	Passing Zone			5280
Lane	Width, ft	11		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Den	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	96		Opposing Demand Flow Rate, veh/h		118
Peak	Hour Factor	0.90		Total Trucks, %		9.10
Segm	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.06
Inte	ermediate Results					
Segm	nent Vertical Class	1		Free-Flow Speed, mi/h		61.0
Spee	d Slope Coefficient	3.57994	Speed Power Coefficient		0.56669	
PF Slo	ope Coefficient	-1.18183		PF Power Coefficient		0.82198
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.2
%Imp	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	5280	-		-	61.0
Veh	icle Results	•			•	
Avera	age Speed, mi/h	61.0		Percent Followers, %		15.8
Segm	nent Travel Time, minutes	0.98		Followers Density	, followers/mi/ln	0.2
Vehicle LOS		A				

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D - Byron Elba Road - West (NY 262).xuf

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Pro	ject Information					
Anal	yst	вн		Date		7/7/2020
Age	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	ect Description	Byron Holley Road (237)	NY	Unit		United States Customary
		:	Seg	ment 1		
Veł	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	ť	5
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	66		Opposing Deman	d Flow Rate, veh/h	66
Peak	Hour Factor	0.90		Total Trucks, %		7.53
Segr	nent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.04
Inte	ermediate Results					
Segr	nent Vertical Class	1	1		mi/h	60.4
Spee	ed Slope Coefficient	3.51627		Speed Power Coe	fficient	0.59170
PF S	lope Coefficient	-1.16335		PF Power Coefficie	ent	0.82665
In Pa	ssing Lane Effective Length?	No	No		ensity, veh/mi/ln	0.1
%lm	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	5280	-		-	60.4
Veł	nicle Results		4		•	
Aver	age Speed, mi/h	60.4		Percent Followers, %		11.5
Segr	nent Travel Time, minutes	0.99		Followers Density	, followers/mi/ln	0.1
Vehi	cle LOS	A				
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E - Byron Holley Road (NY 237).xuf

Pro	ject information					
Anal	yst	ВН		Date		7/7/2020
Ager	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT	NYSDOT		/zed	Existing
Proje	ect Description	Caswell Road		Unit		United States Customary
			Segr	ment 1		
Veł	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	t	0
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	14		Opposing Deman	d Flow Rate, veh/h	18
Peak	Hour Factor	0.90		Total Trucks, %		2.11
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.01
Inte	ermediate Results					
Segr	nent Vertical Class	1	1		mi/h	57.1
Spee	ed Slope Coefficient	3.29613	3.29613		fficient	0.63001
PF SI	ope Coefficient	-1.14309		PF Power Coefficient		0.82603
In Pa	ssing Lane Effective Length?	No	Total Segment De		nsity, veh/mi/ln	0.0
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Sub	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	57.1
Veł	nicle Results				• •	
Aver	age Speed, mi/h	57.1		Percent Followers, %		3.4
Segr	nent Travel Time, minutes	1.05		Followers Density	, followers/mi/ln	0.0
Vehi	cle LOS	A				
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HCS7 Two-Lane	Highway	Report
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Pro	ject information					
Anal	yst	ВН		Date		7/7/2020
Ager	су	PDE	PDE			2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	roject Description Clinton Street (NY 33)		3)	Unit		United States Customary
			Segn	nent 1		
Veh	icle Inputs					
Segn	gment Type Passing Zone		Length, ft		5280	
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	d Limit, mi/h	55		Access Point Den	sity, pts/mi	3.0
Der	mand and Capacity					
Direc	tional Demand Flow Rate, veh/h	357		Opposing Demand Flow Rate, veh/h		356
Peak	Hour Factor	0.90		Total Trucks, %		4.56
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	61.8
Spee	d Slope Coefficient	3.70362		Speed Power Coefficient		0.50446
PF SI	ope Coefficient	-1.23059		PF Power Coefficient		0.80546
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.5
%lm	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	5280	-		-	59.9
Veh	icle Results	•			•	
Aver	age Speed, mi/h	59.9		Percent Followers, %		41.5
Segn	nent Travel Time, minutes	1.00		Followers Density	, followers/mi/ln	2.5
Vehia	cle LOS	В				

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Pro	ject information					
Anal	yst	вн		Date		7/7/2020
Ager	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT	NYSDOT		/zed	Existing
Proje	ect Description	Cockram Road		Unit		United States Customary
			Segi	ment 1		
Veł	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	12		Shoulder Width, f	t	0
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	28		Opposing Demand Flow Rate, veh/h		28
Peak	Hour Factor	0.90		Total Trucks, %		4.68
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.02
Inte	ermediate Results					
Segr	nent Vertical Class	1	1		mi/h	57.6
Spee	ed Slope Coefficient	3.33494	3.33494		fficient	0.61925
PF SI	ope Coefficient	-1.15053		PF Power Coefficient		0.82516
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.0
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	57.6
Veł	nicle Results					
Aver	age Speed, mi/h	57.6		Percent Followers, %		5.8
Segr	nent Travel Time, minutes	1.04		Followers Density	, followers/mi/ln	0.0
Vehi	cle LOS	A				
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HCS7 Two-Lane Highway Re	eport
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Project Information					
Analyst	ВН		Date		7/7/2020
Agency	PDE		Analysis Year		2020
Jurisdiction	NYSDOT	NYSDOT		yzed	Existing
Project Description	Cole Road		Unit		United States Customary
		Seg	ment 1		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		5280
Lane Width, ft	11		Shoulder Width, f	ft	0
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	3.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	7		Opposing Demar	nd Flow Rate, veh/h	10
Peak Hour Factor	0.90		Total Trucks, %		4.68
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.00
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	57.0
Speed Slope Coefficient	3.28056		Speed Power Coe	efficient	0.64105
PF Slope Coefficient	-1.13345		PF Power Coefficient		0.82908
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.0
%Improved % Followers	0.0		% Improved Avg Speed		0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-		-	57.0
Vehicle Results					
Average Speed, mi/h	57.0		Percent Followers	i, %	1.8
Segment Travel Time, minutes	1.05		Followers Density	, followers/mi/ln	0.0
Vehicle LOS	A				
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HCS7 Two-Lane Highway Re	eport
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PIU	ject mormation					
Anal	yst	вн		Date		7/7/2020
Ager	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	ect Description	Tower Hill Road		Unit		United States Customary
			Segr	nent 1		
Veł	icle Inputs					
Segr	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	t	0
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	mand and Capacity					
Dire	tional Demand Flow Rate, veh/h	7		Opposing Demand Flow Rate, veh/h		7
Peak	Hour Factor	0.90		Total Trucks, %		4.68
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.00
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	57.0
Spee	d Slope Coefficient	3.27455		Speed Power Coefficient		0.64724
PF SI	ope Coefficient	-1.12806		PF Power Coefficient		0.83072
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.0
%lm	proved % Followers	0.0	0.0		Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	57.0
Veł	icle Results				•	
Aver	age Speed, mi/h	57.0		Percent Followers	, %	1.7
Segr	nent Travel Time, minutes	1.05		Followers Density	, followers/mi/ln	0.0
Vehi	cle LOS	A				
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Pro	ject Information					
Analy	/st	ВН		Date		7/7/2020
Ager	су	PDE	PDE			2020
Juriso	diction	NYSDOT		Time Period Analy	vzed	Existing
Proje	ect Description	Transit Road (County Route 42)		Unit		United States Customary
		S	begn	nent 1		
Veh	icle Inputs					
Segn	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	t	0
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	mand and Capacity					
Direc	tional Demand Flow Rate, veh/h	18		Opposing Demand Flow Rate, veh/h		9
Peak	Hour Factor	0.90		Total Trucks, %		4.68
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.01
Inte	ermediate Results					
Segn	Segment Vertical Class 1		Free-Flow Speed,	mi/h	57.0	
Spee	d Slope Coefficient	3.27869		Speed Power Coefficient		0.64297
PF SI	ope Coefficient	-1.13178		PF Power Coefficient		0.82959
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.0
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Sub	osegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	57.0
Veh	icle Results				•	
Avera	age Speed, mi/h	57.0		Percent Followers	, %	3.9
Segn	nent Travel Time, minutes	1.05		Followers Density	, followers/mi/ln	0.0
Vehio	cle LOS	A				

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K - Transit Road (County Route 42).xuf

HCS7 Two-Lane Highway I	Report
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Pro	ject Information					
Analy	vst	ВН		Date		7/7/2020
Agen	су	PDE		Analysis Year		2020
Juriso	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	ct Description	Walkers Corners Road (County Route 19)	k	Unit		United States Customary
		S	egn	nent 1		
Veh	icle Inputs					
Segn	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	t	0
Spee	d Limit, mi/h	35		Access Point Dens	sity, pts/mi	3.0
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	62		Opposing Demand Flow Rate, veh/h		41
Peak	Hour Factor	0.90		Total Trucks, %		4.43
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.04
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	34.2
Spee	d Slope Coefficient	2.07894		Speed Power Coefficient		0.60789
PF SI	ope Coefficient	-1.14596		PF Power Coefficient		0.74059
In Pa	ssing Lane Effective Length?	No	No		nsity, veh/mi/ln	0.2
%lmp	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	5280	-		-	34.2
Veh	icle Results	•			·	
Avera	age Speed, mi/h	34.2		Percent Followers	, %	13.6
Segn	nent Travel Time, minutes	1.75		Followers Density	, followers/mi/ln	0.2
Vahie	le LOS	A				

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HCS 100 Two-Lane Version 7.8 L - Walkers Corners Road (County Route 19).xuf

HCS7 Two-Lane	Highway Report
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Pro	ject Information					
Anal	yst	ВН		Date		7/7/2020
Ager	псу	PDE	PDE /			2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	ect Description	NY-19		Unit		United States Customar
			Seg	ment 1		
Veh	nicle Inputs					
Segn	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	ť	6
Spee	ed Limit, mi/h	45		Access Point Dens	sity, pts/mi	3.0
Der	mand and Capacity					
Dired	ctional Demand Flow Rate, veh/h	148		Opposing Deman	Opposing Demand Flow Rate, veh/h	
Peak	Hour Factor	0.90		Total Trucks, %	Total Trucks, %	
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.09
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	49.5
Spee	ed Slope Coefficient	2.97016		Speed Power Coe	Speed Power Coefficient	
PF SI	ope Coefficient	-1.23022		PF Power Coefficient		0.78364
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.7
%lm	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	5280	-		-	48.9
Veh	nicle Results				•	
Aver	age Speed, mi/h	48.9		Percent Followers	, %	24.0
Segn	nent Travel Time, minutes	1.23		Followers Density	, followers/mi/ln	0.7
	cle LOS	A				

M - NY-19.xuf

Project Information

Project Information					
Analyst	ВН		Date		7/7/2020
Agency	PDE		Analysis Year		2020
Jurisdiction	NYSDOT		Time Period Analy	/zed	Existing
Project Description	NY-98		Unit		United States Customary
		Segr	nent 1		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		5280
Lane Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	526		Opposing Deman	d Flow Rate, veh/h	408
Peak Hour Factor	0.90		Total Trucks, %		8.79
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.31
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	61.7
Speed Slope Coefficient	3.70985		Speed Power Coefficient		0.49557
PF Slope Coefficient	-1.23800		PF Power Coefficient		0.80291
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		4.6
%Improved % Followers	0.0		% Improved Avg Speed		0.0
Subsegment Data					
# Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-		-	59.2
Vehicle Results	-				
Average Speed, mi/h	59.2		Percent Followers	, %	52.2
Segment Travel Time, minutes	1.01		Followers Density, followers/mi/ln 4.6		4.6
Vehicle LOS	С				

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HCS7 Multilane Highway Report

Project Information			
Analyst	ВН	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	NY-33A	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	3.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	54.3		
Direction 1 Adjustment Fact	ors		
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Driver Population SAF	1.000	Final Capacity Adjustment Factor (CAF)	1.000
Driver Population CAF	1.000		
Direction 1 Demand and Ca	pacity		
Volume(V) veh/h	378	Heavy Vehicle Adjustment Factor (fHV)	0.930
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	226
Total Trucks, %	7.49	Capacity (c), pc/h/ln	2084
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2084
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.11
Direction 1 Speed and Dens	ity		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	54.2
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	4.2
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.8		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	210	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	4.06
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D
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HCS7 Multilane Highway Report

Project Information			
Analyst	ВН	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	NY-33A	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	3.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	54.3		
Direction 2 Adjustment Fact	ors		
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Driver Population SAF	1.000	Final Capacity Adjustment Factor (CAF)	1.000
Driver Population CAF	1.000		
Direction 2 Demand and Ca	pacity		
Volume(V) veh/h	533	Heavy Vehicle Adjustment Factor (fHV)	0.930
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	318
Total Trucks, %	7.49	Capacity (c), pc/h/ln	2084
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2084
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.15
Direction 2 Speed and Dens	ity		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	54.2
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	5.9
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.8		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	296	Effective Speed Factor (St)	4.62
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	4.12
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D
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Project Information

Project Information					
Analyst	ВН		Date		7/7/2020
Agency	PDE	PDE			2020
Jurisdiction	NYSDOT		Time Period Analy	vzed	Construction
Project Description	Bank State Road Route 13)	(County	Unit		United States Customary
		Segr	nent 1		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		5280
Lane Width, ft	11		Shoulder Width, f	t	4
Speed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Demand and Capacity					
Directional Demand Flow Rate, v	reh/h 219		Opposing Demand Flow Rate, veh/h		144
Peak Hour Factor	0.90		Total Trucks, %		7.49
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.13
Intermediate Results					
Segment Vertical Class	1	1		mi/h	59.7
Speed Slope Coefficient	3.51905	3.51905		fficient	0.55667
PF Slope Coefficient	-1.19686	-1.19686		ent	0.81512
In Passing Lane Effective Length	? No		Total Segment Density, veh/mi/ln		1.1
%Improved % Followers	0.0		% Improved Avg Speed		0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-		-	58.6
Vehicle Results	•			•	
Average Speed, mi/h	58.6		Percent Followers, %		29.3
Segment Travel Time, minutes	1.02		Followers Density	, followers/mi/ln	1.1
Vehicle LOS	Δ	A			

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A - Bank State Road (County Route 13).xuf

Pro	ject Information					
Anal	yst	ВН		Date		7/7/2020
Ager	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Construction
Proje	ect Description	Batavia Byron Road (County Route 19A)		Unit		United States Customary
		S	Segn	nent 1		
Veh	icle Inputs					
Segn	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	12		Shoulder Width, f	ť	2
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	mand and Capacity					
Dired	tional Demand Flow Rate, veh/h	103		Opposing Demand Flow Rate, veh/h		66
Peak	Hour Factor	0.90		Total Trucks, %		4.07
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.06
Inte	ermediate Results					
Segn	nent Vertical Class	1	1		mi/h	59.0
Spee	d Slope Coefficient	3.44121		Speed Power Coe	fficient	0.59170
PF SI	ope Coefficient	-1.16949		PF Power Coefficient		0.82204
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.3
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Sub	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	58.9
Veh	icle Results				•	
Aver	age Speed, mi/h	58.9		Percent Followers, %		16.6
Segn	nent Travel Time, minutes	1.02		Followers Density	, followers/mi/ln	0.3
Vehi	cle LOS	A				

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B - Batavia Byron Road (County Route 19A).xuf

piect Information D--

ВН		Date		7/7/2020	
PDE		Analysis Year		2020	
NYSDOT		Time Period Analy	zed	Construction	
Byron Elba Road 262)	l - East (NY	Unit		United States Customary	
	Segn	nent 1			
Passing Zone		Length, ft		5280	
11		Shoulder Width, f	t	6	
55		Access Point Dens	sity, pts/mi	3.0	
′h 276		Opposing Demand Flow Rate, veh/h		351	
0.90		Total Trucks, %		8.67	
1700		Demand/Capacity (D/C)		0.16	
1	1		mi/h	61.1	
3.66246	3.66246		fficient	0.50527	
-1.23361	-1.23361		ent	0.80432	
No		Total Segment Density, veh/mi/ln		1.6	
0.0		% Improved Avg Speed		0.0	
Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h	
5280	-		-	59.5	
			•		
59.5		Percent Followers, %		35.4	
1.01		Followers Density,	followers/mi/ln	1.6	
A					
	PDE PDE NYSDOT Byron Elba Road 262) Passing Zone 11 55 /n 276 0.90 11 0.90 1700 13.66246 1.123361 No 0.0 Volumentaria 5280 Selon 1.01	PDE NYSDOT Byron Elba Road - East (NY 262) SEgn Segn I1 55 11 55 11 55 11 0.90 1700 1700 1 3.66246 -1.23361 No 0.0 No 0.0 S280 101	PDE Analysis Year NYSDOT Time Period Analy Byron Elba Road - East (NY 262) Unit Segment 1 Segment 1 11 Shoulder Width, ft 55 Access Point Dens /h 276 Opposing Deman 0.90 Total Trucks, % 1700 Demand/Capacity //h 3.66246 Speed Power Coe 1.23361 PF Power Coefficie No Total Segment De 0.0 % Improved Avg S 280 - 59.5 Percent Followers, ft 59.5 Percent Followers, ft 59.5 Percent Followers, ft	PDEAnalysis YearNYSDOTTime Period AnalyzedByron Elba Road - East (NY 262)UnitSegment 1Segment 1Passing ZoneLength, ft11Shoulder Width, ft55Access Point Density, pts/mi/h276Opposing Demand Flow Rate, veh/h0.90Total Trucks, %1100Demand/Capacity (D/C)/h3.66246Speed Power Coefficient1.123361PF Power Coefficient1.23361PF Power Coefficient0.0K Improved Avg Speed//SaloSuperelevation, %5280-S280Percent Followers, %1.01Followers Density, followers/mi/ln	

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C - Byron Elba Road - East (NY 262).xuf

Proj	ect Information					
Analys	st	ВН		Date		7/7/2020
Ageno	cy	PDE		Analysis Year		2020
Jurisd	iction	NYSDOT		Time Period Analy	/zed	Construction
Projec	t Description	Byron Elba Road - Wes (NY 262)	st	Unit		United States Customary
		Se	egm	ent 1		
Vehi	icle Inputs					
Segm	ent Type	Passing Zone		Length, ft		5280
Lane \	Width, ft	11		Shoulder Width, f	ť	6
Speed	l Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Dem	nand and Capacity					
Direct	ional Demand Flow Rate, veh/h	253		Opposing Demand Flow Rate, veh/h		276
Peak H	Hour Factor	0.90		Total Trucks, %		10.19
Segm	ent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.15
Inte	rmediate Results					
Segm	ent Vertical Class	1		Free-Flow Speed,	mi/h	61.0
Speed	I Slope Coefficient	3.63755		Speed Power Coefficient		0.52044
PF Slo	pe Coefficient	-1.22119		PF Power Coefficient		0.80898
In Pas	sing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.4
%lmp	roved % Followers	0.0		% Improved Avg Speed		0.0
Sub	segment Data					
#	Segment Type	Length, ft	Radi	us, ft	Superelevation, %	Average Speed, mi/h
	Tangent	5280	-		-	59.6
Vehi	icle Results				•	
Avera	ge Speed, mi/h	59.6		Percent Followers, %		33.1
Segm	ent Travel Time, minutes	1.01		Followers Density	, followers/mi/ln	1.4
Vehicl	e LOS	A				

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D - Byron Elba Road - West (NY 262).xuf

piect Information **D**-

Proj	ect Information					
Analys	st	ВН		Date		7/7/2020
Agenc	cy	PDE		Analysis Year		2020
Jurisd	iction	NYSDOT		Time Period Analy	/zed	Existing
Projec	t Description	Byron Holley Road 237)	(NY	Unit		United States Customary
			Seg	ment 1		
Vehi	icle Inputs					
Segm	ent Type	Passing Zone		Length, ft		5280
Lane \	Width, ft	11		Shoulder Width, f	ť	5
Speed	l Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Dem	nand and Capacity					
Direct	ional Demand Flow Rate, veh/h	83		Opposing Deman	d Flow Rate, veh/h	83
Peak ł	Hour Factor	0.90		Total Trucks, %		8.25
Segm	ent Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.05
Inte	rmediate Results					
Segm	ent Vertical Class	1	1		mi/h	60.4
Speed	Slope Coefficient	3.52567		Speed Power Coe	fficient	0.58212
PF Slo	pe Coefficient	-1.17168		PF Power Coefficient		0.82410
In Pas	sing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.2
%lmp	roved % Followers	0.0		% Improved Avg Speed		0.0
Sub	segment Data					
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	60.4
Vehi	icle Results				•	
Avera	ge Speed, mi/h	60.4		Percent Followers	, %	14.0
Segm	ent Travel Time, minutes	0.99		Followers Density, followers/mi/ln		0.2
Vehicl	e LOS	Α				

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E - Byron Holley Road (NY 237).xuf

Pro	ject information					
Anal	yst	вн		Date		7/7/2020
Ager	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	ect Description	Caswell Road		Unit		United States Customary
			Segr	nent 1		
Veł	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	t	0
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	14		Opposing Deman	d Flow Rate, veh/h	18
Peak	Hour Factor	0.90		Total Trucks, %		2.11
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.01
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	57.1
Spee	ed Slope Coefficient	3.29613		Speed Power Coefficient		0.63001
PF SI	ope Coefficient	-1.14309		PF Power Coefficient		0.82603
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.0
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	57.1
Veł	nicle Results					
Aver	age Speed, mi/h	57.1		Percent Followers	, %	3.4
Segr	nent Travel Time, minutes	1.05		Followers Density	, followers/mi/ln	0.0
Vehi	cle LOS	A				
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F - Caswell Road.xuf

HCS7 Two-Lane	Highway	Report
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Pro	ject information					
Analy	vst	ВН		Date		7/7/2020
Agen	су	PDE		Analysis Year		2020
Juriso	diction	NYSDOT		Time Period Analy	yzed	Existing
Proje	ect Description	Clinton Street (NY	33)	Unit		United States Customary
			Segr	nent 1		
Veh	icle Inputs					
Segment Type Passing Zone		Length, ft		5280		
Lane	Width, ft	12		Shoulder Width, f	ft	6
Spee	d Limit, mi/h	55		Access Point Den	sity, pts/mi	3.0
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	357		Opposing Deman	nd Flow Rate, veh/h	356
Peak	Hour Factor	0.90		Total Trucks, %		4.56
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	61.8
Spee	d Slope Coefficient	3.70362		Speed Power Coe	efficient	0.50446
PF SI	ope Coefficient	-1.23059		PF Power Coefficient		0.80546
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		2.5
%lmp	proved % Followers	0.0		% Improved Avg Speed		0.0
Sub	segment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	59.9
Veh	icle Results					
Avera	age Speed, mi/h	59.9		Percent Followers, %		41.5
Segn	nent Travel Time, minutes	1.00		Followers Density	, followers/mi/ln	2.5
V-1.*.	le LOS	В		1		

HCSTM Two-Lane Version 7.8 G - Clinton Street (NY 33).xuf

HCS7 Two-Lane	Highway	Report
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Pro	ject Information					
Analy	vst	вн		Date		7/7/2020
Ager	ю	PDE		Analysis Year		2020
Juriso	diction	NYSDOT		Time Period Analy	/zed	Construction
Proje	ect Description	Cockram Road		Unit		United States Customary
			Segr	nent 1		
Veh	icle Inputs					
Segn	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	12		Shoulder Width, f	t	0
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	379		Opposing Demand Flow Rate, veh/h		379
Peak	Hour Factor	0.90		Total Trucks, %		10.46
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.22
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	57.4
Spee	d Slope Coefficient	3.47165		Speed Power Coefficient		0.50036
PF SI	ope Coefficient	-1.25609		PF Power Coefficient		0.79284
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		3.0
%lm	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	5280	-		-	55.6
Veh	icle Results	•				
Avera	age Speed, mi/h	55.6		Percent Followers	, %	44.1
Segn	nent Travel Time, minutes	1.08		Followers Density, followers/mi/ln		3.0
Vehio	cle LOS	В				
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HCS7 Two-Lane Highway Re	eport
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Project Information					
Analyst	ВН		Date		7/7/2020
Agency	PDE		Analysis Year		2020
Jurisdiction	NYSDOT		Time Period Anal	yzed	Construction
Project Description	Cole Road		Unit		United States Customa
		Segn	nent 1		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		5280
Lane Width, ft	11		Shoulder Width, 1	ft	0
Speed Limit, mi/h	55		Access Point Den	sity, pts/mi	3.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	7	7		Opposing Demand Flow Rate, veh/h	
Peak Hour Factor	0.90		Total Trucks, %		4.68
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.00
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed, mi/h		57.0
Speed Slope Coefficient	3.28056		Speed Power Coefficient		0.64105
PF Slope Coefficient	-1.13345		PF Power Coefficient		0.82908
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.0
%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	5280	-		-	57.0
Vehicle Results					
Average Speed, mi/h	57.0		Percent Followers	5, %	1.8
Segment Travel Time, minutes	1.05		Followers Density	, followers/mi/ln	0.0
Vehicle LOS	A		İ		

I - Cole Road.xuf

HCS7 Two-Lane Highway	[,] Report
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Pro	ject information					
Anal	yst	ВН		Date		7/7/2020
Ager	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Construction
Proje	ect Description	Tower Hill Road		Unit		United States Customary
			Segi	ment 1		
Veł	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	t	0
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	7		Opposing Demand Flow Rate, veh/h		7
Peak	Hour Factor	0.90		Total Trucks, %		4.68
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.00
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	57.0
Spee	ed Slope Coefficient	3.27455		Speed Power Coefficient		0.64724
PF S	ope Coefficient	-1.12806		PF Power Coefficient		0.83072
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.0
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Sub	osegment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	57.0
Veł	nicle Results					
Aver	age Speed, mi/h	57.0		Percent Followers	, %	1.7
Segr	nent Travel Time, minutes	1.05		Followers Density	, followers/mi/ln	0.0
Vehi	cle LOS	A				
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Pro	ject Information					
Analy	/st	ВН		Date		7/7/2020
Agen	су	PDE		Analysis Year		2020
Juriso	diction	NYSDOT		Time Period Analy	/zed	Construction
Proje	ect Description	Transit Road (County Route 42)		Unit		United States Customary
		S	egn	nent 1		
Veh	icle Inputs					
Segn	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	t	0
Spee	d Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	nand and Capacity					
Direc	tional Demand Flow Rate, veh/h	18		Opposing Demand Flow Rate, veh/h		9
Peak	Hour Factor	0.90		Total Trucks, %		4.68
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.01
Inte	ermediate Results					
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	57.0
Spee	d Slope Coefficient	3.27869		Speed Power Coefficient		0.64297
PF SI	ope Coefficient	-1.13178		PF Power Coefficient		0.82959
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.0
%lmp	proved % Followers	0.0	% Improved Avg Speed		0.0	
Sub	osegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	57.0
Veh	icle Results					
Avera	age Speed, mi/h	57.0		Percent Followers	, %	3.9
Segn	nent Travel Time, minutes	1.05		Followers Density	, followers/mi/ln	0.0
Vehic	cle LOS	A		İ		

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Pro	ject Information					
Anal	yst	ВН		Date		7/7/2020
Ager	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	yzed	Construction
Proj€	ect Description	Walkers Corners Roa (County Route 19)	ad	Unit		United States Customary
		:	Segn	nent 1		
Veł	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	ft	0
Spee	ed Limit, mi/h	35		Access Point Den	sity, pts/mi	3.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	62	62		nd Flow Rate, veh/h	41
Peak	Hour Factor	0.90		Total Trucks, %		4.43
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.04
Inte	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	34.2
Spee	ed Slope Coefficient	2.07894		Speed Power Coefficient		0.60789
PF SI	lope Coefficient	-1.14596		PF Power Coefficient		0.74059
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		0.2
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	34.2
Veł	nicle Results					
Aver	age Speed, mi/h	34.2		Percent Followers	s, %	13.6
Segr	nent Travel Time, minutes	1.75		Followers Density	, followers/mi/In	0.2
		A				

L - Walkers Corners Road (County Route 19).xuf

HCS7 Two-Lane	Highway	Report
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Projec	t Information					
Analyst		ВН		Date		7/7/2020
Agency		PDE		Analysis Year		2020
Jurisdicti	ion	NYSDOT		Time Period Analy	/zed	Construction
Project D	Description	NY-19		Unit		United States Customa
			Segi	ment 1		
Vehicl	e Inputs					
Segment	t Туре	Passing Zone		Length, ft		5280
Lane Wic	dth, ft	11		Shoulder Width, f	ťt	6
Speed Li	mit, mi/h	45		Access Point Dens	sity, pts/mi	3.0
Demai	nd and Capacity					
Direction	nal Demand Flow Rate, veh/h	183	183		Opposing Demand Flow Rate, veh/h	
Peak Hou	ur Factor	0.90		Total Trucks, %		13.56
Segment	t Capacity, veh/h	1700		Demand/Capacity (D/C)		0.11
Interm	nediate Results					
Segment	t Vertical Class	1		Free-Flow Speed,	mi/h	49.5
Speed Sl	ope Coefficient	2.98523		Speed Power Coe	Speed Power Coefficient	
PF Slope	Coefficient	-1.24094		PF Power Coefficie	PF Power Coefficient	
In Passin	g Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.1
%Improv	ved % Followers	0.0	0.0		% Improved Avg Speed	
Subse	gment Data					
# Seg	gment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1 Tar	ngent	5280	-		-	48.7
Vehicl	e Results					
Average	Speed, mi/h	48.7		Percent Followers	, %	28.1
Segment	t Travel Time, minutes	1.23		Followers Density	, followers/mi/ln	1.1
				-		+

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Project Information

Pro	ject Information					
Anal	yst	ВН		Date		7/7/2020
Ager	псу	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	zed	Construction
Proje	ect Description	NY-98		Unit		United States Customary
		9	Segn	nent 1		
Veh	nicle Inputs					
Segn	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	55		Access Point Dens	sity, pts/mi	3.0
Der	mand and Capacity					
Direc	ctional Demand Flow Rate, veh/h	667		Opposing Demand Flow Rate, veh/h		549
Peak	Hour Factor	0.90		Total Trucks, %		9.28
Segn	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.39
Inte	ermediate Results					·
Segn	nent Vertical Class	1		Free-Flow Speed,	mi/h	61.6
Spee	ed Slope Coefficient	3.74250		Speed Power Coefficient		0.47584
PF SI	ope Coefficient	-1.25312		PF Power Coefficient		0.79629
In Pa	ssing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		6.8
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Sub	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	58.8
Veh	nicle Results					
Aver	age Speed, mi/h	58.8		Percent Followers	, %	59.6
Segn	nent Travel Time, minutes	1.02		Followers Density	, followers/mi/ln	6.8
Vehia	cle LOS	С				

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HCS7 Multilane Highway Report

Project Information			
Analyst	ВН	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	NY-33A	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	3.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	54.3		
Direction 1 Adjustment Fact	ors		
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Driver Population SAF	1.000	Final Capacity Adjustment Factor (CAF)	1.000
Driver Population CAF	1.000		
Direction 1 Demand and Ca	pacity		
Volume(V) veh/h	505	Heavy Vehicle Adjustment Factor (fHV)	0.924
Peak Hour Factor	0.90	Flow Rate (V _P), pc/h/ln	304
Total Trucks, %	8.23	Capacity (c), pc/h/ln	2084
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2084
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.15
Direction 1 Speed and Dens	ity		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	54.2
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	5.6
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.8		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL), veh/h	281	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	4.47
			D

HCS7 Multilane Highway Report

Project Information			
Analyst	ВН	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	NY-33A	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	3.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	54.3		
Direction 2 Adjustment Fact	ors		
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Driver Population SAF	1.000	Final Capacity Adjustment Factor (CAF)	1.000
Driver Population CAF	1.000		
Direction 2 Demand and Ca	pacity		
Volume(V) veh/h	660	Heavy Vehicle Adjustment Factor (fHV)	0.924
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	397
Total Trucks, %	8.23	Capacity (c), pc/h/ln	2084
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2084
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.19
Direction 2 Speed and Dens	ity		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	54.2
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	7.3
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.8		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	367	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	4.61
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	E

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