CENTRAL BUSINESS DISTRICT (CBD) TOLLING PROGRAM

Appendix 4B.6, Transportation: Highway Capacity Software Files

Appendix 4B.6, Transportation: Highway Capacity Software Files

Three highway segments were analyzed which operate at speeds of 40 mph or higher using the HCS as a screening tool at spot locations to determine if further detailed analysis was needed.

- Bayonne Bridge
- RFK Bridge Queens Leg
- New Jersey Turnpike Eastern Spur

The results of the HCS screening analysis shown in **Table 4B.6-1** indicate that all three highways have sufficient capacity to absorb additional traffic volumes with only minor changes in density, speeds, and travel times for all tolling scenarios.

Central Business District (CBD) Tolling Program Environmental Assessment

Appendix 4B.6, Transportation: Highway Capacity Software Files

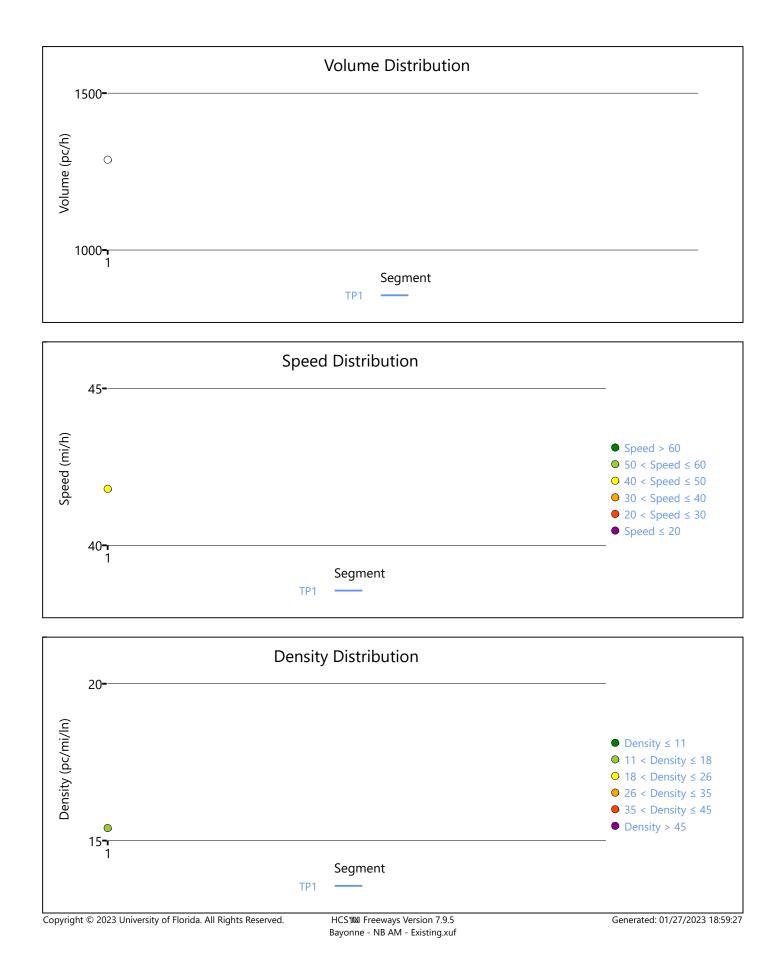
Table 4B.6-1 Summary of Highway Capacity Software Results

			HOURLY V	OLUME	
DIRECTION	LOCATION	EXISTING CONDITION	NO ACTION ALTERNATIVE	CBD TOLLING ALTERNATIVE (Tolling Scenario D)	INCREMENTAL CHANGE
Hourly Volume					
	Bayonne Bridge	1,075	1,091	1,467	376
	RFK Bridge	4,452	4,575	5,083	508
Northbound	Eastern Spur I-95 (Pre-ramp)	152	152	208	56
	Merge from 495	641	660	657	-3
	Eastern Spur I-95 (Post-ramp)	793	811	865	53
	Bayonne Bridge	659	678	759	81
	RFK Bridge	4,951	5,127	5,524	396
Southbound	Eastern Spur I-95 (Pre-ramp)	1,063	1,145	1,244	98
	Diverge to 495	630	627	686	59
	Eastern Spur I-95 (Post-ramp)	433	519	558	39
Density (pc/mi/ln)			· ·		
	Bayonne Bridge	15.4	15.6	20.5	4.9
	RFK Bridge	31.1	32	35.6	3.6
Northbound	Eastern Spur I-95 (Pre-ramp)	1.4	1.4	1.8	0.4
	Merge from 495	8.2	8.4	8.6	0.2
	Eastern Spur I-95 (Post-ramp)	6.5	6.7	7.1	0.4
	Bayonne Bridge	10.5	10.8	11.8	1
	RFK Bridge	34.4	35.6	38.3	2.7
Southbound	Eastern Spur I-95 (Pre-ramp)	8.6	9.3	9.9	0.6
	Diverge to 495	4.9	5.2	5.6	0.4
	Eastern Spur I-95 (Post-ramp)	3.4	4.1	4.3	0.2

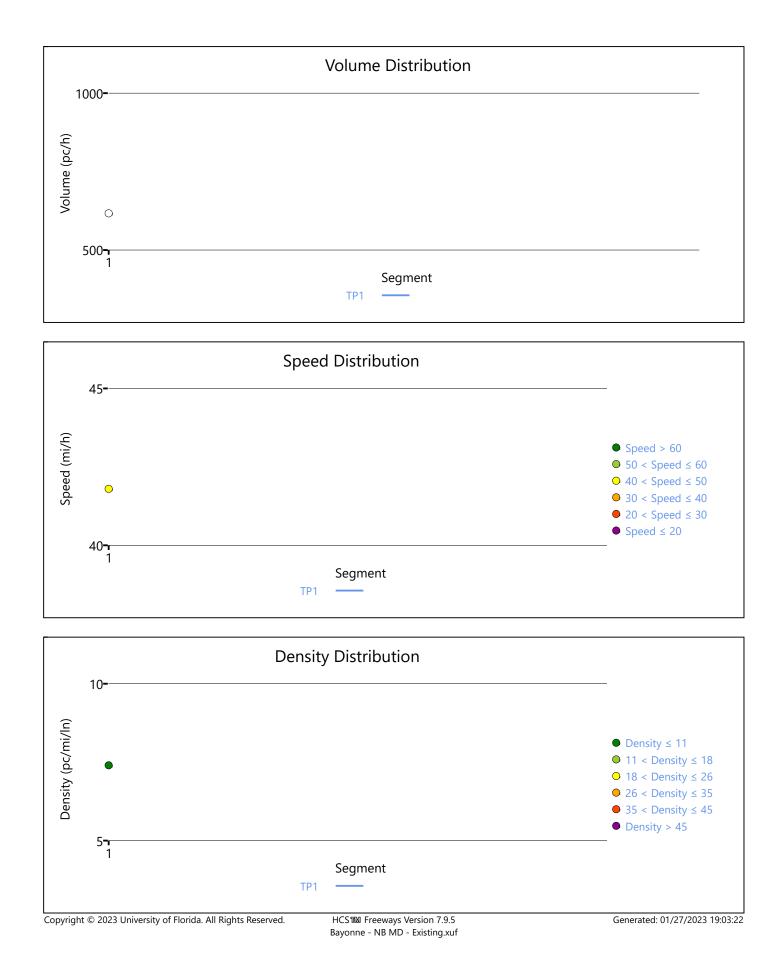
Appendix 4B.6, Transportation: Highway Capacity Software Files

			HOURLY	VOLUME	
DIRECTION	LOCATION	EXISTING CONDITION	NO ACTION ALTERNATIVE	CBD TOLLING ALTERNATIVE (Tolling Scenario D)	INCREMENTAL CHANGE
Level of Service (LOS	5)				
	Bayonne Bridge	В	В	С	_
	RFK Bridge	D	D	E	Х
Northbound	Eastern Spur I-95 (Pre-ramp)	A	А	А	_
	Merge from 495	A	А	А	_
	Eastern Spur I-95 (Post-ramp)	A	А	А	_
	Bayonne Bridge	A	А	В	_
	RFK Bridge	D	E	E	Х
Southbound	Eastern Spur I-95 (Pre-ramp)	А	А	А	_
	Diverge to 495	А	А	А	_
	Eastern Spur I-95 (Post-ramp)	Α	А	А	_

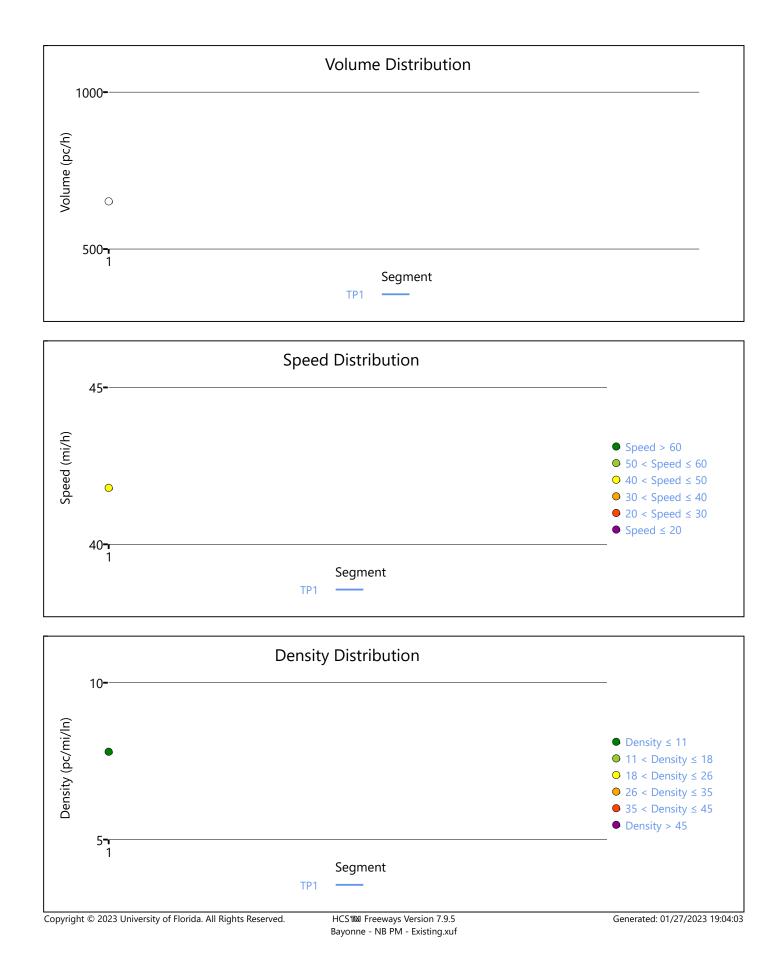
			HCS7	Freew	vay Facilitie	es Repo	ort			
Projec	t Informati	on						_	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Ye	ear		Existing		
Jurisdictio	on				Time Anal			AM		
Project D	escription		CBD		Units	-		U.S. Cus	stomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segn	nents		1		
Total Ana	Ilysis Periods		1		Analysis P	eriod Dura	tion, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Lengt	n, ft	Lan	es
1	Basic		Basic				528	0	2	
Facility	y Segment	Data								
				Segi	ment 1: Basi	с				
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.888	1288		4400	0.29	41.8		15.4	В
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Travel Time, m	in	LOS	
1	41.8		15.4		13.7		1.40		В	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	า	41.8		Density, ve	eh/mi/ln		13.7		
Average	Travel Time, mii	n	1.40		Density, p	c/mi/ln		15.4		
Messa	ges									
Comm	ents									



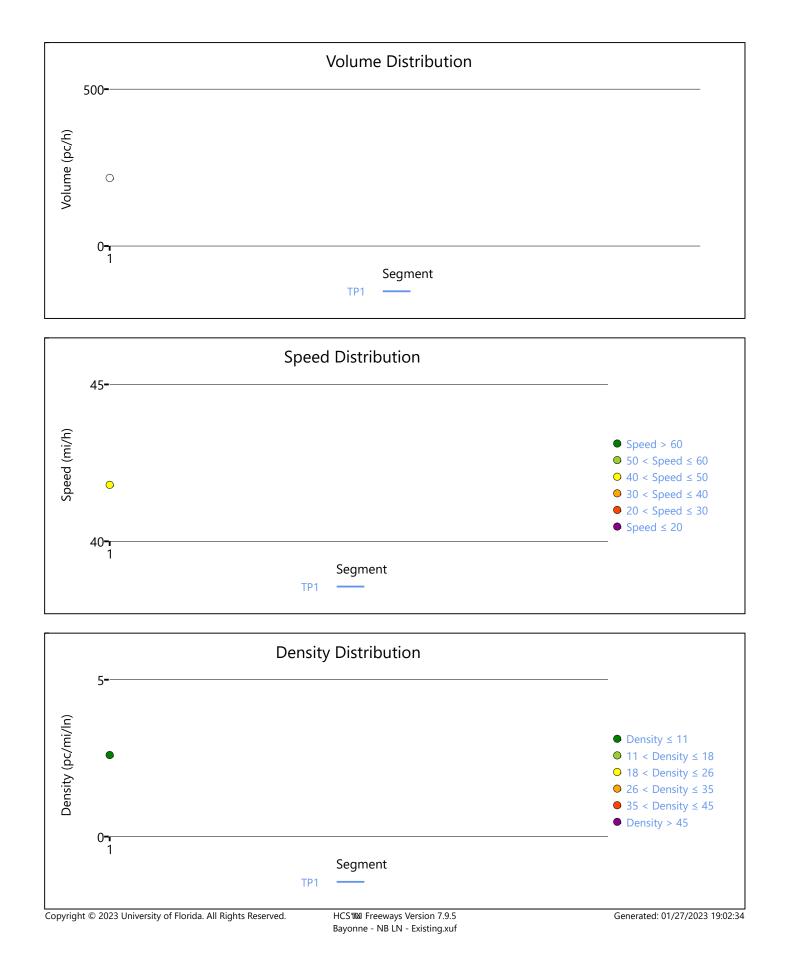
			HCS7	Freeway	Facilitie	es Repo	rt			
Projec	t Informati	ion						-	_	-
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		Existing		
Jurisdictio	on				Time Ana	yzed		MD		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, po	c/mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Durati	on, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	n, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment	Data								
				Segmei	nt 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		oacity oc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.792	617	4	400	0.14	41.8		7.4	A
Facility	y Analysis I	Results								
АР	Speed, m	i/h	Density, pc/mi/	'ln Den	sity, veh/m	i/In 1	Travel Time, mi	n	LOS	
1	41.8		7.4		5.9		1.40		А	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		5.9		
Average ⁻	Travel Time, mii	n	1.40		Density, p	c/mi/ln		7.4		
Messa	ges									
Comm	ents									



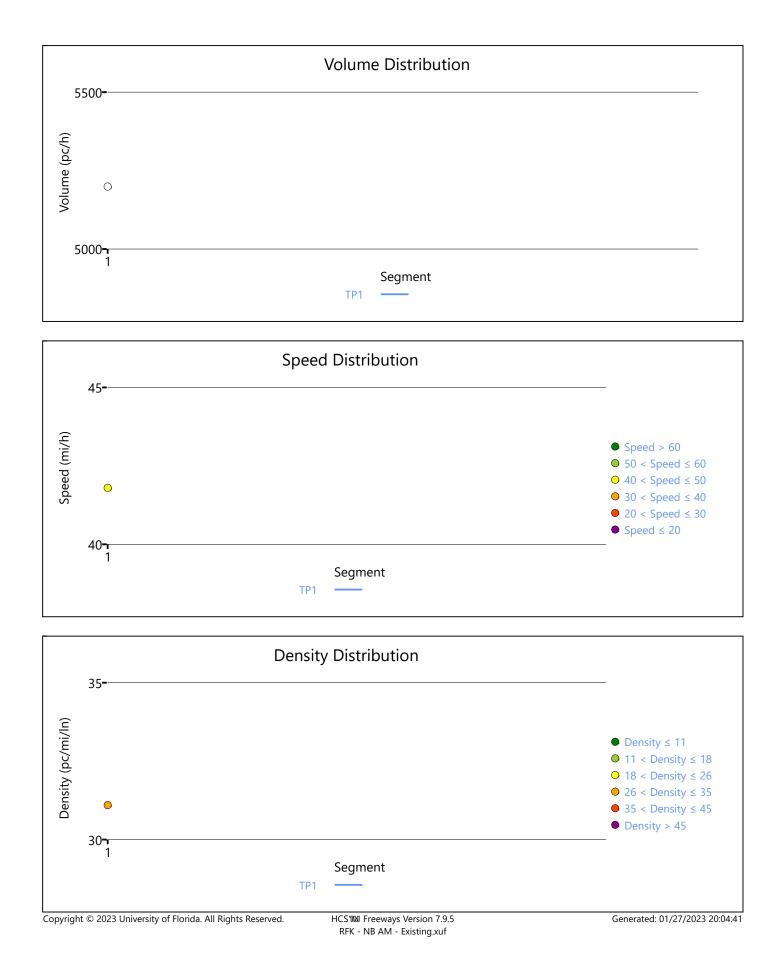
			HCS7	Freeway	y Facilitie	es Repc	ort			
Projec	t Informati	on		-				_	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	'ear		Existing		
Jurisdicti	on				Time Ana	yzed		PM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Den	sity, pc/mi/ln		190.0		Density at	: Capacity, p	oc/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	ments		1		
Total Ana	llysis Periods		1		Analysis P	eriod Durat	ion, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Lengt	n, ft	Lan	es
1	Basic		Basic				528	0	2	
Facility	y Segment	Data								
				Segme	ent 1: Basi	ic				
АР	PHF	fHV	Flow Rate (pc/h)		apacity (pc/h)	d/c Ratio	Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.919	652		4400	0.15	41.8		7.8	A
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	/In De	ensity, veh/m	i/In	Travel Time, m	in	LOS	
1	41.8		7.8		7.2		1.40		А	
Facility	y Overall R	esults								
Space M	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		7.2		
Average	Travel Time, mi	n	1.40		Density, p	c/mi/ln		7.8		
Messa	ges				-					
Comm	ents									



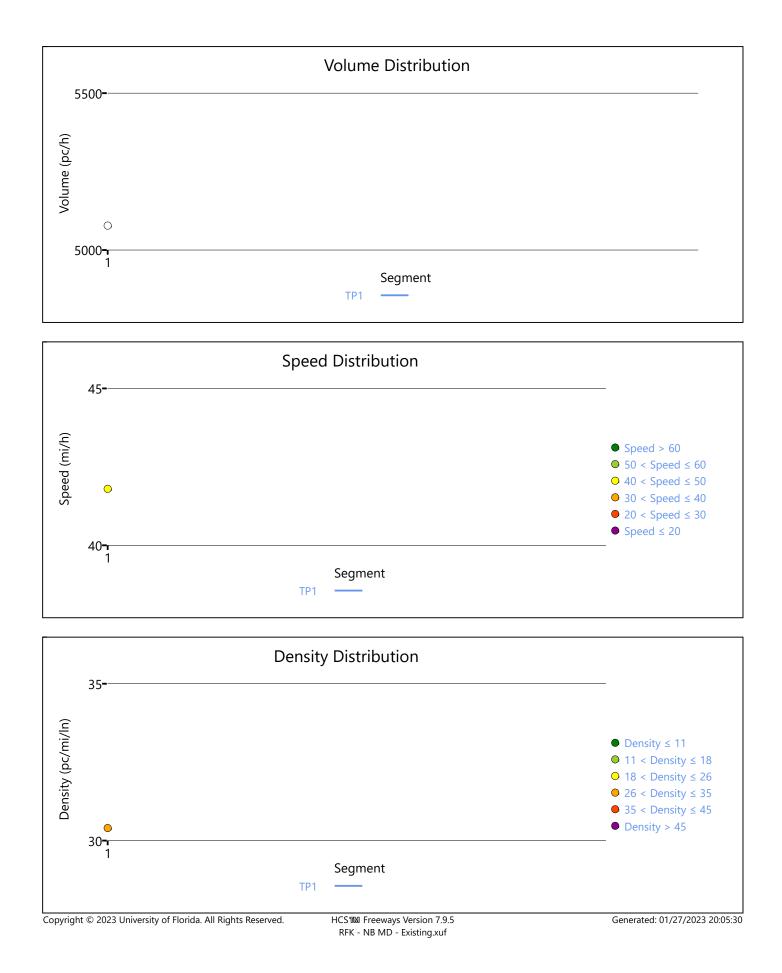
			HCS7	Freeway	Facilitie	es Repor	t			
Projec	t Informati	on						_	_	
Analyst	tinionnati		CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		Existing		
Jurisdictio	on				Time Ana			LN		
	escription		CBD		Units	,		U.S. Cus	tomary	
Facility	/ Global In	put			1			1		
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, pc/	/mi/ln	45.0		
Queue Di	ischarge Capaci	ity Drop, %	7		Total Segr	ments		1		
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	n, min	15		
Facility Le	ength, mi		1.00							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Land	es
1	Basic		Basic				5280)	2	
Facility	/ Segment	Data								
				Segme	nt 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		oacity oc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.847	217	4	400	0.05	41.8		2.6	A
Facility	/ Analysis F	Results								
AP	Speed, m	i/h	Density, pc/mi/	'In Den	sity, veh/m	i/ln Tr	avel Time, mi	n	LOS	
1	41.8		2.6		2.2		1.40		А	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/ł	า	41.8		Density, v	eh/mi/ln		2.2		
Average ⁻	Travel Time, mir	n	1.40		Density, p	c/mi/ln		2.6		
Messa	ges									
Comm	ents									



			HCS7	Freeway	y Facilitie	es Repo	rt			
Proiec	t Informati	on			,			-	_	-
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	'ear		Existing		
Jurisdicti	on				Time Ana	lyzed		AM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Den	sity, pc/mi/ln		190.0		Density at	: Capacity, po	:/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	ments		1		
Total Ana	lysis Periods		1		Analysis F	eriod Durati	on, min	15		
Facility Le	ength, mi		0.69							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	n, ft	Lan	es
1	Basic		Basic				3634	4	4	
Facility	y Segment	Data								
				Segmo	ent 1: Basi	ic				
АР	PHF	fHV	Flow Rate (pc/h)		apacity (pc/h)	d/c Ratio	Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.911	5199		8800	0.59	41.8		31.1	D
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	'ln De	ensity, veh/m	i/In 1	Travel Time, mi	n	LOS	
1	41.8		31.1		28.3		1.00		D	
Facility	y Overall R	esults								
Space M	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		28.3		
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln		31.1		
Messa	ges									
Comm	ents									



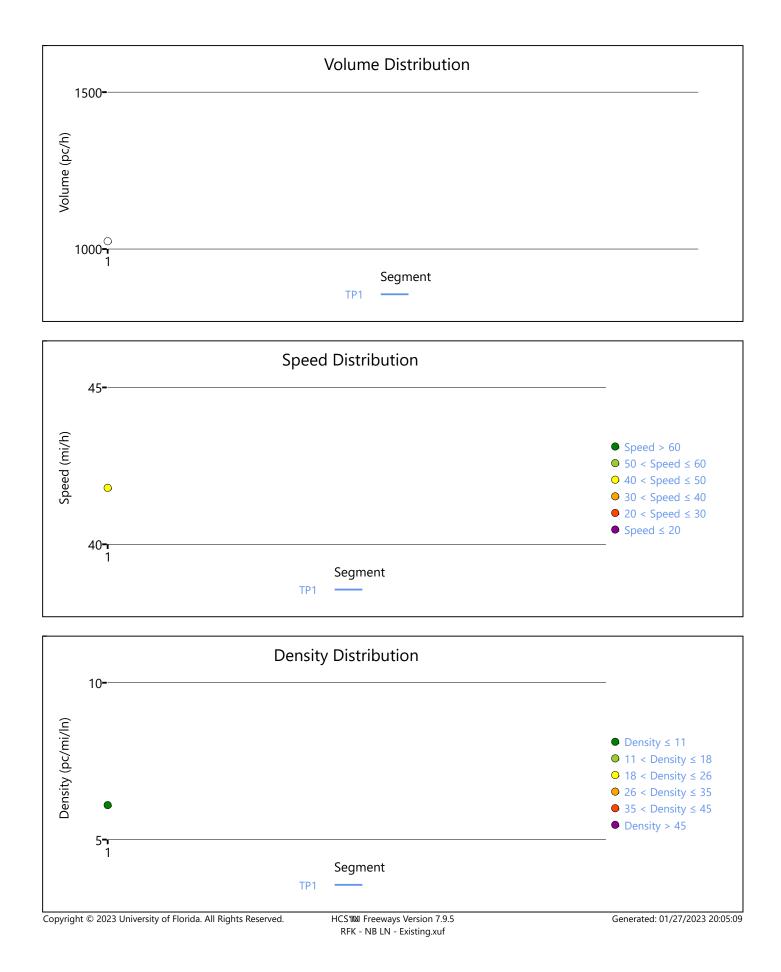
			HCS7	Freeway	Facilitie	s Renc	rt			
Droiog			11037	Treeway	lacintic			-	-	
-	t Informati	on						4/24/22	22	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y			Existing		
Jurisdictio	-		CPD		Time Anal	yzed		MD		
-	escription	out	CBD		Units			U.S. Cus	tomary	
		put	100.0		Density	Caracit		45.0		
	sity, pc/mi/ln		190.0			Capacity, p	oc/mi/ln	45.0		
	ischarge Capac	ity Drop, %	7		Total Segr		ion min	1		
	Ilysis Periods		0.69		Analysis P	eriod Durat	ion, min	15		
	ength, mi		0.69							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Lengt	h, ft	Lan	es
1	Basic		Basic				363	4	4	
Facility	y Segment	Data								
				Segmer	nt 1: Basi	c				
ΑΡ	PHF	fHV	Flow Rate (pc/h)		oacity c/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.906	5078	8	800	0.58	41.8		30.4	D
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	In Den	sity, veh/mi	/In	Travel Time, m	in	LOS	
1	41.8		30.4		27.5		1.00		D	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	า	41.8		Density, v	eh/mi/ln		27.5		
Average ⁻	Travel Time, mi	า	1.00		Density, p	c/mi/ln		30.4		
Messa	ges									
Comm	ents									



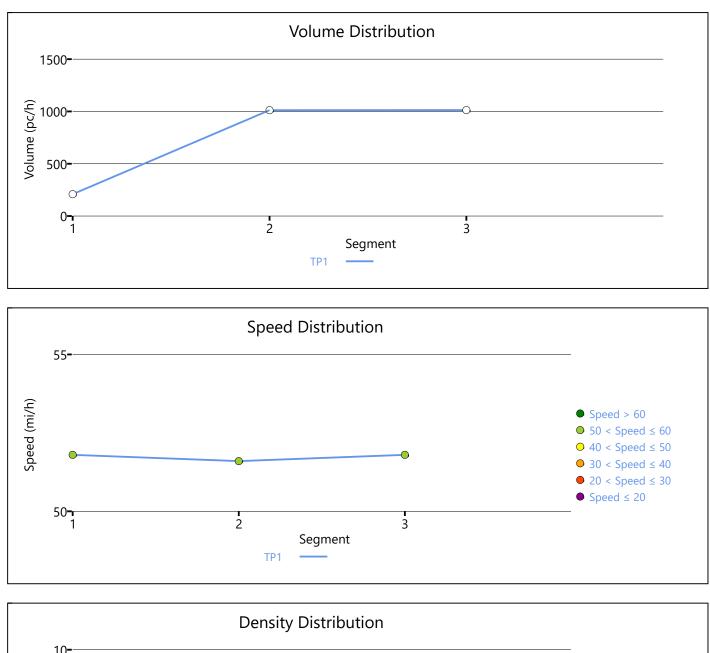
			HCS7	Freev	way Facilitie	es Repo	ort			
Proiec	t Informati	on						_	_	_
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		Existing		
Jurisdicti	on				Time Anal	yzed		PM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity,	oc/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Dura	tion, min	15		
Facility Le	ength, mi		0.69							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	n, ft	Lan	es
1	Basic		Basic				3634	4	4	
Facility	y Segment	Data								
				Seg	jment 1: Basi	с				
AP	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.958	5230		8800	0.59	41.8		31.3	D
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Travel Time, mi	n	LOS	
1	41.8		31.3		30.0		1.00		D	
Facility	y Overall R	esults								
Space M	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln		30.0		
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln		31.3		
Messa	ges									
Comm	ents									

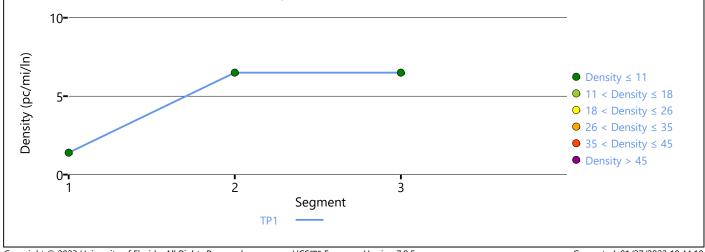


			HCS7	Freeway	Facilitie	es Repo	rt			
Projec	t Informati	ion			_	_	_	_	_	_
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		Existing		
Jurisdictio	on				Time Anal	yzed		LN		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In _l	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, p	c/mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	llysis Periods		1		Analysis P	eriod Durati	on, min	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	1	4	
Facility	y Segment	Data								
				Segme	nt 1: Basi	c				
ΑΡ	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.879	1025	8	800	0.12	41.8		6.1	A
Facility	y Analysis I	Results								
АР	Speed, m	i/h	Density, pc/mi/	'In Den	sity, veh/mi	/In	Travel Time, mi	n	LOS	
1	41.8		6.1		5.4		1.00		А	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		5.4		
Average ⁻	Travel Time, mii	n	1.00		Density, p	c/mi/ln		6.1		
Messa	ges									
Comm	ents									



					HC	S7 Fre	eeway l	aciliti	es Re	eport					
Proje	ct Info	rmat	ion	_	_	_		_	_		_		_	_	
Analyst					CJ			Date					4/21/202	2	
Agency					WSP			Analysis Y	′ear				Existing		
Jurisdic	tion							Time Ana	lyzed				AM		
Project	Descripti	on			CBD			Units					U.S. Custo	omary	
Facili	ty Glol	oal In	put												
Jam De	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharg	e Capad	ity Dro	р, %	7			Total Seg	nents				3		
Total Ar	nalysis Pe	riods			1			Analysis F	Period [Duration	ı, min		15		
Facility	Length, r	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lane	es
1		Basic			Basic							2500		3	
2		Merge			Merge			-				663		3	
3		Basic			Basic							2500		3	
Facili	ty Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
АР	P	HF	fł	١V	Flow (pc)		Capa (pc			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.7	772	20	9	66	54	0.	.03	51	.8		1.4	A
						S	egment	2: Mer	ge						
АР	P	HF	fł	١V	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.772	0.849	1012	803	6750	4000	0.15	0.20	51.6	51.3	6.5	8.2	А
						:	Segmen	t 3: Basi	ic						
AP	P	HF	fł	١V	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	333	10	13	66	54	0.	.15	51	.8		6.5	A
Facili	ty Ana	lysis	Resul	ts					-						
АР	S	peed, n	ni/h	Т	Density, p	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, mir	n	LOS	
1		51.8			4.3			3.5			1.20)		А	
Facili	ty Ove	rall R	esult	s											
Space N	Лean Spe	ed, mi/	'n		51.8			Density, v	eh/mi/	In			3.5		
Average	e Travel T	ime, mi	in		1.20			Density, p	oc/mi/lr	۱			4.3		
Mess	ages														
Comr	nents														

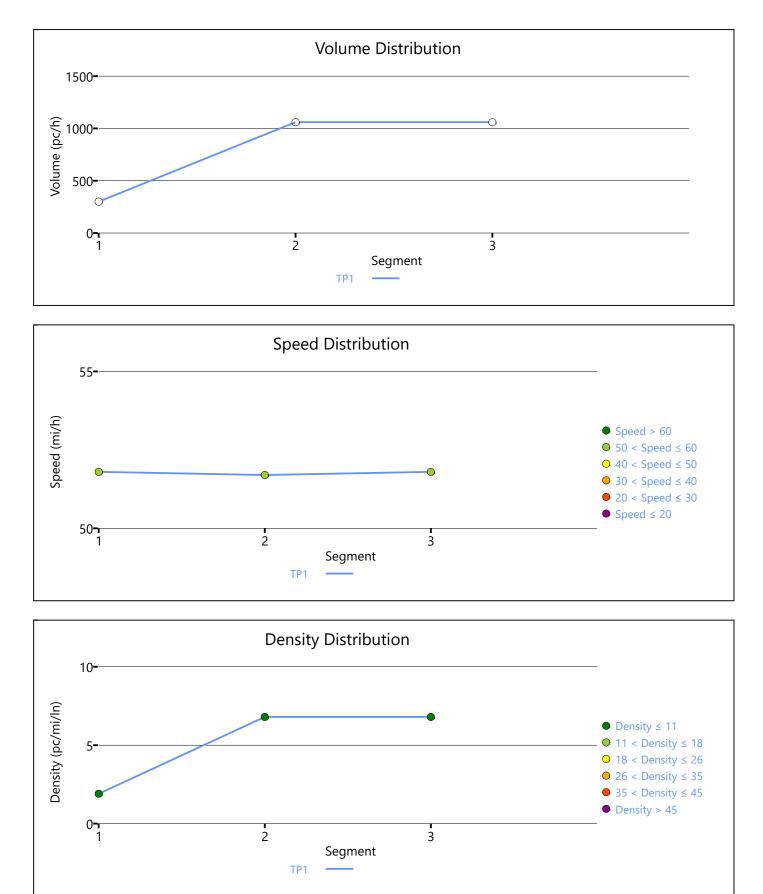




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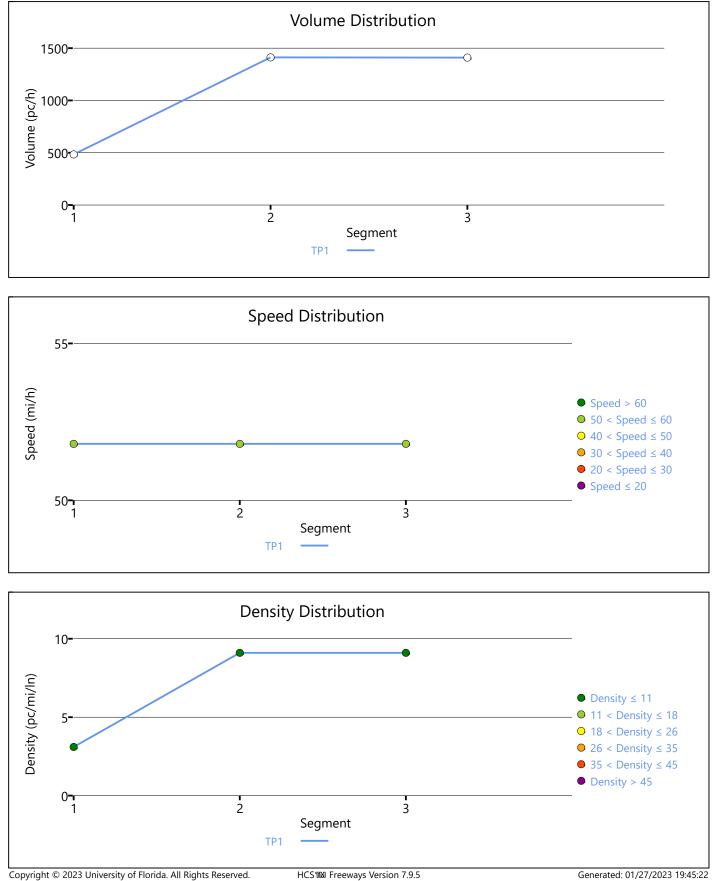
					HC	S7 Fre	eeway l	aciliti	es Re	eport	:				
Proje	ct Info	rmat	ion	_		_			_	_	_	_	_		
Analyst					CJ			Date					4/21/202	22	
Agency					WSP			Analysis Y	′ear				Existing		
Jurisdic	tion							Time Ana	lyzed				MD		
Project	Descripti	on			CBD			Units					U.S. Cus	omary	
Facili	ty Glol	oal In	put		-										
Jam De	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharg	e Capao	ity Dro	р, %	7			Total Seg	ments				3		
Total Ar	nalysis Pe	riods			1			Analysis F	Period [Duration	, min		15		
Facility	Length, r	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lan	es
1		Basic			Basic							2500		3	
2		Merge			Merge			-				663		3	
3		Basic			Basic							2500	1	3	
Facili	ty Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
AP	PI	HF	fł	IV	Flow (pc)		Capa (pc)			l/c atio		eed i/h)		ensity /mi/ln)	LOS
1	0.	94	0.7	797	30	0	66	54	0.	.05	51	.8		1.9	A
						S	egment	2: Mer	ge						
AP	PI	HF	fł	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		ensity /mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freewa	y Ramp	
1	0.94	0.94	0.797	0.801	1060	760	6750	4000	0.16	0.19	51.7	51.3	6.8	8.3	А
						:	Segmen	t 3: Basi	ic						
AP	PI	HF	fł	١V	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		ensity /mi/ln)	LOS
1	0.	94	0.8	300	106	50	66	54	0.	.16	51	.8		6.8	А
Facili	ty Ana	lysis	Resul	ts											
АР	SI	peed, n	ni/h	T	Density, p	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, miı	n	LOS	
1		51.8			4.6			3.7			1.20	0		А	
Facili	ty Ove	rall R	esult	5											
Space N	/lean Spe	ed, mi/	'n		51.8			Density, v	eh/mi/	In			3.7		
Average	e Travel T	ime, m	in		1.20			Density, p	c/mi/lr	۱			4.6		
Mess	ages														
Comr	nents														



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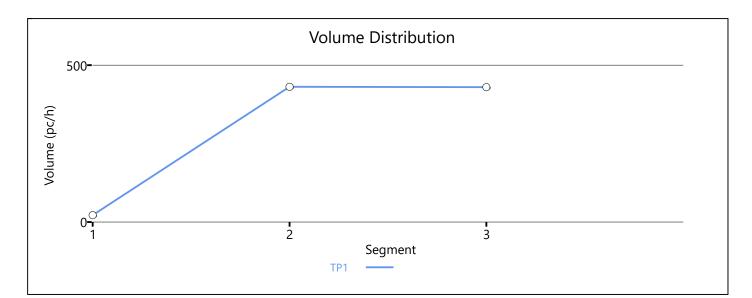
					HC	S7 Fre	eeway l	aciliti	es Re	eport	:				
Proje	ct Info	rmat	ion	_	_	_		_	_		_	_	_	_	
Analyst					CJ			Date					4/21/202	2	
Agency WSP							Analysis Y	′ear				Existing			
Jurisdic	tion							Time Ana	lyzed				PM		
Project	Descripti	on			CBD			Units					U.S. Custo	omary	
Facili	ty Glol	oal In	put		-										
Jam De	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharg	e Capad	city Dro	р, %	7			Total Seg	ments				3		
Total Ar	nalysis Pe	riods			1			Analysis F	Period [Duration	, min		15		
Facility	Length, r	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	ength,	, ft	Lane	es
1		Basic			Basic							2500		3	
2		Merge			Merge			-			663			3	
3		Basic			Basic						2500			3	
Facili	ty Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
AP	PI	HF	fŀ	IV	Flow Rate (pc/h)				/c Speed htio (mi/h)			nsity mi/ln)	LOS		
1	0.	94	0.9	919	48	4	66	6654 0.07			51.8			3.1	А
						S	egment	2: Mer	ge						
AP	PI	HF	fŀ	IV	Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio					Density (pc/mi/ln)	
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.919	0.923	1412	928	6750	4000	0.21	0.23	51.8	51.3	9.1	10.4	В
						:	Segmen	t 3: Basi	ic						
AP	PI	HF	fŀ	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.9	923	14	10	66	54	0.	.21	51	.8		9.1	А
Facili	ty Ana	lysis	Resul	ts											
АР	SI	peed, n	ni/h		Density, p	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, mir	ו	LOS	
1		51.8			6.5			5.9			1.20)		А	
Facili	ty Ove	rall R	esult	5											
Space N	/lean Spe	ed, mi/	'n		51.8			Density, v	eh/mi/	In			5.9		
Average	e Travel T	ime, mi	in		1.20			Density, p	oc/mi/lr	۱			6.5		
Mess	ages														
Comr	nents														

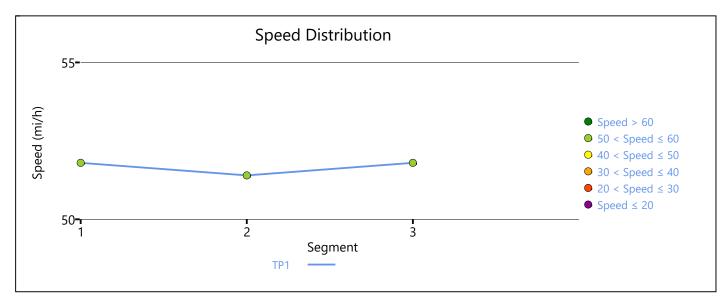


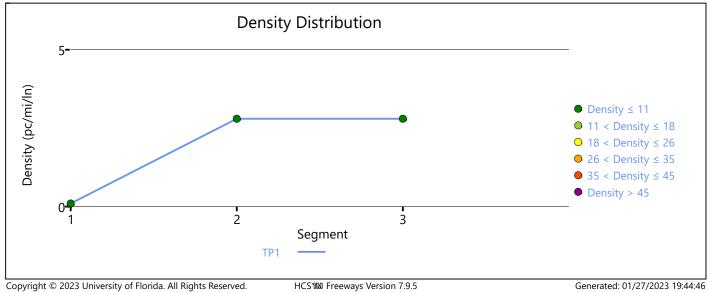
NJ Turnpike - Eastern Spur NB PM - Existing.xuf

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					НС	S7 Fre	eeway l	- acilitie	es Re	eport					
Proje	ct Info	rmat	ion	_	_	_		_	_		_	-	_	_	
Analyst				_	CJ			Date				_	4/21/202	2	
Agency WSP											Existing				
Jurisdic	tion							Time Ana	lyzed				LN		
Project	Descripti	on			CBD			Units					U.S. Cust	omary	
Facili	ty Glol	oal In	put												
Jam De	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharge	e Capac	city Dro	р, %	7			Total Seg	nents				3		
Total Ar	nalysis Pe	riods			1			Analysis F	Period D	Duration	ı, min		15		
Facility	Length, n	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lane	es
1		Basic			Basic							2500		3	
2		Merge			Merge			-				663		3	
3		Basic			Basic			25				2500			
Facili	ty Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
AP	PI	HF	fŀ	IV	Flow Rate (pc/h)		Capacity d/c (pc/h) Ratio		-	Speed (mi/h)			nsity mi/ln)	LOS	
1	0.	94	0.7	23	22	2	6654 0.00			51.8			0.1	A	
			<u>.</u>			S	egment	2: Mer	ge						
AP	PI	HF	fŀ	IV	Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio					nsity mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freewa	r Ramp	
1	0.94	0.94	0.723	0.888	431	409	6750	4000	0.06	0.10	51.4	51.3	2.8	4.5	А
						:	Segmen	t 3: Basi	ic						
AP	PI	HF	fŀ	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	380	43	0	66	54	0.	.06	51	1.8		2.8	А
Facili	ty Ana	lysis	Resul	ts											
АР	Si	peed, n	ni/h		Density, p	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, miı	<u>ו</u> ו	LOS	
1		51.7			1.6			1.4			1.2	0		А	
Facili	ty Ove	rall R	esult	5											
Space N	/lean Spe	ed, mi/	'n		51.7			Density, v	eh/mi/	In			1.4		
Average	e Travel T	ime, mi	in		1.20			Density, p	oc/mi/lr	۱ 			1.6		
Mess	ages														
Comr	nents														



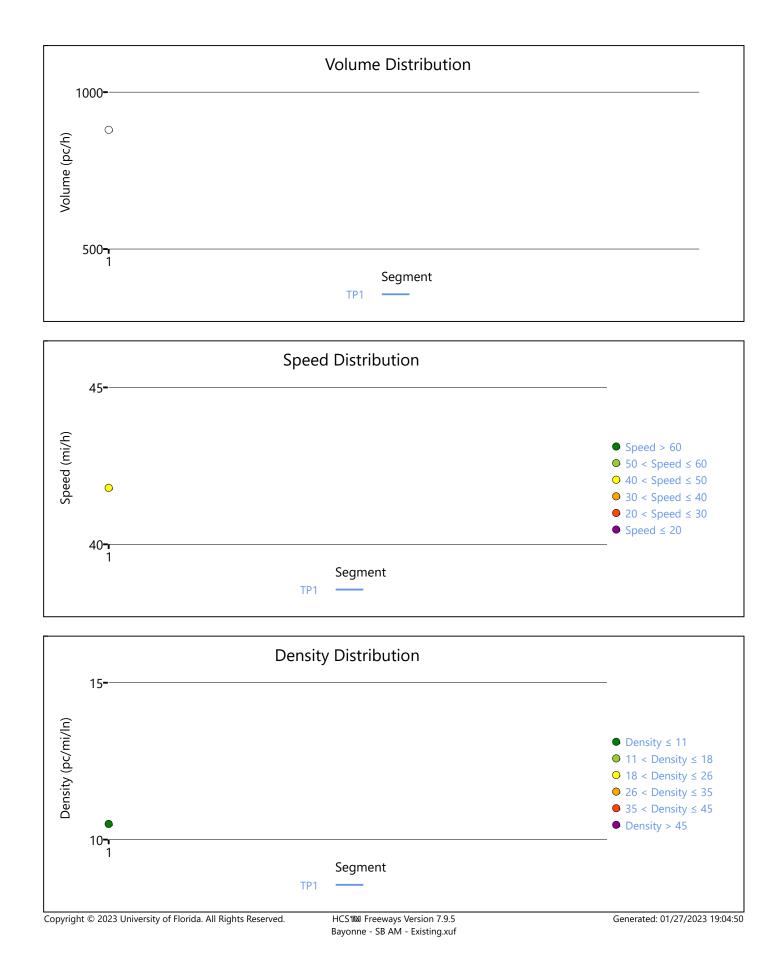




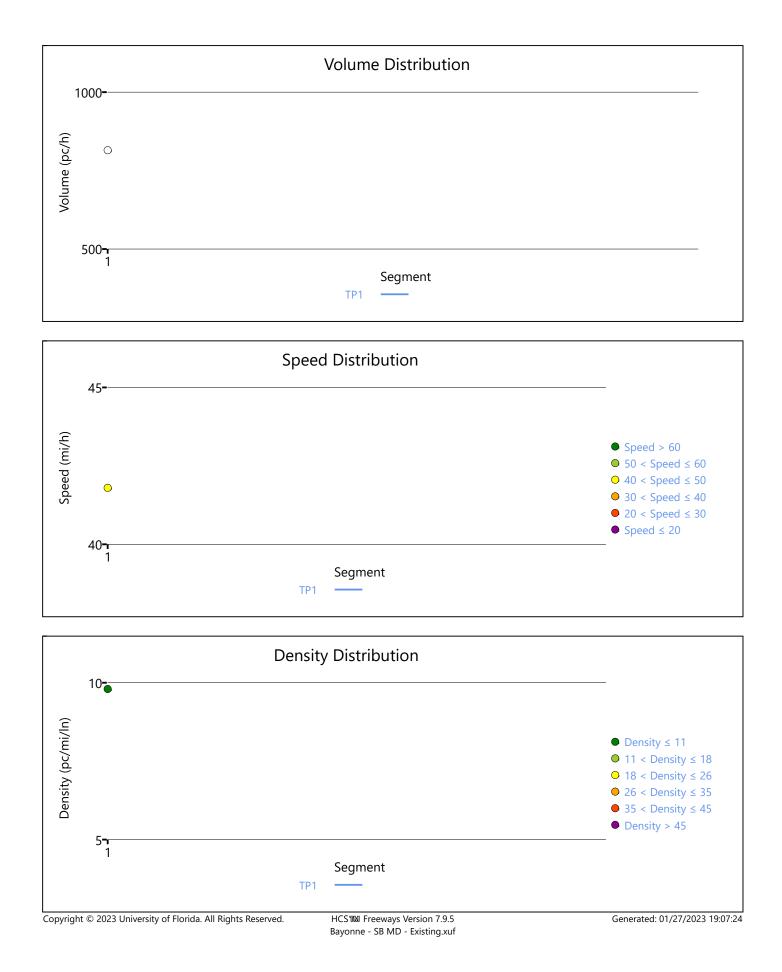
HCSTM Freeways Version 7.9.5 NJ Turnpike - Eastern Spur NB LN - Existing.xuf

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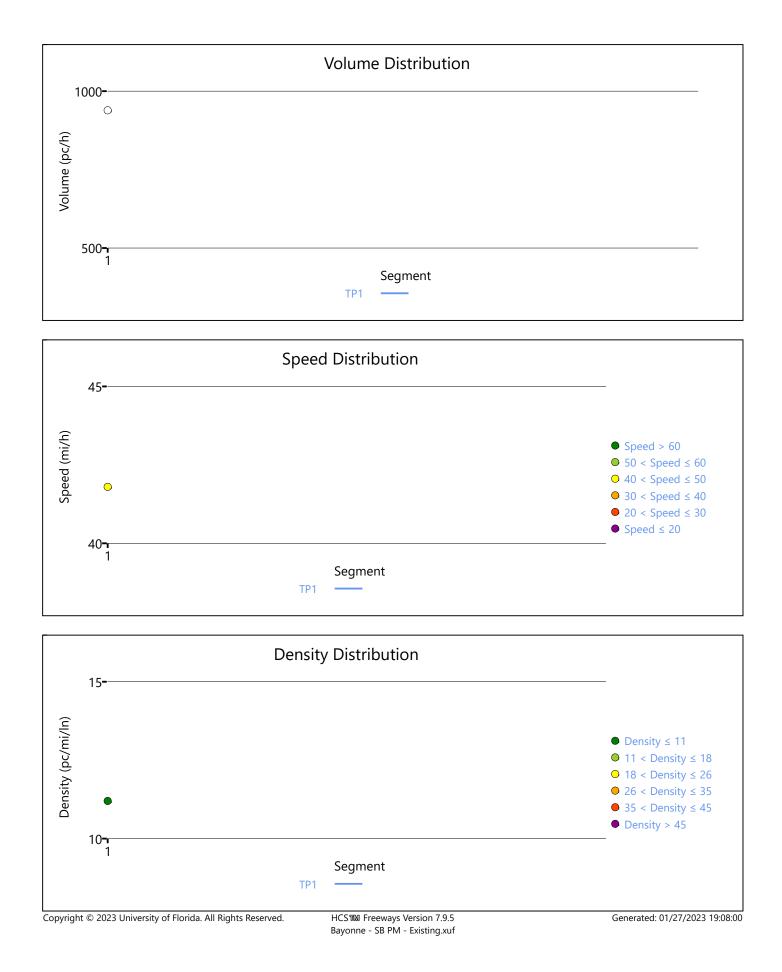
			HCS7	Freew	vay Facilitie	es Repo	ort				
Projec	t Informati	on					_	-	_	_	
Analyst CJ I								4/21/20	/21/2022		
Agency			WSP		Analysis Y	ear		Existing			
Jurisdictio	on				Time Anal	yzed		AM			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, p	oc/mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1			
Total Ana	lysis Periods		1		Analysis P	eriod Durat	ion, min	15			
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Lengt	n, ft	Lan	es	
1	Basic		Basic			5			80 2		
Facility	y Segment	Data									
				Segi	ment 1: Basi	с					
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS	
1	0.94	0.797	880		4400	0.20	41.8		10.5	A	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	′ln	Density, veh/mi	/ln	Travel Time, m	n	LOS		
1	41.8		10.5		8.4		1.40		А		
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	า	41.8		Density, v	eh/mi/ln		8.4			
Average -	Travel Time, mi	า	1.40		Density, p	c/mi/ln		10.5			
Messa	ges							-			
Comm	ents										



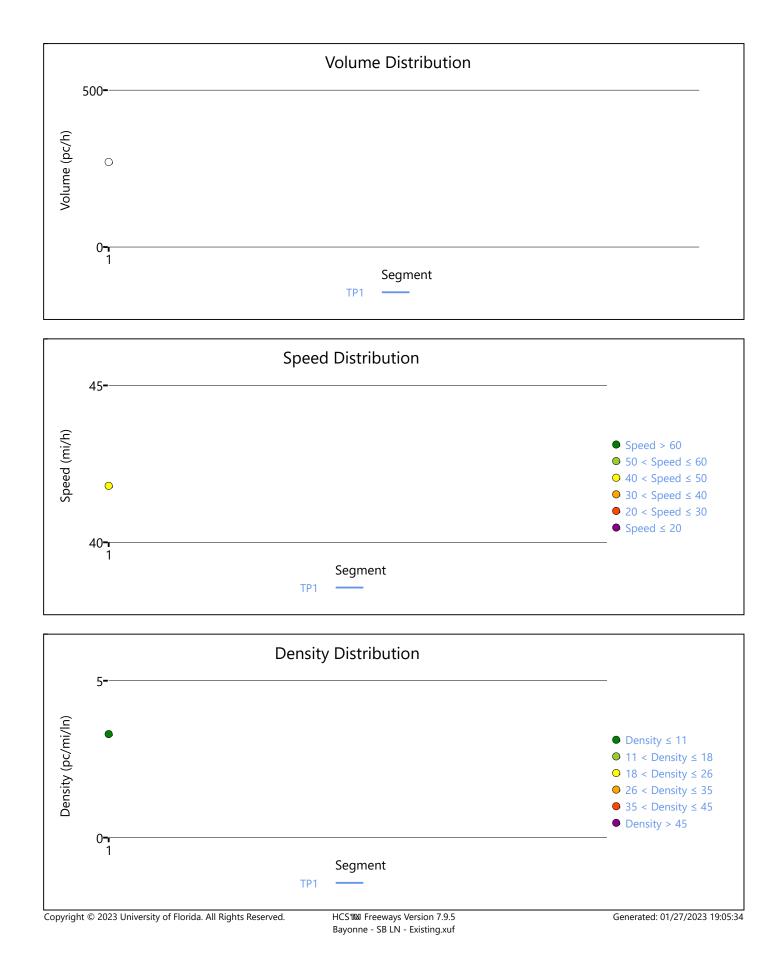
			HCS7	Freewa	ay Facilitie	es Repo	ort					
Projec	t Informati	on		_			_	_	_			
Analyst CJ									4/21/2022			
Agency			WSP		Analysis Y	ear			Existing			
Jurisdictio	on				Time Anal	yzed			MD			
Project D	escription		CBD		Units				U.S. Cus	tomary		
Facility	/ Global Inj	put										
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/mi,	/ln	45.0			
Queue D	ischarge Capaci	ity Drop, %	7		Total Segr	nents			1			
Total Ana	lysis Periods		1		Analysis P	eriod Dura	ation, r	nin	15			
Facility Le	ength, mi		1.00									
Facility	/ Segment	Data										
No.	Coded		Analyzed	Analyzed Name Length, ft Land							es	
1	Basic		Basic					5280 2				
Facility	/ Segment	Data										
				Segm	nent 1: Basi	c						
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	,	Speed (mi/h)	Density (pc/mi/ln)		LOS	
1	0.94	0.773	815		4400	0.19		41.8		9.8	A	
Facility	/ Analysis F	Results										
AP	Speed, m	i/h	Density, pc/mi/	'ln D	ensity, veh/mi	/In	Trave	el Time, mir	ו ו	LOS		
1	41.8		9.8		7.6			1.40		А		
Facility	y Overall R	esults										
Space Me	ean Speed, mi/ł	1	41.8		Density, v	eh/mi/ln			7.6			
Average	Travel Time, mir	า	1.40		Density, p	c/mi/ln			9.8			
Messa	ges											
Comm	ents											



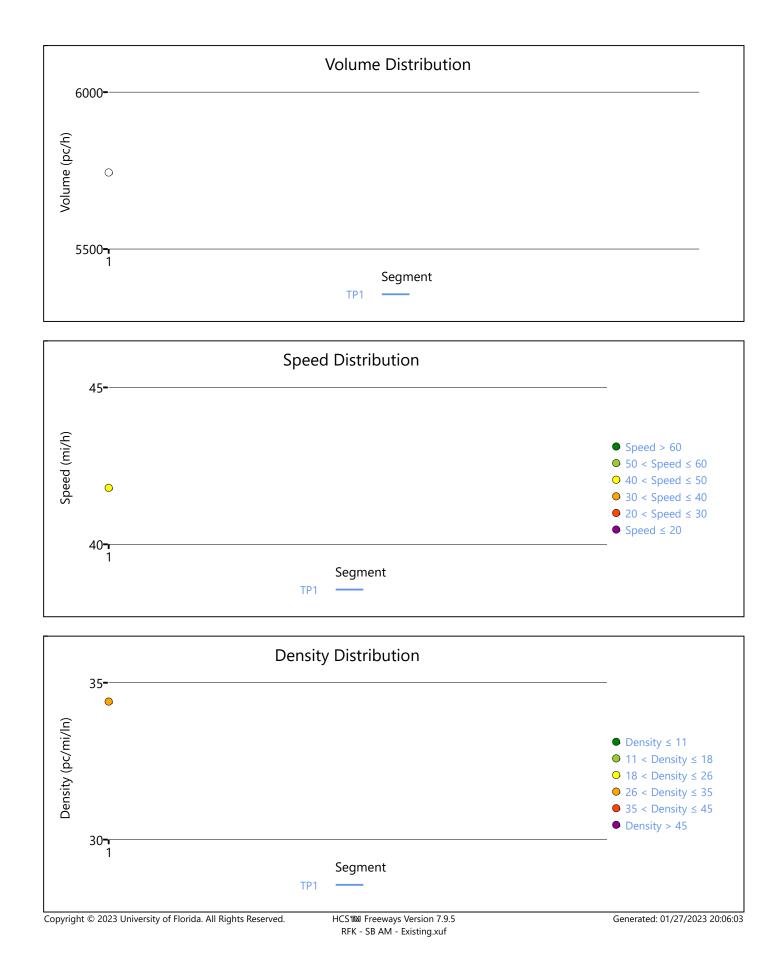
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Projec	t Informati	on			_	_	_	_	_		
Analyst CJ								4/21/20	4/21/2022		
Agency			WSP		Analysis Y	ear		Existing			
Jurisdictio	on				Time Ana	yzed		PM			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, pc,	′mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	ments		1			
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	n, min	15			
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed	Analyzed Name Length, ft Land							
1	Basic		Basic				5280	0 2			
Facility	y Segment	Data									
				Segme	nt 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/c Ratio	Speed (mi/h)		Density c/mi/ln)	LOS	
1	0.94	0.896	939	4	400	0.21	41.8		11.2		
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	'In Den	sity, veh/m	i/In Tı	avel Time, mi	n	LOS		
1	41.8		11.2		10.0		1.40		В		
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		10.0			
Average	Travel Time, mi	n	1.40		Density, p	c/mi/ln		11.2			
Messa	ges										
Comm	ents										



			HCS7	Freeway	Facilitie	es Repoi	t				
Projec	t Informati	on						-	_	-	
Analyst CJ								4/21/20	4/21/2022		
Agency			WSP		Analysis Y	ear		Existing			
Jurisdictio	on				Time Ana	yzed		LN			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, po	/mi/ln	45.0			
Queue Di	ischarge Capac	ity Drop, %	7		Total Segr	ments		1			
Total Ana	llysis Periods		1		Analysis P	eriod Duratio	on, min	15			
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Length	, ft	Lan	Lanes	
1	Basic		Basic				5280)	2		
Facility	y Segment	Data									
				Segme	nt 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		oacity oc/h)				Density (pc/mi/ln)		
1	0.94	0.812	271	4	400	0.06	41.8		3.3	A	
Facility	y Analysis I	Results									
АР	Speed, m	ii/h	Density, pc/mi/	'In Den	sity, veh/mi	i/ln T	ravel Time, mi	n	LOS		
1	41.8		3.3		2.7		1.40		А		
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		2.7			
Average ⁻	Travel Time, mii	n	1.40		Density, p	c/mi/ln		3.3			
Messa	ges										
Comm	ents										



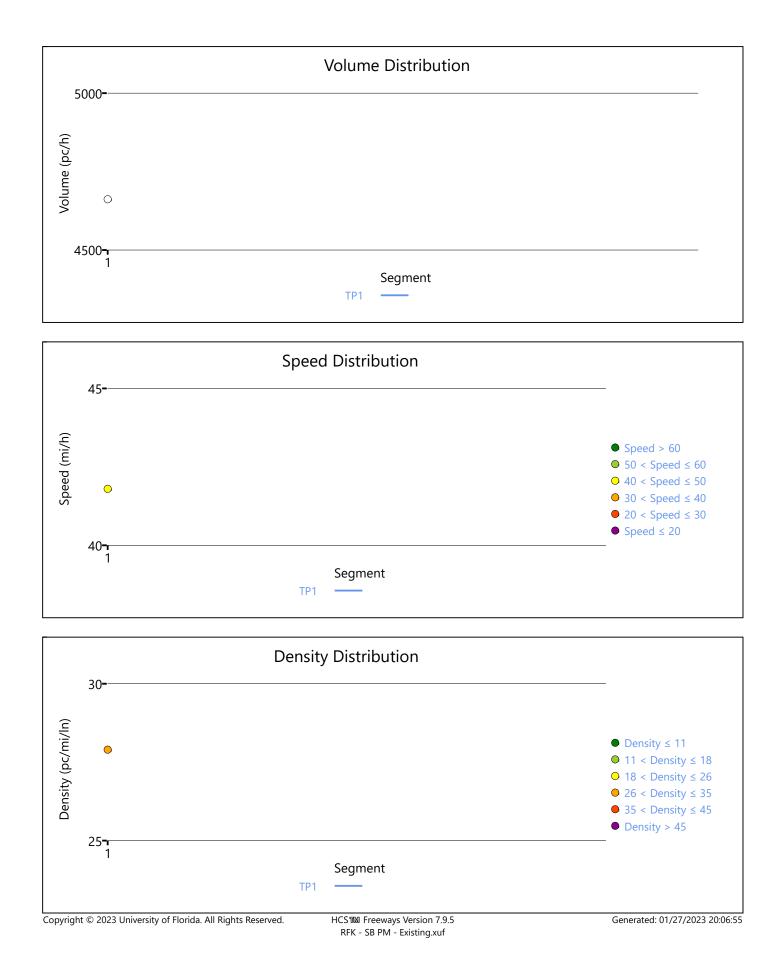
			HCS7	Freeway	/ Facilitie	es Repo	rt					
Projec	t Informati	ion						-	_	_		
Analyst			CJ		Date			4/21/20	22			
Agency WSP Analysis Year Existing												
Jurisdiction Time Analyzed AM												
Project Description CBD Units U.S. Customary												
Facility	y Global In	put										
Jam Den	sity, pc/mi/ln		190.0		Density at	: Capacity, p	c/mi/ln	45.0				
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1				
Total Ana	lysis Periods		1		Analysis P	eriod Durati	on, min	15				
Facility Length, mi 0.69												
Facility	y Segment	Data										
No.	Coded		Analyzed		Name		Length	, ft	Lan	es		
1	Basic		Basic				3634	1	4			
Facility	y Segment	Data										
				Segme	ent 1: Basi	ic						
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS		
1	0.94	0.917	5744		8800	0.65	41.8		34.4	D		
Facility	y Analysis I	Results										
AP	Speed, m	i/h	Density, pc/mi/	'In De	nsity, veh/m	i/In ·	Travel Time, mi	n	LOS			
1	41.8		34.4		31.5		1.00		D			
Facility	y Overall R	esults										
Space M	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		31.5				
Average	Travel Time, mi	n	1.00		Density, p	Density, pc/mi/ln 34.4						
Messa	ges											
Comm	ents											



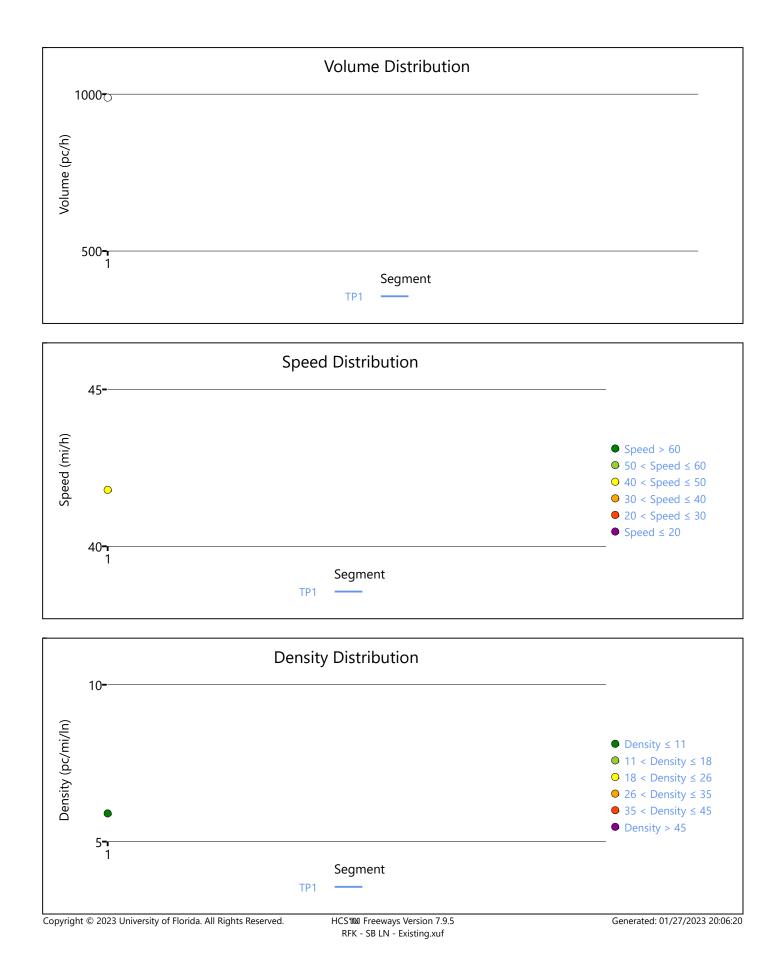
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Projec	t Informati	on		_				_	-	_	-	
Analyst			CI		Date				4/21/20	22		
Agency WSP Analysis Year Existing												
Jurisdiction Time Analyzed MD												
Project D	escription		CBD		Units				U.S. Cus	tomary		
Facility	y Global In	put										
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/m	ii/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents			1			
Total Analysis Periods 1 Analysis Period Duration, min 15												
Facility Length, mi 0.69												
Facility	y Segment	Data										
No.	Coded		Analyzed		Name		Т	Length	, ft	Lan	es	
1	Basic		Basic					3634		4		
Facility	y Segment	Data										
				Seg	jment 1: Basi	с						
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	,	Speed (mi/h)		ensity :/mi/ln)	LOS	
1	0.94	0.883	4132		8800	0.47		41.8		24.7	С	
Facility	y Analysis I	Results										
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Trav	vel Time, mii	n	LOS		
1	41.8		24.7		21.8			1.00		С		
Facility	y Overall R	esults										
Space M	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln			21.8			
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln	mi/ln 24.7					
Messa	ges											
Comm	ents											



			HCS7	Freew	vay Facilitie	es Repo	ort					
Projec	t Informati	on		_			_	_				
Analyst			CI		Date			4/21	/2022			
Agency WSP Analysis Year Existing												
Jurisdiction Time Analyzed PM												
Project D	escription		CBD		Units			U.S.	Customary			
Facility	y Global In	put										
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity, p	oc/mi/ln	45.0				
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1				
Total Ana	lysis Periods		1		Analysis P	eriod Durat	ion, min	15				
Facility Length, mi 0.69												
Facility	y Segment	Data										
No.	Coded		Analyzed		Name		Leng	th, ft	Lan	es		
1	Basic		Basic				36	34	4			
Facility	y Segment	Data										
				Seg	ment 1: Basi	с						
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.94	0.949	4662		8800	0.53	41.8		27.9	D		
Facility	y Analysis I	Results										
АР	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Travel Time,	nin	LOS			
1	41.8		27.9		26.5		1.00		D			
Facility	y Overall R	esults										
Space M	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln		26.5				
Average	Travel Time, mii	n	1.00		Density, p	Density, pc/mi/ln 27.9						
Messa	ges											
Comm	ents											

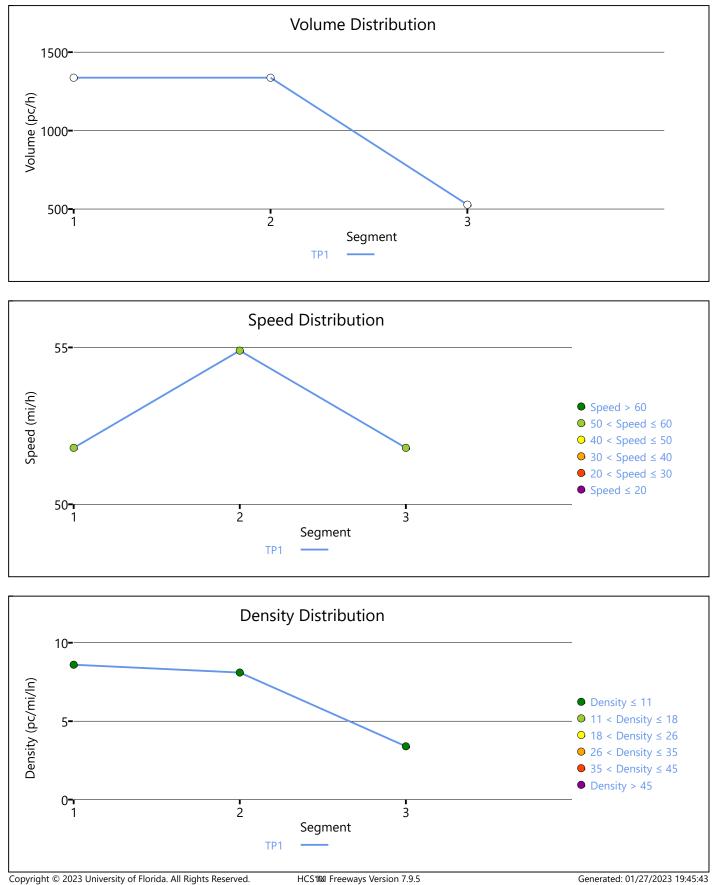


			HCS7	Freeway	[,] Facilitie	es Repo	rt				
Projec	t Informati	ion			_		_	_	_		
Analyst			CI		Date			4/21/20	22		
Agency WSP Analysis Year Existing											
Jurisdicti	on				Time Ana	yzed		LN			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity, p	c/mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1			
Total Ana	llysis Periods		1		Analysis P	eriod Durati	on, min	15			
Facility Length, mi 0.69 0.69											
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Length	n, ft	Lan	es	
1	Basic		Basic				3634	4	4		
Facility	y Segment	Data									
				Segme	nt 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h)		Density c/mi/ln)	LOS	
1	0.94	0.896	989		3800	0.11	41.8		5.9	A	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	'In Dei	nsity, veh/mi	i/In	Travel Time, mi	n	LOS		
1	41.8		5.9		5.3		1.00		А		
Facility	y Overall R	esults									
Space M	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		5.3			
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln		5.9			
Messa	ges							-			
Comm	ents										



					HC	S7 Fre	eeway F	acilitie	es Re	port					
Projec	t Info	rmati	ion	_	_	_		_	_		_	_	_	_	_
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Year					Existing		
Jurisdicti	on							Time Anal	yzed				AM		
Project D	Descripti	on			CBD			Units					U.S. Custo	mary	
Facility	y Gloł	oal In	put												
Jam Den	sity, pc/	mi/ln			190.0			Density at	: Capaci	ity, pc/r	ni/ln		45.0		
Queue D	ischarge	e Capac	ity Drop	o, %	7			Total Segr	ments				3		
Total Ana	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15		
Facility Le	ength, n	ni			1.29										
Facility	y Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	ft	Lane	25
1		Basic			Basic			250						3	
2		Diverge			Basic			_				1800		3	
3		Basic			Basic							2500		3	
Facilit	y Segi	ment	Data												
							Segment	t 1: Basi	ic						_
АР	PI	łF	f⊦	IV	Flow (pc)		Capacity (pc/h)			/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.8	346	133	37	66	54	0.2	20	51	1.8	8	.6	A
						Se	egment 2	2: Diver	ge						
АР	PI	łF	fŀ	IV	Flow (pc)		Capa (pc,		d/c Ratio			eed i/h)		nsity ni/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.846	0.829	1337	808	6750	4200	0.20	0.19	54.9	55.0	8.1	8.1	А
						9	Segment	t 3: Basi	ic						
AP	PI	łF	f⊦	iv	Flow (pc,		Capa (pc,		d, Ra	/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.8	873	52	8	66	54	0.0	08	51	1.8	3	.4	А
Facility	y Ana	lysis	Resul	ts											
AP	Sp	Speed, mi/h Density, pc/mi/ln					Densi	ty, veh/mi	i/In	Tra	vel Tin	ne, mir	n	LOS	
1		52.8			6.6			5.6			1.50	0		А	
Facility	y Ove	rall R	esults	5											
Space M	ean Spe	ed, mi/	h		52.8			Density, v	eh/mi/l	n			5.6		
			2		1.50			Density, p	c/mi/ln				6.6		
Average	Travel T	ime, mi	n												
Average Messa		ime, mi	n					571							

WARNING 2 Length of accel/decel lane is longer than 1500 feet for segment 2.										
Comments										

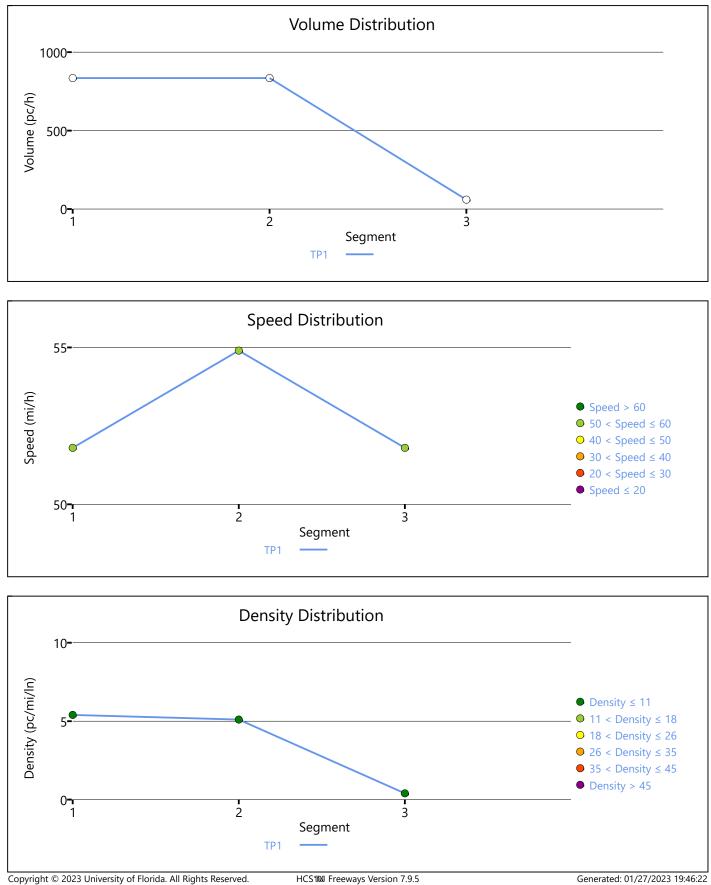


NJ Turnpike - Eastern Spur SB AM - Existing.xuf

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					HC	S7 Fre	eeway F	aciliti	es Re	port					
Projec	t Info	rmati	ion	_	_	_		_	_		_	_	_	_	_
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Year					Existing		
Jurisdicti	on							Time Ana	yzed				MD		
Project D	Descripti	on			CBD			Units					U.S. Custo	mary	
Facility	y Gloł	oal In	put				1								
Jam Den	sity, pc/	mi/ln			190.0			Density at	: Capaci	ity, pc/r	ni/ln		45.0		
Queue D	ischarge	e Capac	ity Drop	o, %	7			Total Segr	ments				3		
Total Ana	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15		
Facility Lo	ength, n	ni			1.29										
Facility	y Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lan	es
1		Basic			Basic					2500		3			
2	I	Diverge			Basic			_				1800		3	
3		Basic			Basic							2500		3	
Facility	y Segi	ment	Data										·		
							Segment	t 1: Basi	ic						
АР	PI	ΗF	f⊦	IV	Flow (pc)		Capa (pc		-	/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.8	10	83		66	54	0.1	13	5	1.8		5.4	A
						Se	egment 2	2: Diver	ge						1
АР	PI	łF	fŀ	IV	Flow (pc)		Capa (pc,			/c tio	Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.810	0.817	835	776	6750	4200	0.12	0.18	54.9	55.0	5.1	5.1	А
						9	Segment	t 3: Basi	ic						
AP	PI	ΗF	f⊦	IV	Flow (pc,		Capa (pc,		d, Ra	/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.7	'15	60)	66	54	0.0	01	51	1.8	().4	A
Facility	y Ana	lysis	Resul	ts											
AP	Sp	Speed, mi/h Density, pc/mi/ln					Densi	ty, veh/mi	i/In	Tra	vel Tin	ne, miı	1	LOS	
1		53.0			3.5		2.8 1.50					0		А	
Facility	y Ove	rall R	esults	5											
Space Mean Speed, mi/h 53.0								Density, v	eh/mi/l	n			2.8		
	- 1-	imo mi	n		1.50			Density, p	c/mi/ln				3.5		
Average	Iravel I	inne, mi													
Average Messa		inne, mi													

WARNING 2 Length of accel/decel lane is longer than 1500 feet for segment 2.										
Comments										



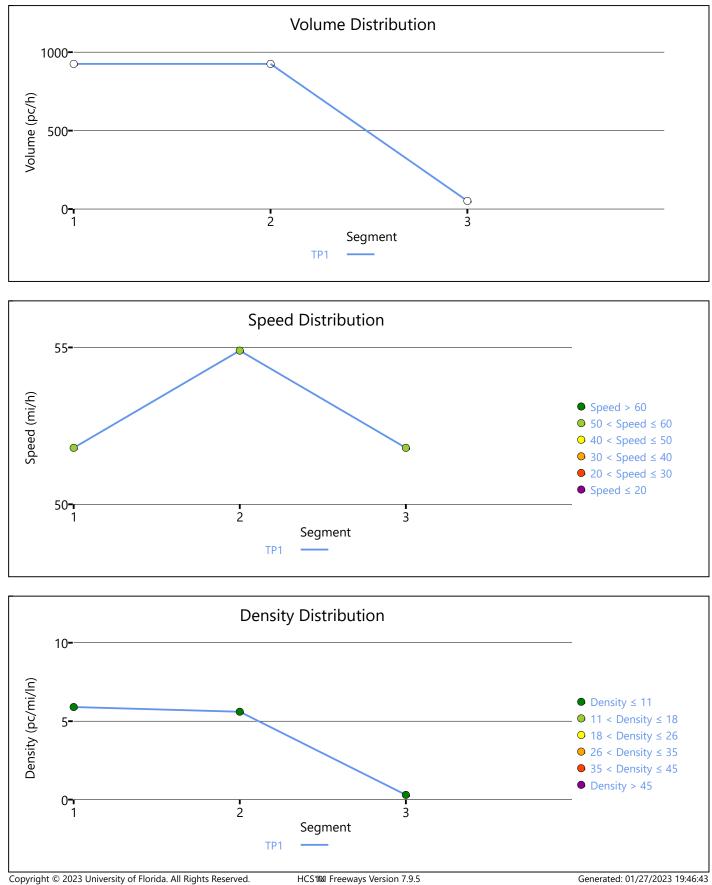
NJ Turnpike - Eastern Spur SB MD - Existing.xuf

Generated: 01/27/2023 19:46:22

					HC	S7 Fre	eeway F	acilitie	es Re	port					
Projec	t Info	rmati	ion	_	_	_		_	_		_	_	_	_	_
Analyst				_	CJ			Date					4/21/2022		
Agency					WSP			Analysis Year					Existing		
Jurisdicti	on							Time Ana	yzed				PM		
Project D) escripti	on			CBD			Units					U.S. Custo	mary	
Facility	y Gloł	oal In	put												
Jam Den	sity, pc/	mi/ln			190.0			Density at	: Capaci	ity, pc/r	ni/ln		45.0		
Queue D	ischarge	e Capac	ity Drop	o, %	7			Total Segr	nents				3		
Total Ana	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15		
Facility Le	ength, n	ni			1.29										
Facility	y Segi	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	ft	Lan	es
1		Basic			Basic						2500		3		
2	[Diverge			Basic			_				1800		3	
3		Basic			Basic							2500		3	
Facility	y Segi	ment	Data	-											
							Segment	t 1: Basi	ic						
АР	Pł	łF	fŀ	IV	Flow (pc)		Capa (pc,		-	/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.9	94	0.9	921	92		66		0.	14	51	1.8		.9	A
						Se	egment 2	2: Diver	ge						1
АР	Pł	łF	f⊦	IV	Flow (pc,		e Capacity d/c (pc/h) Ratio			eed i/h)		nsity ni/ln)	LOS		
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.921	0.926	925	874	6750	4200	0.14	0.21	54.9	55.0	5.6	5.6	А
							Segment	t 3: Basi	ic						
АР	Pł	HF	f⊦	IV	Flow (pc,		Capa (pc,		d, Ra	/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.9	94	0.8	322	52	2	66	54	0.0	01	51	.8	0	.3	А
Facility	y Ana	lysis	Resul	ts											
АР	Speed, mi/h Density, pc/mi/ln					c/mi/ln	Densi	ty, veh/mi	i/In	Tra	vel Tin	ne, mii	n	LOS	
1		53.0			3.8		3.4 1.50)		А	
Facility	y Ove	rall R	esults	5											
Space Me	ean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			3.4		
	Travel Ti	ime. mi	n		1.50			Density, p	c/mi/ln				3.8		
Average	nuvern	,													
Average Messa															

Appendix 4B.6-51

WARNING 2 Length of accel/decel lane is longer than 1500 feet for segment 2.										
Comments										

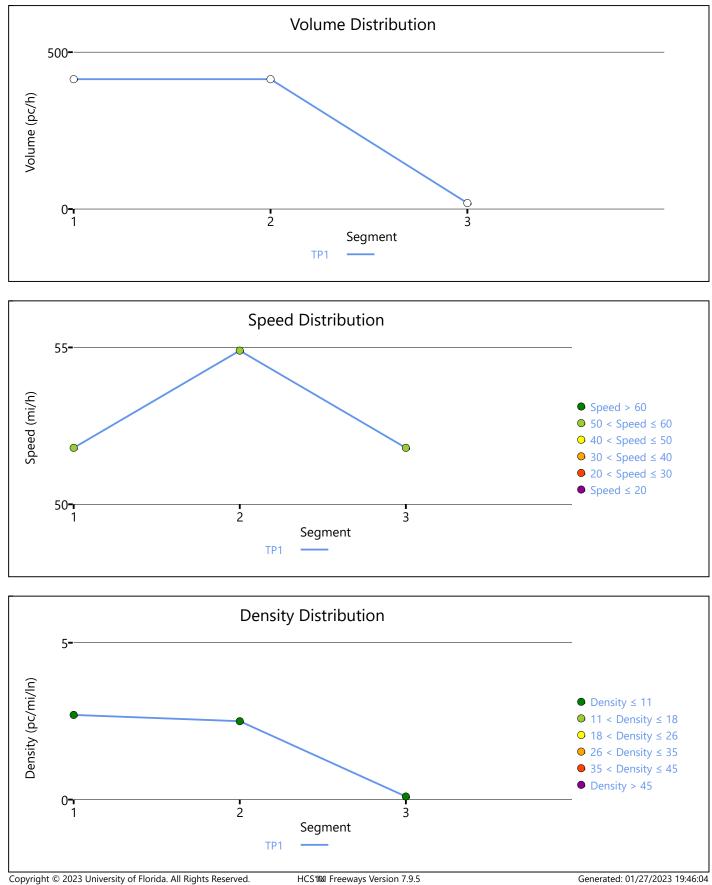


NJ Turnpike - Eastern Spur SB PM - Existing.xuf

Generated: 01/27/2023 19:46:43

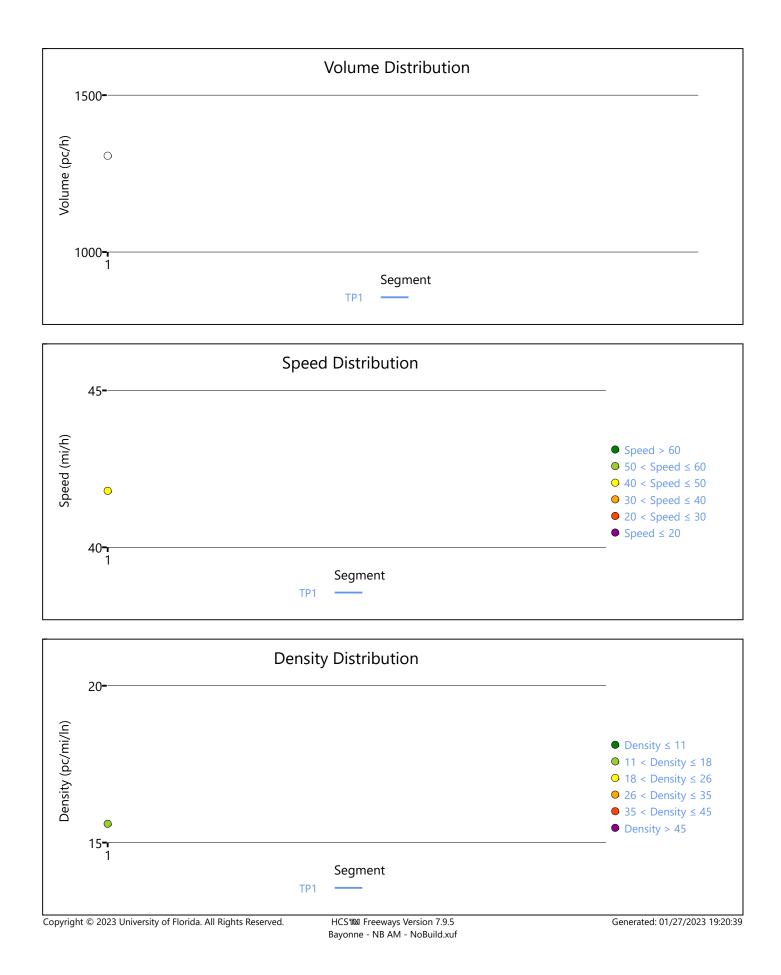
Info	_				.37 FIE	eeway F	-acilitié	es Re	eport					
	rmati	ion	_	_	_			_	_	_	_			_
				CJ			Date					4/21/2022		
				WSP			Analysis Year					Existing		
n							Time Ana	yzed				LN		
escriptio	n			CBD			Units					U.S. Custo	mary	
Glob	al In	put												
ty, pc/n	ni/ln			190.0			Density at	Capaci	ity, pc/r	ni/ln		45.0		
charge	Capac	ity Drop	o, %	7			Total Segr	nents				3		
ysis Per	iods			1			Analysis P	eriod D	uration	, min		15		
ngth, m	i			1.29										
Segn	nent	Data												
C	Coded			Analyzed			Name			L	.ength	ft	Lane	es
	Basic			Basic					2500		3			
D	iverge			Basic		_				1800		3		
	Basic			Basic							2500) 3		
Segn	nent	Data												
						Segment	t 1: Basi	c						
РН	IF	fH	IV	-										LOS
0.9	4	0.8	91	41	4	66	54	0.	06	51	.8	2	7	A
				<u> </u>	Se	egment 2	2: Diver	ge						
PH	F	fH	IV					-						LOS
F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
0.94	0.94	0.891	0.899	414	395	6750	4200	0.06	0.09	54.9	55.0	2.5	2.5	А
					9	Segment	t 3: Basi	c						
PH	IF	fH	IV											LOS
0.9	4	0.7	34	19)	66	54	0.	00	51	.8	0	.1	А
Anal	ysis I	Result	ts											
Speed, mi/h Density, pc/mi/ln						Densi	ty, veh/mi	/In	Tra	vel Tin	ne, mir	n	LOS	
	53.0			1.7			1.5			1.50	0		А	
Over	all R	esults	5											
an Spee	ed, mi/l	h		53.0			Density, v	eh/mi/l	n			1.5		
ravel Tir	me, mi	n		1.50			Density, p	c/mi/ln				1.7		
jes														
i 1				Ramp se	gment len	gth is longe	er than 150	0 feet f	for segr	nent 2.				
	Glob ty, pc/n charge /sis Per agth, m Segn C C Segn C PH 0.9 PH 0.9 PH 0.9 PH 0.9 PH 0.9 PH 0.9 PH 0.9 C 0.9 PH 0.9	ty, pc/mi/ln charge Capace /sis Periods for the minimate Segitemate Segitemate Basice Basice Basice Segitemate Basice Coded Basice Coded Basice Coded Cod	Global Input ty, pc/mi/ln charge Capacity Drop risis Periods rigith, mi Segwent Data Basic Diverge Basic Segwent Data Segwent Coded Basic Diverge Basic PHF 0.94 0.95 Group PHF fit 0.94 0.95 0.94 0.95 Group Sovertal Group Grop Grop <td>Global Input ty, pc/mi/ln charge Capacity Drop, % r/sis Periods Seguerent Data Basic 0 Basic 1 Basic 1 Basic 1 Basic 1 Basic 1 PHF fH PHF fH Q.94 0.891 0.94 0.891 0.94 0.891 PHF fH PHF fH Q.94 0.891 0.94 0.941 0.95 0.891 Mainting 1 Gase 1 Amathing 1 Size 1 Gase 1 Amathing 1 Size 1 Gase 1 Gase 1 Gase 1 <td>Global Input 190.0 ty, pc/mi/ln 190.0 charge Capacity Drop X 1 r/sis Periods 1 r/sis Periods 1.29 agth, mi 1.29 Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic PHF fHV PHF fHV PHF fHV PHF fHV PHF fHV PHF fHV Speed, mi/h 0.30 Goverall Results 53.0 avel Time, min 53.0</td><td>Giobal Input190.0ty, pc/mi/ln190.0charge Capacity Drop, %7rsis Periods1rsis Periods1coded1.29Segwent DataBasic1Basic8DivergeBasic8Basic8Basic8Basic8Basic8PHFfHVFlow Rate (pc/h)0.940.940.8910.899414395PHFfHVFreewayRampPHFfHVFreewayRampPHFfHVFreewayRampPHFfHVFreewayRampolsocolsacolsaSalocolsacolsafHVFreewayRampolsocolsacolsaSalocolsaSalocolsaSalocolsaSalo</td><td>Global Input190.0charge Capacity Drop, %7rsis Periods1Ingth, mi1.29Segment DataGoded AnalyzedAnalyzedBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicSegmentSegmentPHFfHVFlow Rame (pc/h)Gapa (pc/O.940.8910.8994.143956.750SegmentSegmentPHFfHVFlow Rame (pc/h)Gapa (pc/h)O.940.8910.8994.143956.750SegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegment<</td><td>Imput Parameter in the second secon</td><td>Global Input Basic 190.0 Density at Capacit Coded Analysis Period D Segment Data Coded Analyzed Name Basic Diverge Basic Diverge Basic Diverge Basic Coded Name Segment Data Segment Data Segment Data Segment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) Qapacity (pc/h) Open="2">Segment 2: Diverge PHF fHV Flow Rate (pc/h) Qapacity (pc/h) Qapacity (pc/h) Qapacity Qapacity (pc/h) </td></td>	Global Input ty, pc/mi/ln charge Capacity Drop, % r/sis Periods Seguerent Data Basic 0 Basic 1 Basic 1 Basic 1 Basic 1 Basic 1 PHF fH PHF fH Q.94 0.891 0.94 0.891 0.94 0.891 PHF fH PHF fH Q.94 0.891 0.94 0.941 0.95 0.891 Mainting 1 Gase 1 Amathing 1 Size 1 Gase 1 Amathing 1 Size 1 Gase 1 Gase 1 Gase 1 <td>Global Input 190.0 ty, pc/mi/ln 190.0 charge Capacity Drop X 1 r/sis Periods 1 r/sis Periods 1.29 agth, mi 1.29 Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic PHF fHV PHF fHV PHF fHV PHF fHV PHF fHV PHF fHV Speed, mi/h 0.30 Goverall Results 53.0 avel Time, min 53.0</td> <td>Giobal Input190.0ty, pc/mi/ln190.0charge Capacity Drop, %7rsis Periods1rsis Periods1coded1.29Segwent DataBasic1Basic8DivergeBasic8Basic8Basic8Basic8Basic8PHFfHVFlow Rate (pc/h)0.940.940.8910.899414395PHFfHVFreewayRampPHFfHVFreewayRampPHFfHVFreewayRampPHFfHVFreewayRampolsocolsacolsaSalocolsacolsafHVFreewayRampolsocolsacolsaSalocolsaSalocolsaSalocolsaSalo</td> <td>Global Input190.0charge Capacity Drop, %7rsis Periods1Ingth, mi1.29Segment DataGoded AnalyzedAnalyzedBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicSegmentSegmentPHFfHVFlow Rame (pc/h)Gapa (pc/O.940.8910.8994.143956.750SegmentSegmentPHFfHVFlow Rame (pc/h)Gapa (pc/h)O.940.8910.8994.143956.750SegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegment<</td> <td>Imput Parameter in the second secon</td> <td>Global Input Basic 190.0 Density at Capacit Coded Analysis Period D Segment Data Coded Analyzed Name Basic Diverge Basic Diverge Basic Diverge Basic Coded Name Segment Data Segment Data Segment Data Segment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) Qapacity (pc/h) Open="2">Segment 2: Diverge PHF fHV Flow Rate (pc/h) Qapacity (pc/h) Qapacity (pc/h) Qapacity Qapacity (pc/h) </td>	Global Input 190.0 ty, pc/mi/ln 190.0 charge Capacity Drop X 1 r/sis Periods 1 r/sis Periods 1.29 agth, mi 1.29 Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic Basic PHF fHV PHF fHV PHF fHV PHF fHV PHF fHV PHF fHV Speed, mi/h 0.30 Goverall Results 53.0 avel Time, min 53.0	Giobal Input190.0ty, pc/mi/ln190.0charge Capacity Drop, %7rsis Periods1rsis Periods1coded1.29Segwent DataBasic1Basic8DivergeBasic8Basic8Basic8Basic8Basic8PHFfHVFlow Rate (pc/h)0.940.940.8910.899414395PHFfHVFreewayRampPHFfHVFreewayRampPHFfHVFreewayRampPHFfHVFreewayRampolsocolsacolsaSalocolsacolsafHVFreewayRampolsocolsacolsaSalocolsaSalocolsaSalocolsaSalo	Global Input190.0charge Capacity Drop, %7rsis Periods1Ingth, mi1.29Segment DataGoded AnalyzedAnalyzedBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicBasicSegmentSegmentPHFfHVFlow Rame (pc/h)Gapa (pc/O.940.8910.8994.143956.750SegmentSegmentPHFfHVFlow Rame (pc/h)Gapa (pc/h)O.940.8910.8994.143956.750SegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegmentSegment<	Imput Parameter in the second secon	Global Input Basic 190.0 Density at Capacit Coded Analysis Period D Segment Data Coded Analyzed Name Basic Diverge Basic Diverge Basic Diverge Basic Coded Name Segment Data Segment Data Segment Data Segment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) Qapacity (pc/h) Open="2">Segment 2: Diverge PHF fHV Flow Rate (pc/h) Qapacity (pc/h) Qapacity (pc/h) Qapacity Qapacity (pc/h) Qapacity (pc/h)					

WARNING 2 Length of accel/decel lane is longer than 1500 feet for segment 2.										
Comments										

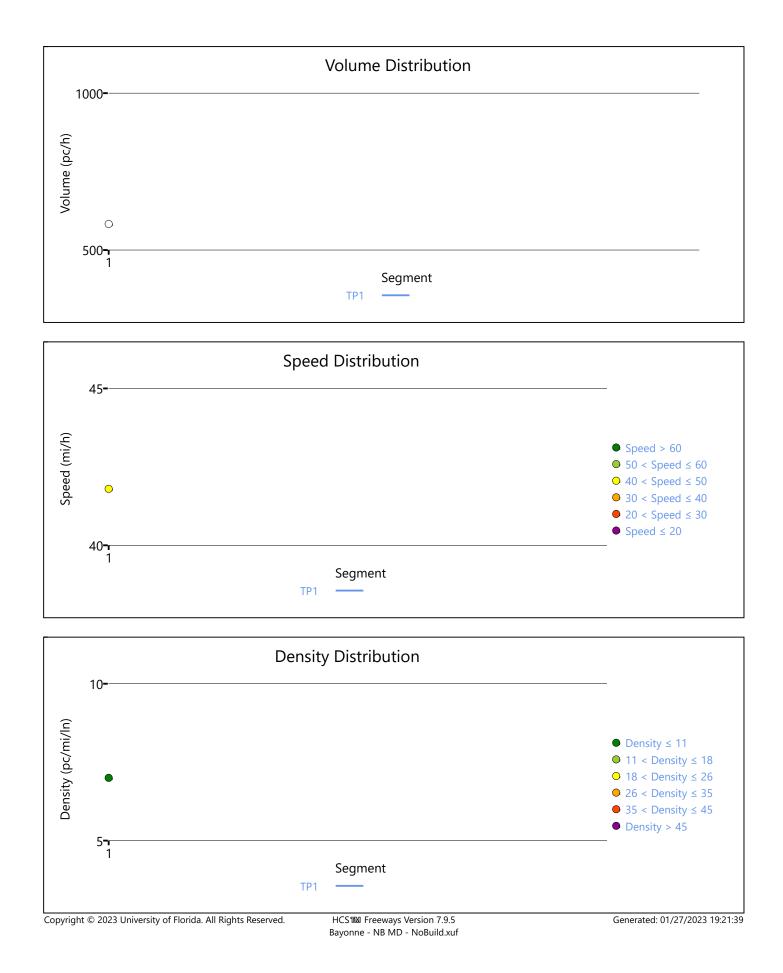


NJ Turnpike - Eastern Spur SB LN - Existing.xuf

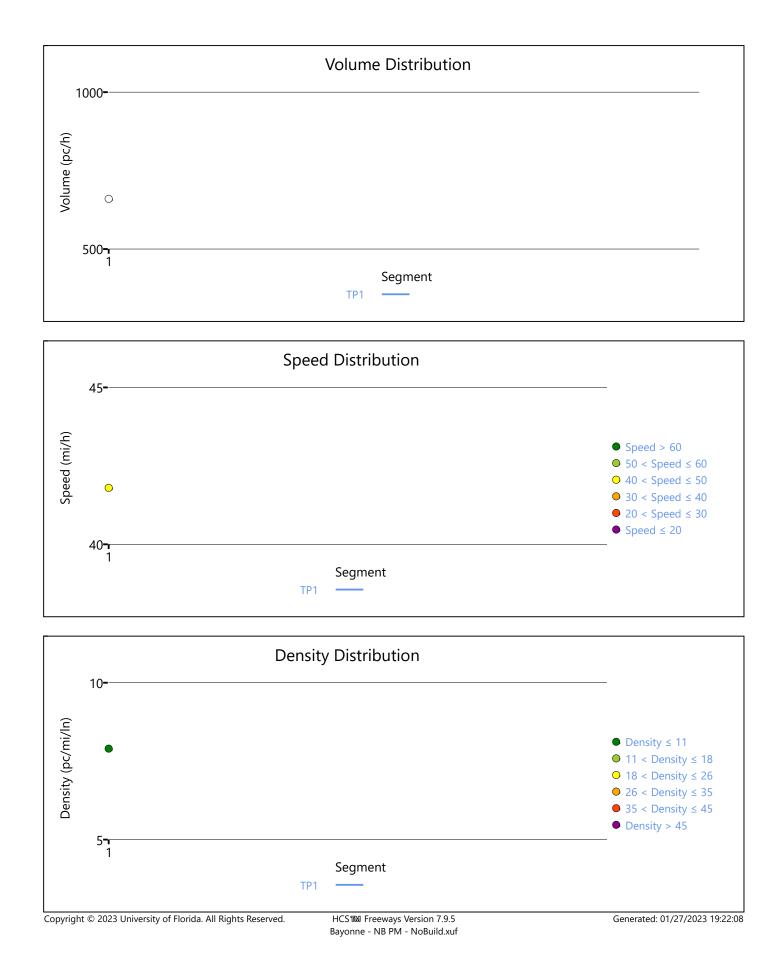
			HCS7	Freeway	[,] Facilitie	es Repo	ort				
Projec	t Informati	on						_	_		
Analyst	t mormati		CJ		Date			4/21/20	22		
Agency			WSP		Analysis Y	ear		NoBuild			
Jurisdicti	on				Time Ana			AM			
	escription		CBD		Units	<u></u>		U.S. Cus	stomary		
Facility	/ Global In	put	1								
Jam Den	sity, pc/mi/ln		190.0		Density at	: Capacity, p	45.0				
Queue Discharge Capacity Drop, %			7		Total Seg	ments		1			
Total Ana	lysis Periods		1		Analysis F	eriod Durati	on, min	15			
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed	Analyzed Name Length, ft							
1	Basic		Basic				5280)	2		
Facility	y Segment	Data									
				Segme	nt 1: Basi	ic					
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h)		Density c/mi/ln)	LOS	
1	0.94	0.888	1307		4400	0.30	41.8		15.6	В	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	'In Der	nsity, veh/m	i/In	Travel Time, mi	n	LOS		
1	41.8		15.6		13.9		1.40		В		
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	า	41.8		Density, v	eh/mi/ln		13.9			
Average Travel Time, min 1.40						Density, pc/mi/ln 15.6					
Messa	ges							-			
Comm	ents										



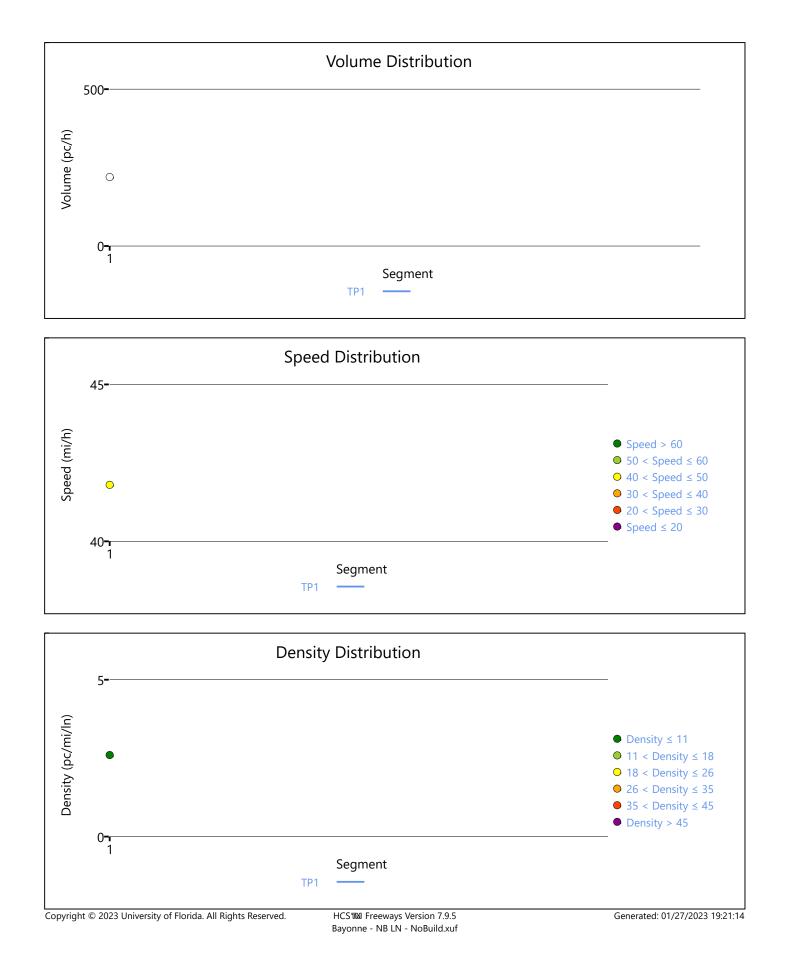
			HCS7	Freeway	Facilitie	es Repoi	ť				
Projec	t Informati	on			_		_	_	_		
Analyst			CJ		Date			4/21/20	22		
Agency			WSP		Analysis Y	ear		NoBuild			
Jurisdictio	on			Time Ana	yzed		MD				
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, po	/mi/ln	45.0			
Queue Discharge Capacity Drop, %			7		Total Segr	ments		1			
Total Ana	llysis Periods		1		Analysis P	eriod Duratio	on, min	15			
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Length	, ft	Land	es	
1	Basic		Basic				5280)	2		
Facility	y Segment	Data									
				Segme	nt 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h)		0ensity c/mi/ln)	LOS	
1	0.94	0.792	583	4	400	0.13	41.8		7.0	A	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	'In Den	sity, veh/m	i/ln T	ravel Time, mi	n	LOS		
1	41.8		7.0		5.5		1.40		А		
Facility	y Overall R	esults									
Space Mean Speed, mi/h 41.8						eh/mi/ln		5.5			
Average Travel Time, min 1.40						Density, pc/mi/ln 7.0					
Messa	ges										
Comm	ents										



			HCS7	Freewa	ıy Facilitie	es Rep	ort	:				
Projec	t Informati	on		_			_	_	_	_	_	
Analyst			CJ		Date				4/21/2022			
Agency			WSP		Analysis Y	Analysis Year						
Jurisdictio	on	Time Anal	Time Analyzed									
Project D	escription		CBD		Units				U.S. Cus	tomary		
Facility	y Global In _l	put										
Jam Dens	sity, pc/mi/ln		190.0		Density at	Density at Capacity, pc/mi/ln						
Queue Discharge Capacity Drop, %			7		Total Segr	nents			1			
Total Ana	llysis Periods		1		Analysis P	eriod Dura	ation	, min	15			
Facility Le	ength, mi		1.00									
Facility	y Segment	Data										
No.	Coded		Analyzed		Name			Length	, ft	Lan	Lanes	
1	Basic		Basic					5280)	2		
Facility	y Segment	Data										
				Segm	ent 1: Basi	c						
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio		Speed (mi/h)	Density (pc/mi/ln)		LOS	
1	0.94	0.919	660		4400	0.15		41.8		7.9	А	
Facility	y Analysis I	Results										
AP	Speed, m	i/h	Density, pc/mi/	/In D	ensity, veh/mi	i/In	Tra	vel Time, mi	n	LOS		
1	41.8		7.9		7.3			1.40		А		
Facility	y Overall R	esults										
Space Me	ean Speed, mi/l	<u>ו</u>	41.8		Density, v	eh/mi/ln			7.3			
Average Travel Time, min 1.40						Density, pc/mi/ln 7.9						
Messa	ges											
Comm	ents											



			HCS7	Freewa	ay Facilitie	es Repo	rt			
Projec	t Informati	ion		_			_	_	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NoBuild		
Jurisdictio	on				Time Anal	yzed		LN		
Project D	escription		CBD		Units		U.S. Cus	tomary		
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, po	45.0			
Queue Discharge Capacity Drop, %			7		Total Segr	nents		1		
Total Ana	llysis Periods		1		Analysis P	eriod Durati	on, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed	nalyzed Name Length, ft						
1	Basic		Basic				5280)	2	
Facility	y Segment	Data								
				Segm	ent 1: Basi	с				
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)		LOS
1	0.94	0.847	220		4400	0.05	41.8		2.6	A
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	/In D	ensity, veh/mi	/In 1	ravel Time, mi	n	LOS	
1	41.8		2.6		2.2		1.40		А	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		2.2		
Average	Travel Time, mi	n	1.40		Density, p	c/mi/ln		2.6		
Messa	ges									
Comm	ents									



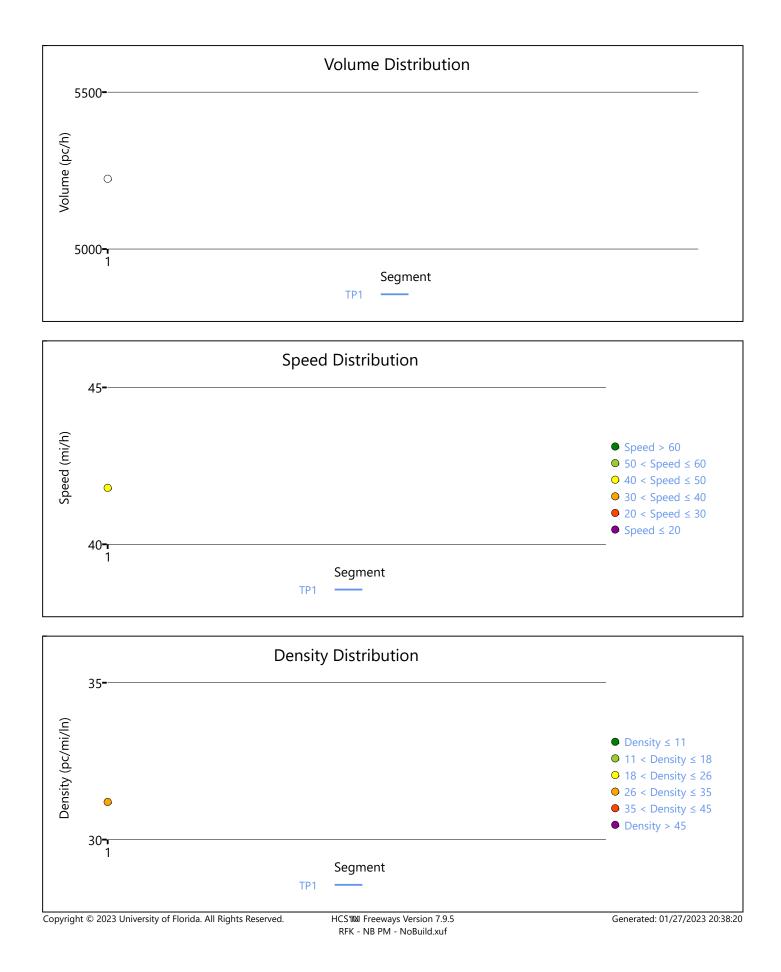
			HCS7	Freewa	y Facilitie	es Repor	·t				
Projec	t Informati	on			,			-	_	-	
Analyst			CJ		Date			4/21/20	22		
Agency			WSP		Analysis Y	ear	NoBuild				
Jurisdicti	on				Time Ana	yzed	AM				
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, pc,	45.0				
Queue Discharge Capacity Drop, %			7		Total Segr	nents		1			
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	n, min	15			
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Length	, ft	Lan	anes	
1	Basic		Basic				3634	1	4		
Facility	y Segment	Data									
				Segm	ent 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS	
1	0.94	0.911	5343		8800	0.61	41.8		32.0	D	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	În De	ensity, veh/mi	i/In T	ravel Time, mi	n	LOS		
1	41.8		32.0		29.2		1.00		D		
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		29.2			
Average Travel Time, min 1.00						Density, pc/mi/ln 32.0					
Messa	ges				•						
Comm	ents										



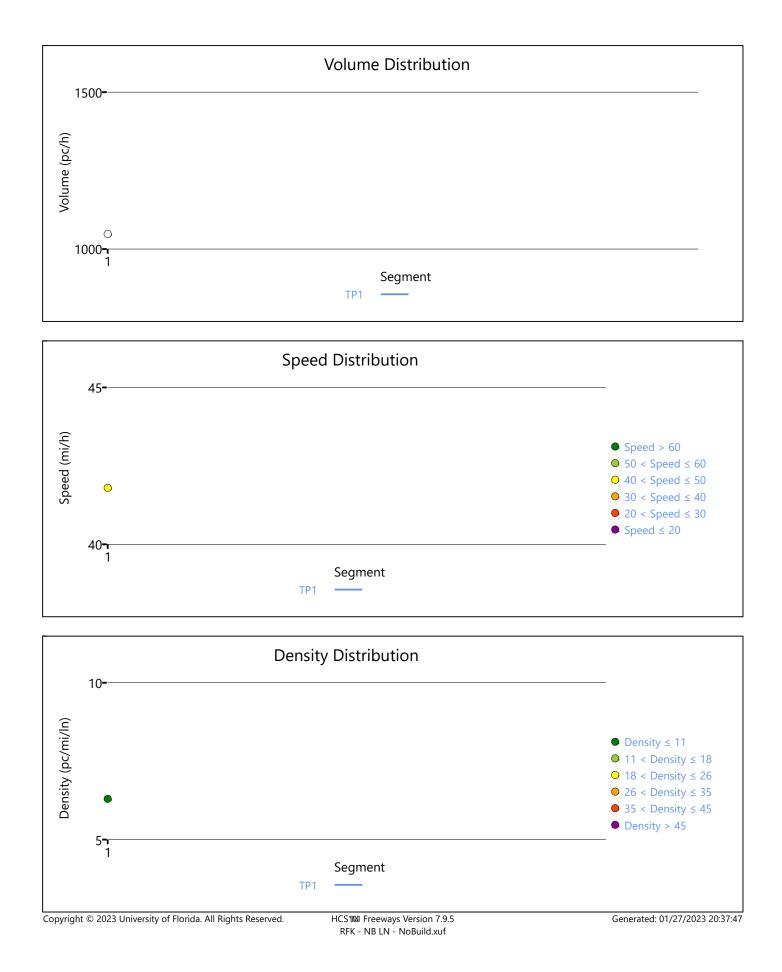
			HCS7	Freeway	Facilitie	es Repor	t				
Projec	t Informati	on			_	_	_	_	_	_	
Analyst			CJ		Date		4/21/20	22			
Agency			WSP		Analysis Y	ear		NoBuild			
Jurisdicti	on				Time Ana	yzed		MD			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity, pc	45.0				
Queue Discharge Capacity Drop, %			7		Total Segr	nents		1			
Total Ana	llysis Periods		1		Analysis P	eriod Duratic	n, min	15			
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name	Length	, ft	Land	es		
1	Basic		Basic				3634	1	4		
Facility	y Segment	Data									
				Segme	nt 1: Basi	с					
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS	
1	0.94	0.906	5144	8	3800	0.58	41.8		30.8	D	
Facility	y Analysis I	Results									
АР	Speed, m	i/h	Density, pc/mi/	'In Der	sity, veh/mi	/ln T	ravel Time, mi	n	LOS		
1	41.8		30.8		27.9		1.00		D		
Facility	y Overall R	esults									
Space M	ean Speed, mi/l	า	41.8		Density, v	eh/mi/ln		27.9			
Average Travel Time, min 1.00						Density, pc/mi/ln 30.8					
Messa	ges										
Comm	ents										



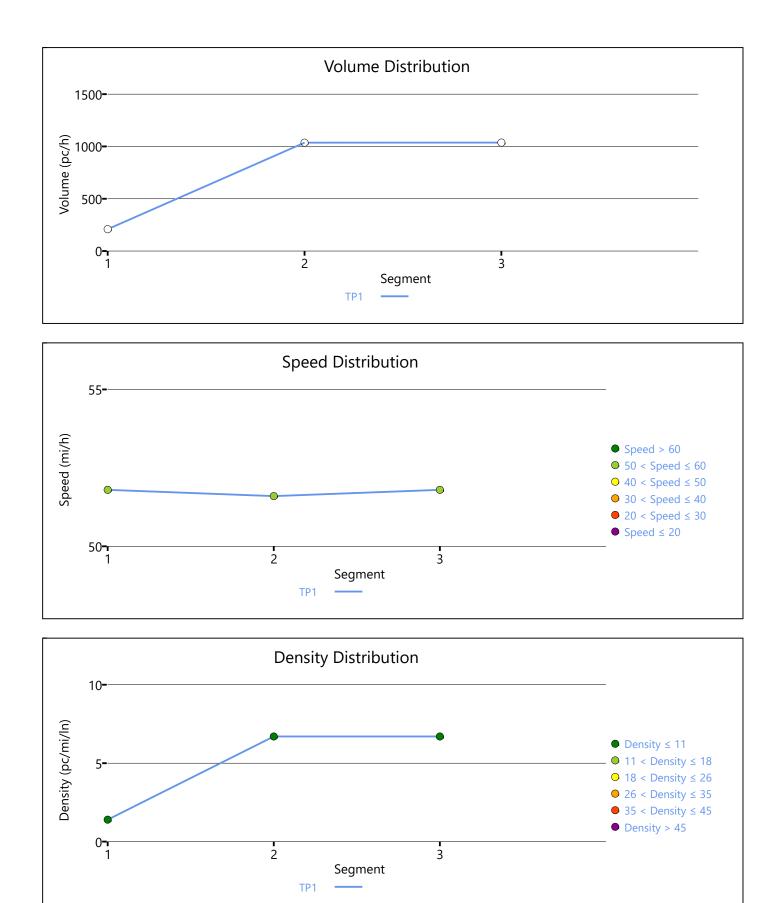
			HCS7	Freev	way Facilitie	es Rep	ort					
Proiec	t Informati	on						_	-	_		
Analyst			CJ		Date				4/21/202	22		
Agency			WSP		Analysis Y	Analysis Year						
Jurisdictio	on				Time Anal	yzed			PM			
Project D	escription		CBD		Units				U.S. Cus	tomary		
Facility	y Global In	put										
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/m	ii/In	45.0			
Queue Discharge Capacity Drop, %			7		Total Segr	nents			1			
Total Ana	lysis Periods		1		Analysis P	eriod Dura	ation,	min	15			
Facility Le	ength, mi		0.69									
Facility	y Segment	Data										
No.	Coded		Analyzed	nalyzed Name Length, ft							es	
1	Basic		Basic					3634		4		
Facility	y Segment	Data										
				Seg	gment 1: Basi	с						
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	,	Speed (mi/h)		ensity :/mi/ln)	LOS	
1	0.94	0.958	5224		8800	0.59		41.8		31.2	D	
Facility	y Analysis I	Results										
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Trav	vel Time, miı	1	LOS		
1	41.8		31.2		29.9			1.00		D		
Facility	y Overall R	esults										
Space Me	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln			29.9			
Average Travel Time, min 1.00						Density, pc/mi/ln 31.2						
Messa	ges											
Comm	ents											



			HCS7	Freeway	y Facilitie	es Repo	ort				
Projec	t Informati	ion						_	-	_	
Analyst			CJ		Date				4/21/2022		
Agency			WSP		Analysis Y	Analysis Year					
Jurisdictio	on	Time Ana	lyzed			LN					
Project D	escription		CBD		Units				U.S. Cus	tomary	
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Density at Capacity, pc/mi/ln					
Queue Discharge Capacity Drop, % 7			7		Total Segr	nents			1		
Total Ana	llysis Periods		1		Analysis P	eriod Dura	ation,	min	15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lan	es
1	Basic		Basic					3634		4	
Facility	y Segment	Data									
				Segme	ent 1: Basi	ic					
АР	PHF	fHV	Flow Rate (pc/h)		apacity (pc/h)	d/c Ratio		Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.879	1048		8800	0.12		41.8		6.3	A
Facility	y Analysis I	Results									
АР	Speed, m	i/h	Density, pc/mi/	/In De	nsity, veh/m	i/In	Trav	el Time, mii	ו	LOS	
1	41.8		6.3		5.5			1.00		А	
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	Density, v	eh/mi/ln			5.5					
Average [·]	Travel Time, mii	n	1.00		Density, p	c/mi/ln			6.3		
Messa	ges										
Comm	ents										



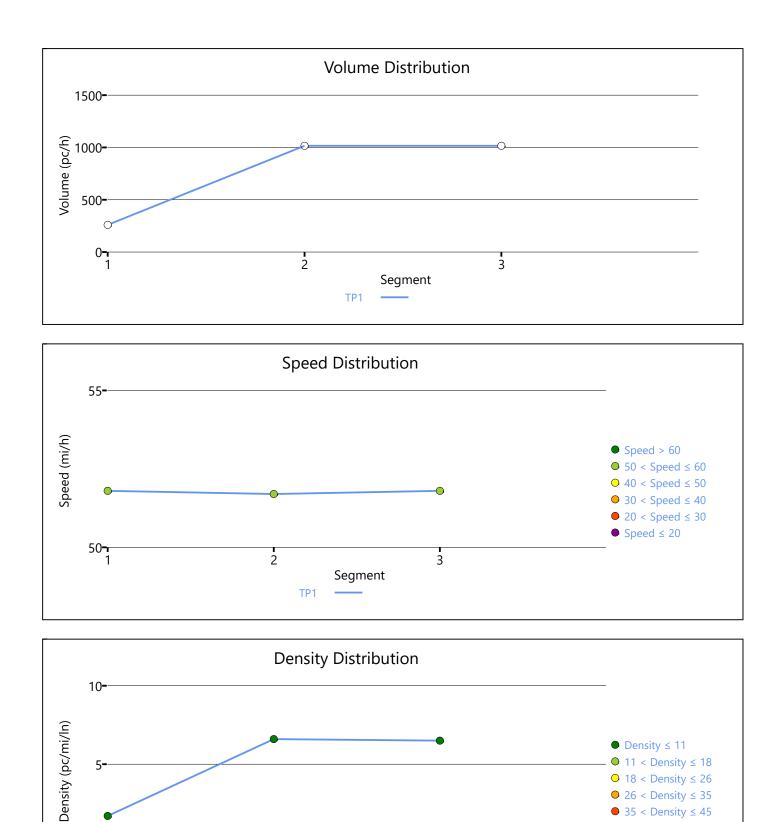
					HC	S7 Fre	eeway l	aciliti	es Re	eport					
Proje	ct Info	ormat	ion	_	_	_		_	_		_	_	_		_
Analyst					CJ			Date					4/21/202	2	
Agency					WSP			Analysis Y	′ear				No Build		
Jurisdic	tion							Time Ana	lyzed				AM		
Project	Descript	on			CBD			Units					U.S. Cust	omary	
Facili	ty Glo	bal In	put												
Jam De	nsity, pc,	′mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharg	e Capao	city Dro	р, %	7			Total Seg	nents				3		
Total Ar	nalysis Pe	riods			1			Analysis F	Period [Duration	ı, min		15		
Facility	Length, r	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lan	25
1		Basic			Basic							2500		3	
2		Merge			Merge			-				663		3	
3		Basic			Basic							2500		3	
Facili	ty Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
АР	P PHF fHV				Flow (pc)		Capa (pc			l/c atio		eed i/h)		ensity /mi/ln)	LOS
1	0.	94	0.7	772	20	9	66	54	0.	.03	51	.8		1.4	A
						S	egment	2: Mer	ge						
AP	Р	HF	fł	łV	Flow (pc)		Capa (pc)			l/c atio		eed i/h)		ensity /mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freewa	y Ramp	
1	0.94	0.94	0.772	0.849	1036	827	6750	4000	0.15	0.21	51.6	51.3	6.7	8.4	А
						:	Segmen	t 3: Basi	ic						
AP	Р	HF	fł	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		ensity /mi/ln)	LOS
1	0.	94	3.0	333	103	37	66	54	0.	.16	51	.8		6.7	А
Facili	ty Ana	lysis	Resul	ts											
АР	S	peed, n	ni/h		Density, p	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, mir	ו	LOS	
1		51.8			4.4			3.6			1.20)		А	
Facili	ty Ove	rall R	esult	s											
Space N	Aean Spe	ed, mi/	'n		51.8			Density, v	eh/mi/	In			3.6		
Average	e Travel T	ime, m	in		1.20			Density, p	oc/mi/lr	۱			4.4		
Mess	ages														
Comr	nents														



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					HC	S7 Fre	eeway l	aciliti	es Re	eport					
Proje	ct Info	rmat	ion	_	_	_		_	_		_	-	_	_	
Analyst					CJ			Date					4/21/202	2	
Agency					WSP			Analysis Y	′ear				No Build		
Jurisdic	tion							Time Ana	lyzed				MD		
Project	Descripti	on			CBD			Units					U.S. Cust	omary	
Facili	ty Glol	oal In	put												
Jam De	nsity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharg	e Capao	ity Dro	р, %	7			Total Seg	ments				3		
Total Ar	nalysis Pe	riods			1			Analysis P	Period D	Duration	ı, min		15		
Facility	Length, r	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lan	es
1		Basic			Basic							2500		3	
2		Merge			Merge			-				663		3	
3		Basic			Basic							2500		3	
Facili	ty Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
АР	PI	HF	fł	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		ensity /mi/ln)	LOS
1	0.	94	0.7	797	26	0	66	54	0.	.04	51	.8		1.7	A
						S	egment	2: Mer	ge						
AP	PI	HF	fł	IV	Flow (pc/		Capa (pc)			l/c atio		eed i/h)		ensity /mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freewa	y Ramp	
1	0.94	0.94	0.797	0.801	1016	756	6750	4000	0.15	0.19	51.7	51.3	6.6	8.1	А
						:	Segmen	t 3: Basi	ic						
AP	PI	HF	fł	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		ensity /mi/ln)	LOS
1	0.	94	0.8	300	101	16	66	54	0.	.15	51	.8		6.5	А
Facili	ty Ana	lysis	Resul	ts											
АР	SI	peed, n	ni/h		Density, po	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, mir	n 🗌	LOS	
1		51.8			4.4			3.5			1.20)		А	
Facili	ty Ove	rall R	esult	5											
Space N	/lean Spe	ed, mi/	'n		51.8			Density, v	eh/mi/	In			3.5		
Average	e Travel T	ime, m	in		1.20			Density, p	c/mi/lr	1			4.4		
Mess	ages														
Comr	nents														



3

TP1

Segment

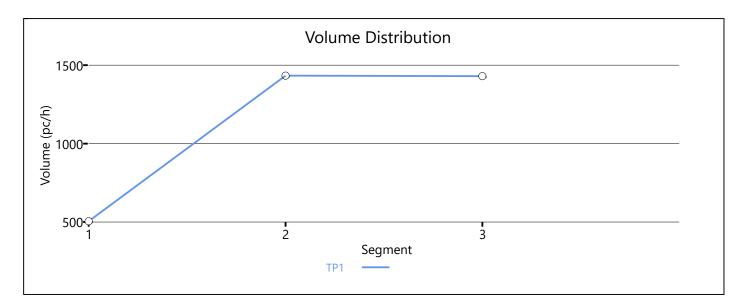
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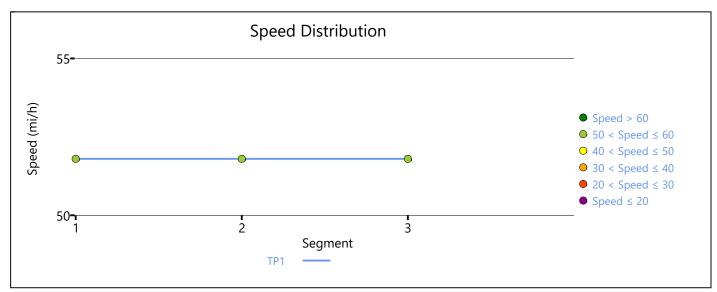
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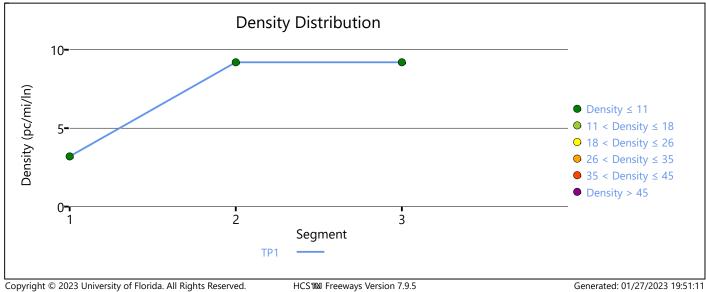
• Density > 45

0**-**-1

					HC	S7 Fr€	eeway F	- acilitie	es Re	eport					
Proje	ct Info	rmat	ion	_					_	_	_	_			
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Y	'ear				No Build		
Jurisdict	ion							Time Ana	lyzed				PM		
Project	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	ty Gloł	oal In	put												
Jam Der	nsity, pc/	mi/ln			190.0			Density at	: Capac	ity, pc/r	mi/In		45.0		
Queue [Discharge	e Capac	ty Dro	o, %	7			Total Seg	nents				3		
Total An	alysis Pe	riods			1			Analysis F	eriod D	Ouration	ı, min		15		
Facility I	_ength, n	ni			1.07										
Facilit	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lane	25
1		Basic			Basic							2500		3	
2		Merge			Merge			-				663		3	
3		Basic			Basic							2500		3	
Facilit	ty Seg	ment	Data												
							Segment	t 1: Basi	ic						
АР	PI	łF	fŀ	IV	Flow (pc/		Capa (pc,			/c itio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.9	19	50	5	66	54	0.	08	51	.8	3	3.2	A
						S	egment	2: Mer	ge						
АР	PI	łF	fŀ	IV	Flow (pc/		Capa (pc,			/c tio		eed i/h)		nsity ni/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.919	0.923	1433	928	6750	4000	0.21	0.23	51.8	51.3	9.2	10.5	В
						9	Segment	t 3: Basi	ic						
АР	PI	łF	fŀ	IV	Flow (pc/		Capa (pc,			/c itio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.9	23	143	30	66	54	0.	21	51	.8	9	9.2	А
Facilit	ty Ana	lysis	Resul	ts											
АР	Sp	oeed, n	ni/h		Density, po	c/mi/ln	Densi	ity, veh/m	i/In	Tra	avel Tin	ne, miı	n	LOS	
1		51.8			6.6			6.0			1.20)		А	
Facilit	ty Ove	rall R	esult	5											
Space N	lean Spe	ed, mi/	ĥ		51.8			Density, v	eh/mi/	In			6.0		
Average	e Travel T	ime, mi	in		1.20			Density, p	c/mi/lr	1			6.6		
Messa	ages														
Comn	nents														



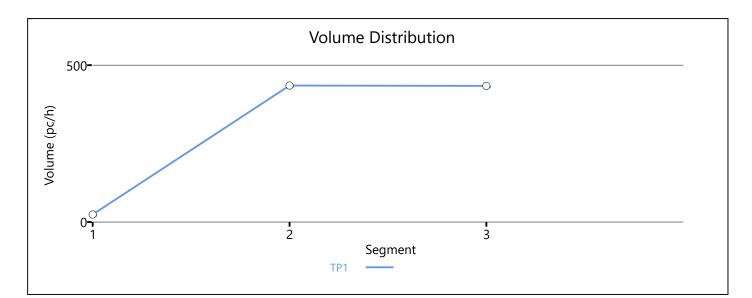


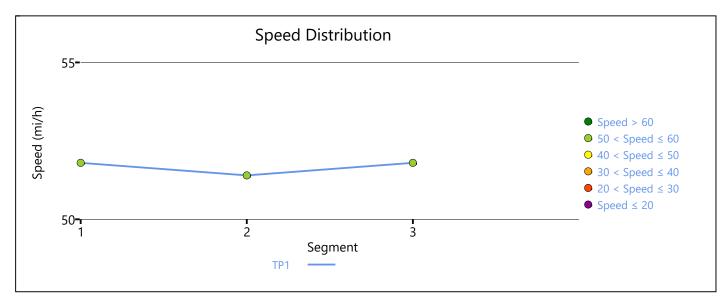


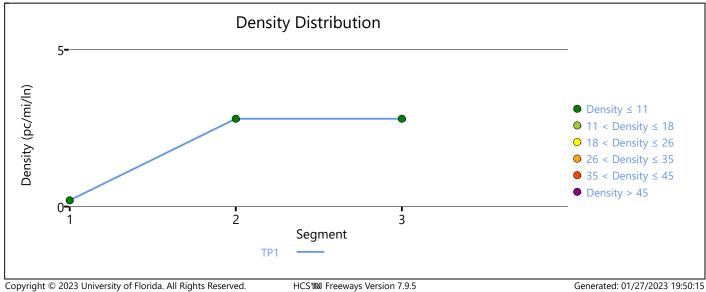
HCSTM Freeways Version 7.9.5 NJ Turnpike - Eastern Spur NB PM - NoBuild.xuf

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					HC	S7 Fre	eeway l	- acilitie	es Re	eport	:				
Proje	ct Info	rmat	ion	_					_	_	_	_			_
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Y	'ear				No Build		
Jurisdict	ion							Time Ana	yzed				LN		
Project	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	ty Gloł	oal In	put												
Jam Der	nsity, pc/	mi/ln			190.0			Density at	: Capac	ity, pc/r	mi/ln		45.0		
Queue [Discharge	e Capac	tity Dro	o, %	7			Total Seg	ments				3		
Total An	alysis Pe	riods			1			Analysis P	eriod D	ouration	ı, min		15		
Facility I	_ength, n	ni			1.07										
Facilit	y Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lane	es
1		Basic			Basic							2500		3	
2		Merge			Merge			-				663		3	
3		Basic			Basic							2500		3	
Facilit	y Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
АР	PI	łF	fŀ	IV	Flow (pc)		Capa (pc			/c itio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.7	23	24	4	66	54	0.	00	5	1.8	C	.2	А
						S	egment	2: Mer	ge						
АР	PI	łF	fŀ	IV	Flow (pc,		Capa (pc)			/c itio		eed i/h)		nsity ni/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.723	0.888	435	411	6750	4000	0.06	0.10	51.4	51.3	2.8	4.5	А
						9	Segmen	t 3: Basi	ic						
АР	PI	łF	fŀ	IV	Flow (pc,		Capa (pc)			/c itio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.8	80	43	4	66	54	0.	07	51	1.8	2	.8	А
Facilit	y Ana	lysis	Resul	ts											
АР	Sp	peed, n	ni/h		Density, p	c/mi/ln	Densi	ity, veh/m	i/In	Tra	avel Tin	ne, mir	n	LOS	
1		51.7			1.7			1.4			1.2	0		А	
Facilit	ty Ove	rall R	esult	5											
Space N	lean Spe	ed, mi/	ĥ		51.7			Density, v	eh/mi/	In			1.4		
Average	Travel T	ime, mi	in		1.20			Density, p	c/mi/lr	1			1.7		
Messa	ages														
Comn	nents														



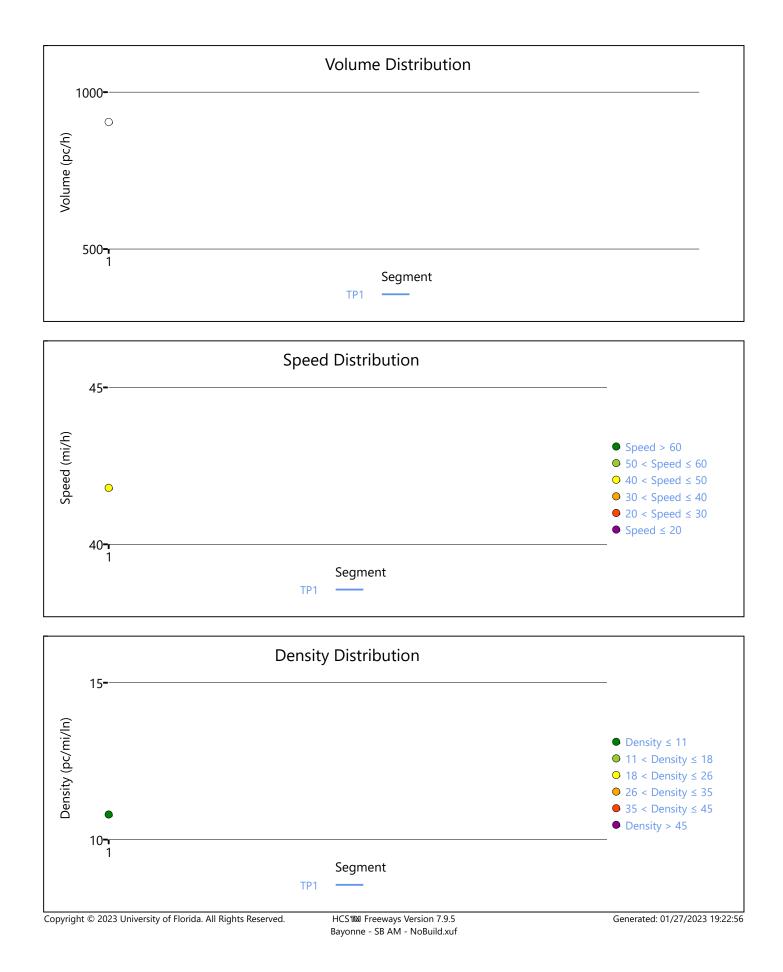




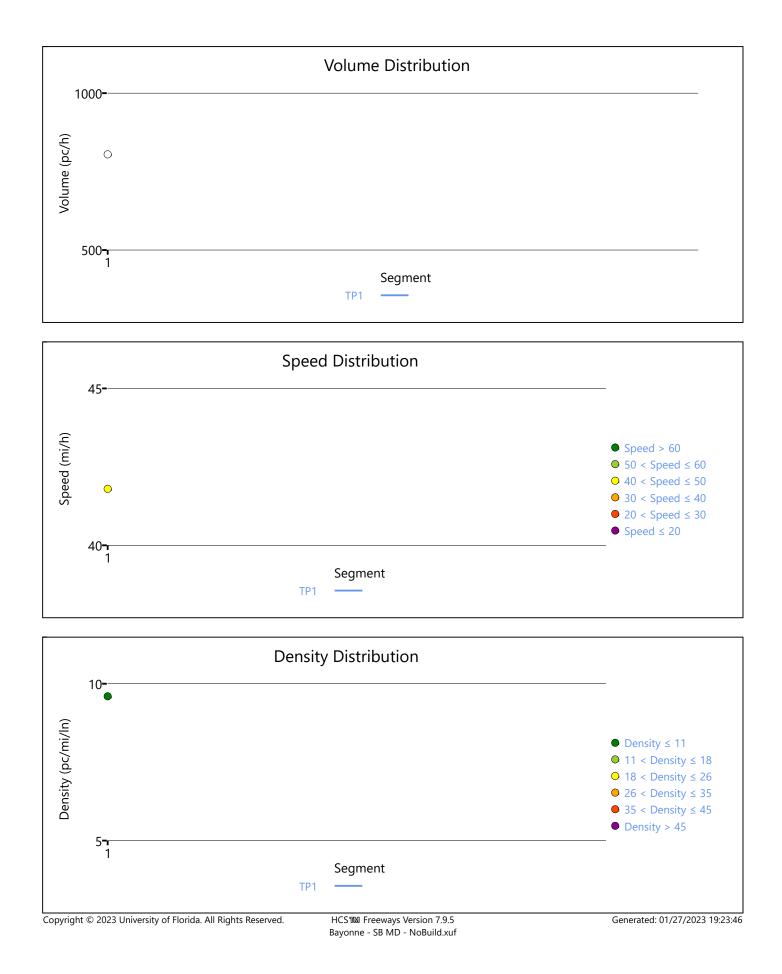
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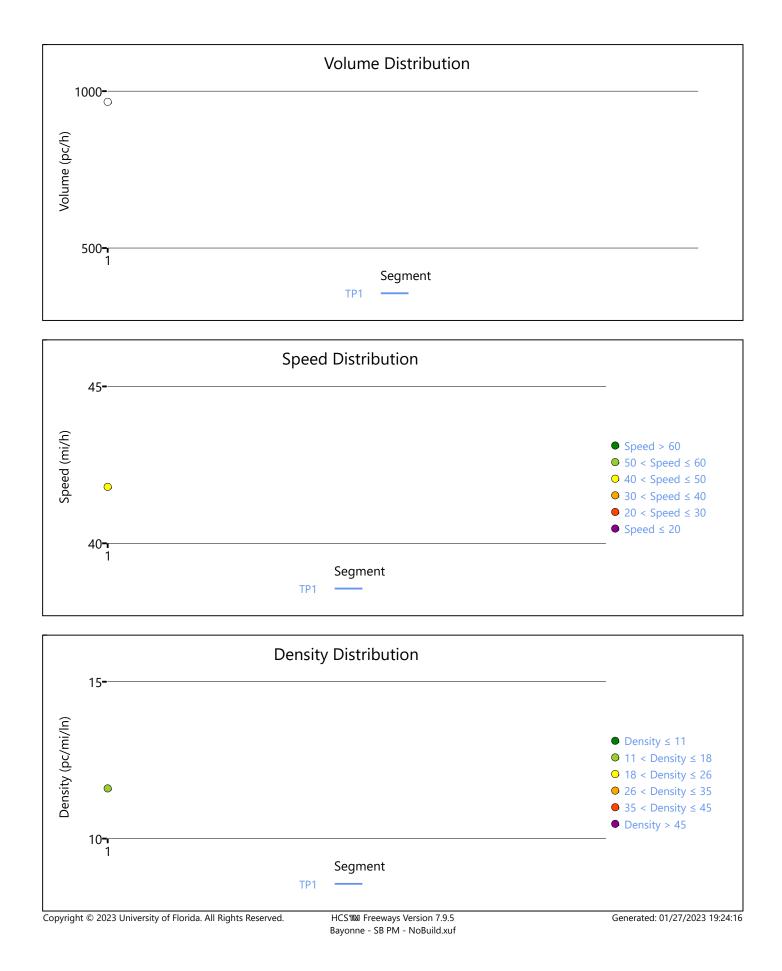
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Projec	t Informati	on						_	_	_
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NoBuild		
Jurisdicti	on				Time Anal	yzed		AM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, p	oc/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Durat	ion, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Lengtł	n, ft	Lan	es
1	Basic		Basic				528	C	2	
Facility	y Segment	Data								
				Segn	nent 1: Basi	с				
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.797	905		4400	0.21	41.8		10.8	A
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	'In D	Density, veh/mi	/In	Travel Time, mi	n	LOS	
1	41.8		10.8		8.6		1.40		А	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	ı	41.8		Density, v	eh/mi/ln		8.6		
Average	Travel Time, mi	า	1.40		Density, p	c/mi/ln		10.8		
Messa	ges									
Comm	ents									



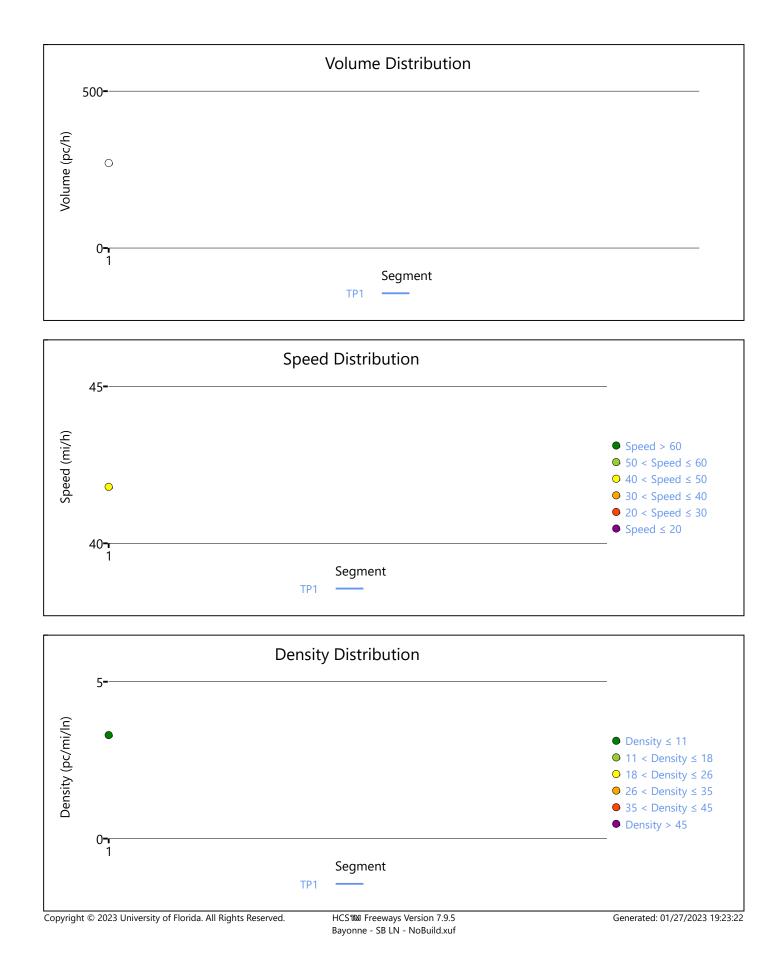
			HCS7	Freewa	ıy Facilitie	es Repo	ort				
Projec	t Informati	on		_		_	_	_	_	_	
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	ear			NoBuild		
Jurisdictio	on				Time Anal	yzed			MD		
Project D	escription		CBD		Units				U.S. Cus	tomary	
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/mi/ln		45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents			1		
Total Ana	llysis Periods		1		Analysis P	eriod Dura	tion, min		15		
Facility Le	ength, mi		1.00								
Facility	/ Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lan	es
1	Basic		Basic					5280)	2	
Facility	y Segment	Data									
				Segm	ent 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)	(Capacity (pc/h)	d/c Ratio		ipeed mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.773	805		4400	0.18		41.8		9.6	A
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	'ln D	ensity, veh/mi	/In	Travel T	ime, mi	n	LOS	
1	41.8		9.6		7.4		1	.40		А	
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	า	41.8		Density, v	eh/mi/ln			7.4		
Average	Travel Time, mi	า	1.40		Density, p	c/mi/ln			9.6		
Messa	ges										
Comm	ents										



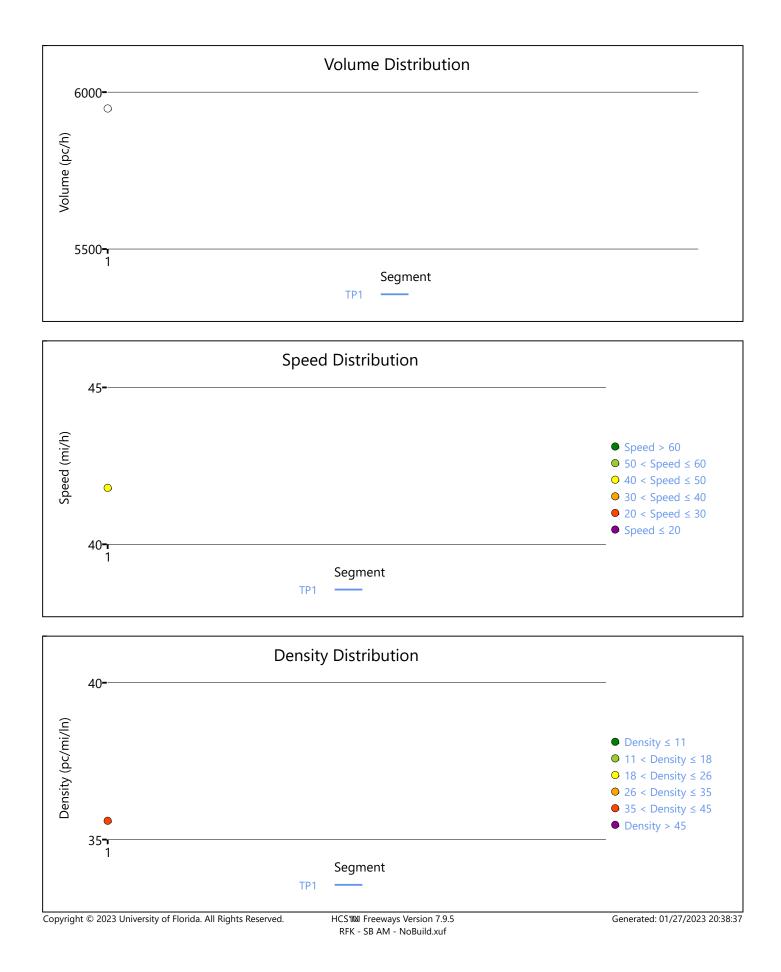
			HCS7	Freew	vay Facilitie	es Repo	ort				
Projec	t Informati	ion						-	-	_	-
Analyst	t mormati		CJ		Date			4/	/21/202	2	
Agency			WSP		Analysis Ye	ear		_	oBuild	- C	
Jurisdicti	on				Time Anal			P			
	escription		CBD		Units)			.S. Cust	omary	
Facility	/ Global In	put									
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/mi/ln	45	5.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segn	nents		1			
Total Ana	lysis Periods		1		Analysis P	eriod Dura	ition, min	15	5		
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Len	gth, ft	:	Lane	es
1	Basic		Basic				5	280		2	
Facility	y Segment	Data									
				Seg	ment 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h			ensity /mi/ln)	LOS
1	0.94	0.896	966		4400	0.22	41.8			11.6	В
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Travel Time,	min		LOS	
1	41.8		11.6		10.4		1.40			В	
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln		10	0.4		
Average	Travel Time, mi	n	1.40		Density, p	c/mi/ln		11	1.6		
Messa	ges										
Comm	ents										



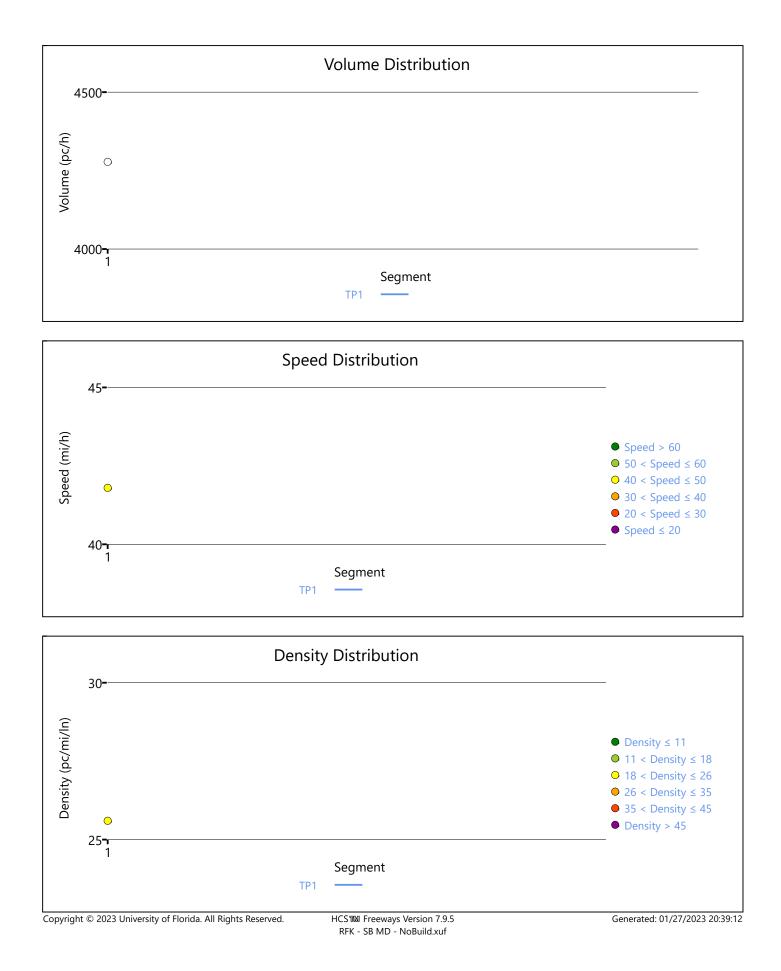
			HCS7	Freeway	Facilitie	es Repor	t			
Projec	t Informati	on			_	_	_	_	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NoBuild		
Jurisdicti	on				Time Anal	yzed		LN		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global Inj	put								
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity, pc,	/mi/ln	45.0		
Queue D	ischarge Capaci	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	n, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment	Data								
				Segmer	nt 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		oacity c/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.812	271	4	400	0.06	41.8		3.3	A
Facility	y Analysis F	Results								
АР	Speed, m	i/h	Density, pc/mi/	'In Den	sity, veh/mi	/In Ti	ravel Time, mi	n	LOS	
1	41.8		3.3		2.7		1.40		А	
Facility	y Overall R	esults								
Space M	ean Speed, mi/ł	า	41.8		Density, v	eh/mi/ln		2.7		
Average	Travel Time, mir	n	1.40		Density, p	c/mi/ln		3.3		
Messa	ges									
Comm	ents									



			HCS7	Freew	vay Facilitie	es Repo	rt			
Projec	t Informati	ion						-	_	-
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Ye	ear		NoBuild		
Jurisdictio	on				Time Anal	yzed		AM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, po	:/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segn	nents		1		
Total Ana	llysis Periods		1		Analysis P	eriod Duratio	on, min	15		
Facility Le	ength, mi		0.69							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	1	4	
Facility	y Segment	Data								
				Seg	ment 1: Basi	с				
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.917	5948		8800	0.68	41.8		35.6	E
Facility	y Analysis I	Results								
AP	Speed, m	ni/h	Density, pc/mi/	/In	Density, veh/mi	/ln 1	ravel Time, mi	n	LOS	
1	41.8		35.6		32.6		1.00		E	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln		32.6		
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln		35.6		
Messa	ges									
Comm	ents									



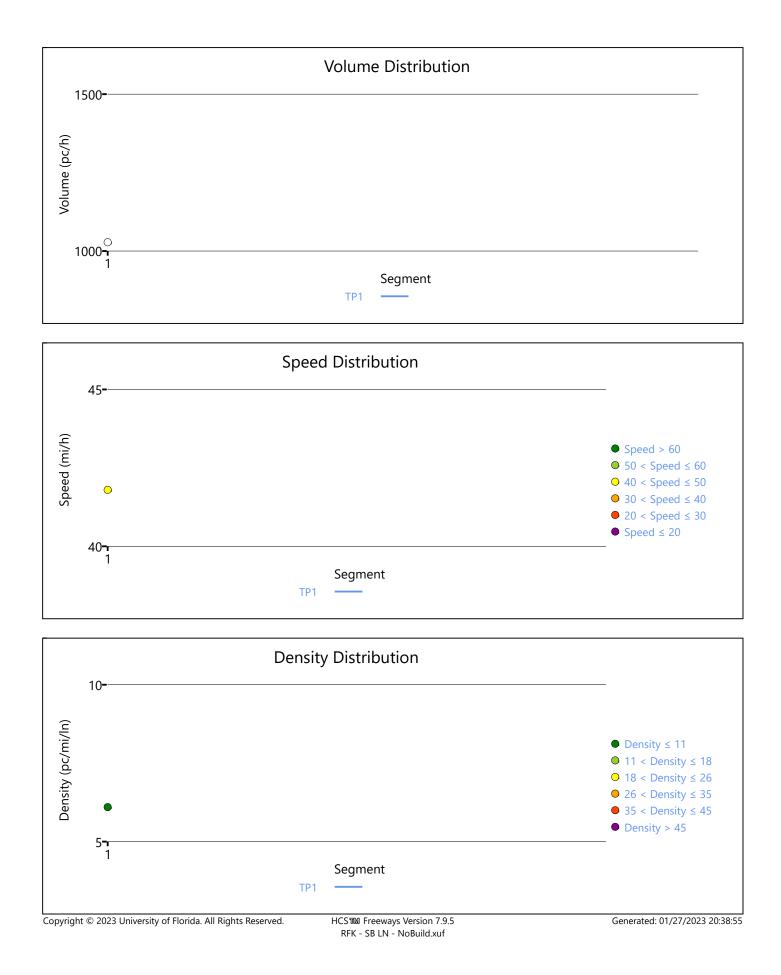
			HCS7	Freeway	Facilitie	es Repor	ť			
Projec	t Informati	on			_	_	_	_	_	_
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NoBuild		
Jurisdicti	on				Time Anal	yzed		MD		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, pc,	/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	n, min	15		
Facility Le	ength, mi		0.69							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	1	4	
Facility	y Segment	Data								
				Segme	nt 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.883	4278	8	800	0.49	41.8		25.6	C
Facility	y Analysis I	Results								
АР	Speed, m	i/h	Density, pc/mi/	'ln Den	sity, veh/mi	/In T	ravel Time, mi	n	LOS	
1	41.8		25.6		22.6		1.00		С	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		22.6		
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln		25.6		
Messa	ges									
Comm	ents									



			HCS7	Freeway	Facilitie	es Repoi	t			
Projec	t Informati	ion						-	_	_
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NoBuild		
Jurisdicti	on				Time Anal	yzed		PM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, po	/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	on, min	15		
Facility Le	ength, mi		0.69							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	1	4	
Facility	y Segment	Data								
				Segme	nt 1: Basi	с				
АР	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.949	4870	8	3800	0.55	41.8		29.1	D
Facility	y Analysis I	Results								
АР	Speed, m	i/h	Density, pc/mi/	'In Den	sity, veh/mi	/In T	ravel Time, mi	n	LOS	
1	41.8		29.1		27.6		1.00		D	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		27.6		
Average	Travel Time, mii	n	1.00		Density, p	c/mi/ln		29.1		
Messa	ges									
Comm	ents									

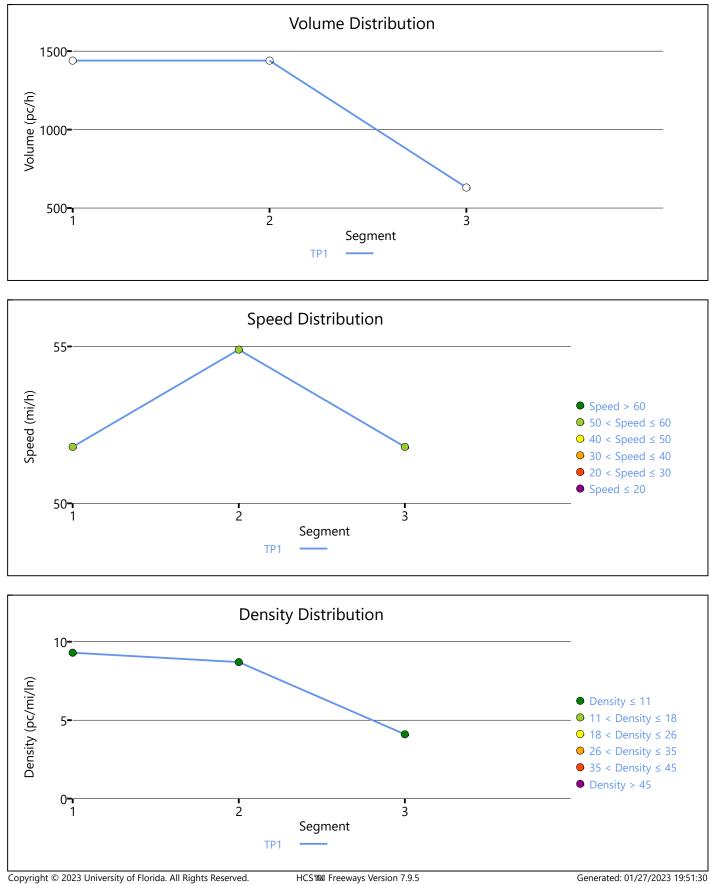


			HCS7	Freeway	Facilitie	es Repor	t			
Proiec	t Informati	on						_	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NoBuild		
Jurisdicti	on				Time Ana	yzed		LN		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity, pc/	/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	n, min	15		
Facility Le	ength, mi		0.69							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	ļ	4	
Facility	y Segment	Data								
				Segme	nt 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.896	1028	8	800	0.12	41.8		6.1	A
Facility	y Analysis I	Results								
АР	Speed, m	ii/h	Density, pc/mi/	/In Den	sity, veh/m	i/In Tı	ravel Time, mi	n	LOS	
1	41.8		6.1		5.5		1.00		А	
Facility	y Overall R	esults								
Space M	ean Speed, mi/ł	n	41.8		Density, v	eh/mi/ln		5.5		
Average	Travel Time, mii	n	1.00		Density, p	c/mi/ln		6.1		
Messa	ges									
Comm	ents									



					HC	S7 Fr€	eeway F	aciliti	es Re	eport					
Projec	t Info	rmati	ion	_	_	_		_	_		_	_	_	_	_
Analyst					CJ		Date					4/21/2022			
Agency					WSP			Analysis Y	'ear				NoBuild		
Jurisdicti	ion							Time Ana	yzed				AM		
Project D	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	y Gloł	oal In	put												
Jam Den	nsity, pc/	mi/ln			190.0			Density at	: Capaci	ity, pc/r	ni/ln		45.0		
Queue D	Discharge	e Capac	ity Dro	o, %	7			Total Segr	ments				3		
Total Ana	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15		
Facility L	.ength, n	ni			1.29										
Facilit	y Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lan	es
1		Basic			Basic							2500		3	
2	1	Diverge	ļ		Basic _ 1							1800		3	
3		Basic			Basic 250) 3		
Facilit	y Seg	ment	Data												
						:	Segment	t 1: Basi	ic						
AP	AP PHF fHV					Rate /h)		Capacity d/c (pc/h) Ratio		Speed (mi/h)			nsity ni/ln)	LOS	
1	0.	94	0.8	846	144	40	66	54	0.	22	5	1.8	9	.3	А
					<u>.</u>	Se	egment 2	2: Diver	ge						1
AP	PI	łF	f⊦	IV	Flow (pc,		Capa (pc,		d/c Ratio		Speed (mi/h			nsity ni/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.846	0.829	1440	805	6750	4200	0.21	0.19	54.9	55.0	8.7	8.7	А
							Segment	t 3: Basi	ic						
AP	PI	łF	f⊦	IV	Flow (pc,			Capacity d/c (pc/h) Ratio			Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.	94	0.8	373	631 66			54	0.09			1.8	4	.1	А
Facilit	y Ana	lysis	Resul	ts											
AP	Sp	oeed, m	ni/h		Density, p	Densi	nsity, veh/mi/ln Travel Tiu					1	LOS		
1	1 52.8 7.2							6.2						А	
Facilit	y Ove	rall R	esults	5											
Space M	lean Spe	ed, mi/	h		52.8			Density, v	eh/mi/l	n			6.2		
Average Travel Time, min 1.50								Density, pc/mi/ln 7.2							
Average															
Average Messa															

WARNING 2	Length of accel/decel lane is longer than 1500 feet for segment 2.							
Comments								

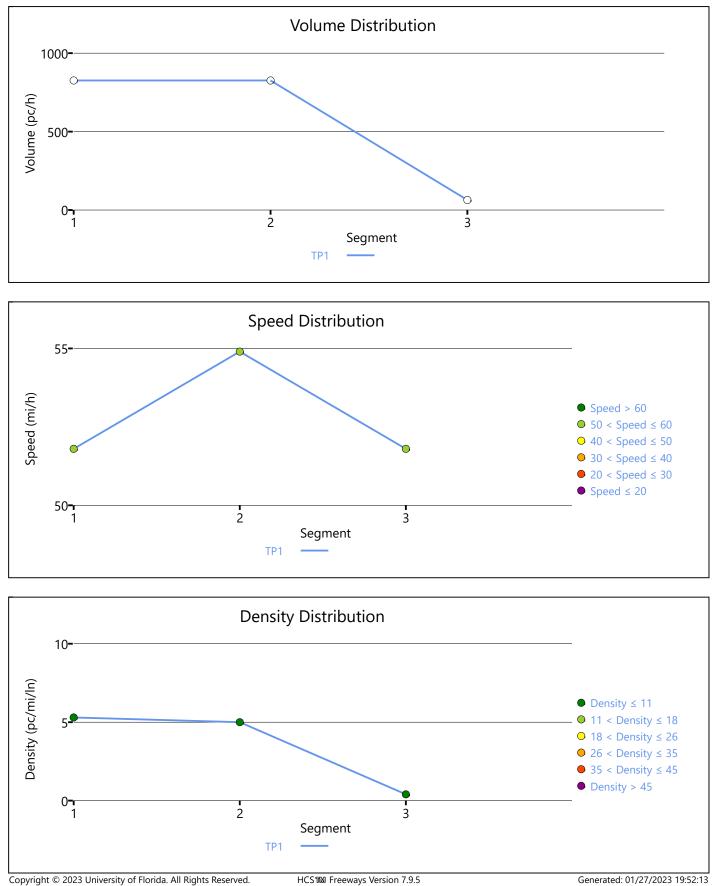


NJ Turnpike - Eastern Spur SB AM - NoBuild.xuf

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					HC	CS7 Fre	eeway I	Facilitie	es Re	eport	:					
Projec	t Info:	rmati	ion	_	_	_		_	_		_	-	_	_	_	
Analyst					CJ			Date					4/21/2022	2		
Agency					WSP			Analysis Y	′ear				No Build			
Jurisdicti	ion							Time Ana					MD			
Project D	Descripti	on			CBD			Units					U.S. Custo	mary		
Facilit	y Glol	oal In	put		1											
Jam Den	sity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/r	ni/In		45.0			
Queue D	Discharge	e Capac	ity Drop	o, %	7			Total Seg	ments				3			
Total Ana	alysis Pe	riods			1			Analysis P	Period D	uration	, min		15			
Facility L	ength, n	ni			1.29											
Facilit	y Seg	ment	Data		1											
No.		Coded	_		Analyzed			Name	_		L	.ength	, ft	Lan	es	
1		Basic			Basic							2500		3		
2		Diverge			Basic _							1800		3	5	
3		Basic			Basic 250							2500) 3			
Facilit	y Seg	ment	Data													
						:	Segmen	t 1: Basi	ic							
AP PHF fHV					Flow (pc,		Capa (pc)			/c itio		eed i/h)		nsity mi/ln)	LOS	
1 0.94 0.810						.6	6654 0.12				5´	1.8		5.3	A	
						Se	egment	2: Diver	ge				·			
AP	PI	łF	fH	IV	Flow (pc,		Capa (pc)		d/c Ratio			eed i/h)		Density (pc/mi/ln)		
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp		
1	0.94	0.94	0.810	0.817	826	763	6750	4200	0.12	0.18	54.9	55.0	5.0	5.0	А	
						:	Segmen	t 3: Basi	ic							
AP	PI	łF	fH	IV	Flow (pc,					l/c Speed atio (mi/h)				nsity mi/ln)	LOS	
1	0.	94	0.7	15	64	4	54	0.01			51.8).4	А		
Facilit	y Ana	lysis	Result	ts												
AP	S	oeed, m	, mi/h Density, pc/mi/ln			c/mi/ln	Densi	Density, veh/mi/ln Tra				ne, miı	n	LOS		
1	1 53.0							2.8			1.5	0		A		
Facilit	y Ove	rall R	esults	5												
Space M	lean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			2.8			
Average	Travel T	ime, mi	n		1.50			Density, p	oc/mi/ln				3.4			
Messa	iges															

WARNING 2	Length of accel/decel lane is longer than 1500 feet for segment 2.							
Comments								

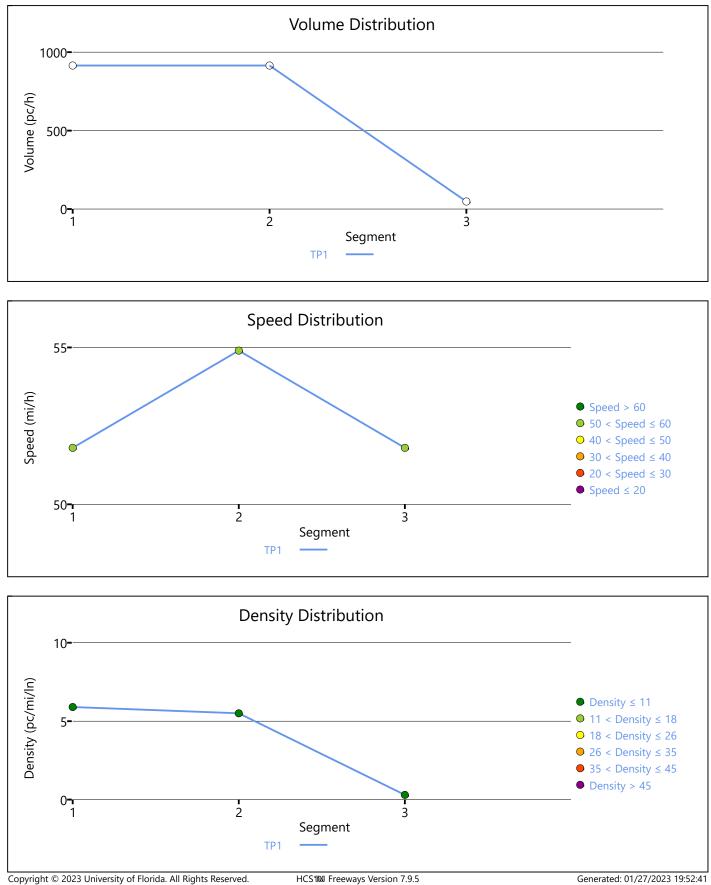


NJ Turnpike - Eastern Spur SB MD - NoBuild.xuf

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					HC	S7 Fre	eeway F	aciliti	es Re	eport						
Projec	t Info	rmati	ion	_	_	_		_	_		_	_	_	_	_	
Analyst					CJ		Date					4/21/2022				
Agency					WSP			Analysis Y	'ear				No Build			
Jurisdicti	on							Time Ana	lyzed				PM			
Project D	Descripti	on			CBD			Units					U.S. Custo	mary		
Facility	y Gloł	oal In	put													
Jam Den	sity, pc/	mi/ln			190.0			Density at	t Capaci	ity, pc/r	ni/In		45.0			
Queue D	ischarge	e Capac	ity Drop	o, %	7			Total Segr	nents				3			
Total Ana	alysis Pe	riods			1			Analysis P	Period D	uration	, min		15			
Facility Le	ength, n	ni			1.29											
Facility	y Seg	ment	Data													
No.		Coded			Analyzed			Name			L	.ength	ft	Lane	es	
1		Basic			Basic							2500		3		
2		Diverge			Basic			_				1800		3		
3		Basic			Basic 250) 3			
Facility	y Seg	ment	Data										·			
							Segment	t 1: Basi	ic							
AP PHF fHV					Flow (pc)			apacity d/c (pc/h) Ratio			Speed (mi/h)			nsity ni/ln)	LOS	
1	0.	94	0.9	921	91		66		0.	14	51	1.8		.9	A	
					1	Se	egment 2	2: Diver	ge						1	
АР	PI	łF	f⊦	IV	Flow (pc,			Capacity d/c (pc/h) Ratio				eed i/h)		nsity ni/ln)	LOS	
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp		
1	0.94	0.94	0.921	0.926	915	867	6750	4200	0.14	0.21	54.9	55.0	5.5	5.5	А	
							Segment	t 3: Basi	ic							
AP	PI	łF	f⊦	IV	Flow (pc,			Capacity d/c (pc/h) Ratio			Speed (mi/h)		Density (pc/mi/ln)		LOS	
1	0.	94	0.8	322	48	3	66	54	0.0	01	51.8		0	.3	А	
Facility	y Ana	lysis	Resul	ts												
AP	Sp	oeed, m	ni/h		Density, p	c/mi/ln	Densi	ty, veh/mi	Tra	vel Tin	ne, mir	n	LOS			
1		53.0			3.7			3.4 1.50					A			
Facility	y Ove	rall R	esults	5												
Space M	ean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			3.4			
Average Travel Time, min 1.50								Density, pc/mi/ln 3.7								
Average	naveri															
Average Messa																

WARNING 2	Length of accel/decel lane is longer than 1500 feet for segment 2.							
Comments								

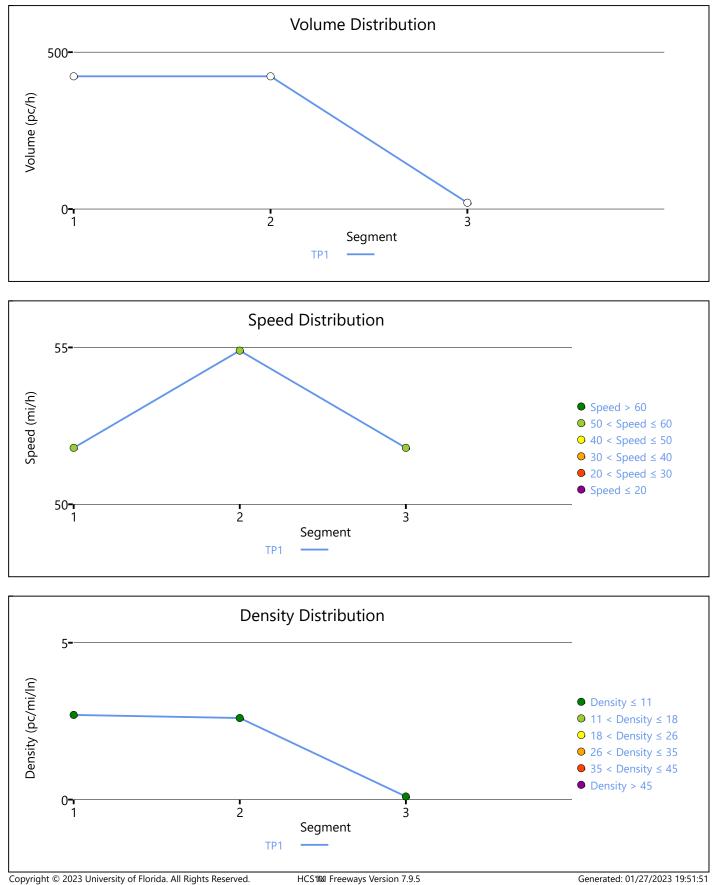


NJ Turnpike - Eastern Spur SB PM - NoBuild.xuf

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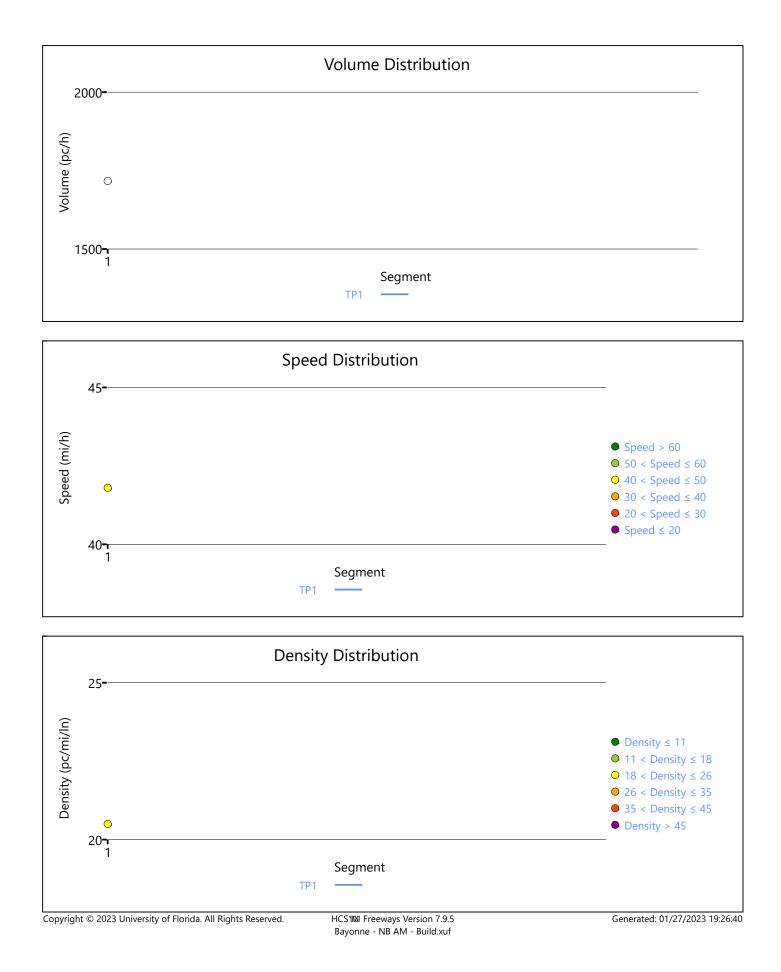
					HC	S7 Fre	eeway F	acilitie	es Re	port					
Projec	t Info	rmati	ion	_	_	_		_	_		_	_	_	_	_
Analyst					CJ		Date					4/21/2022			
Agency					WSP			Analysis Y	'ear				No Build		
Jurisdicti	on							Time Anal	yzed				LN		
Project D	Descripti	on			CBD			Units					U.S. Custo	mary	
Facility	y Gloł	oal In	put				I								
Jam Den	sity, pc/	mi/ln			190.0			Density at	: Capaci	ity, pc/r	ni/ln		45.0		
Queue D	ischarge	e Capac	ity Drop	o, %	7			Total Segr	ments				3		
Total Ana	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15		
Facility Le	ength, n	ni			1.29										
Facility	y Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lan	es
1		Basic			Basic							2500		3	
2	I	Diverge			Basic			_				1800		3	
3		Basic			Basic 250) 3		
Facility	y Seg	ment	Data												
							Segment	t 1: Basi	ic						
АР	AP PHF fHV					Rate /h)		acity d/c c/h) Ratio				eed i/h)		nsity ni/ln)	LOS
1 0.94 0.891 423 6654 0.06 51.8								2	7	A					
					<u>.</u>	Se	egment 2	2: Diver	ge						1
АР	PI	łF	f⊦	IV	Flow (pc,			apacity d/c pc/h) Ratio				eed i/h)		nsity ni/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.891	0.899	423	402	6750	4200	0.06	0.10	54.9	55.0	2.6	2.6	А
							Segment	t 3: Basi	ic						
AP	PI	ΗF	f⊦	IV	Flow (pc,			Capacity d/c (pc/h) Ratio			Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.	94	0.7	'34	20 (54	0.0	00	51	.8	C).1	A
Facility	y Ana	lysis	Resul	ts											
AP	Sp	oeed, m	ni/h		Density, p	c/mi/ln	Densi	ty, veh/mi	i/In	Tra	vel Tin	ne, mir	n	LOS	
1	1 53.0 1.7						1.5					C		А	
Facility	y Ove	rall R	esults	5											
Space M	ean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			1.5		
Average Travel Time, min 1.50								Density, pc/mi/ln 1.7							
Average	llaveri	inite, init													
Average Messa		inic, mi													

WARNING 2	Length of accel/decel lane is longer than 1500 feet for segment 2.							
Comments								

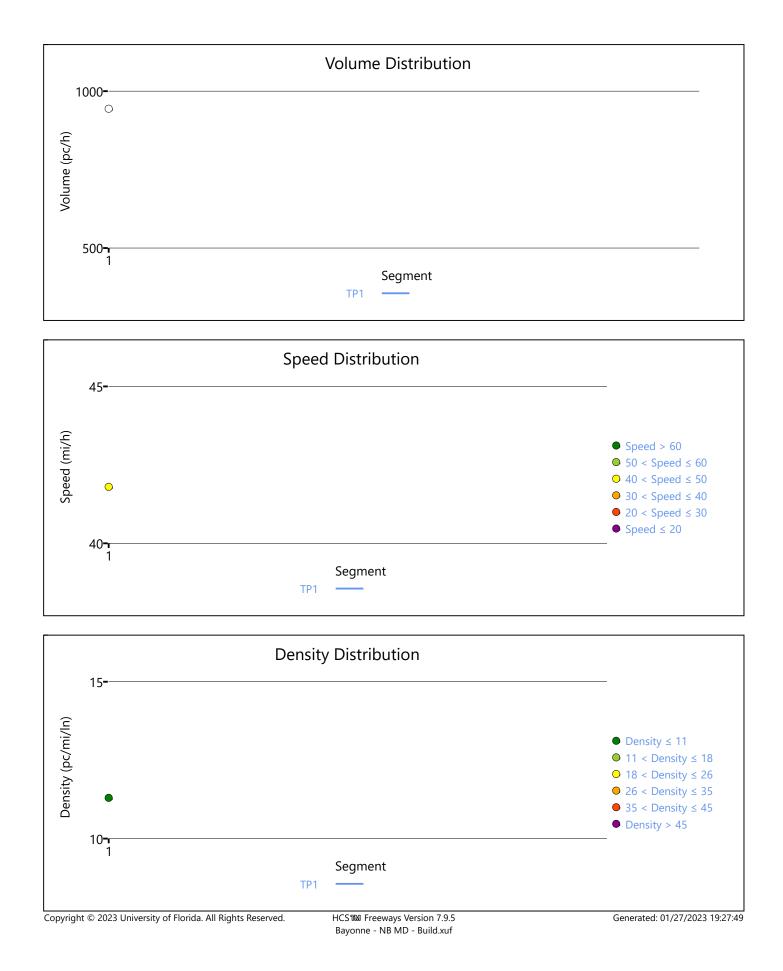


NJ Turnpike - Eastern Spur SB LN - NoBuild.xuf

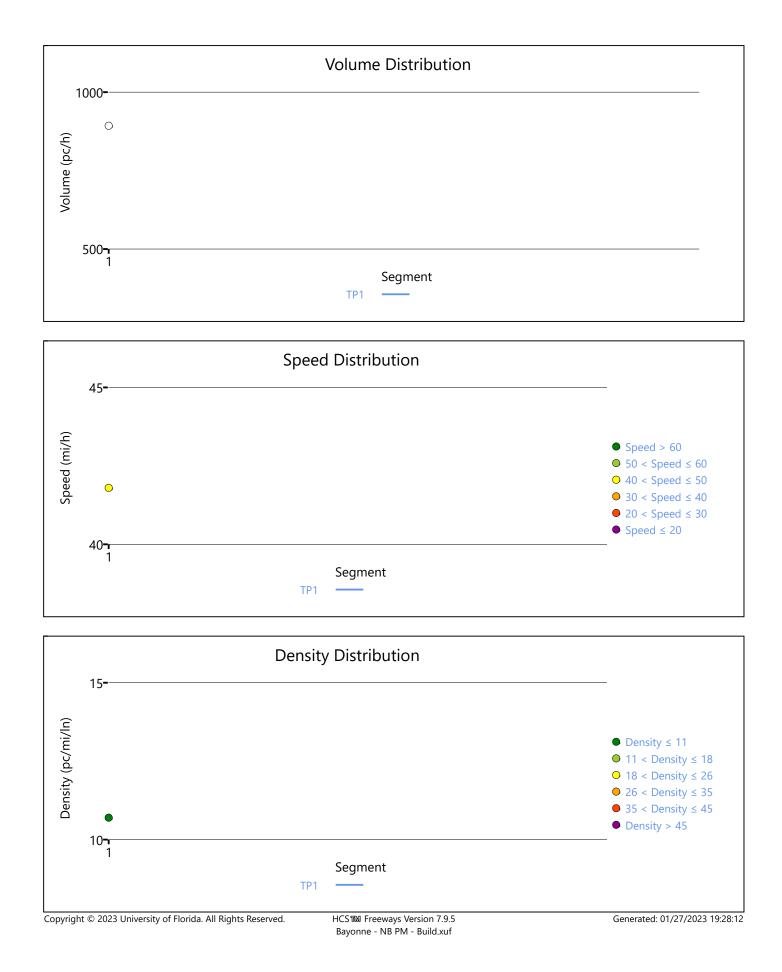
			HCS7	Freeway	/ Facilitie	es Repo	ort			
Projec	t Informati	on						-	_	_
Analyst			CI		Date			4/21/20	22	
Agency			WSP		Analysis Y	′ear		NEPA 5		
Jurisdicti	on				Time Ana	lyzed		AM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	t Capacity, p	c/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	ments		1		
Total Ana	lysis Periods		1		Analysis P	eriod Durati	ion, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	n, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment	Data								
				Segme	ent 1: Basi	ic				
АР	PHF	fHV	Flow Rate (pc/h)		apacity pc/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.909	1717		4400	0.39	41.8		20.5	С
Facility	y Analysis I	Results								
АР	Speed, m	ii/h	Density, pc/mi/	íln De	nsity, veh/m	i/ln	Travel Time, mi	n	LOS	
1	41.8		20.5		18.6		1.40		С	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		18.6		
Average	Travel Time, mii	n	1.40		Density, p	oc/mi/ln		20.5		
Messa	ges									
Comm	ents									



			HCS7	Freeway	[,] Facilitie	es Repoi	t			
Projec	t Informati	on						-	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NEPA 5		
Jurisdictio	on				Time Ana	yzed		MD		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, pc	/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Seg	ments		1		
Total Ana	lysis Periods		1		Analysis F	eriod Duratic	on, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment	Data								
				Segme	nt 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.846	944		4400	0.21	41.8		11.3	В
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	'In Der	nsity, veh/m	i/ln T	ravel Time, mi	n	LOS	
1	41.8		11.3		9.6		1.40		В	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		9.6		
Average	Travel Time, mi	n	1.40		Density, p	c/mi/ln		11.3		
Messa	ges									
Comm	ents									



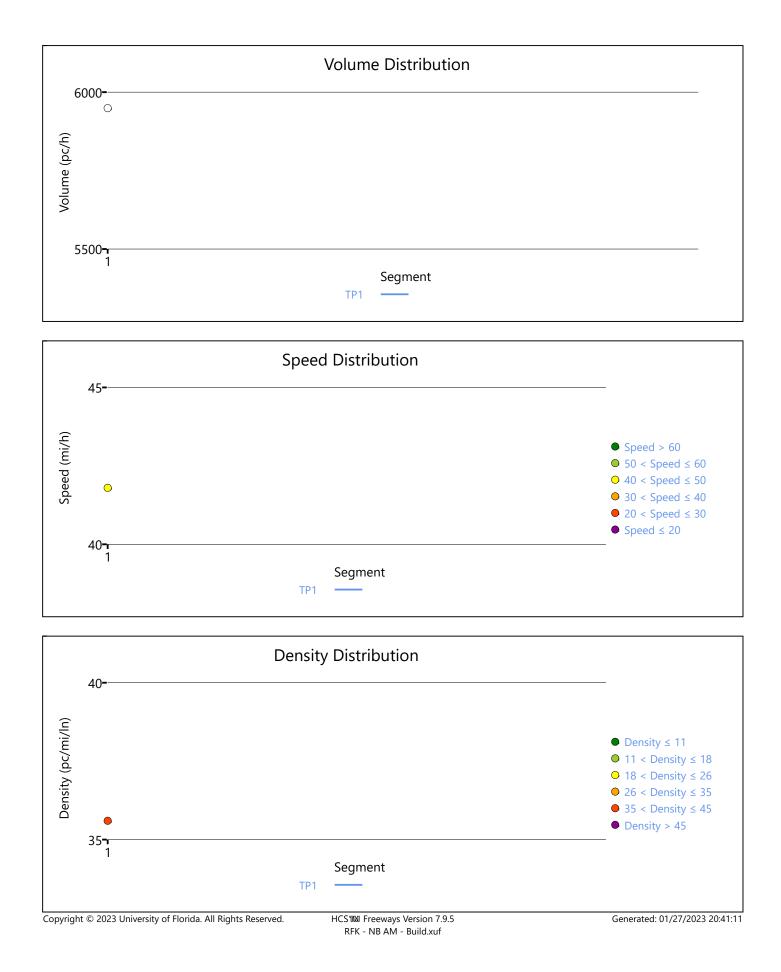
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Projec	t Informati	on						-	_	_
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NEPA 5		
Jurisdictio	on				Time Ana	lyzed		PM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global Inj	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	: Capacity, p	c/mi/ln	45.0		
Queue D	ischarge Capaci	ity Drop, %	7		Total Seg	ments		1		
Total Ana	llysis Periods		1		Analysis F	eriod Durat	ion, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	n, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment	Data								
				Segme	nt 1: Basi	ic				
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.933	893		4400	0.20	41.8		10.7	A
Facility	y Analysis F	Results								
АР	Speed, m	i/h	Density, pc/mi/	'In Der	nsity, veh/m	i/In	Travel Time, mi	n	LOS	
1	41.8		10.7		10.0		1.40		А	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/ł	 ו	41.8		Density, v	eh/mi/ln		10.0		
Average	Travel Time, mir	า	1.40		Density, p	c/mi/ln		10.7		
Messa	ges									
Comm	ents									



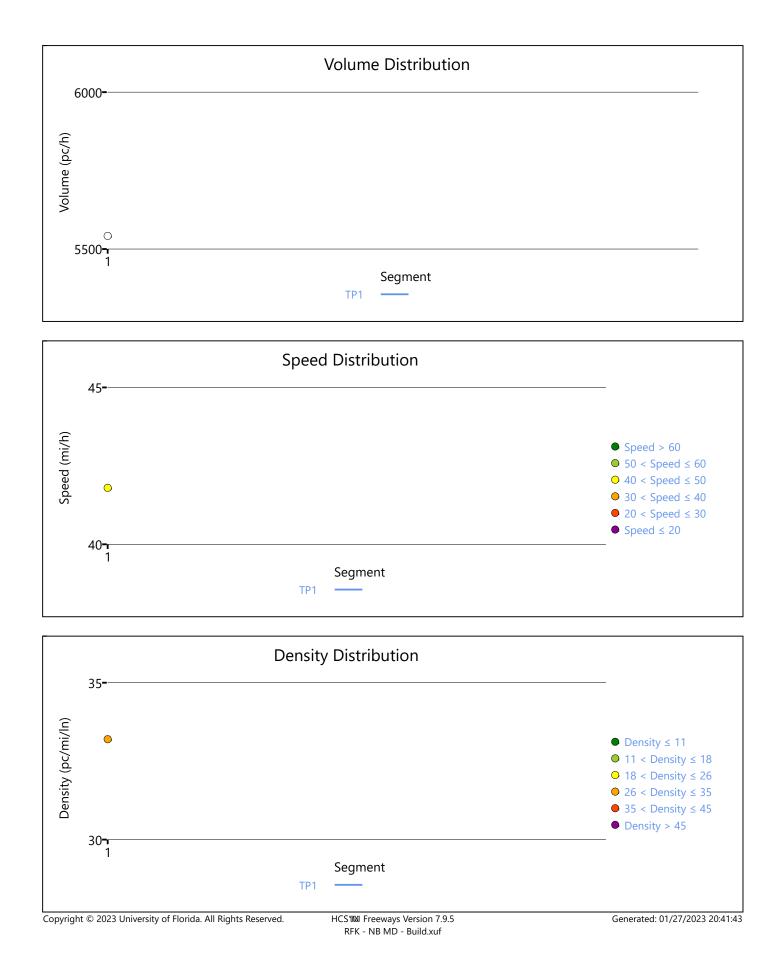
			HCS7	Freeway	Facilitie	es Repoi	t			
Proiec	t Informati	on						_	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NEPA 5		
Jurisdictio	on				Time Ana	yzed		LN		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, po	/mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	on, min	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment	Data								
				Segme	nt 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.865	280	4	400	0.06	41.8		3.3	A
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	'In Den	sity, veh/m	i/ln T	ravel Time, mi	n	LOS	
1	41.8		3.3		2.9		1.40		А	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		2.9		
Average ⁻	Travel Time, mii	n	1.40		Density, p	c/mi/ln		3.3		
Messa	ges									
Comm	ents									



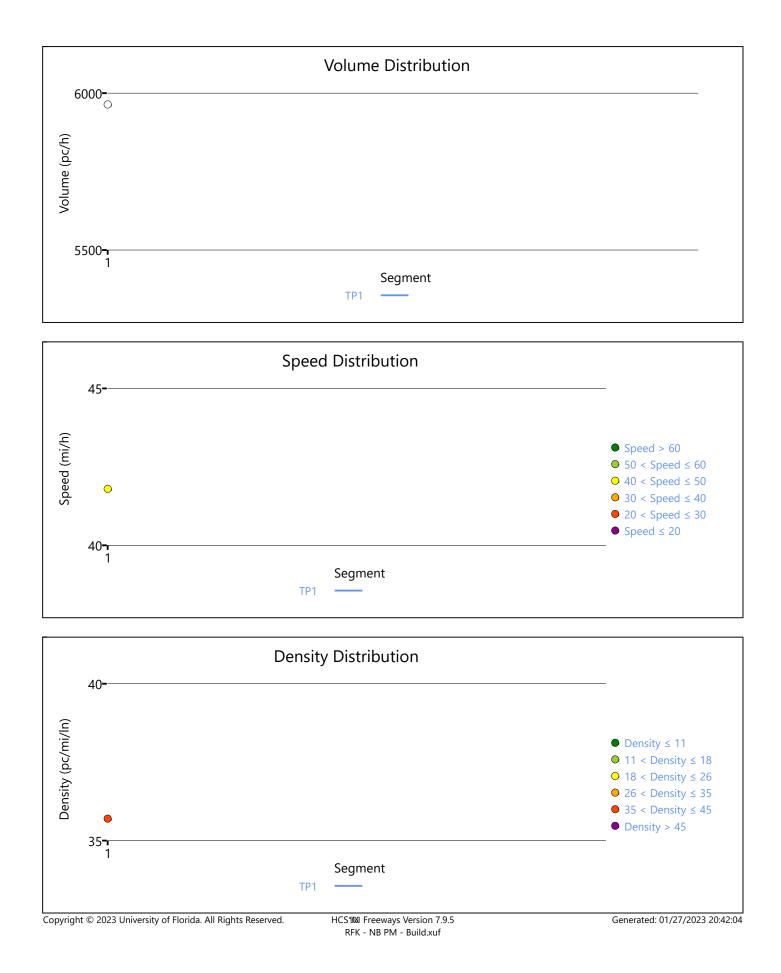
			HCS7	Freev	way Facilitie	es Repo	ort				
Projec	t Informati	ion						-	-	_	-
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	ear			NEPA 5		
Jurisdicti	on				Time Anal	yzed			AM		
Project D	escription		CBD		Units				U.S. Cus	tomary	
Facility	y Global In	put									
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/mi/ln		45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents			1		
Total Ana	lysis Periods		1		Analysis P	eriod Dura	tion, min		15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lan	es
1	Basic		Basic					3634	Ļ	4	
Facility	y Segment	Data									
				Seg	gment 1: Basi	с					
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio		peed ni/h)		ensity :/mi/ln)	LOS
1	0.94	0.909	5949		8800	0.68		41.8		35.6	E
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Travel T	ime, mi	n	LOS	
1	41.8		35.6		32.4		1.	00		E	
Facility	y Overall R	esults									
Space M	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln			32.4		
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln			35.6		
Messa	ges										
Comm	ents										



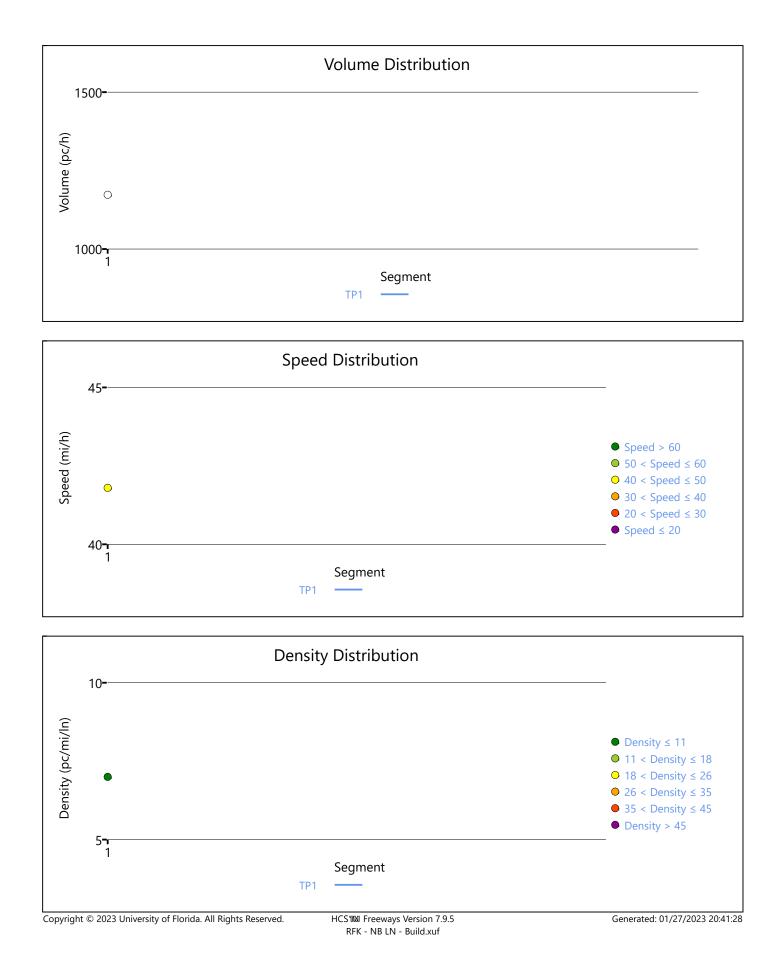
			HCS7	Freeway	· Facilitie	es Repo	rt			
Projec	t Informati	ion						-	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NEPA 5		
Jurisdicti	on				Time Ana	yzed		MD		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, po	:/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	ments		1		
Total Ana	lysis Periods		1		Analysis P	eriod Duratio	on, min	15		
Facility Le	ength, mi		0.69							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	1	4	
Facility	y Segment	Data								
				Segme	nt 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.891	5542		8800	0.63	41.8		33.2	D
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	'In De	nsity, veh/m	i/ln 1	ravel Time, mi	n	LOS	
1	41.8		33.2		29.6		1.00		D	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln		29.6		
Average	Travel Time, mii	n	1.00		Density, p	c/mi/ln		33.2		
Messa	ges				-					
Comm	ents									



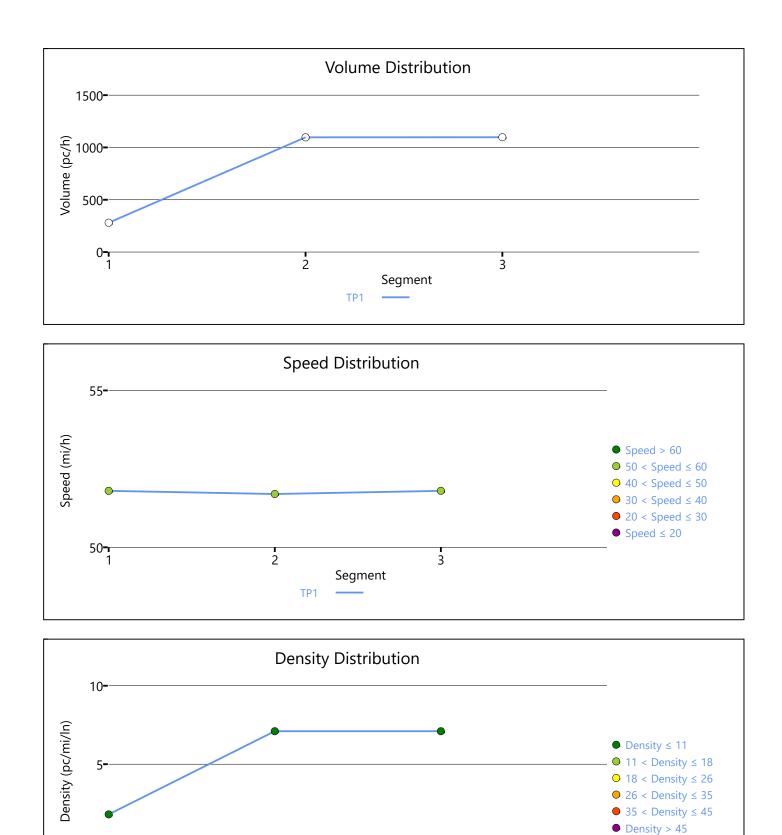
			HCS7	Freew	ay Facilitie	es Repo	ort				
Projec	t Informati	on		_				_	_	_	_
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	ear			NEPA 5		
Jurisdicti	on				Time Anal	yzed			PM		
Project D	escription		CBD		Units				U.S. Cus	tomary	
Facility	y Global In	put									
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/n	ni/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents			1		
Total Ana	lysis Periods		1		Analysis P	eriod Dura	ation,	, min	15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lan	es
1	Basic		Basic					3634		4	
Facility	y Segment	Data									
				Segr	nent 1: Basi	с					
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio		Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.952	5964		8800	0.68		41.8		35.7	E
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	'In I	Density, veh/mi	/In	Tra	vel Time, mi	n 🗌	LOS	
1	41.8		35.7		34.0			1.00		E	
Facility	y Overall R	esults									
Space M	ean Speed, mi/l	า	41.8		Density, ve	eh/mi/ln			34.0		
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln			35.7		
Messa	ges										
Comm	ents										



			HCS7	Freew	ay Facilitie	es Rep	ort				
Projec	t Informati	on		_			-	_	_	_	
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	ear			NEPA 5		
Jurisdictio	on				Time Anal	yzed			LN		
Project D	escription		CBD		Units				U.S. Cus	tomary	
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity	, pc/r	mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents			1		
Total Ana	llysis Periods		1		Analysis P	eriod Dur	ation	, min	15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lan	es
1	Basic		Basic					3634	ļ	4	
Facility	y Segment	Data									
				Segr	ment 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio		Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.870	1173		8800	0.13		41.8		7.0	A
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Tra	avel Time, mi	n	LOS	
1	41.8		7.0		6.1			1.00		А	
Facility	y Overall R	esults									
Space Me	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln			6.1		
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln			7.0		
Messa	ges								-		
Comm	ents										



					HC	CS7 Fre	eeway F	acilitie	es Re	eport					
Projec	ct Info	rmat	ion	_					_	_	_	_			
Analyst					CJ			Date					4/21/2022	2	
Agency					WSP			Analysis Y	′ear				NEPA 5		
Jurisdict	ion							Time Ana	lyzed				AM		
Project I	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	y Gloł	oal In	put												
Jam Der	nsity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/r	mi/ln		45.0		
Queue D	Discharge	e Capac	ty Dro	o, %	7			Total Seg	ments				3		
Total An	alysis Pe	riods			1			Analysis F	eriod D	Ouration	ı, min		15		
Facility L	.ength, n	ni			1.07										
Facilit	y Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lane	es
1		Basic			Basic							2500		3	
2 Merge Merge 663 3															
3		Basic			Basic							2500		3	
Facilit	y Seg	ment	Data												
						:	Segment	t 1: Basi	ic						
АР	PI	łF	fŀ	IV	Flow (pc)		Capa (pc,			/c itio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.7	'89	28	0	66	54	0.	04	5	1.8		.8	A
						S	egment	2: Mer	ge						
AP	PI	łF	fŀ	IV	Flow (pc,		Capa (pc,	acity /h)		/c tio		eed i/h)		nsity mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.789	0.855	1097	817	6750	4000	0.16	0.20	51.7	51.3	7.1	8.6	A
						:	Segment	t 3: Basi	ic						
AP	PI	łF	fŀ	IV	Flow (pc,		Capa (pc,			/c itio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	38	109	98	66	54	0.	17	51	1.8	-	' .1	A
Facilit	y Ana	lysis	Resul	ts											
АР	Sp	oeed, n	ni/h		Density, p	c/mi/ln	Densi	ty, veh/m	i/In	Tra	avel Tin	ne, mi	n	LOS	
1		51.8			4.8			3.9			1.2	0		А	
Facilit	y Ove	rall R	esult	5											
Space N	lean Spe	ed, mi/	h		51.8			Density, v	eh/mi/	In			3.9		
Average	Travel T	ime, mi	n		1.20			Density, p	oc/mi/lr	1			4.8		
Messa	nges														
Comn	nents														



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Segment

3

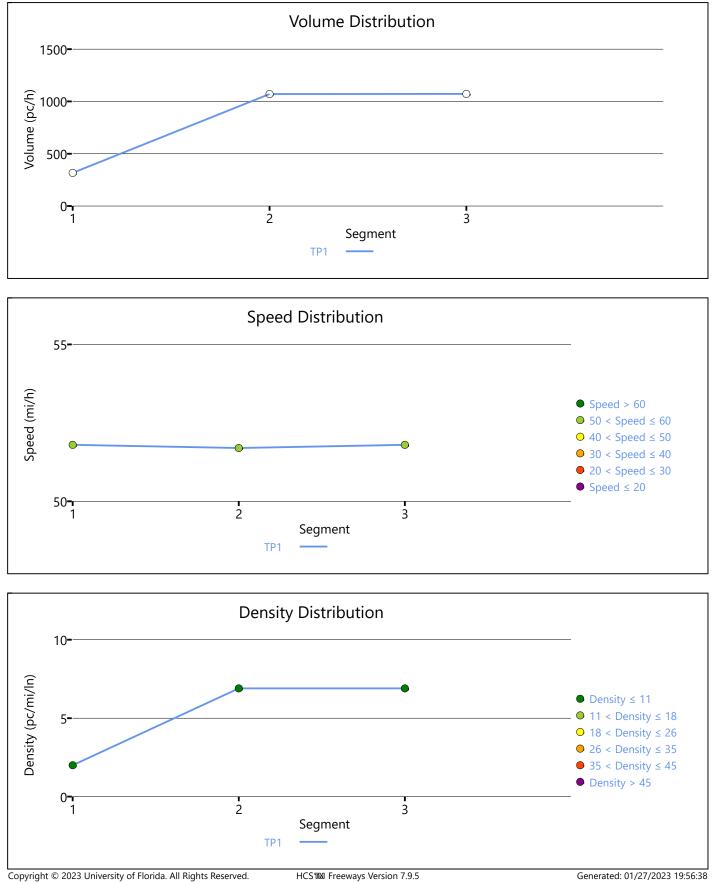
2

TP1

0**-**-1

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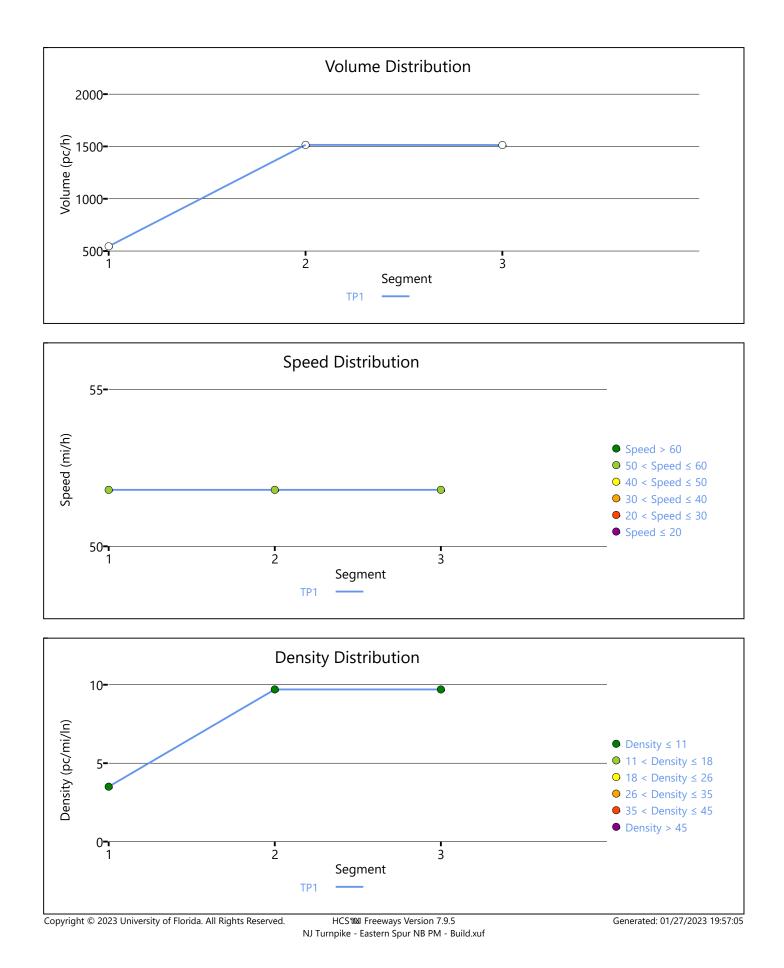
					HC	S7 Fre	eeway l	aciliti	es Re	eport					
Proje	ct Info	rmat	ion	_	_	_		_	_		_	_	_	_	
Analyst					CJ			Date					4/21/202	2	
Agency					WSP			Analysis Y	′ear				NEPA 5		
Jurisdic	tion							Time Ana	lyzed				MD		
Project	Descripti	on			CBD			Units					U.S. Custo	omary	
Facili	ty Glol	oal In	put												
Jam De	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharg	e Capad	city Dro	р, %	7			Total Seg	ments				3		
Total Ar	nalysis Pe	riods			1			Analysis F	Period [Duration	ı, min		15		
Facility	Length, r	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength,	ft	Lane	25
1		Basic			Basic							2500		3	
2 Merge Merge _ 663 3															
2 Merge Merge 5 3 Basic Basic 2500 3															
Facili	ty Seg	ment	Data												
							Segmen	t 1: Basi	ic						
AP	PI	HF	fł	iV	Flow (pc,		Capa (pc			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.7	795	31	7	66	54	0.	.05	51	.8		2.0	А
						S	egment	2: Mer	ge						
AP	PI	HF	fł	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.795	0.832	1071	754	6750	4000	0.16	0.19	51.7	51.3	6.9	8.3	А
						:	Segmen	t 3: Basi	ic						
AP	PI	HF	fł	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	321	107	72	66	54	0.	.16	51	.8		6.9	А
Facili	ty Ana	lysis	Resul	ts											
АР	SI	peed, n	ni/h	Τ	Density, p	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, mir	n	LOS	
1		51.8			4.7			3.9			1.20	C		А	
Facili	ty Ove	rall R	esult	5											
Space N	/lean Spe	ed, mi/	'n		51.8			Density, v	eh/mi/	In			3.9		
Average	e Travel T	ime, mi	in		1.20			Density, p	oc/mi/lr	1			4.7		
Mess	ages														
Comr	nents														



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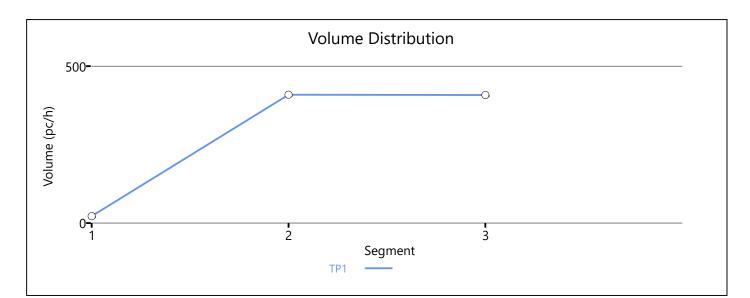
					HC	S7 Fre	eeway l	aciliti	es Re	eport					
Proje	ct Info	rmat	ion	_	_	_		_	_		_	_	_	_	
Analyst				_	CJ			Date					4/21/202	2	
Agency					WSP			Analysis Y	′ear				NEPA 5		
Jurisdic	tion							Time Ana	lyzed				PM		
Project	Descripti	on			CBD			Units					U.S. Custo	omary	
Facili	ty Glol	oal In	put												
Jam De	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharg	e Capad	city Dro	р, %	7			Total Seg	ments				3		
Total Ar	nalysis Pe	riods			1			Analysis F	Period [Duration	, min		15		
Facility	Length, r	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength,	ft	Lane	es
1		Basic			Basic							2500		3	
2 Merge Merge _ 663 3															
3		Basic			Basic							2500		3	
Facili	ty Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
AP	PI	HF	fł	IV	Flow (pc/		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.9	917	54	5	66	54	0.	.08	51	.8		3.5	А
						S	egment	2: Mer	ge						
AP	PI	HF	fł	IV	Flow (pc,		Capa (pc)			/c atio		eed i/h)		nsity mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.917	0.933	1515	970	6750	4000	0.22	0.24	51.8	51.2	9.7	10.9	В
						:	Segmen	t 3: Basi	ic						
АР	PI	HF	fł	iV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.9	928	15	14	66	54	0.	.23	51	.8		9.7	А
Facili	ty Ana	lysis	Resul	ts											
АР	SI	peed, n	ni/h		Density, po	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, mir	n	LOS	
1		51.8			7.0			6.4			1.20)		А	
Facili	ty Ove	rall R	esult	5											
Space N	/lean Spe	ed, mi/	'n		51.8			Density, v	eh/mi/	In			6.4		
Average	e Travel T	ime, mi	in		1.20			Density, p	oc/mi/lr	۱			7.0		
Mess	ages														
Comr	nents														

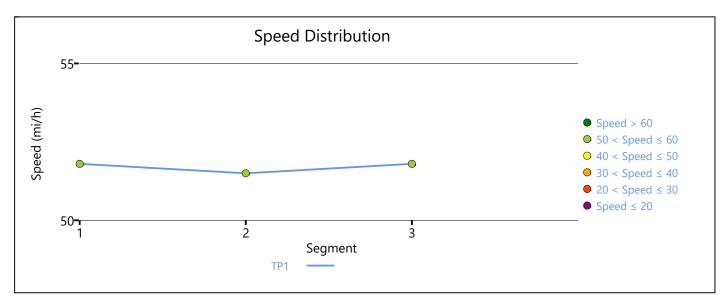


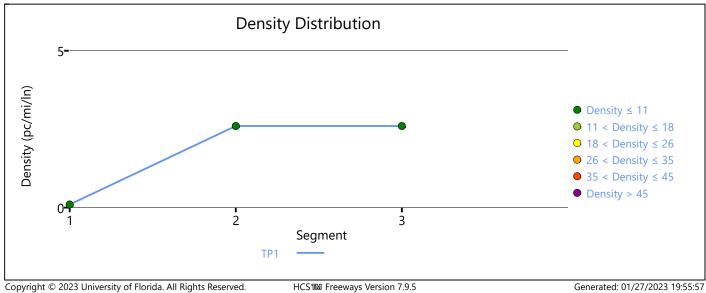
Appendix 4B.6-130

2023

					HC	S7 Fre	eeway l	aciliti	es Re	eport	:				
Proje	ct Info	ormat	ion	_		_			_	_	_	_	_		
Analyst				_	CJ			Date					4/21/202	2	
Agency					WSP			Analysis Y	′ear				NEPA 5		
Jurisdic	tion							Time Ana	lyzed				LN		
Project	Descripti	on			CBD			Units					U.S. Cust	omary	
Facili	ty Glo	bal In	put												
Jam De	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue	Discharg	e Capao	city Dro	o, %	7			Total Seg	ments				3		
Total Ar	nalysis Pe	riods			1			Analysis F	Period [Duration	ı, min		15		
Facility	Length, r	ni			1.07										
Facili	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength,	ft	Lane	es
1		Basic			Basic							2500		3	
2 Merge Merge _ 663 3															
3		Basic			Basic							2500		3	
Facili	ty Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
АР	P	HF	fŀ	IV	Flow (pc/		Capa (pc			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.7	'33	22	2	66	54	0.	.00	51	.8		0.1	A
						S	egment	2: Mer	ge						
АР	P	HF	fŀ	IV	Flow (pc/		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freewa	/ Ramp	
1	0.94	0.94	0.733	0.904	409	387	6750	4000	0.06	0.10	51.5	51.4	2.6	4.3	А
						:	Segmen	t 3: Basi	ic						
AP	P	HF	fŀ	IV	Flow (pc,		Capa (pc)			l/c atio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	896	40	8	66	54	0.	.06	51	.8		2.6	A
Facili	ty Ana	lysis	Resul	ts											
АР	S	peed, n	ni/h		Density, po	:/mi/ln	Densi	ity, veh/m	i/ln	Tra	avel Tin	ne, mir	۱	LOS	
1		51.7			1.5			1.3			1.20)		А	
Facili	ty Ove	rall R	esult	5											
Space N	Aean Spe	ed, mi/	'n		51.7			Density, v	eh/mi/	In			1.3		
Average	e Travel T	ime, m	in		1.20			Density, p	oc/mi/lr	۱			1.5		
Mess	ages														
Comr	nents														



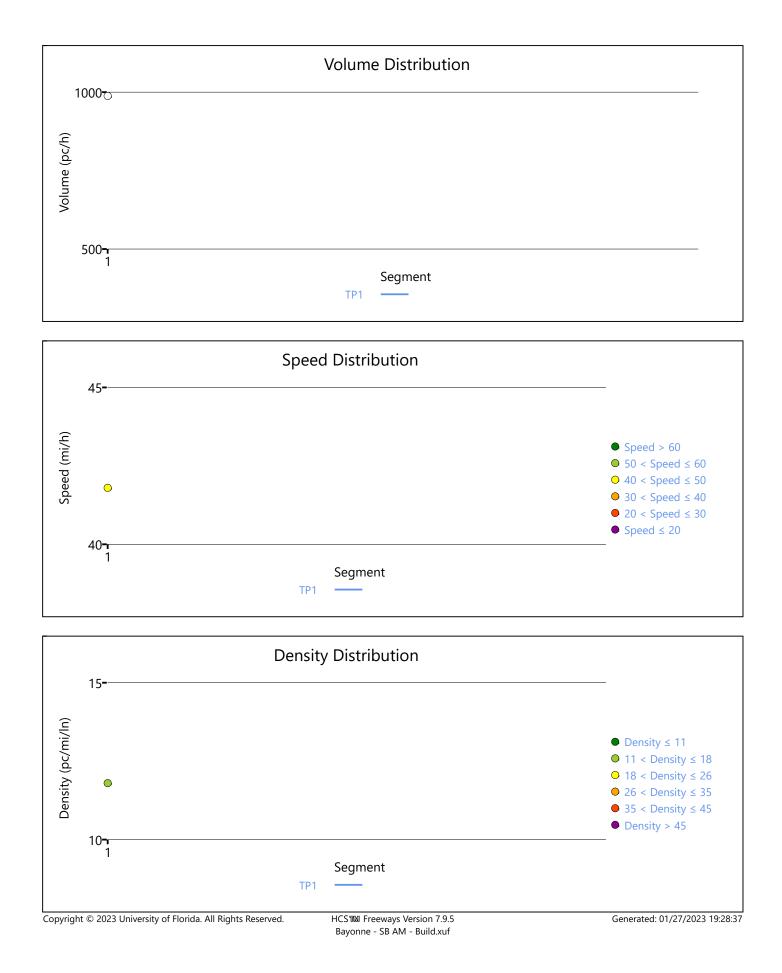




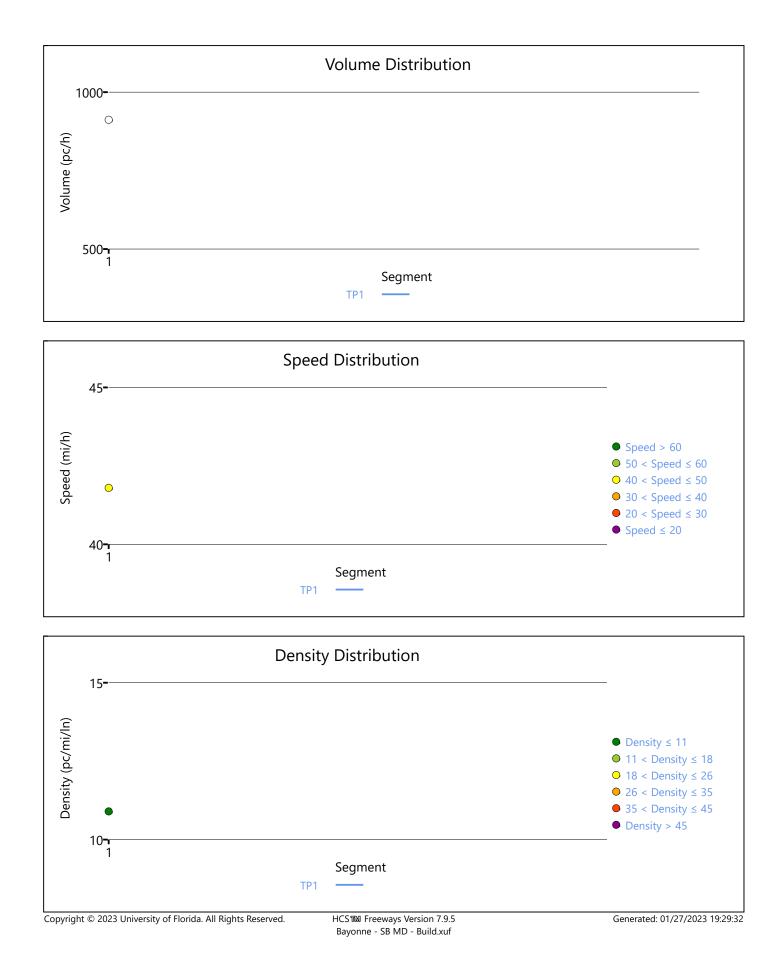
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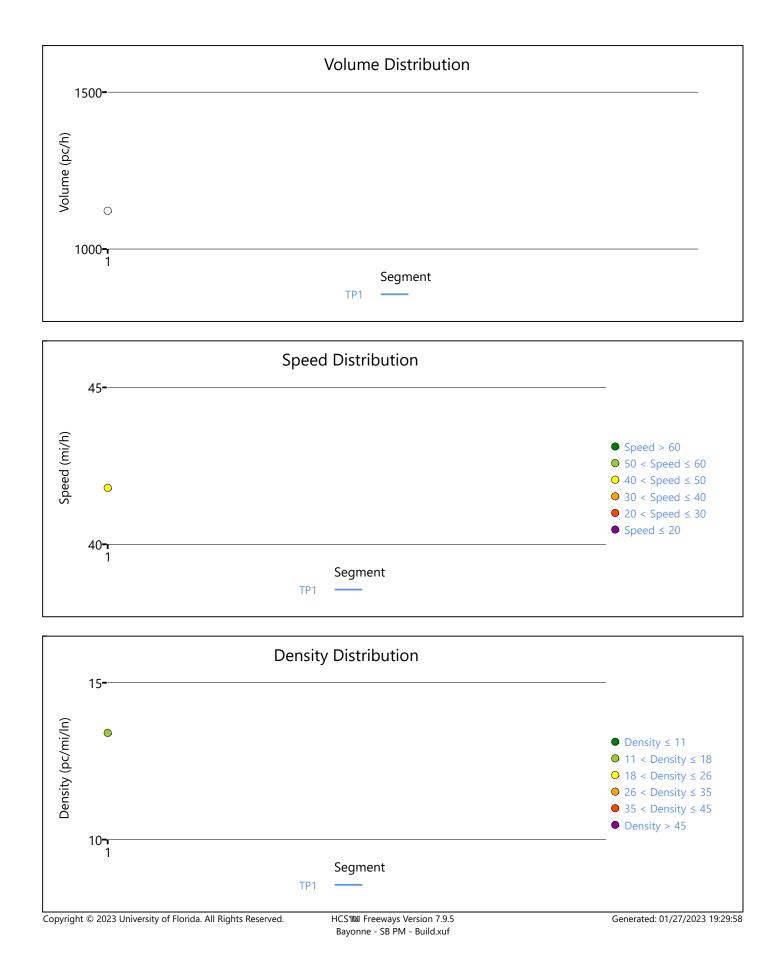
			HCS7	Freeway	Facilitie	es Repo	rt				
Projec	t Informati	on						-	_		
					Date			4/21/20	22		
Agency			WSP		Analysis Y	ear		NEPA 5			
Jurisdicti	on				Time Ana	yzed		AM			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity, p	c/mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1			
Total Ana	lysis Periods		1		Analysis P	eriod Durati	on, min	15			
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Length	n, ft	Lan	es	
1	Basic		Basic				5280	5280			
Facility	y Segment	Data									
				Segme	nt 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)		
1	0.94	0.817	988		400	0.22	41.8		11.8	В	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	'In Der	sity, veh/m	/In	Travel Time, mi	n	LOS		
1	41.8		11.8		9.6		1.40		В		
Facility	y Overall R	esults									
Space Mean Speed, mi/h 41.8					Density, v	Density, veh/mi/ln			9.6		
Average	Travel Time, mi	n	1.40		Density, p	c/mi/ln		11.8			
Messa	ges										
Comm	ents										



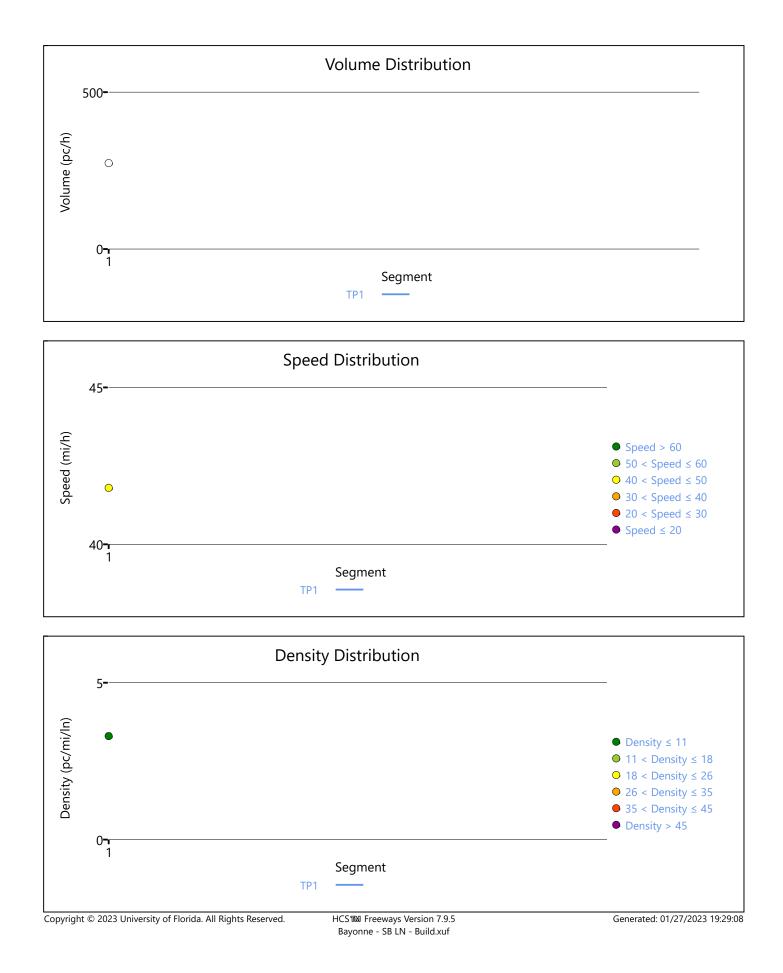
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Projec	t Informati	on				_		_			
				Date			4/21/20	22			
Agency			WSP		Analysis Y	ear		NEPA 5			
Jurisdictio	on				Time Ana	yzed		MD			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, pc,	/mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	5 7		Total Segr	ments		1			
Total Ana	llysis Periods		1		Analysis P	eriod Duratio	n, min	15			
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Length	, ft	Land	es	
1	Basic		Basic				5280)	2		
Facility	y Segment	Data									
				Segme	nt 1: Basi	c					
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)		LOS	
1	0.94	0.797	912		1400	0.21	41.8		10.9	А	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	'In Der	nsity, veh/mi	i/In Tı	Travel Time, min		LOS		
1	41.8		10.9		8.7		1.40		А		
Facility	y Overall R	esults									
Space Mean Speed, mi/h 41.8					Density, v	Density, veh/mi/ln			8.7		
Average Travel Time, min 1.40					Density, pc/mi/ln 10.9						
Messa	ges										
Comm	ents										



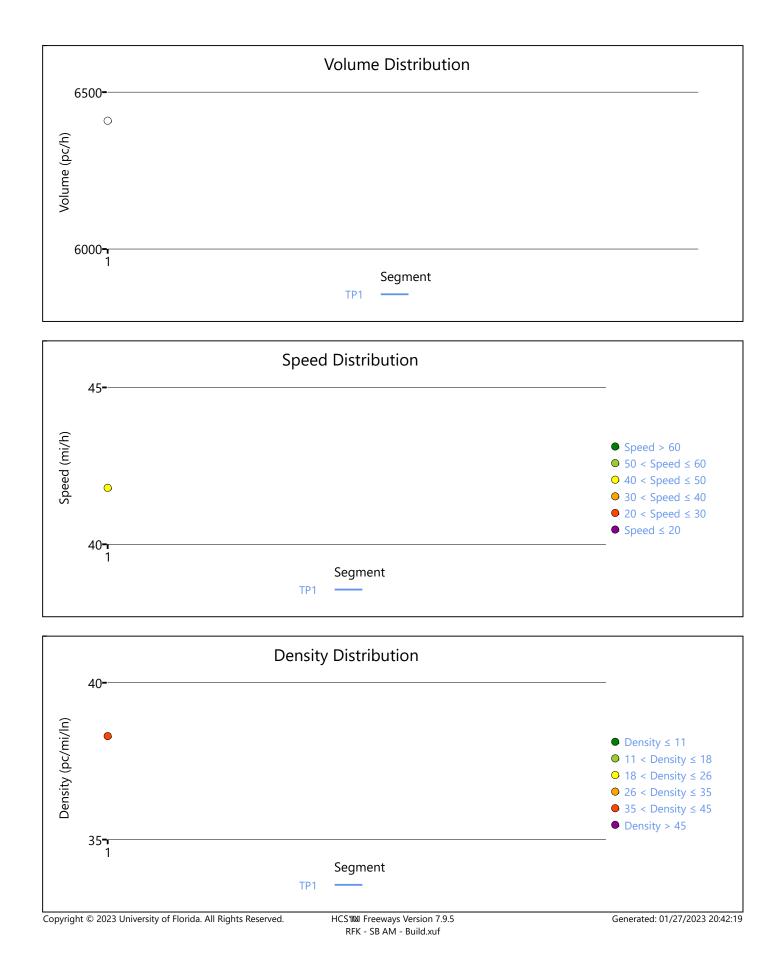
			HCS7	Freeway	Facilitie	es Repo	rt					
Proiec	t Informati	on						-		-		
					Date	Date 4/21/2022						
Agency			WSP		Analysis Y	ear		NEPA 5				
Jurisdicti	on				Time Ana	yzed		PM				
Project D	escription		CBD		Units			U.S. Cus	stomary			
Facility	y Global In	put										
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, p	c/mi/ln	45.0				
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1				
Total Ana	Ilysis Periods		1		Analysis F	eriod Durati	on, min	15				
Facility Le	ength, mi		1.00									
Facility	y Segment	Data										
No.	Coded		Analyzed		Name		Length, ft		Lanes			
1	Basic		Basic					5280				
Facility	y Segment	Data										
				Segme	nt 1: Basi	c						
АР	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)		LOS		
1	0.94	0.912	1122	2	400	0.26	41.8		13.4	В		
Facility	y Analysis I	Results										
AP	Speed, m	i/h	Density, pc/mi/	'In Den	sity, veh/m	i/In ·	Travel Time, mi	n	LOS			
1	41.8		13.4		12.2		1.40		В			
Facility	y Overall R	esults										
Space Mean Speed, mi/h 41.8					Density, v	Density, veh/mi/ln			12.2			
Average Travel Time, min 1.40					Density, pc/mi/ln 13.4							
Messa	ges											
Comm	ents											



			HCS7	Freeway	[,] Facilitie	es Repoi	t			
Projec	t Informati	on		,	_		_	_	_	
					Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NEPA 5		
Jurisdictio	on				Time Ana	yzed		LN		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	/ Global Inj	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, pc	/mi/ln	45.0		
Queue Di	ischarge Capaci	ity Drop, %	7		Total Seg	ments		1		
Total Ana	lysis Periods		1		Analysis F	eriod Duratic	on, min	15		
Facility Le	ength, mi		1.00							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic			5		80 2		
Facility	/ Segment	Data								
				Segme	nt 1: Basi	c				
ΑΡ	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)		LOS
1	0.94	0.809	274		4400	0.06	41.8		3.3	A
Facility	/ Analysis F	Results								
АР	Speed, m	i/h	Density, pc/mi/	'ln Dei	nsity, veh/m	i/ln T	Travel Time, min		LOS	
1	41.8		3.3		2.7		1.40		А	
Facility	y Overall R	esults								
Space Mean Speed, mi/h 41.8					Density, v	eh/mi/ln		2.7		
Average ⁻	Travel Time, mir	n	1.40		Density, p	c/mi/ln		3.3		
Messa	ges									
Comm	ents									



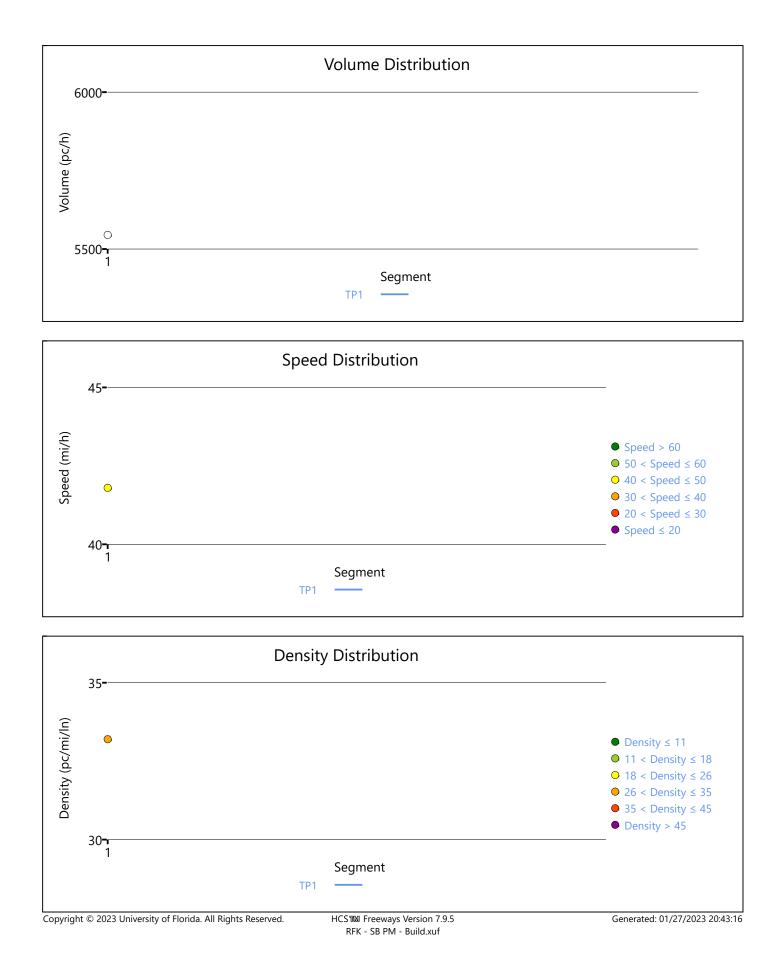
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Proiec	t Informati	ion						_	_		
					Date			4/21/20	22		
Agency			WSP		Analysis Y	′ear		NEPA 5			
Jurisdictio	on				Time Ana	lyzed		AM			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	t Capacity,	oc/mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	ments		1			
Total Ana	Ilysis Periods		1		Analysis P	Period Dura	tion, min	15			
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Lengt	yth, ft Lan		ies			
1	Basic		Basic					3634			
Facility	y Segment	Data									
				Segme	nt 1: Basi	ic					
АР	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)		LOS	
1	0.94	0.917	6409		8800	0.73	41.8		38.3	E	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	În De	nsity, veh/m	i/ln	Travel Time, m	in	LOS		
1	41.8		38.3		35.1		1.00		E		
Facility	y Overall R	esults									
Space Mean Speed, mi/h 41.8						eh/mi/ln		35.1			
Average Travel Time, min 1.00				Density, p	Density, pc/mi/ln 38.3						
Messa	ges										
Comm	ents										



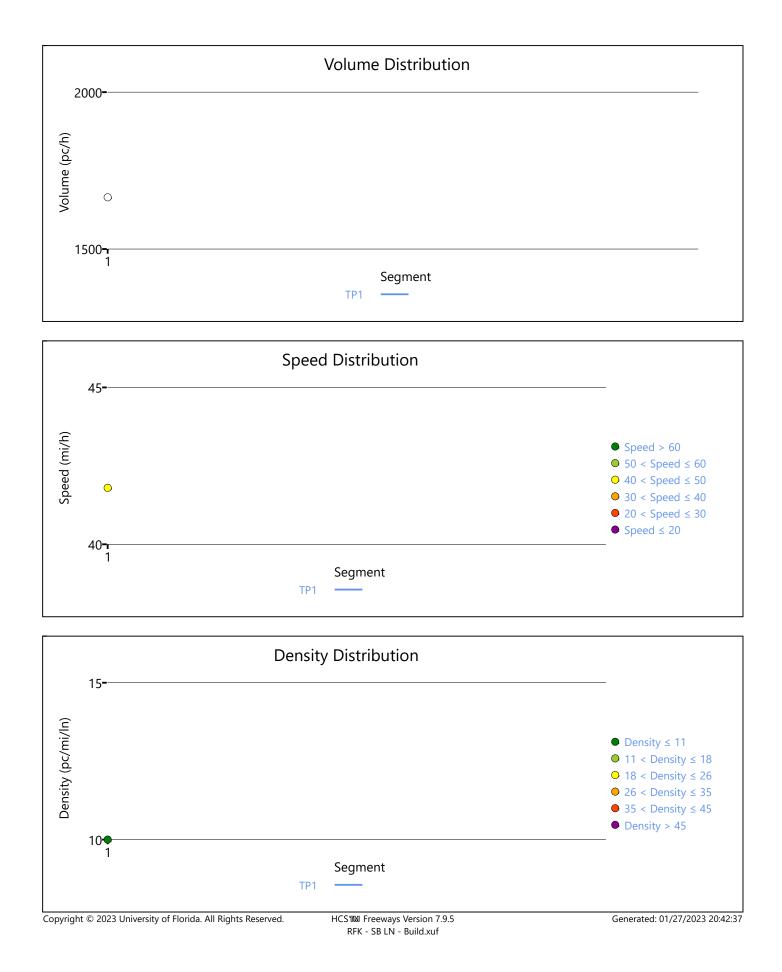
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Projec	t Informati	on		_		_	_	_	_		
•					Date			4/21/20	22		
Agency			WSP		Analysis Y	ear		NEPA 5			
Jurisdicti	on				Time Anal	yzed		MD			
Project D	escription		CBD		Units			U.S. Cus	tomary		
Facility	y Global In	put									
Jam Den	sity, pc/mi/ln		190.0		Density at	Capacity, p	oc/mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1			
Total Ana	lysis Periods		1		Analysis P	eriod Durat	ion, min	15			
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name		Lengt	h, ft	Lan	es	
1	Basic		Basic				363	4 4			
Facility	y Segment	Data									
				Segr	ment 1: Basi	с					
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)		LOS	
1	0.94	0.888	4822		8800	0.55	41.8		28.9	D	
Facility	y Analysis I	Results									
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	sity, veh/mi/ln Tr		in	LOS		
1	41.8		28.9		25.7		1.00		D		
Facility	y Overall R	esults									
Space Mean Speed, mi/h 41.8					Density, ve	eh/mi/ln		25.7			
Average Travel Time, min 1.00					Density, p	Density, pc/mi/ln 28.9					
Messa	ges										
Comm	ents										



			HCS7	Free	way Facilitie	es Repo	ort			
Proiec	t Informati	on						-	_	
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Y	ear		NEPA 5		
Jurisdictio	on				Time Anal	yzed		PM		
Project D	escription		CBD		Units			U.S. Cus	tomary	
Facility	y Global In	put						-		
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity, p	oc/mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segr	nents		1		
Total Ana	lysis Periods		1		Analysis P	eriod Durat	tion, min	15		
Facility Le	ength, mi		0.69							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Lengt	ı, ft	Lan	es
1	Basic		Basic				363	4	4	
Facility	y Segment	Data								
				Seg	gment 1: Basi	c				
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio	Speed (mi/h))ensity c/mi/ln)	LOS
1	0.94	0.951	5545		8800	0.63	41.8		33.2	D
Facility	y Analysis I	Results								
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Travel Time, m	in	LOS	
1	41.8		33.2		31.6		1.00		D	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, ve	eh/mi/ln		31.6		
Average	Travel Time, mi	n	1.00		Density, p	c/mi/ln		33.2		
Messa	ges									
Comm	ents									

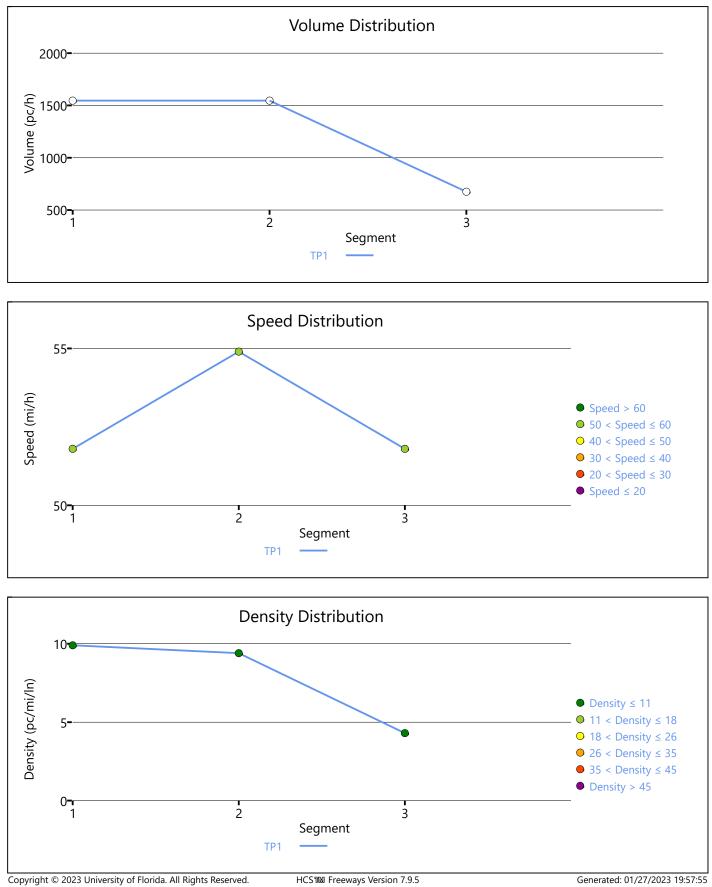


			HCS7	Freew	vay Facilitie	es Rep	ort				
Projec	t Informati	on		_			-	_	_	_	
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Ye	ear			NEPA 5		
Jurisdictio	on				Time Anal	yzed			LN		
Project D	escription		CBD		Units				U.S. Cus	tomary	
Facility	y Global Inj	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity,	pc/n	ni/ln	45.0		
Queue D	ischarge Capaci	ity Drop, %	7		Total Segn	nents			1		
Total Ana	llysis Periods		1		Analysis P	eriod Dura	ation,	, min	15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lan	es
1	Basic		Basic					3634		4	
Facility	y Segment	Data									
				Segi	ment 1: Basi	с					
АР	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d/c Ratio		Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.924	1665		8800	0.19		41.8		10.0	A
Facility	y Analysis F	Results									
AP	Speed, m	i/h	Density, pc/mi/	/In	Density, veh/mi	/In	Tra	vel Time, mi	n	LOS	
1	41.8		10.0		9.2			1.00		А	
Facility	y Overall R	esults									
Space Me	ean Speed, mi/ł	<u>ו</u>	41.8		Density, ve	eh/mi/ln			9.2		
Average	Travel Time, mir	n	1.00		Density, p	c/mi/ln			10.0		
Messa	ges										
Comm	ents										



					HC	CS7 Fre	eeway F	acilitie	es Re	eport						
Projec	t Info	rmati	ion	_					_	_	_	_				
Analyst					CJ			Date					4/21/2022			
Agency					WSP			Analysis Y	'ear				NEPA 5			
Jurisdicti	on							Time Ana	yzed				AM			
Project D	Descripti	on			CBD			Units					U.S. Custo	mary		
Facility	y Gloł	oal In	put				I									
Jam Den	sity, pc/	mi/ln			190.0			Density at	: Capaci	ity, pc/r	ni/ln		45.0			
Queue D	ischarge	e Capac	ity Dro	o, %	7			Total Segr	ments				3			
Total Ana	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15			
Facility L	ength, n	ni			1.29											
Facilit	y Seg	ment	Data													
No.		Coded			Analyzed			Name			L	.ength	ft	Lan	es	
1		Basic			Basic							2500		3		
2	I	Diverge			Basic			_				1800		3		
3		Basic			Basic	sic						2500) 3			
Facilit	y Segi	ment	Data													
						:	Segment	t 1: Basi	ic							
AP	PI	łF	f⊦	IV	Flow (pc)		Capa (pc)			/c tio		eed i/h)		nsity ni/ln)	LOS	
1	0.	94	0.8	56	154	46	66	54	0.	23	51	1.8	G	.9	A	
					<u>.</u>	Se	egment 2	2: Diver	ge						1	
AP	PI	łF	f⊦	IV	Flow (pc,			oacity d/c c/h) Ratio				eed i/h)		nsity ni/ln)	LOS	
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp		
1	0.94	0.94	0.856	0.836	1546	873	6750	4200	0.23	0.21	54.9	55.0	9.4	9.4	А	
						:	Segment	t 3: Basi	ic							
AP	PI	łF	f⊦	IV	Flow (pc,		Capa (pc,			/c tio	Speed (mi/h)		Density (pc/mi/ln)		LOS	
1	0.	94	0.8	80	67	5	66	54	0.	10	51	1.8	4	.3	A	
Facilit	y Ana	lysis	Resul	ts									-			
AP	Sp	oeed, m	ni/h		Density, p	c/mi/ln	Densi	ty, veh/mi	i/In	Tra	vel Tin	ne, mir	n	LOS		
1 52.8 7.7								6.6			1.50	0		А		
Facilit	y Ove	rall R	esults	5												
Space M	ean Spe	ed, mi/	h		52.8			Density, v	eh/mi/l	n			6.6			
	Travel T	ime, mi	n		1.50			Density, p	c/mi/ln	I			7.7			
Average																
Average Messa							·									

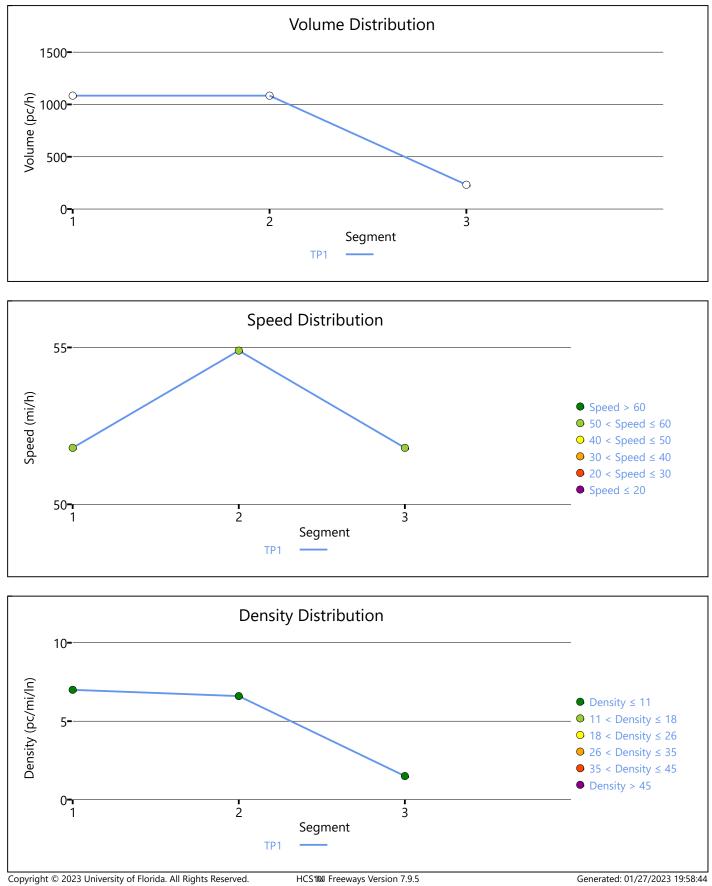
WARNING 2	Length of accel/decel lane is longer than 1500 feet for segment 2.
Comments	



NJ Turnpike - Eastern Spur SB AM - Build.xuf

					HC	CS7 Fre	eeway l	aciliti	es Re	eport					
Projec	ct Info	rmati	ion	_	_	_		_	_	_	_	_	_	_	_
Analyst					CJ			Date					4/21/2022	2	
Agency					WSP			Analysis Y	′ear				NEPA 5		
Jurisdicti	ion							Time Ana	lyzed				MD		
Project D	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	y Glol	oal In	put												
Jam Den	nsity, pc/	mi/ln		_	190.0			Density at	t Capac	ity, pc/r	ni/ln	_	45.0		
Queue D	Discharge	e Capac	ity Drop	o, %	7			Total Seg	ments				3		
Total Ana	alysis Pe	riods			1			Analysis F	Period D	uration	, min		15		
Facility L	.ength, n	ni			1.29										
Facilit	y Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lan	es
1		Basic			Basic							2500		3	
2		Diverge			Basic			_				1800	· · · · ·	3	
3 Basic					Basic						2500			3	
Facilit	y Seg	ment	Data												
						:	Segmen	t 1: Basi	ic						
AP PHF fHV					Flow (pc,		Capa (pc)			/c tio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	31	108	84	66	54	0.	16	5	1.8		7.0	Α
						Se	egment	2: Diver	ge						
AP	PI	HF	fŀ	IV	1	Flow Rate (pc/h)		acity /h)		/c tio		eed i/h)		nsity mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.831	0.806	1084	853	6750	4200	0.16	0.20	54.9	55.0	6.6	6.6	А
						:	Segmen	t 3: Basi	ic						
AP	PI	HF	f⊦	IV	Flow (pc,		Capa (pc)			/c tio		eed i/h)		nsity mi/ln)	LOS
1 0.94 0.921					23	2	66	54	0.	03	5	1.8		1.5	А
Facilit	y Ana	lysis	Resul	ts											
АР	S	peed, m	ni/h		Density, p	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	vel Tin	ne, mi	n	LOS	
1 52.9 4.9								4.1			1.5	0		А	
Facilit	y Ove	rall R	esults	5											
Space M	lean Spe	ed, mi/	h		52.9			Density, v	eh/mi/l	n			4.1		
Average	Travel T	ime, mi	n		1.50			Density, p	oc/mi/ln	l			4.9		
Messa	nges														

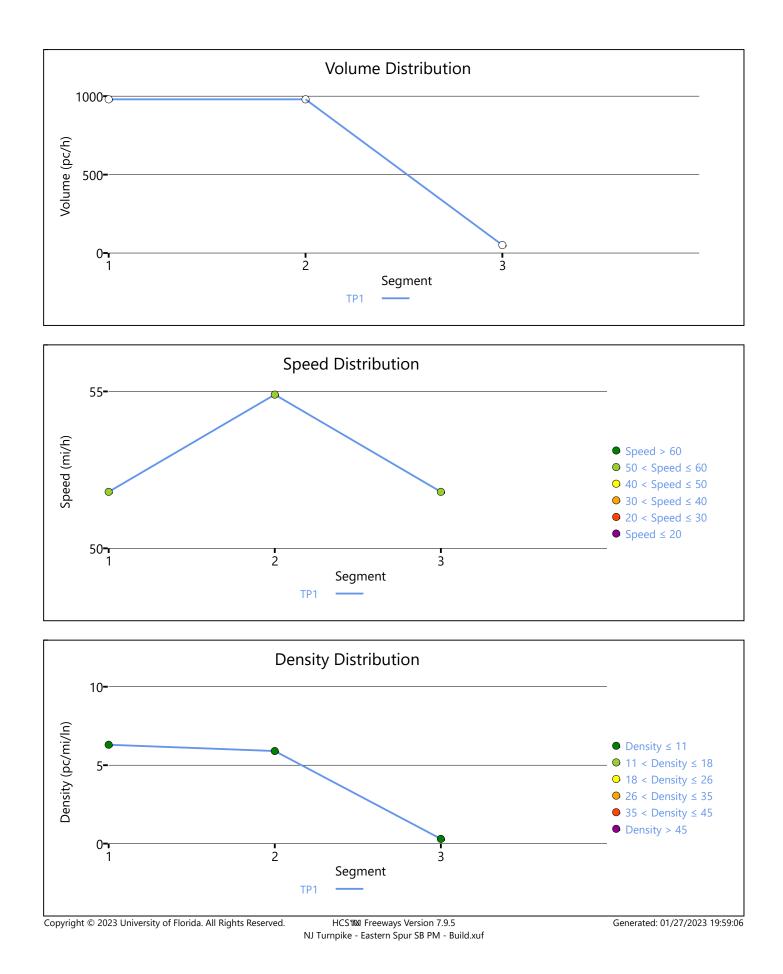
WARNING 2	Length of accel/decel lane is longer than 1500 feet for segment 2.
Comments	



NJ Turnpike - Eastern Spur SB MD - Build.xuf

					HC	S7 Fre	eeway F	acilitie	es Re	port					
Projec	t Info	rmati	ion	_	_	_		_	_		_	_	_	_	_
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Y	'ear				NEPA 5		
Jurisdicti	on							Time Anal	yzed				PM		
Project D	Descripti	on			CBD			Units					U.S. Custo	mary	
Facility	y Gloł	oal In	put												
Jam Den	sity, pc/	mi/ln			190.0			Density at	: Capaci	ity, pc/r	ni/ln		45.0		
Queue D	ischarge	e Capac	ity Drop	o, %	7			Total Segr	ments				3		
Total Ana	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15		
Facility Le	ength, n	ni			1.29										
Facility	y Segi	ment	Data												
No.		Coded			Analyzed			Name		_	L	.ength	, ft	Lan	25
1		Basic			Basic							2500		3	
2	I	Diverge			Basic			_				1800		3	
3		Basic			Basic						2500	3			
Facility	y Segi	ment	Data												
							Segment	t 1: Basi	ic						
АР	PI	łF	fH	IV	Flow (pc)		Capa (pc,		-	/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.9	19	98	0	66	54	0.	15	51	.8	6	.3	A
						Se	egment 2	2: Diver	ge						
AP	PI	łF	fH	IV	Flow (pc)			Capacity (pc/h)		d/c Ratio		eed i/h)		nsity ni/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.919	0.926	980	928	6750	4200	0.15	0.22	54.9	55.0	5.9	5.9	А
						9	Segment	t 3: Basi	ic						
АР	PI	łF	fH	IV	Flow (pc,		Capa (pc,		d, Ra	/c tio				nsity ni/ln)	LOS
1	0.	94	0.8	808	5	1	66	54	0.0	01	51	.8	C	.3	A
Facility	y Ana	lysis l	Result	ts											
AP	Sp	oeed, m	ni/h		Density, p	c/mi/ln	Densi	ity, veh/mi	i/In	Tra	vel Tin	ne, mii	n	LOS	
1		53.0			4.0			3.6			1.50	0		А	
Facility	y Ove	rall R	esults	5											
Space M	ean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			3.6		
													4.0		
Average	naveri														
Average Messa															

WARNING 2	Length of accel/decel lane is longer than 1500 feet for segment 2.
Comments	



Appendix 4B.6-157

					HC	S7 Fre	eeway F	aciliti	es Re	port					
Projec	t Info	rmati	ion	_	_	_		_	_		_	_	_	_	_
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Y	'ear				NEPA 5		
Jurisdicti	on							Time Ana	yzed				LN		
Project D	Descripti	on			CBD			Units					U.S. Custo	mary	
Facility	y Gloł	oal In	put												
Jam Den	sity, pc/	mi/ln			190.0			Density at	: Capaci	ity, pc/r	ni/ln		45.0		
Queue D	ischarge	e Capac	ity Dro	o, %	7			Total Segr	ments				3		
Total Ana	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15		
Facility L	ength, n	ni			1.29										
Facility	y Seg	ment	Data												
No.		Coded			Analyzed			Name			L	.ength	, ft	Lan	es
1		Basic			Basic							2500		3	
2	I	Diverge			Basic			_				1800		3	
3		Basic			Basic						2500) Ξ		3	
Facility	y Segi	ment	Data												
						:	Segment	t 1: Basi	ic						
AP	PI	HF	f⊦	IV	Flow (pc,		Capa (pc)			/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.8	99	54	2	66	54	0.	08	51	1.8	3	.5	А
					<u> </u>	Se	egment 2	2: Diver	ge						1
AP	PI	łF	fŀ	IV	Flow (pc,		Capacity (pc/h)		d/c Ratio		Spe (mi	eed i/h)		nsity ni/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.899	0.906	542	523	6750	4200	0.08	0.12	54.9	55.0	3.3	3.3	А
						:	Segment	t 3: Basi	ic						
AP	PI	HF	f⊦	IV	Flow (pc,		Capa (pc,			/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	0.7	'06	20	C	66	54	0.	00	51	1.8	().1	А
Facility	y Ana	lysis	Resul	ts											
AP	Sp	oeed, m	ni/h		Density, p	c/mi/ln	Densi	ty, veh/mi	i/In	Tra	vel Tin	ne, mir	۱	LOS	
1		53.0			2.2			2.0			1.50	0		А	
Facility	y Ove	rall R	esults	5											
													2.0		
Space M	Average Travel Time, min 1.50 Density, pc/mi/ln 2.2														
	Travel T	ime, mi	n		1.50			Density, p	C/III/III				2.2		
•		ime, mi	n		1.50			Density, p					2.2		

WARNING 2	Length of accel/decel lane is longer than 1500 feet for segment 2.
Comments	

