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.

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

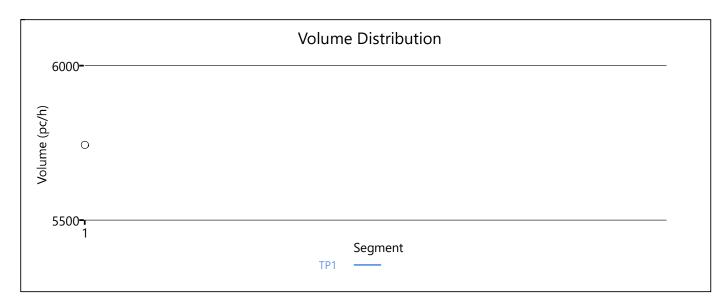
Table 4B.6-1 Summary of Highway Capacity Software Results

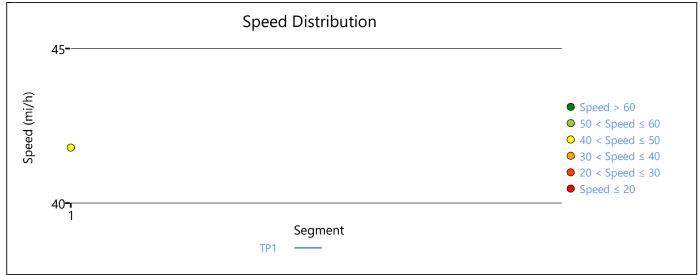
		HOURLY VOLUME								
DIRECTION	LOCATION	EXISTING CONDITION	NO ACTION ALTERNATIVE	CBD TOLLING ALTERNATIVE (Tolling Scenario D)	INCREMENTAL CHANGE					
Hourly Volume										
	Bayonne Bridge	1,075	1,091	1,467	376					
	RFK Bridge	4,452	4,575	5,083	508					
Northbound	Eastern Spur I-95 (Pre-ramp)	152	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					

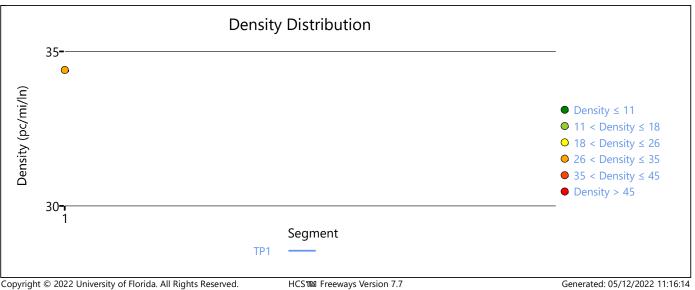
Appendix 4B.6-2 August 2022

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

			HCS7	Freeway	Facilities R	eport				
Projec	t Informati	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			Existing		
Jurisdictio	on				Time Period Ana	alyzed		AM		
Project D	escription		CBD							
Facility	/ Global Iոր	out								
Jam Dens	sity, pc/mi/ln		190.0		Density at Capa	city, pc/r	mi/ln	45.0		
Queue Di	ischarge Capaci	ty Drop, %	7		Total Segments			1		
Total Tim	e Periods		1		Time Period Du	ration, m	in	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	ies
1	Basic		Basic					3634		
Facility	/ Segment	Data		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity	d/c latio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.917	5744	88	300 (0.65	41.8		34.4	D
Facility	/ Time Peri	od Resul	ts							
т	Speed, m	i/h	Density, pc/mi/	'In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		34.4		31.5		1.00		D	
Facility	/ Overall Re	esults								
C N4-	ean Speed, mi/h	1	41.8		Density, veh/mi	/ln		31.5		
Space ivie			1.00		Density, pc/mi/l	ln		34.4		
<u> </u>	Travel Time, mir	1			7.1					
Average ⁻					3/1 / /					
	ges		1.100		7/1 /					



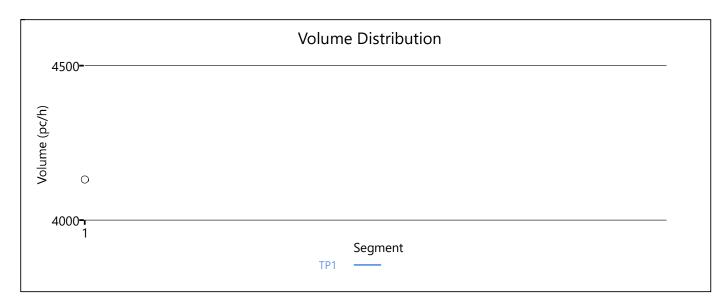


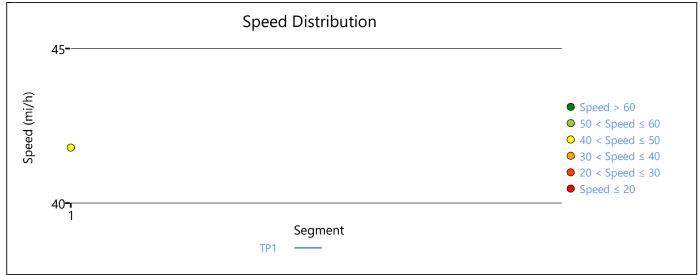


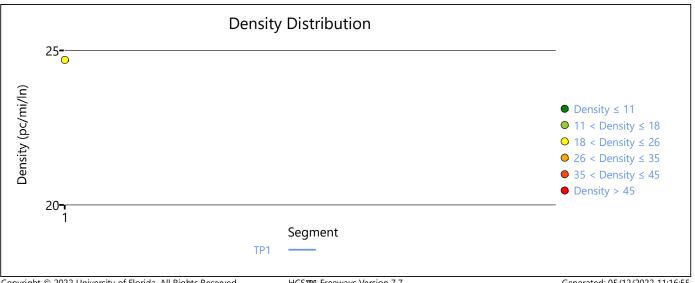
RFK - SB AM - Existing.xuf

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			HCS7	Freeway	Facilities I	Report				
Projec	t Informati	ion								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			Existing		
Jurisdictio	on				Time Period A	nalyzed		MD		
Project D	escription		CBD							
Facility	, Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at Cap	acity, pc/ı	mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segment	:S		1		
Total Tim	e Periods		1		Time Period D	uration, m	nin	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment	Data								
No.	Coded	\top	Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic					1	4	
	/ Segment	I			nt 1: Basic	.,			•	
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity c/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.883	4132	8	800	0.47	41.8		24.7	С
Facility	, Time Peri	iod Resu	lts							
т	Speed, m	ni/h	Density, pc/mi,	/In Dens	sity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		24.7		21.8		1.00		С	
Facility	/ Overall R	esults								
Space Me	ean Speed, mi/l	h	41.8		Density, veh/n	ni/ln		21.8		
space ivit		n	1.00		Density, pc/mi	/ln		24.7		
<u> </u>	Travel Time, mi									
<u> </u>										
Average ⁻	ges									



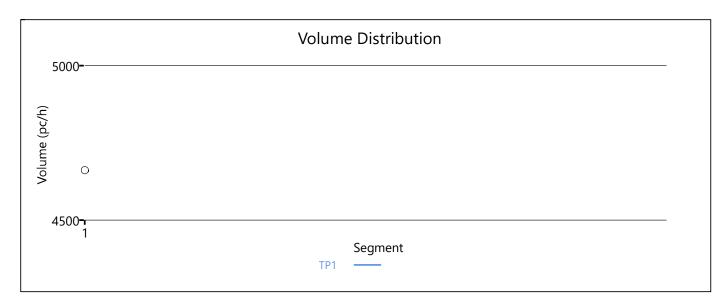


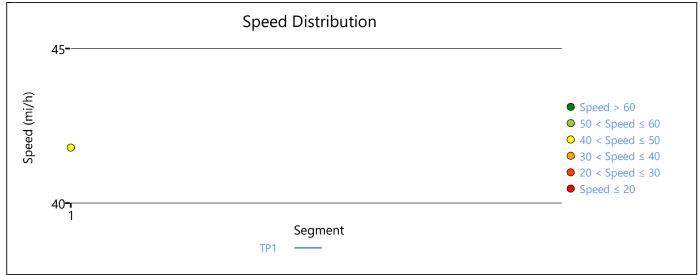


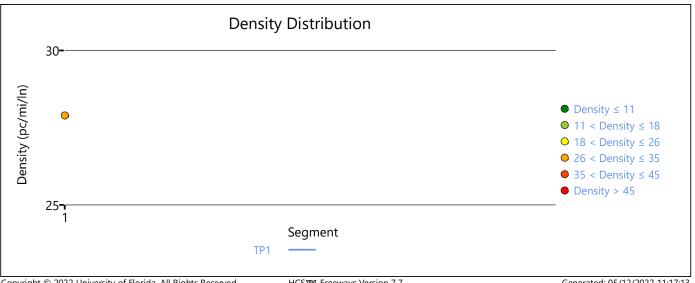
HCS™ Freeways Version 7.7 RFK - SB MD - Existing.xuf

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			HCS7	Freeway	Facilities Re	eport				
Projec	t Informati	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			Existing		
Jurisdictio	on				Time Period Ana	lyzed		PM		
Project D	escription		CBD							
Facility	/ Global Inp	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at Capac	ity, pc/r	mi/ln	45.0		
Queue Di	ischarge Capaci	ity Drop, %	7		Total Segments			1		
Total Tim	e Periods		1		Time Period Dura	ation, m	in	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	ies
1	Basic		Basic			3634	ļ	4		
Facility	/ Segment	Data		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity d	l/c atio	Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.949	4662	88	300 0.	.53	41.8		27.9	D
Facility	/ Time Peri	od Resul	ts							
т	Speed, m	i/h	Density, pc/mi/	'In Dens	ity, veh/mi/ln	Tra	vel Time, mi	n	LOS	
1	41.8		27.9		26.5		1.00		D	
Facility	Overall Re	esults								
Space Me	ean Speed, mi/b	1	41.8		Density, veh/mi/	ln		26.5		
•	Tues al Tius e unio	า	1.00		Density, pc/mi/lr	า		27.9		
<u> </u>	iravei Time, mir									
Average Messa										
Average ⁻	ges									



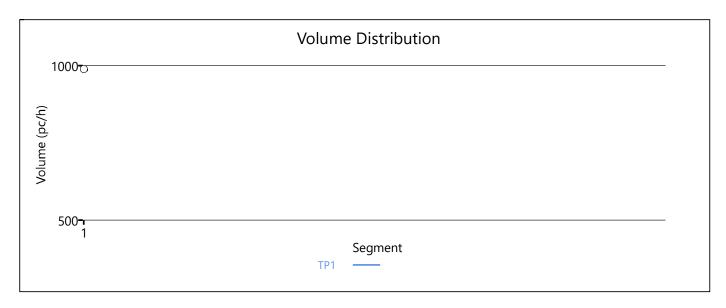


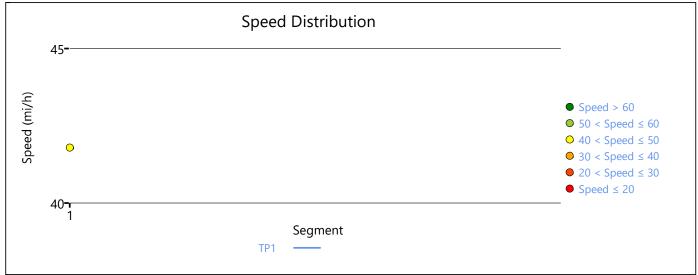


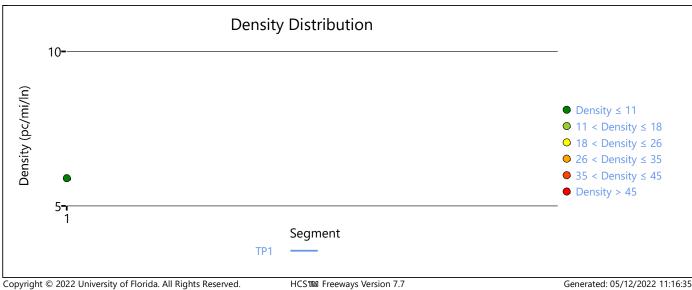
HCS™ Freeways Version 7.7 RFK - SB PM - Existing.xuf

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			HCS7	Freeway	Facilitie	es Re	port	t			
Projec	t Informati	ion									
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Ye	ear			Existing		
Jurisdiction	on				Time Perio	od Analy	yzed		LN		
Project D	escription		CBD								
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capaci	ity, pc/ı	mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segn	nents			1		
Total Tim	e Periods		1		Time Perio	od Dura	tion, m	nin	15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lar	ies
1	Basic		Basic					3634	1	4	
Facility	y Segment	Data		Segme	nt 1: Basi	c					
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/ Rat		Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.896	989	8	800	0.1	11	41.8		5.9	А
Facility	y Time Peri	iod Resu	lts								
т	Speed, m	ni/h	Density, pc/mi,	/In Den	sity, veh/mi	/In	Tra	avel Time, mi	n	LOS	
1	41.8		5.9		5.3			1.00		А	
Facility	y Overall R	esults									
Space Me	ean Speed, mi/	h	41.8		Density, ve	eh/mi/lı	n		5.3		
Average ¹	Travel Time, mi	n	1.00		Density, po	c/mi/ln			5.9		
Messa	ges										
Comm	onts										



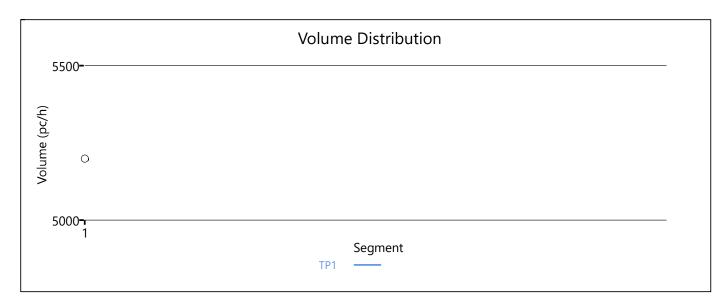


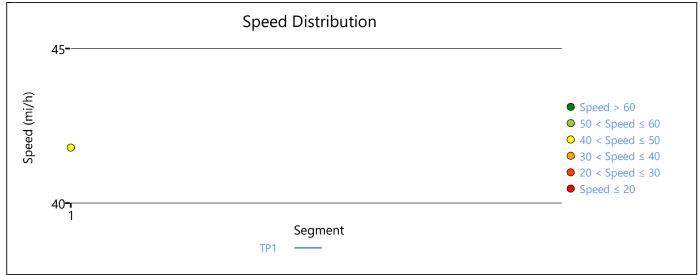


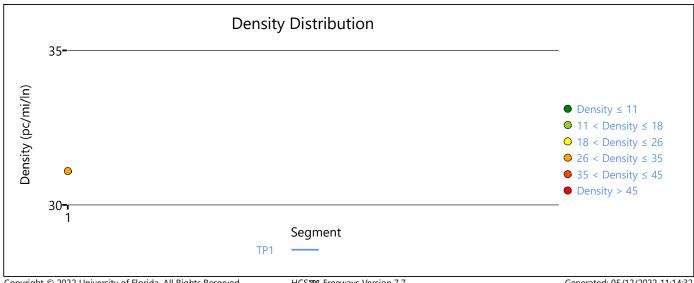
RFK - SB LN - Existing.xuf

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Project	Informati	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Ye	ear		Existing		
Jurisdictio	n				Time Perio	d Analyzed		AM		
Project De	escription		CBD							
Facility	Global Inp	out								
Jam Dens	ity, pc/mi/ln		190.0		Density at	Capacity, pc,	/mi/ln	45.0		
Queue Di	scharge Capaci	ty Drop, %	7		Total Segn	nents		1		
Total Time	e Periods		1		Time Perio	d Duration, r	nin	15		
Facility Le	ngth, mi		0.69							
Facility	Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic					1	4	
Facility	Segment	Data		Seamen	nt 1: Basi	r				
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity c/h)	d/c Ratio	Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.911	5199	88	300	0.59	41.8		31.1	D
Facility	Time Peri	od Resul	ts							
т	Speed, m	i/h	Density, pc/mi/	'In Dens	sity, veh/mi,	/In Ti	ravel Time, mi	n	LOS	
1	41.8		31.1		28.3		1.00		D	
Facility	Overall Re	esults								
Space Me	an Speed, mi/h	1	41.8		Density, ve	eh/mi/ln		28.3		
Average T	ravel Time, mir	1	1.00		Density, po	c/mi/ln		31.1		
Messag	ges									
Comm	ents									



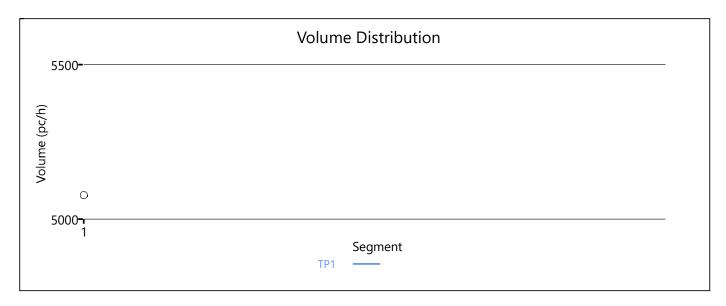


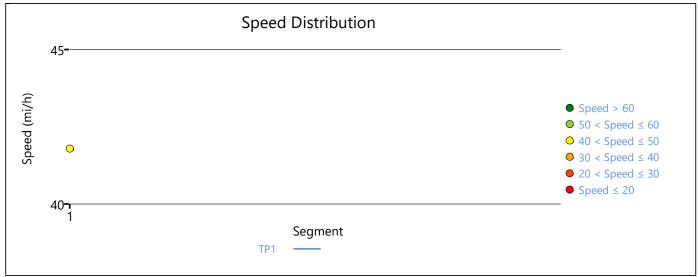


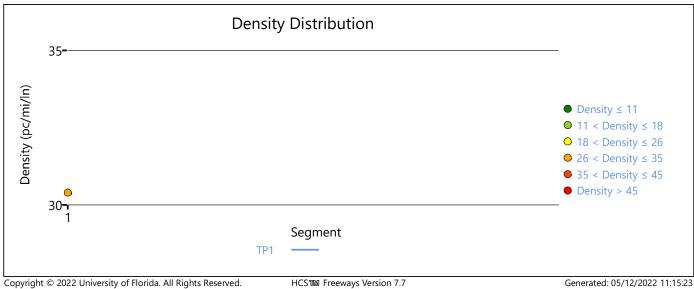
HCS™ Freeways Version 7.7 RFK - NB AM - Existing.xuf

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			HCS7	Freeway	Facilities Re	eport				
Project	t Informati	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			Existing		
Jurisdictio	on				Time Period Ana	lyzed		MD		
Project D	escription		CBD							
Facility	/ Global Inp	out								
Jam Dens	sity, pc/mi/ln		190.0		Density at Capac	city, pc/r	mi/ln	45.0		
Queue Di	ischarge Capaci	ty Drop, %	7		Total Segments			1		
Total Time	e Periods		1		Time Period Dur	ation, m	in	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic			3634	ļ	4		
Facility	/ Segment	Data		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity o	d/c atio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.906	5078	88	300 0	.58	41.8		30.4	D
Facility	/ Time Peri	od Resul	ts	·						
т	Speed, m	i/h	Density, pc/mi/	In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		30.4		27.5		1.00		D	
Facility	Overall Re	esults						-		
	an Spood mith	1	41.8		Density, veh/mi/	/In		27.5		
Space Me	ean speed, mi/i					n		30.4		
<u> </u>	Travel Time, mir	1	1.00		Density, pc/mi/li	11		30.4		
Average	Travel Time, mir	1	1.00		Density, pc/mi/li	11		30.4		
Space Me Average T	Travel Time, mir		1.00		Density, pc/mi/li			30.4		



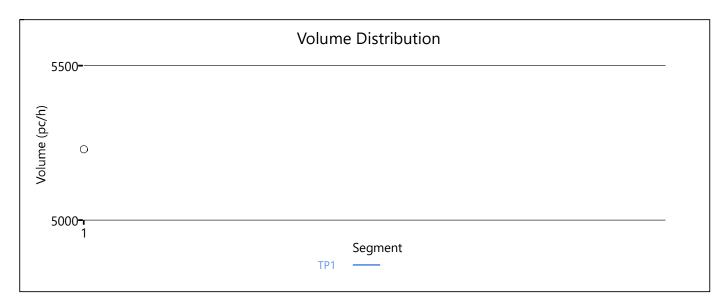


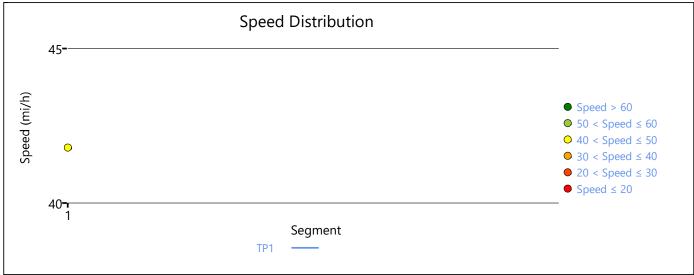


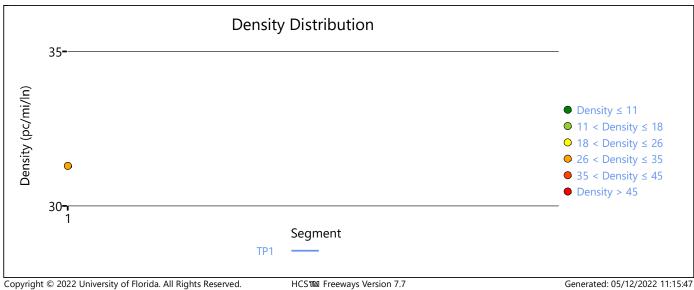
RFK - NB MD - Existing.xuf

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Project	Informati	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Ye	ar		Existing		
Jurisdictic	n				Time Perio	d Analyzed		PM		
Project De	escription		CBD							
Facility	Global Inp	out								
Jam Dens	ity, pc/mi/ln		190.0		Density at	 Capacity, pc/	mi/ln	45.0		
Queue Di	scharge Capaci	ty Drop, %	7		Total Segm	nents		1		
Total Time	Periods		1		Time Perio	d Duration, n	nin	15		
Facility Le	ngth, mi		0.69							
Facility	Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic					1	4	
Facility	Segment	Data		Seamer	nt 1: Basio					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	pacity c/h)	d/c Ratio	Speed (mi/h)		Pensity c/mi/ln)	LOS
1	0.94	0.958	5230	88	800	0.59	41.8		31.3	D
Facility	Time Peri	od Resul	ts							
т	Speed, m	i/h	Density, pc/mi/	'In Dens	sity, veh/mi/	⁄In Tr	avel Time, mi	n	LOS	
1	41.8		31.3		30.0		1.00		D	
Facility	Overall Re	esults								
Space Me	an Speed, mi/h	1	41.8		Density, ve	h/mi/ln		30.0		
Average T	ravel Time, mir	1	1.00		Density, po	:/mi/ln		31.3		
Messag	ges									
Comm	ents									



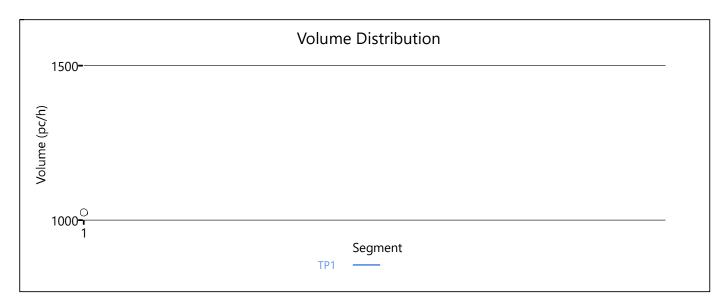


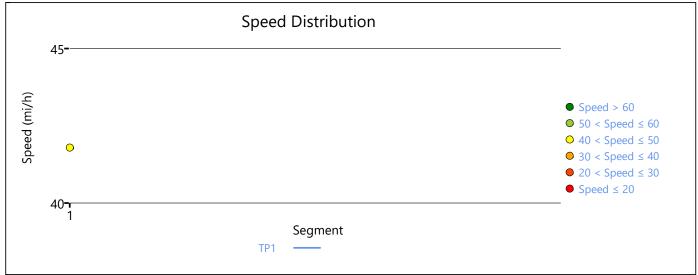


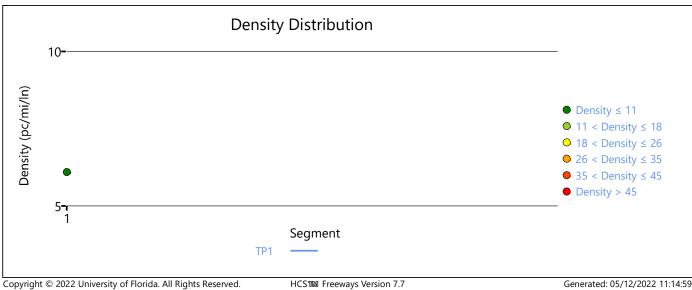
RFK - NB PM - Existing.xuf

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			HCS7	Freeway	Facilitie	s Rep	oort				
Projec	t Informati	ion									
Analyst			CJ		Date				4/21/20)22	
Agency			WSP		Analysis Ye	ar			Existing		
Jurisdictio	on				Time Perio	d Analyz	zed		LN		
Project D	escription		CBD								
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacity	y, pc/r	mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segm	nents			1		
Total Tim	e Periods		1		Time Perio	d Durati	ion, m	in	15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded	Т	Analyzed		Name			Length	, ft	Lan	ies
1	Basic		Basic					3634	1	4	
Facility	y Segment	Data		Segmer	nt 1: Basid	<u> </u>					
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Rati		Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.879	1025	8	800	0.12	2	41.8		6.1	А
Facility	y Time Peri	od Resu	lts								
т	Speed, m	ni/h	Density, pc/mi/	/In Den	sity, veh/mi/	/In	Tra	vel 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, ve	eh/mi/ln			5.4		
-	Traval Time mi	n	1.00		Density, po	:/mi/ln			6.1		
	iravei Time, mii										
Average Messa											
Average ⁻	ges										



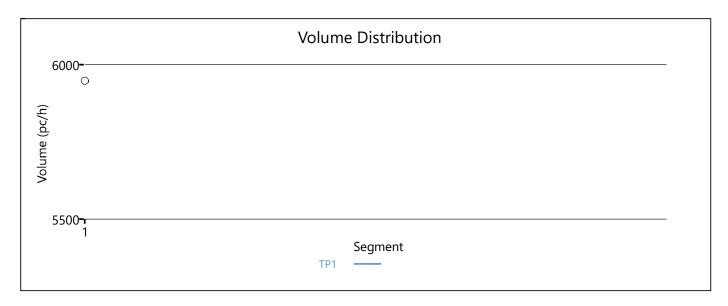


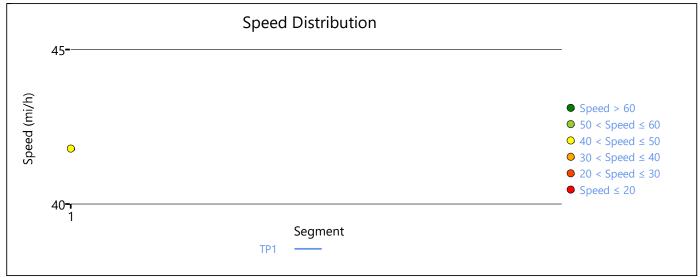


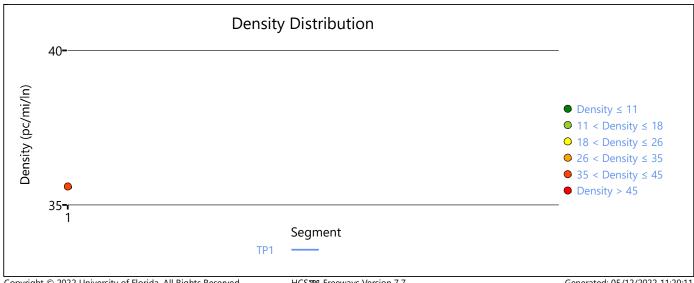
RFK - NB LN - Existing.xuf

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			HCS7	Freeway	Facilitie	es Rep	ort				
Projec	t Informat	ion									
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	ear			NoBuild	I	
Jurisdiction	on				Time Perio	od Analyz	zed		AM		
Project D	escription		CBD								
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	city Drop, %	7		Total Segr	nents			1		
Total Tim	e Periods		1		Time Perio	od Durati	on, m	in	15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lan	ies
1	Basic		Basic					3634		4	
Facility	y Segment	Data		Segme	nt 1: Basi	ic					
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/c Rati		Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.917	5948	8	800	0.68	3	41.8		35.6	E
Facility	y Time Peri	iod Resu	lts								
т	Speed, m	ni/h	Density, pc/mi,	/In Den	sity, veh/mi	i/ln	Tra	avel Time, mi	n	LOS	
1	41.8		35.6		32.6			1.00		Е	
Facility	y Overall R	esults									
Space Me	ean Speed, mi/	h	41.8		Density, v	eh/mi/ln			32.6		
Average [·]	Travel Time, mi	n	1.00		Density, p	c/mi/ln			35.6		
Messa	ges										
Comm	onts										



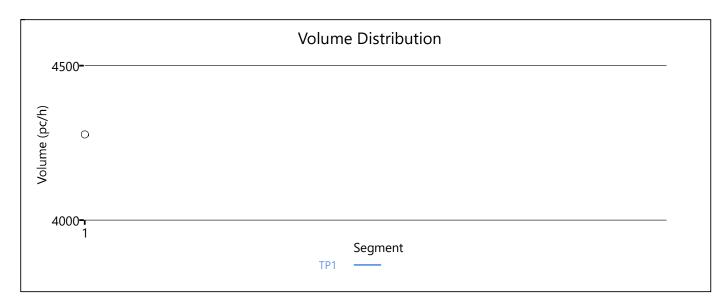


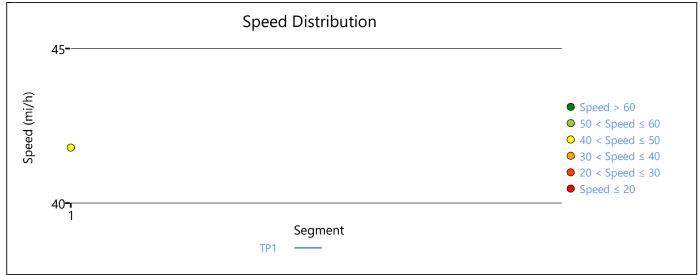


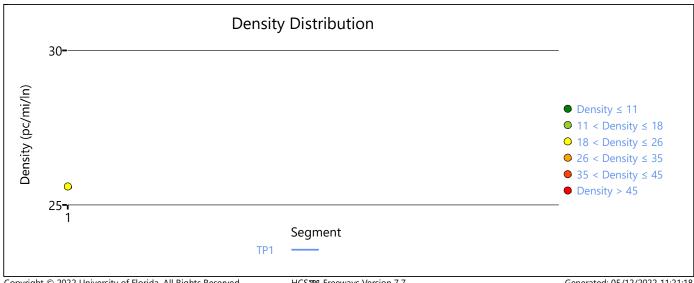
HCS™ Freeways Version 7.7 RFK - SB AM - NoBuild.xuf

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Projec	t Informat	ion								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Yea	ar		NoBuild	I	
Jurisdictio	on				Time Period	d Analyzed		MD		
Project D	escription		CBD							
Facility	/ Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at 0	Capacity, pc/	mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	6 7		Total Segm	ents		1		
Total Tim	e Periods		1		Time Period	d Duration, n	nin	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lane	es
1	Basic		Basic				3634	3634		
Facility	/ Segment	Data					-		-	
				Segmen	nt 1: Basic	<u> </u>				
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity c/h)	d/c Ratio	Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.883	4278	88	300	0.49	41.8		25.6	С
Facility	/ Time Peri	iod Resi	ults							
т	Speed, m	ni/h	Density, pc/mi/	/In Dens	sity, veh/mi/	In Tr	avel Time, mi	n	LOS	
1	41.8		25.6		22.6		1.00		С	
Facility	/ Overall R	esults		<u> </u>						
Space Me	ean Speed, mi/	h	41.8		Density, vel	n/mi/ln		22.6		
Average ⁻	Travel Time, mi	n	1.00		Density, pc	/mi/ln		25.6		
Messa	ges		,							
INFORMA	ATION 1		Density for se comparing LC	gment 1 in time OS results.	e period 1 is v	within 0.5 pc	/mi/In of LOS I	ooundary	. Be cautious	when
Comm	ents									



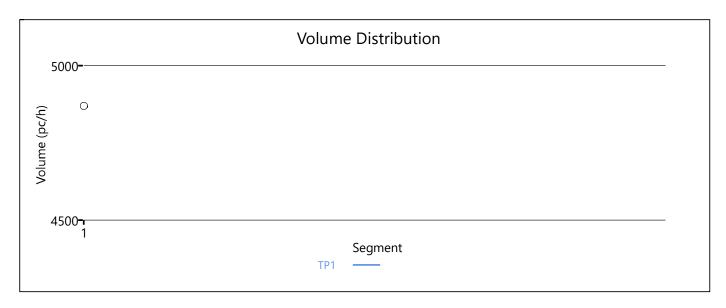


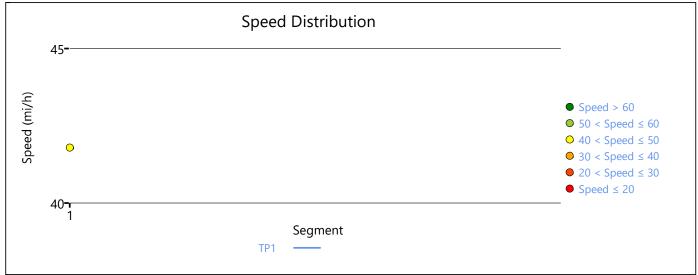


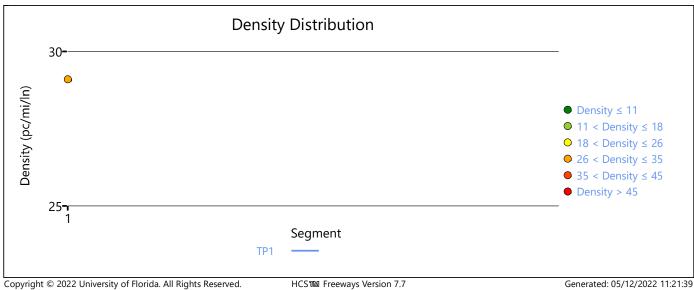
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Project	t Informatio	on										
Analyst			CJ		Date		4/21/202	22				
Agency			WSP		Analysis Year			NoBuild				
Jurisdictio	on				Time Period A	Analyzed		PM				
Project D	escription		CBD									
Facility	, Global Inp	ut										
Jam Dens	sity, pc/mi/ln		190.0		Density at Ca	pacity, pc/n	ni/In	45.0				
Queue Discharge Capacity Drop, %			7		Total Segmen	nts		1				
Total Time	e Periods		1		Time Period D	Duration, m	in	15				
Facility Le	ength, mi		0.69									
Facility	/ Segment [Data										
No.				Analyzed Name Length, ft								
	Coded		Analyzed		Name		Length	, ft	Lan	ies		
1	Basic		Analyzed Basic		Name		Length 3634		Lan 4			
1		Data	·	Segmen	Name							
1	Basic	Data	·	Сар		d/c Ratio		D				
1 Facility	Basic / Segment [Basic Flow Rate	Cap (po	at 1: Basic		3634 Speed	D (pc	ensity			
Time Period	Basic / Segment E PHF	fHV 0.949	Flow Rate (pc/h) 4870	Cap (po	at 1: Basic	Ratio	Speed (mi/h)	D (pc	ensity -/mi/ln)	LOS		
Time Period	PHF 0.94	fHV 0.949 od Result	Flow Rate (pc/h) 4870	Cap (po	at 1: Basic	Ratio 0.55	Speed (mi/h)	D (pc	ensity -/mi/ln)	LOS		
Time Period	PHF 0.94 Time Period	fHV 0.949 od Result	Flow Rate (pc/h) 4870	Cap (po	at 1: Basic Pacity c/h)	Ratio 0.55	3634 Speed (mi/h) 41.8	D (pc	ensity c/mi/ln)	LOS		
Time Period 1 Facility T 1	PHF 0.94 / Time Perio	fHV 0.949 od Result	Flow Rate (pc/h) 4870 Density, pc/mi/	Cap (po	at 1: Basic Pacity c/h)	Ratio 0.55	Speed (mi/h) 41.8	D (pc	Pensity -/mi/ln) 29.1 LOS	LOS		
Time Period 1 Facility T 1 Facility	PHF 0.94 / Time Period Speed, mi, 41.8	fHV 0.949 od Result /h	Flow Rate (pc/h) 4870 Density, pc/mi/	Cap (po	at 1: Basic Pacity c/h)	0.55 Tra	Speed (mi/h) 41.8	D (pc	Pensity -/mi/ln) 29.1 LOS	LOS		
Time Period 1 Facility T 1 Facility Space Me	PHF 0.94 / Time Period Speed, mi, 41.8 / Overall Re	fHV 0.949 od Result /h sults	Flow Rate (pc/h) 4870 SS Density, pc/mi/ 29.1	Cap (po	at 1: Basic Pacity C/h) 300 sity, veh/mi/ln 27.6	Ratio 0.55 Tra	Speed (mi/h) 41.8	D (pc	Pensity -/mi/ln) 29.1 LOS	LOS		
Time Period 1 Facility T 1 Facility Space Me	PHF 0.94 / Time Period Speed, mi, 41.8 / Overall Recean Speed, mi/h Travel Time, min	fHV 0.949 od Result /h sults	Flow Rate (pc/h) 4870 ts Density, pc/mi/ 29.1	Cap (po	at 1: Basic pacity pacity pacity pacity, veh/mi/ln pacity, veh/mi/ln pacity, veh/mi/ln	Ratio 0.55 Tra	Speed (mi/h) 41.8	D (pc	Pensity -/mi/ln) 29.1 LOS	LOS		



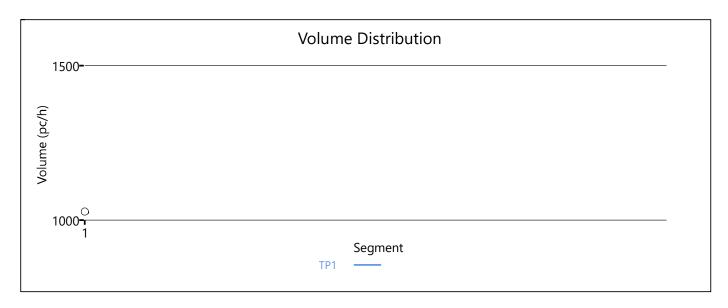


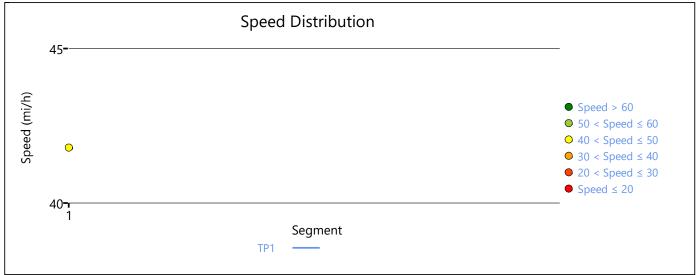


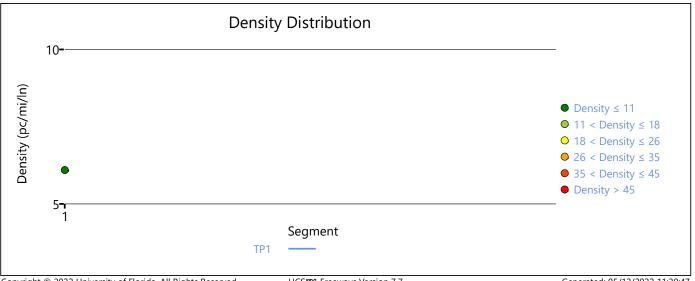
RFK - SB PM - NoBuild.xuf

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			HCS7	Freeway	[,] Facilitie	es Re	port	t				
Projec	t Informati	ion										
Analyst			CJ		Date				4/21/20)22		
Agency			WSP		Analysis Y	ear			NoBuild	t		
Jurisdictio	on				Time Perio	od Analy	yzed		LN			
Project D	escription		CBD									
Facility	, Global In	put										
Jam Dens	sity, pc/mi/ln		190.0		Density at	: Capaci	ty, pc/ı	mi/ln	45.0			
Queue Discharge Capacity Drop, %			7		Total Segr	ments			1			
Total Tim	e Periods		1		Time Perio	od Dura	tion, m	nin	15			
Facility Le	ength, mi		0.69									
Facility	/ Segment	Data										
No.	Coded	\neg	Analyzed	nalyzed Name					Length, ft		ies	
1	Basic		Basic	Basic				3634	1	4		
Facility	/ Segment	Data		Segme	nt 1: Basi	c						
Time Period	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)		/c tio	Speed (mi/h)		Density c/mi/ln)	LOS	
1	0.94	0.896	1028	3	0.12		41.8		6.1	А		
Facility	/ Time Peri	iod Resu	lts									
т	Speed, mi/h		Density, pc/mi,	i/ln Density, veh/m		i/ln	Travel Time, mi		in LOS			
1	41.8		6.1		5.5	5.5		1.00		А		
Facility	/ Overall R	esults										
Space Me	ean Speed, mi/l	h	41.8		Density, v	Density, veh/mi/ln			5.5			
Average ⁻	Travel Time, mi	n	1.00		Density, p	c/mi/ln			6.1			
	aes				•							
Messa	9-2											
Comm												



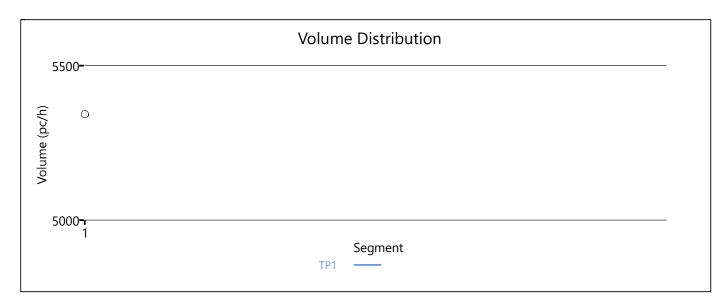


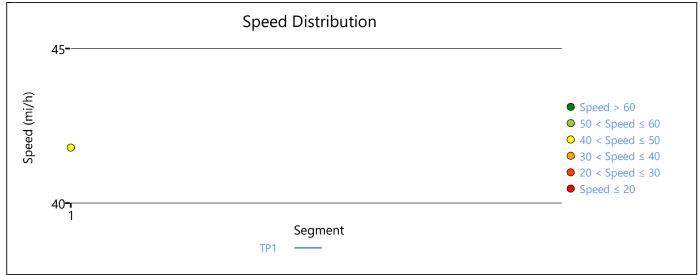


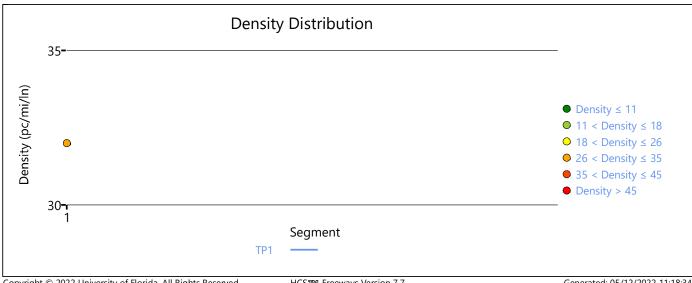
HCS™ Freeways Version 7.7 RFK - SB LN - NoBuild.xuf

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			HCS7	Freeway	Facilities Re	eport					
Projec	t Informati	on									
Analyst			CJ		Date			4/21/20	22		
Agency			WSP		Analysis Year			NoBuild			
Jurisdictio	on				Time Period Ana	lyzed		AM			
Project D	escription		CBD								
Facility	/ Global Inp	out									
Jam Dens	sity, pc/mi/ln		190.0		Density at Capac	ity, pc/n	ni/ln	45.0			
Queue Di	ischarge Capaci	ty Drop, %	7		Total Segments			1			
Total Tim	e Periods		1		Time Period Dura	ation, mi	in	15			
Facility Le	ength, mi		0.69								
Facility	/ Segment	Data									
No.	Coded		Analyzed	Analyzed Name Length, ft						es	
1	Basic		Basic				3634	Į.	4		
Facility	/ Segment	Data		Seamen	t 1: Basic						
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity d	I/c atio	Speed (mi/h)		Density c/mi/ln)	LOS	
1	0.94	0.911	5343	88	800 0.61		41.8	32.0		D	
Facility	/ Time Perio	od Resul	ts	·	·						
т	Speed, mi/h		Density, pc/mi/	ni/In Density, veh/mi/		Travel Time, min		n LOS			
1	41.8		32.0		29.2		1.00		D		
	· Overall Be	esults		·							
Facility	Overali Ke				Density, veh/mi/ln			29.2			
	ean Speed, mi/h	1	41.8		Density, ven/mi/			32.0			
Space Me			1.00		Density, ven/mi/			32.0			
	ean Speed, mi/h Travel Time, min				,			32.0			
Space Me	ean Speed, mi/h Travel Time, min				,			32.0			



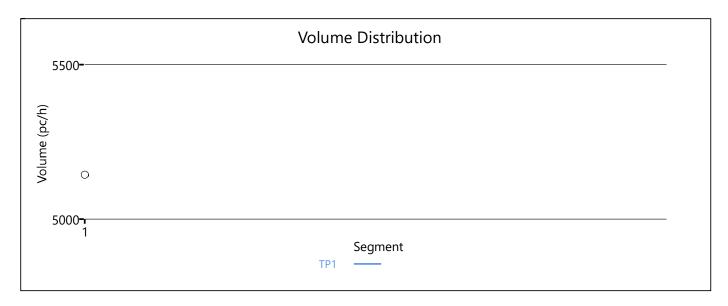


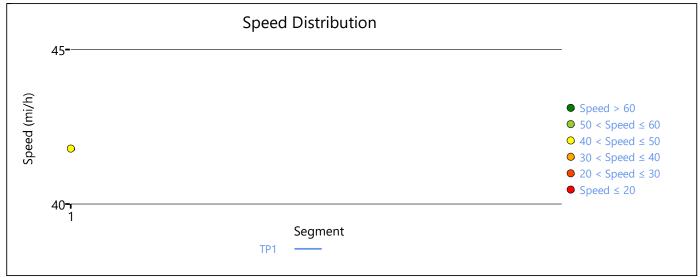


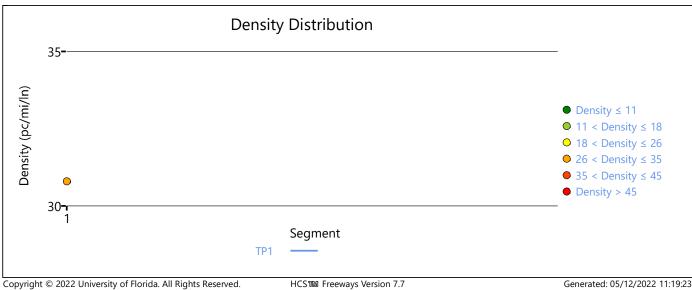
HCS™ Freeways Version 7.7 RFK - NB AM - NoBuild.xuf

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nformation									
	CJ		Date			4/21/202	22		
	WSP		Analysis Year			NoBuild			
			Time Period Ana	lyzed		MD			
cription	CBD								
Blobal Input									
, pc/mi/ln	190.0		Density at Capac	ity, pc/n	ni/ln	45.0			
narge Capacity Drop	, % 7		Total Segments			1			
eriods	1		Time Period Dura	ation, m	in	15			
th, mi	0.69								
egment Data									
Coded	Analyzed	Analyzed Name Length, ft						es	
Basic	Basic				3634	ļ	4	4	
Segment Data		Segment	t 1: Basic						
PHF fH	V Flow Rate (pc/h)		. , ,		Speed (mi/h)	Density (pc/mi/ln)		LOS	
0.94 0.90	06 5144	880	300 0.58 41.8			30.8 D			
	sults								
	Sults Density, pc/mi/	'In Densi	ty, veh/mi/ln	Tra	vel Time, mi	n	LOS		
ime Period Re		'In Densi	ty, veh/mi/ln 27.9	Tra	nvel Time, mi	n	LOS		
Speed, mi/h 41.8	Density, pc/mi/	'In Densi		Tra		n			
Speed, mi/h 41.8 Overall Results	Density, pc/mi/					n 27.9			
Speed, mi/h 41.8 Overall Results Speed, mi/h	Density, pc/mi/ 30.8		27.9	In					
sdiction sect Description cility Global Input Density, pc/mi/In sue Discharge Capacity Drop, % al Time Periods lity Length, mi cility Segment Data o. Coded I Basic cility Segment Data cility Segment Data cility Segment Data The Period PHF fHV 1 0.94 0.906 cility Time Period Results Speed, mi/h 41.8 cility Overall Results ce Mean Speed, mi/h	pc/mi/ln 190.0 parge Capacity Drop, % 7 eriods 1 th, mi 0.69 egment Data Coded Analyzed Basic Basic egment Data PHF fHV Flow Rate (pc/h)	pc/mi/ln 190.0 parge Capacity Drop, % 7 eriods 1 th, mi 0.69 egment Data Coded Analyzed Basic Basic egment Data Segment Data PHF fHV Flow Rate (pc/h) Capacity Drop, % 7 Capacity Drop, % 7 Flow Rate (pc/h) Capacity Drop, % 7 Capacity Drop, % 7 Flow Rate (pc/h) Capacity Drop, % 7 Capacity Drop, % 7 Flow Rate (pc/h) Capacity Drop, % 7 Capacity Drop, % 7	pc/mi/ln 190.0 Density at Capacity Drop, % 7 Total Segments eriods 1 Time Period Dura th, mi 0.69 egment Data Coded Analyzed Name Basic Basic egment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) Capacity (pc/h) Ra	pc/mi/ln 190.0 Density at Capacity, pc/n parge Capacity Drop, % 7 Total Segments eriods 1 Time Period Duration, m th, mi 0.69 egment Data Coded Analyzed Name Basic Basic egment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) Capacity (pc/h) Ratio	pc/mi/ln 190.0 Density at Capacity, pc/mi/ln arge Capacity Drop, % 7 Total Segments eriods 1 Time Period Duration, min th, mi 0.69 egment Data Coded Analyzed Name Length Basic Basic 3634 egment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) Capacity d/c Ratio (mi/h)	pc/mi/ln 190.0 Density at Capacity, pc/mi/ln 45.0 large Capacity Drop, % 7 Total Segments 1 leriods 1 Time Period Duration, min 15 lth, mi 0.69 egment Data Coded Analyzed Name Length, ft Basic Basic 3634 egment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) Capacity (pc/h) Ratio (mi/h) (pc/pc/mi/ln)	pc/mi/ln 190.0 Density at Capacity, pc/mi/ln 45.0 large Capacity Drop, % 7 Total Segments 1 eriods 1 Time Period Duration, min 15 th, mi 0.69 egment Data Coded Analyzed Name Length, ft Lan Basic Basic 3634 4 egment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) Capacity (pc/h) Ratio (mi/h) Density (pc/mi/ln)		



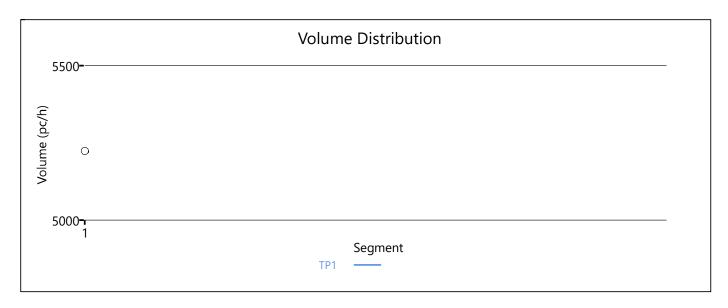


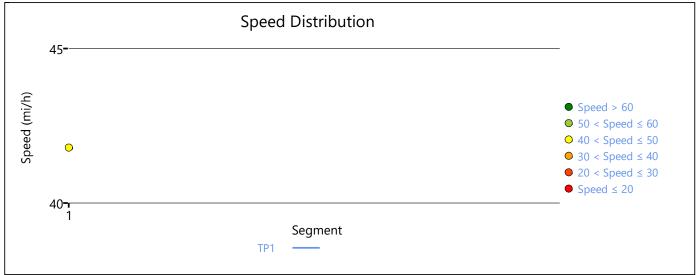


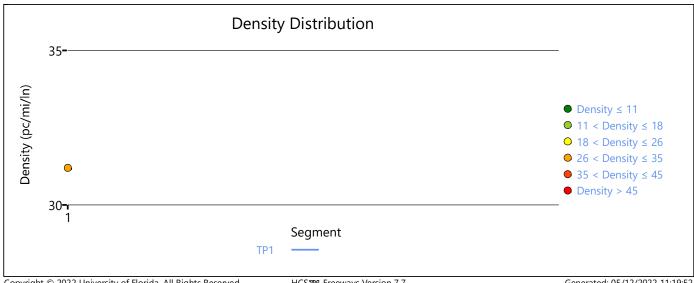
RFK - NB MD - NoBuild.xuf

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Project	Informati	on									
Analyst			CJ		Date			4/21/20	22		
Agency			WSP Analysis Year					NoBuild	l		
Jurisdictic	n				Time Perio	d Analyzed		PM			
Project De	escription		CBD								
Facility	Global Inp	out									
Jam Dens	ity, pc/mi/ln		190.0		Density at	Capacity, pc/	/mi/ln	45.0			
Queue Di	scharge Capaci	ty Drop, %	7		Total Segm	nents		1			
Total Time	Periods		1		Time Perio	d Duration, n	nin	15			
Facility Le	ngth, mi		0.69								
Facility	Segment	Data									
No.	Coded		Analyzed	Analyzed Name Length						nes	
1	Basic		Basic				3634	4	4		
Facility	Segment	Data		Seamer	nt 1: Basio	<u> </u>					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	Capacity d		Speed (mi/h)		Density c/mi/ln)	LOS	
1	0.94	0.958	5224	88	800 0.59 41.8			31.2 D			
Facility	Time Peri	od Resul	ts								
т	Speed, mi/h		Density, pc/mi/	/mi/ln Density, veh/m		/In Tr	Travel Time, m		in LOS		
1	41.8		31.2		29.9 1.00			D			
Facility	Overall Re	esults									
Space Me	an Speed, mi/h	1	41.8		Density, ve	eh/mi/ln		29.9			
Average T	ravel Time, mir	1	1.00		Density, po	c/mi/ln	31.2				
Messag	ges										
Comm	ents										



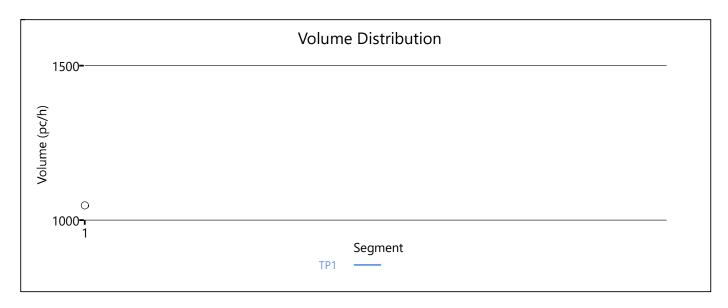


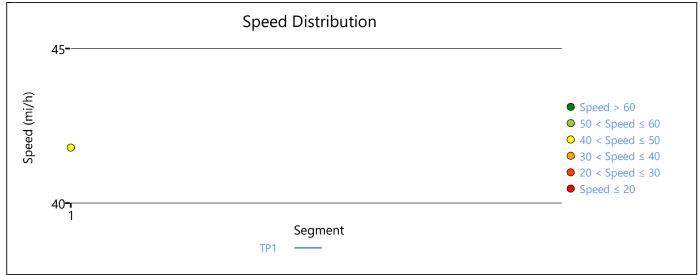


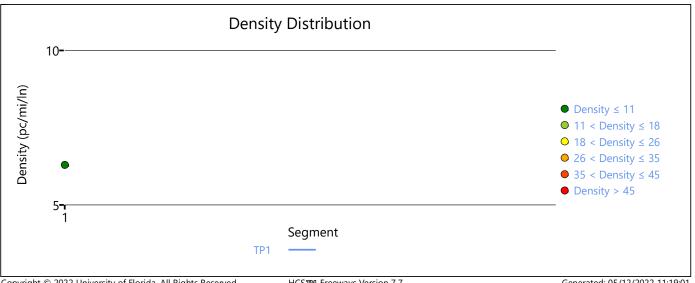
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			HCS7	Freeway	Facilities	s Repoi	t					
Project	t Informati	ion										
Analyst			CI		Date			4/21/20	22			
Agency			WSP		Analysis Yea	ar		NoBuild				
Jurisdictio	on				Time Perioc	d Analyzed		LN				
Project D	escription		CBD									
Facility	, Global In	put										
Jam Dens	sity, pc/mi/ln		190.0		Density at 0	Capacity, po	/mi/ln	45.0				
Queue Discharge Capacity Drop, %			7		Total Segme	ents		1				
Total Time	e Periods		1		Time Perioc	d Duration,	min	15				
Facility Le	ength, mi		0.69									
Facility	/ Segment	Data										
No.	Coded	\top	Analyzed		Name	Length	, ft	Lanes				
1	Basic		Basic				3634	4	4			
Facility	/ Segment	Data		Segmer	nt 1: Basic	;						
Time Period	PHF	fHV	Flow Rate (pc/h)		oacity c/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS		
1	0.94	0.879	1048	8	0.12		41.8		6.3	А		
Facility	/ Time Peri	od Resu	lts									
т	Speed, mi/h		Density, pc/mi/	i/ln Density, veh/m		In T	Travel Time, m		in LOS			
1	41.8		6.3		5.5		1.00		А			
Facility	Overall R	esults										
Space Me	ean Speed, mi/l	h	41.8		Density, vel	Density, veh/mi/ln			5.5			
Average Travel Time, min 1.0			1.00	1.00 D				6.3				
average					-							
Messa	ges											



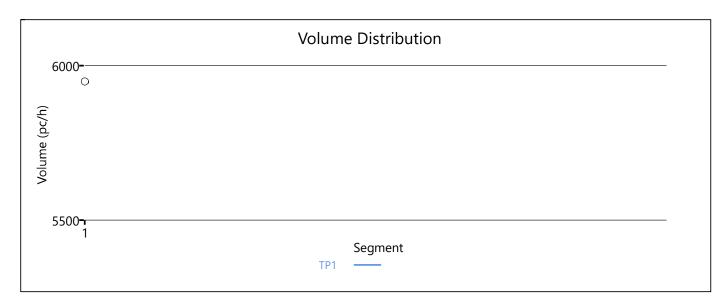


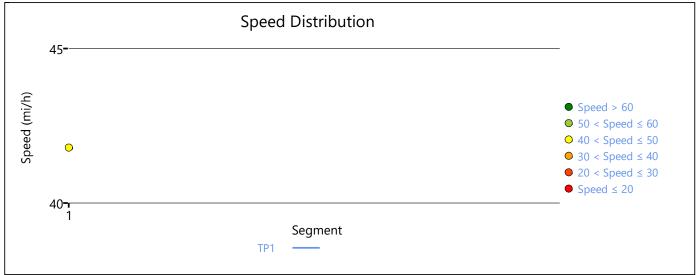


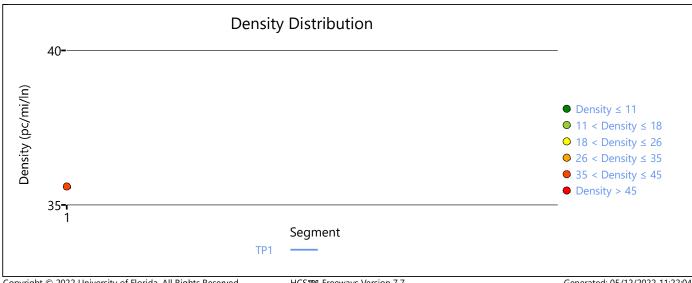
HCS™ Freeways Version 7.7 RFK - NB LN - NoBuild.xuf

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			HCS7	Freeway	/ Facilitie	es Re	port	t			
Projec	t Informat	ion									
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	⁄ear			NEPA 5		
Jurisdictio	on				Time Peri	od Analy	/zed		AM		
Project D	escription		CBD								
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density a	t Capacit	ty, pc/ı	mi/ln	45.0		
Queue Di	ischarge Capac	tity Drop, %	7		Total Seg	ments			1		
Total Tim	e Periods		1		Time Peri	od Durat	tion, m	nin	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		Seame	ent 1: Bas	ic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Ca	apacity (pc/h)	d/ Rat		Speed (mi/h)		Pensity c/mi/ln)	LOS
1	0.94	0.909	5949		8800	0.6	8	41.8		35.6	E
Facility	y Time Peri	iod Resu	lts								
т	Speed, m	ni/h	Density, pc/mi,	/In De	nsity, veh/m	i/ln	Tra	avel Time, mi	n	LOS	
1	41.8		35.6		32.4			1.00		Е	
Facility	y Overall R	esults		·							
Space Me	ean Speed, mi/	h	41.8		Density, v	eh/mi/lr	1		32.4		
Average ⁻	Travel Time, mi	n	1.00		Density, p	c/mi/ln			35.6		
Messa	ges										
Comm	onts										



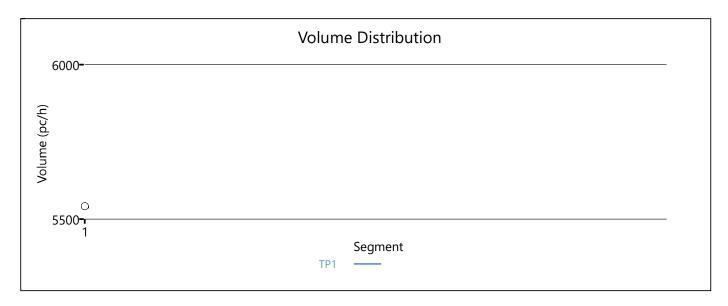


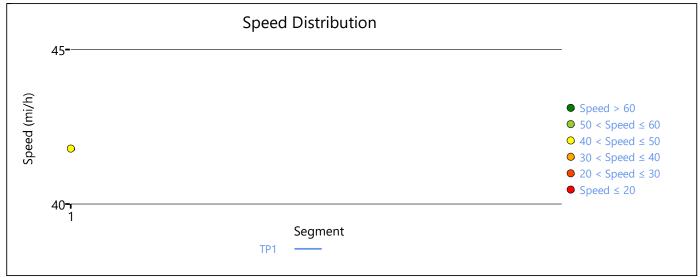


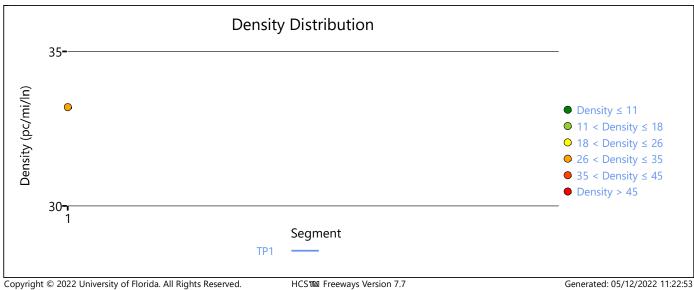
HCS™ Freeways Version 7.7 RFK - NB AM - Build.xuf

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			HCS7	Freeway	Facilities Re	eport				
Projec	t Informatio	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			NEPA 5		
Jurisdictio	on				Time Period Ana	lyzed		MD		
Project D	escription		CBD							
Facility	y Global Inp	out								
Jam Dens	sity, pc/mi/ln		190.0		Density at Capac	ity, pc/r	mi/ln	45.0		
Queue Di	ischarge Capacit	ty Drop, %	7		Total Segments			1		
Total Tim	e Periods		1		Time Period Dur	ation, m	in	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment l	Data								
No.	Coded	Т	Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	ļ	4	
Facility	y Segment I	Data		Sagman	nt 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity	l/c atio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.891	5542	88	300 0	.63	41.8		33.2	D
Facility	/ Time Perio	od Result	ts							
т	Speed, mi	i/h	Density, pc/mi/	In Dens	sity, veh/mi/ln	Tra	vel Time, mi	n	LOS	
1	41.8		33.2		29.6		1.00		D	
Facility	y Overall Re	sults		<u> </u>						
· acinty			41.8		Density, veh/mi/	'In		29.6		
	ean Speed, mi/h							22.0		
Space Me	ean Speed, mi/h Travel Time, min		1.00		Density, pc/mi/lr	า		33.2		
Space Me	Travel Time, min		1.00		Density, pc/mi/lr	1 		33.2		
Space Me	Travel Time, min		1.00		Density, pc/mi/lr	1		33.2		



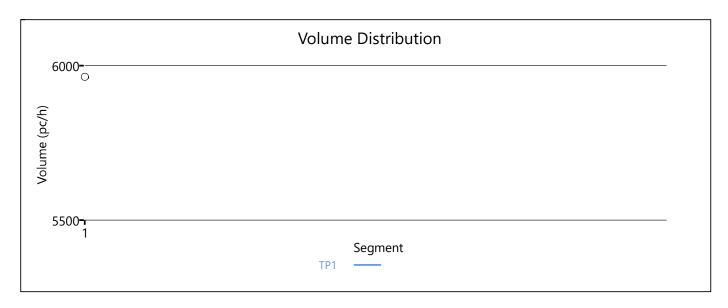


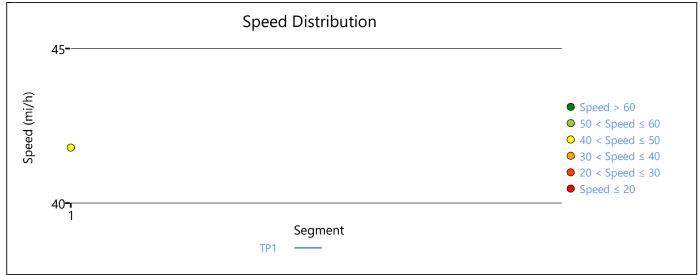


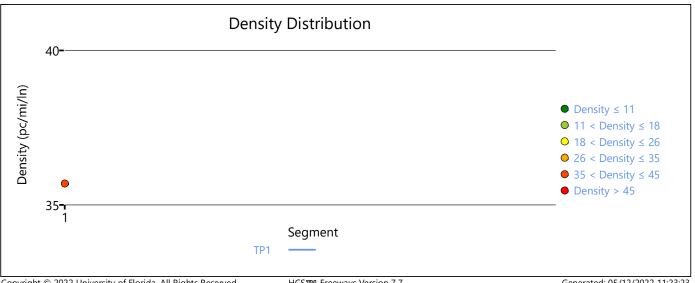
RFK - NB MD - Build.xuf

Generated: 05/12/2022 11:22:53

			HCS7	Freeway	Facilitie	es Rej	port	t			
Projec	t Informat	ion									
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	ear			NEPA 5		
Jurisdictio	on				Time Perio	od Analy:	zed		PM		
Project D	escription		CBD								
Facility	/ Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capacit	y, pc/r	mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segr	ments			1		
Total Tim	e Periods		1		Time Perio	od Durat	ion, m	nin	15		
Facility Le	ength, mi		0.69								
Facility	/ Segment	Data									
No.	Coded	\top	Analyzed		Name			Length	, ft	Lan	es
1	Basic		Basic					3634	1	4	
Facility	/ Segment	Data									
	T	<u> </u>		Segme	nt 1: Basi	c					
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)	d/d Rati		Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.952	5964	8	800	0.6	8	41.8		35.7	E
Facility	, Time Peri	iod Resu	lts								
т	Speed, m	ni/h	Density, pc/mi/	/In Den	sity, veh/mi	i/ln	Tra	avel Time, mi	n	LOS	
1	41.8		35.7		34.0			1.00		Е	
Facility	/ Overall R	esults		·							
Space Me	ean Speed, mi/	h	41.8		Density, v	eh/mi/ln)		34.0		
Average ⁻	Travel Time, mi	n	1.00		Density, p	c/mi/ln			35.7		
Messa	ges										
_											
Comm	ents										



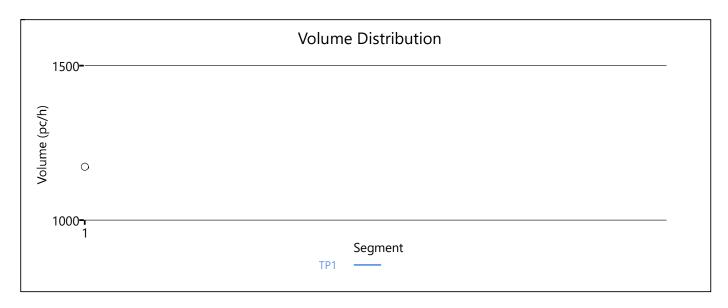


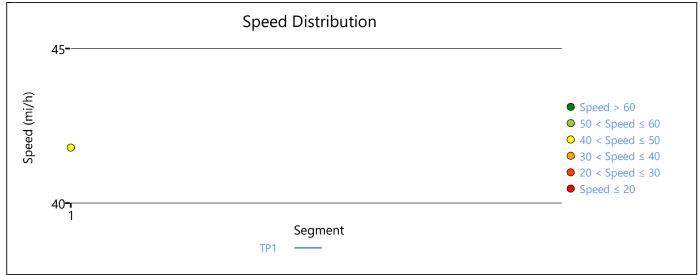


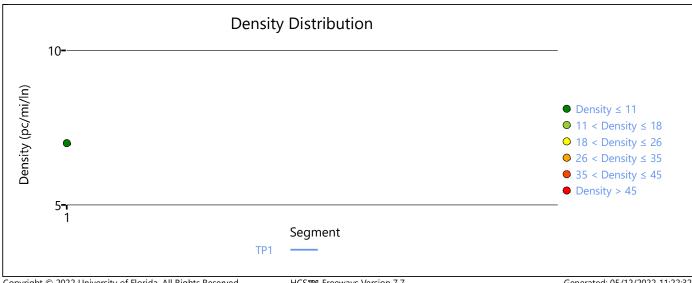
HCS™ Freeways Version 7.7 RFK - NB PM - Build.xuf

Generated: 05/12/2022 11:23:23

			HCS7	Freeway	Facilities	Report				
Projec	t Informati	ion								
Analyst			CI		Date			4/21/20	22	
Agency			WSP		Analysis Year			NEPA 5		
Jurisdicti	on				Time Period A	Analyzed		LN		
Project D	escription		CBD							
Facility	/ Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at Ca	pacity, pc/ı	mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segmen	ts		1		
Total Tim	e Periods		1		Time Period D	Duration, m	nin	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment	Data								
No.	Coded	$\neg \top$	Analyzed		Name		Length	, ft	Lan	ies
1	Basic		Basic				3634	1	4	
Facility	/ Segment	Data		Segmer	nt 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio	Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.870	1173	8	800	0.13	41.8		7.0	А
Facility	/ Time Peri	iod Resu	lts							
т	Speed, m	ni/h	Density, pc/mi,	/In Den	sity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		7.0		6.1		1.00		А	
Facility	/ Overall R	esults								
c 14	ean Speed, mi/	h	41.8		Density, veh/r	mi/ln		6.1		
Space Me		n	1.00		Density, pc/m	ni/ln		7.0		
<u> </u>	Travel Time, mi									
<u> </u>										
Average	ges									



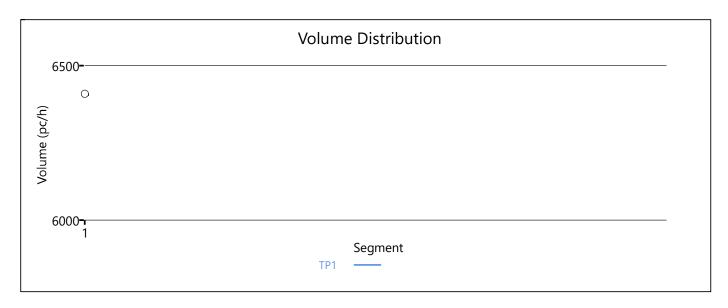


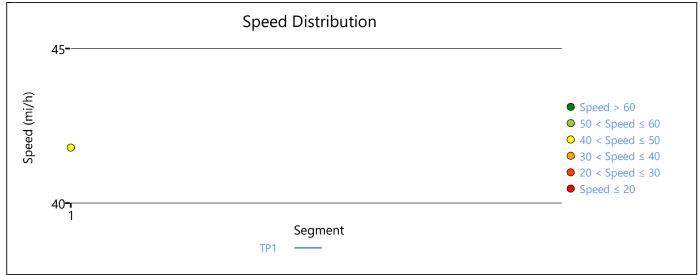


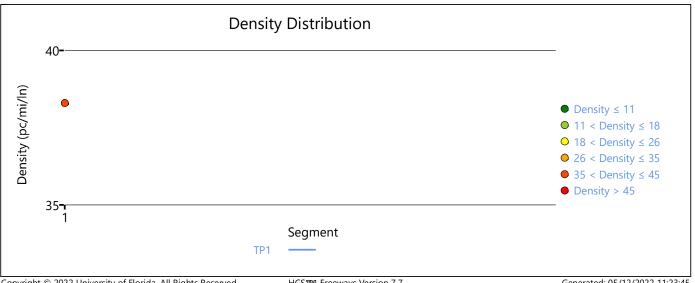
HCS™ Freeways Version 7.7 RFK - NB LN - Build.xuf

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			HCS7	Freeway	[,] Facilitie	es Rep	ort				
Projec	t Informati	ion									
Analyst			CJ		Date				4/21/20)22	
Agency			WSP		Analysis Y	ear			NEPA 5		
Jurisdictio	on				Time Perio	od Analyze	ed		AM		
Project D	escription		CBD								
Facility	, Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	: Capacity,	, pc/m	i/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segr	ments			1		
Total Tim	e Periods		1		Time Perio	od Duratio	on, mir	n	15		
Facility Le	ength, mi		0.69								
Facility	/ Segment	Data									
No.	Coded		Analyzed		Name		Т	Length	, ft	Lan	es
1	Basic		Basic					3634	1	4	
racility	/ Segment	Data		Segme	nt 1: Basi	c					
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/c Ratio		Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.917	6409		8800	0.73		41.8		38.3	E
Facility	, Time Peri	od Resu	lts								
т	Speed, m	ni/h	Density, pc/mi,	/In Dei	nsity, veh/mi	i/ln	Trav	vel Time, mi	n	LOS	
1	41.8		38.3		35.1			1.00		Е	
Facility	Overall R	esults									
Space Me	ean Speed, mi/l	h	41.8		Density, v	eh/mi/ln			35.1		
Average ⁻	Travel Time, mi	n	1.00		Density, p	c/mi/ln			38.3		
Messa	ges										
Messa Comm											



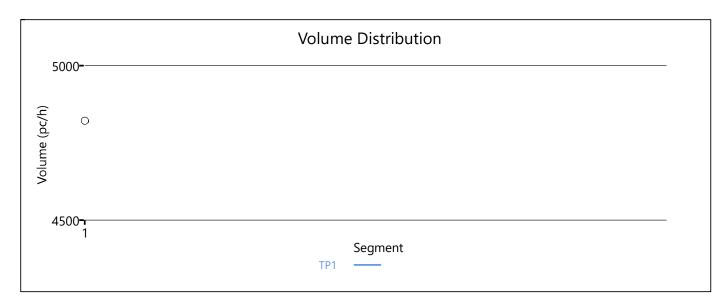


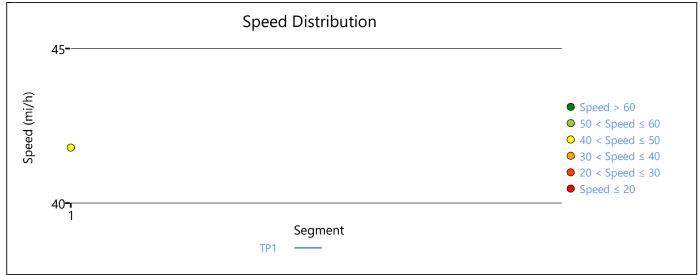


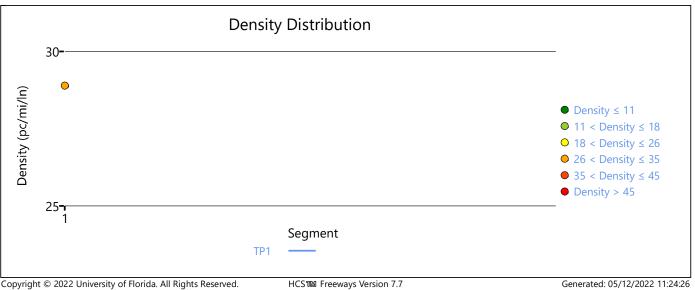
HCS™ Freeways Version 7.7 RFK - SB AM - Build.xuf

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			HCS7	Freeway	Facilities	Report	t			
Project	t Informati	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			NEPA 5		
Jurisdictio	on				Time Period A	nalyzed		MD		
Project D	escription		CBD							
Facility	Global In	put								
Jam Dens	ity, pc/mi/ln		190.0		Density at Cap	pacity, pc/	mi/ln	45.0		
Queue Di	scharge Capaci	ity Drop, %	7		Total Segmen	ts		1		
Total Time	e Periods		1		Time Period D	ouration, m	nin	15		
Facility Le	ngth, mi		0.69							
Facility	Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	ļ	4	
Facility	Segment	Data		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity	d/c Ratio	Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.888	4822	88	300	0.55	41.8		28.9	D
Facility	Time Peri	od Resul	ts				-			
т	Speed, m	i/h	Density, pc/mi/	'In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		28.9		25.7		1.00		D	
Facility	Overall Re	esults								
Space Me	an Speed, mi/l	1	41.8		Density, veh/r	mi/ln		25.7		
Average 1	Travel Time, mir	า	1.00		Density, pc/m	i/ln		28.9		
Messa	ges									
Comm	ents									



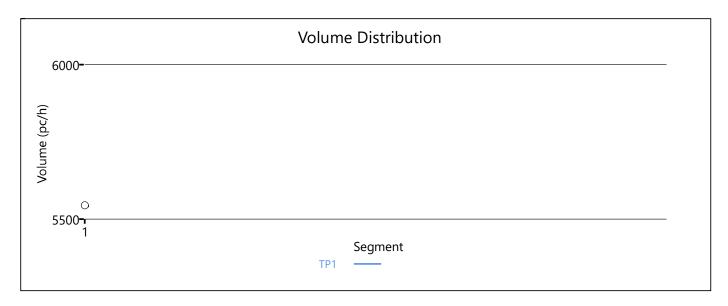


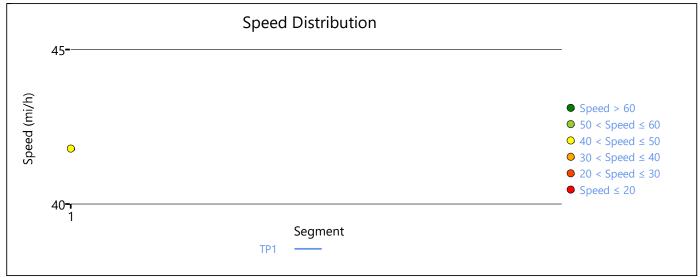


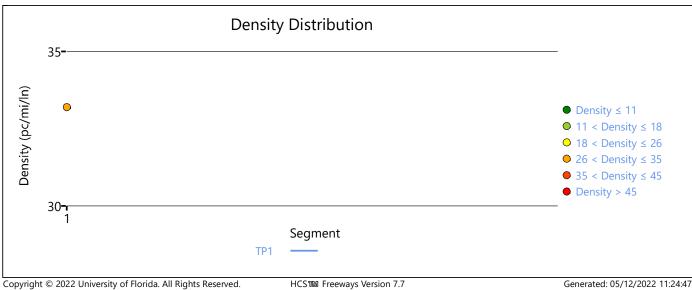
RFK - SB MD - Build.xuf

Generated: 05/12/2022 11:24:26

			HCS7	Freeway	Facilities Re	eport				
Projec	t Informatio	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			NEPA 5		
Jurisdictio	on				Time Period Ana	lyzed		PM		
Project D	escription		CBD							
Facility	y Global Inp	out								
Jam Dens	sity, pc/mi/ln		190.0		Density at Capac	ity, pc/r	mi/ln	45.0		
Queue Di	ischarge Capacit	ty Drop, %	7		Total Segments			1		
Total Tim	e Periods		1		Time Period Dura	ation, m	in	15		
Facility Le	ength, mi		0.69							
Facility	/ Segment l	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				3634	ļ	4	
Facility	y Segment I	Data		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity d	l/c atio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.951	5545	88	300 0.	.63	41.8		33.2	D
Facility	y Time Perio	od Result	ts				-			
т	Speed, mi	i/h	Density, pc/mi/	in Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		33.2		31.6		1.00		D	
	y Overall Re	sults								
Facility			41.8		Density, veh/mi/	ln		31.6		
	ean Speed, mi/h		1							
Space Me	ean Speed, mi/h Travel Time, min		1.00		Density, pc/mi/lr	า		33.2		
Space Me	Travel Time, min				Density, pc/mi/lr	1		33.2		
Space Me	Travel Time, min				Density, pc/mi/lr	1		33.2		



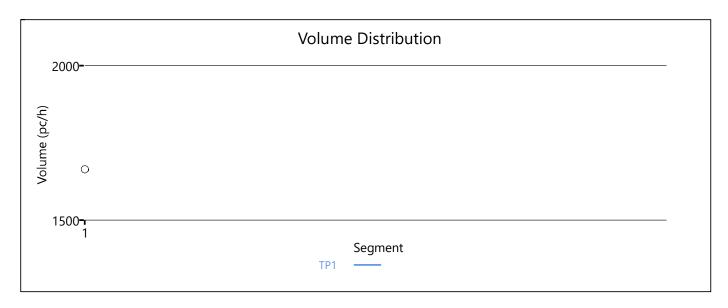


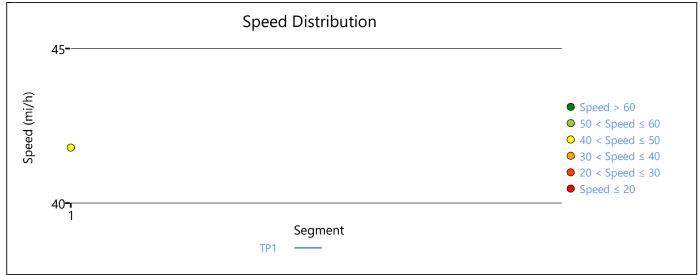


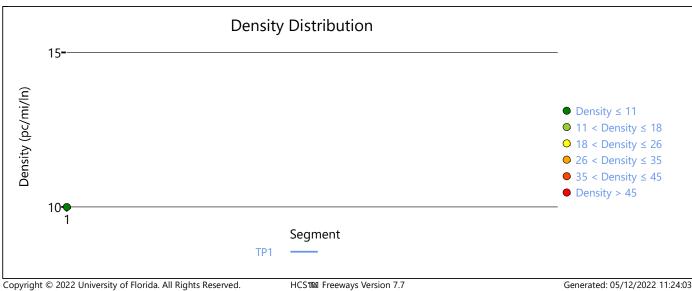
RFK - SB PM - Build.xuf

Generated: 05/12/2022 11:24:47

			HCS7	Freewa	y Facilitie	es Re	port	t			
Projec	t Informat	ion									
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	'ear			NEPA 5		
Jurisdicti	on				Time Peri	od Anal	yzed		LN		
Project D	escription		CBD								
Facility	y Global In	put									
Jam Den	sity, pc/mi/ln		190.0		Density a	t Capaci	ity, pc/	mi/ln	45.0		
Queue D	ischarge Capac	city Drop, %	7		Total Segi	ments			1		
Total Tim	e Periods		1		Time Peri	od Dura	ation, m	nin	15		
Facility Le	ength, mi		0.69								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name			Length	, ft	Lan	ies
1	Basic		Basic					3634	1	4	
Facility	y Segment	Data		Seamo	ent 1: Bas	ic					
Time Period	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)	d,	/c tio	Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.924	1665		8800	0.	19	41.8		10.0	А
Facility	y Time Peri	iod Resu	lts								
т	Speed, n	ni/h	Density, pc/mi,	/In De	ensity, veh/m	i/ln	Tra	avel Time, mi	n	LOS	
1	41.8		10.0		9.2			1.00		А	
Facility	y Overall R	esults									
Space M	ean Speed, mi/	'n	41.8		Density, v	eh/mi/l	n		9.2		
Average	Travel Time, mi	in	1.00		Density, p	c/mi/ln	1		10.0		
Messa	ges										
Comm	onts										
Comm	ents										



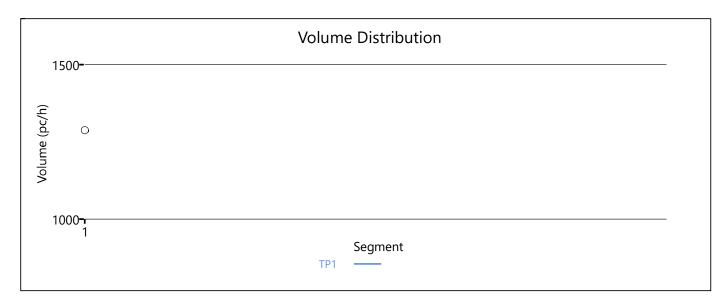


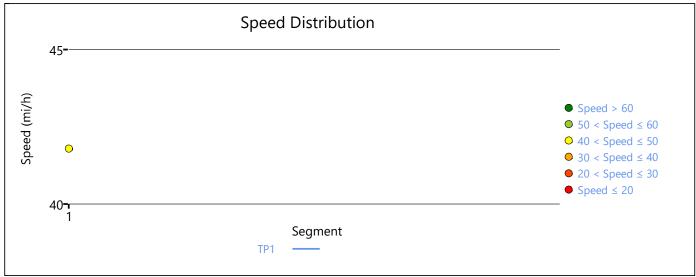


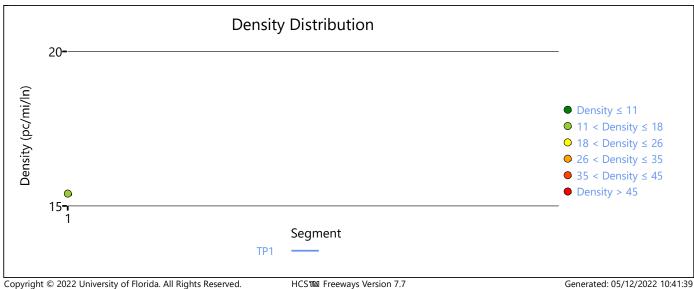
RFK - SB LN - Build.xuf

Generated: 05/12/2022 11:24:03

			HCS7	Freeway	Facilities Re	eport				
Projec	t Informatio	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			Existing		
Jurisdictio	on				Time Period Ana	llyzed		АМ		
Project D	escription		CBD							
Facility	y Global Inp	ut								
Jam Dens	sity, pc/mi/ln		190.0		Density at Capac	city, pc/r	mi/ln	45.0		
Queue Di	ischarge Capacit	ty Drop, %	7		Total Segments			1		
Total Tim	e Periods		1		Time Period Dur	ation, m	in	15		
Facility Le	ength, mi		1.00							
Facility	/ Segment l	Data								
No.	Coded	\Box	Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment I	Data		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity d	l/c atio	Speed (mi/h)		Pensity c/mi/ln)	LOS
1	0.94	0.888	1288	44	100 0	.29	41.8		15.4	В
Facility	y Time Perio	od Result	ts							
т	Speed, mi	/h	Density, pc/mi/	In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		15.4		13.7		1.40		В	
		culte								
	y Overall Re	Suits								
Facility	overall Re		41.8		Density, veh/mi/	′ln		13.7		
Facility Space Me			41.8		Density, veh/mi/			13.7 15.4		
Facility Space Me	ean Speed, mi/h Travel Time, min									
Facility Space Me	ean Speed, mi/h Travel Time, min									



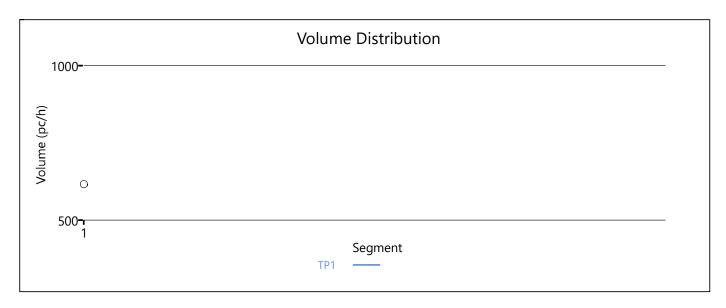


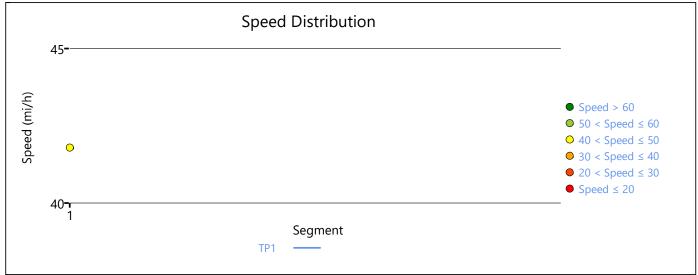


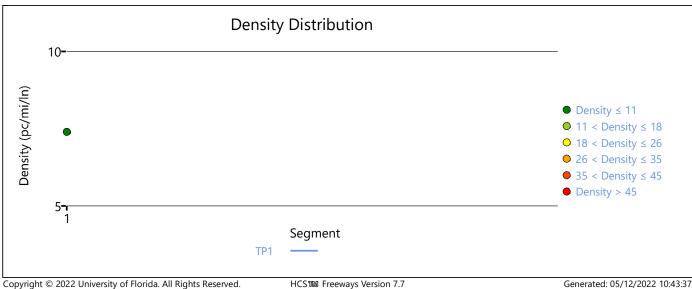
Bayonne - NB AM - Existing.xuf

Generated: 05/12/2022 10:41:39

			HCS7	Freeway	Facilities	s Repor	t			
Projec	t Informati	ion								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Yea	ar		Existing		
Jurisdictio	on				Time Period	l Analyzed		MD		
Project D	escription		CBD							
Facility	, Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at C	Capacity, pc	/mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segme	ents		1		
Total Tim	e Periods		1		Time Period	Duration, i	min	15		
Facility Le	ength, mi		1.00							
Facility	/ Segment	Data								
No.	Coded	\top	Analyzed		Name		Length	ı, ft	Lan	es
1	Basic		Basic				5280	0	2	
	/ Segment				nt 1: Basic					
Time Period	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	А
Facility	, Time Peri	od Resu	lts							
т	Speed, m	ni/h	Density, pc/mi/	/In Den	sity, veh/mi/l	ln T	ravel Time, mi	in	LOS	
1	41.8		7.4		5.9		1.40		А	
Facility	/ Overall R	esults								
Space Me	ean Speed, mi/	h	41.8		Density, veh	n/mi/ln		5.9		
	Travel Time, mi	n	1.40		Density, pc/	/mi/ln		7.4		
Average ⁻										
Average ⁻ Messa										
	ges									



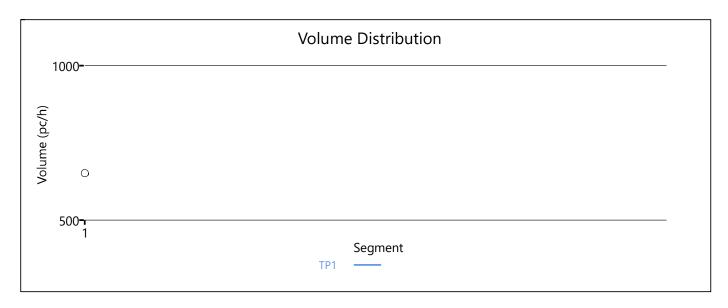


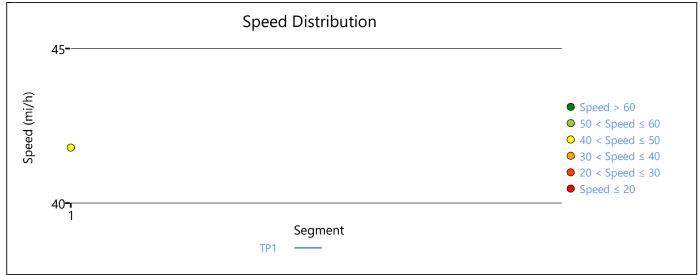


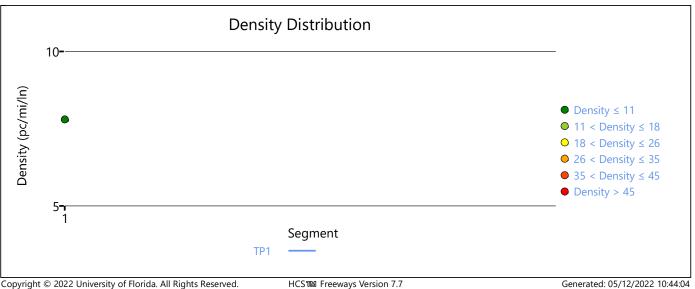
Bayonne - NB MD - Existing.xuf

Generated: 05/12/2022 10:43:37

			HCS7	Freeway	Facilities	Report				
Projec	t Informati	ion								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			Existing		
Jurisdicti	on				Time Period A	nalyzed		PM		
Project D	escription		CBD							
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at Cap	pacity, pc/i	mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segmen	ts		1		
Total Tim	e Periods		1		Time Period D	uration, m	nin	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		Segmen	nt 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)		eacity c/h)	d/c Ratio	Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.919	652	44	400	0.15	41.8		7.8	А
Facility	y Time Peri	od Resu	lts							
т	Speed, m	ni/h	Density, pc/mi/	/In Dens	sity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		7.8		7.2		1.40		А	
Facility	y Overall R	esults								
Space Me	ean Speed, mi/	h	41.8		Density, veh/r	ni/ln		7.2		
	Travel Time, mi	n	1.40		Density, pc/m	i/ln		7.8		
Average										
Messa Messa	ges									



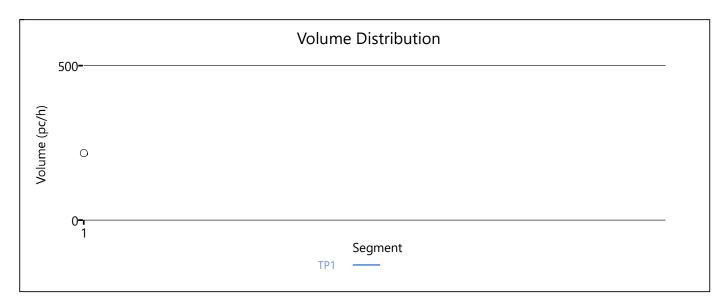


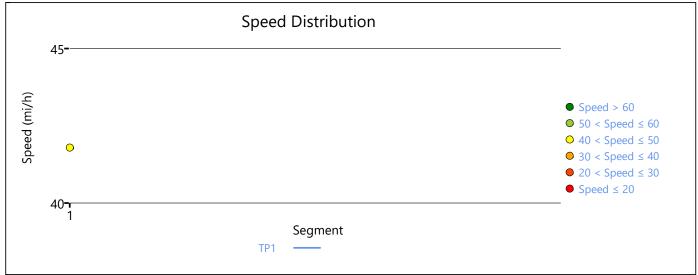


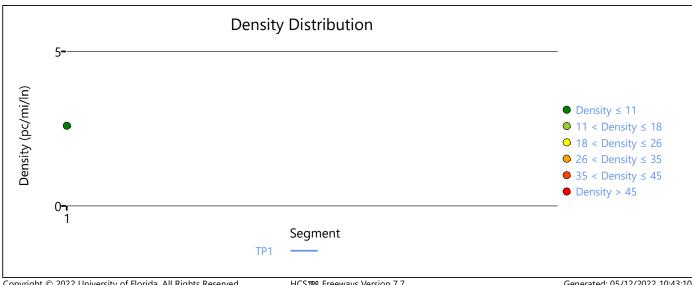
Bayonne - NB PM - Existing.xuf

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			HCS7	Freeway	Facilities I	Report				
Projec	t Informati	ion								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			Existing		
Jurisdicti	on				Time Period A	nalyzed		LN		
Project D	escription		CBD							
Facility	, Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at Cap	pacity, pc/i	mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segment	is .		1		
Total Tim	e Periods		1		Time Period D	uration, m	nin	15		
Facility Le	ength, mi		1.00							
Facility	/ Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				5280)	2	
	/ Segment	I			nt 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)		oacity c/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.847	217	44	400	0.05	41.8		2.6	А
Facility	, Time Peri	iod Resu	lts							
т	Speed, m	ni/h	Density, pc/mi/	/In Dens	sity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		2.6		2.2		1.40		А	
Facility	/ Overall R	esults								
Space Me	ean Speed, mi/	h	41.8		Density, veh/n	ni/ln		2.2		
	Travel Time, mi	n	1.40		Density, pc/m	i/ln		2.6		
Average										
Average Messa	ges									

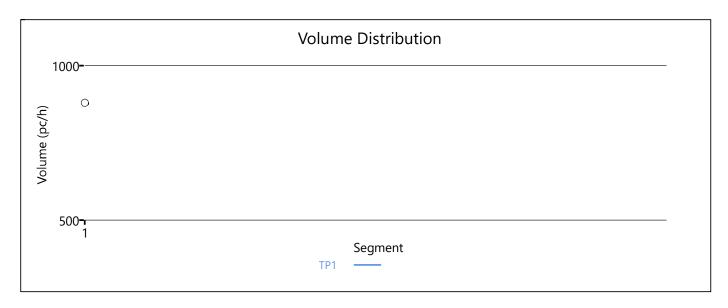


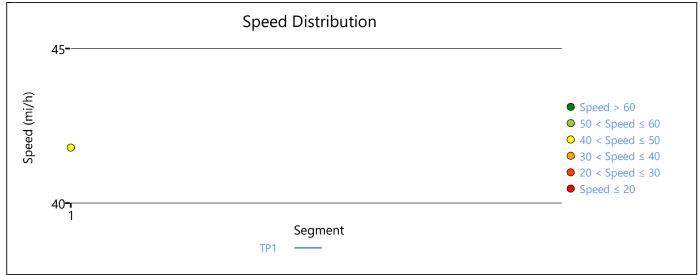


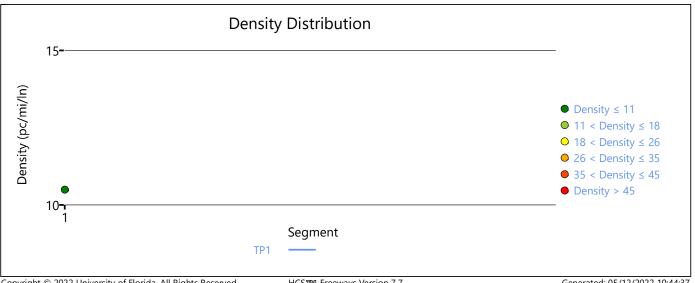


HCS™ Freeways Version 7.7 Bayonne - NB LN - Existing.xuf Generated: 05/12/2022 10:43:10

			HCS7	Freeway	Facilities R	leport					
Project	t Informati	on									
Analyst			CJ		Date			4/21/20	22		
Agency			WSP		Analysis Year			Existing			
Jurisdictio	on				Time Period An	alyzed		AM			
Project De	escription		CBD								
Facility	Global In	put									
Jam Dens	ity, pc/mi/ln		190.0		Density at Capa	acity, pc/	mi/ln	45.0			
Queue Dis	scharge Capac	ity Drop, '	% 7		Total Segments			1			
Total Time	e Periods		1		Time Period Du	ration, m	nin	15			
Facility Le	ngth, mi		1.00								
Facility	Segment	Data									
No.	o. Coded Analyzed			Name			Length, ft		Lanes		
1	Basic		Basic						2		
Facility	Segment	Data									
				Segmen	nt 1: Basic						
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	eacity	Density (pc/mi/ln)		LOS			
1	0.94	0.797	7 880	44	400	0.20	41.8		10.5	А	
Facility	Time Peri	od Res	ults				-				
т	Speed, mi/h		Density, pc/mi/	, pc/mi/ln Density,		ity, veh/mi/ln Tra		n	LOS		
1	41.8		10.5		8.4 1.40			A			
Facility	Overall R	esults				•					
Space Mean Speed, mi/h			41.8		Density, veh/mi/ln			8.4			
Average Travel Time, min			1.40		Density, pc/mi/ln			10.5			
Messag	ges				'						
INFORMA	ATION 1		Density for secomparing LO		e period 1 is withi	in 0.5 pc,	/mi/ln of LOS l	boundary	. Be cautious	when	
Commo	ents										

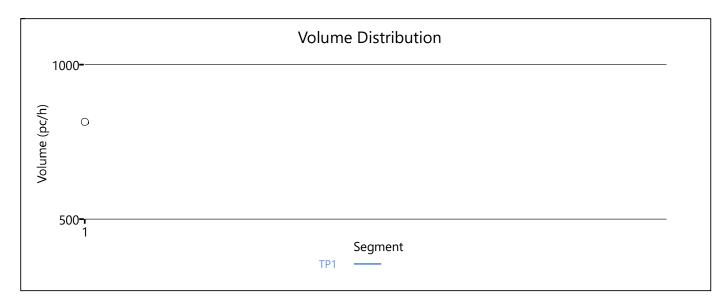


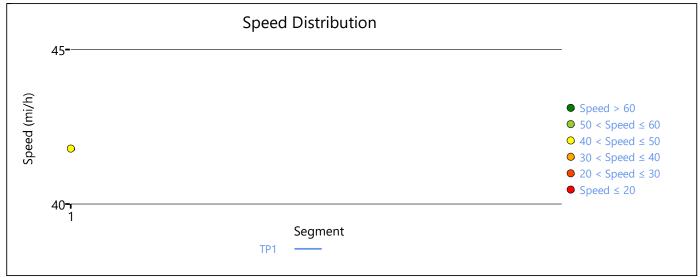


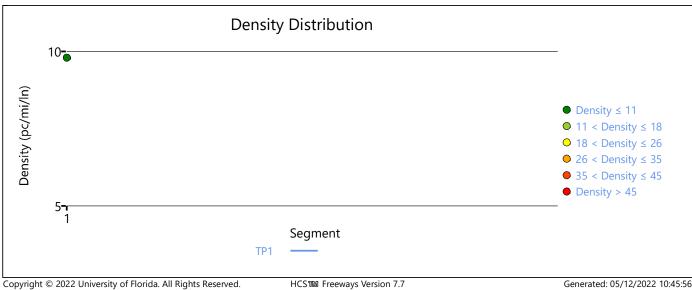


HCSTM Freeways Version 7.7 Bayonne - SB AM - Existing.xuf Generated: 05/12/2022 10:44:37

			HCS7	Freeway	Facilitie	es Re	port						
Projec	t Informat	ion											
Analyst			CJ		Date				4/21/20	22			
Agency			WSP		Analysis Y	ear			Existing				
Jurisdictio	on				Time Perio	od Analy	yzed		MD				
Project D	escription		CBD										
Facility	y Global In	put											
Jam Dens	sity, pc/mi/ln		190.0		Density at	Capaci	ty, pc/ı	mi/ln	45.0				
Queue Di	ischarge Capac	ity Drop, %	7		Total Segr	nents			1				
Total Tim	e Periods		1		Time Perio	od Dura	tion, m	nin	15				
Facility Length, mi			1.00										
Facility	y Segment	Data											
No.	Coded	\neg	Analyzed		Name			Length, ft		ft Lanes			
1	Basic		Basic	Basic				5280		2			
Facility	y Segment	Data		Segme	nt 1: Basi	c							
Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)		d/ Rat		Speed (mi/h)		ensity c/mi/ln)	LOS		
1	0.94	0.773	815	4	400	400 0.19		41.8	9.8		А		
Facility	y Time Peri	iod Resu	lts										
т	Speed, m	Speed, mi/h		/In Den	sity, veh/mi/ln		Travel Time, min		n LOS				
1	41.8		9.8		7.6 1.40			А					
Facility	y Overall R	esults											
Space Me	ean Speed, mi/	h	41.8		Density, v	Density, veh/mi/ln			7.6				
Average ⁻	Travel Time, mi	n	1.40	1.40			Density, pc/mi/ln			9.8			
Messa	ges												
Comm	onto												



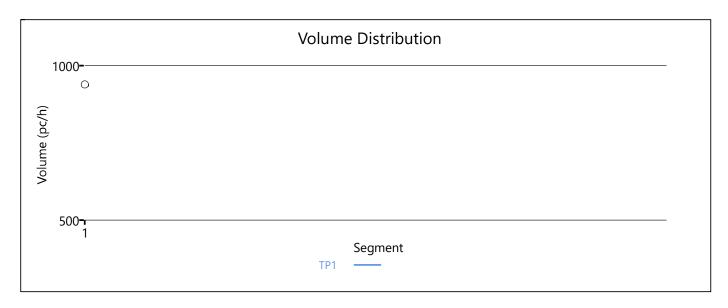


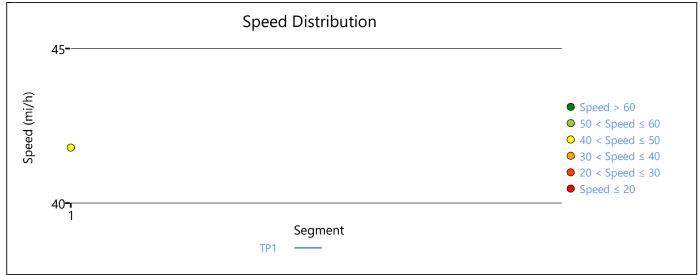


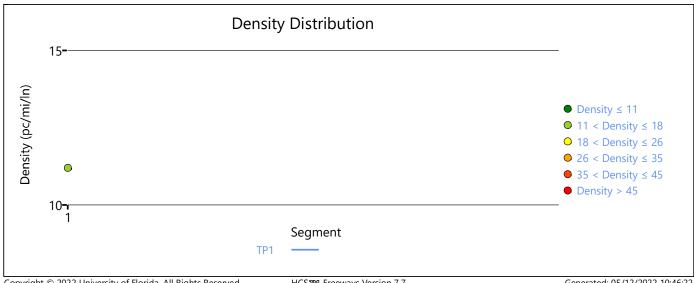
Bayonne - SB MD - Existing.xuf

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			HCS7	Freeway	Facilities R	eport						
Projec	t Informati	ion										
Analyst			CJ		Date			4/21/20	22			
Agency			WSP		Analysis Year			Existing				
Jurisdicti	on				Time Period An	alyzed		PM				
Project D	escription escription		CBD									
Facility	y Global In	put										
lam Dens	sity, pc/mi/ln		190.0		Density at Capa	city, pc/ı	mi/ln	45.0				
Queue D	ischarge Capac	ity Drop, %	6 7		Total Segments			1				
Гotal Tim	ne Periods		1		Time Period Du	ration, m	nin	15				
Facility Length, mi			1.00									
Facility	y Segment	Data										
No.	Coded		Analyzed		Name		Length	, ft	Lan	es		
1	Basic		Basic		5280			0 2				
Facility	y Segment	Data		Segmen	t 1: Basic							
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity	d/c latio	Speed (mi/h)	Density (pc/mi/ln)		LOS		
1	0.94	0.896	939	44	100	0.21	41.8	11.2 B		В		
Facility	y Time Peri	od Resi	ults									
Т	Speed, mi/h		Density, pc/mi/	Density, pc/mi/ln Dens		sity, veh/mi/ln Tra		n	LOS			
1	41.8		11.2	10.0	В							
Facility	y Overall R	esults		·								
Space Mean Speed, mi/h			41.8		Density, veh/mi/ln			10.0				
Average Travel Time, min			1.40		Density, pc/mi/ln			11.2				
Messa	ges											
INFORMATION 1			Density for secomparing LO	Density for segment 1 in time period 1 is within 0.5 pc/mi/ln of LOS boundary. Be cautious when comparing LOS results.								
			, ,									

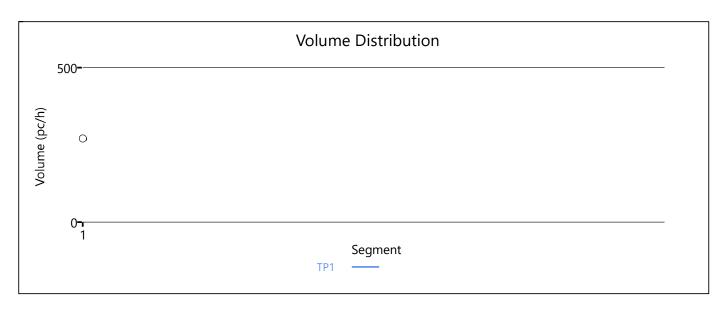


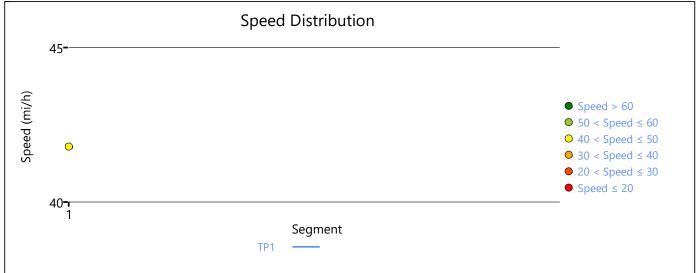


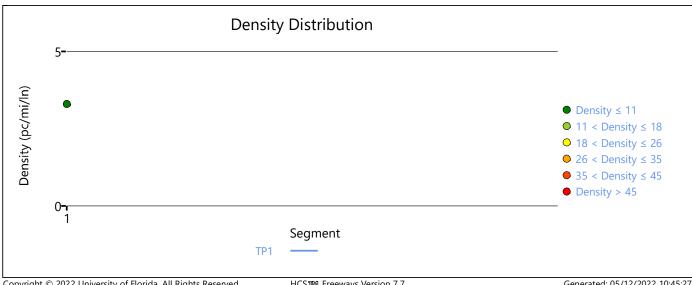


HCSTM Freeways Version 7.7 Bayonne - SB PM - Existing.xuf Generated: 05/12/2022 10:46:22

			HCS7	Freeway	Facilities	s Repor	t					
Projec	t Informati	ion										
Analyst			CJ		Date			4/21/20	22			
Agency			WSP		Analysis Yea	ar		Existing				
Jurisdicti	on				Time Period	l Analyzed		LN				
Project D	escription		CBD									
Facility	y Global In	put										
Jam Dens	sity, pc/mi/ln		190.0		Density at C	Capacity, pc/	/mi/ln	45.0				
Queue D	ischarge Capac	ity Drop, %	7		Total Segme	ents		1				
Total Tim	e Periods		1		Time Period	Duration, r	nin	15				
Facility Length, mi			1.00									
Facility	y Segment	Data										
No.	Coded		Analyzed		Name		Length, ft		ft Lanes			
1	Basic		Basic				5280)	2			
Time	y Segment	fHV	Flow Rate		nt 1: Basic	d/c	Speed	 	Density	LOS		
Period	FAI	Inv	(pc/h)		c/h)	Ratio	(mi/h)		c/mi/ln)	LOS		
1	0.94	0.812	271	44	400 0.06		41.8		3.3	А		
Facility	y Time Peri	od Resu	lts									
т	Speed, m	Speed, mi/h		i/In Density, veh/ı		/In Travel Time,		Time, min				
1	41.8		3.3	3.3		2.7			A			
Facility	y Overall R	esults										
Space Mean Speed, mi/h			41.8		Density, veh	Density, veh/mi/ln			2.7			
Average Travel Time, min			1.40		Density, pc/mi/ln			3.3				
Average [†]	naver mine, min											
Average Messa												
	ges											

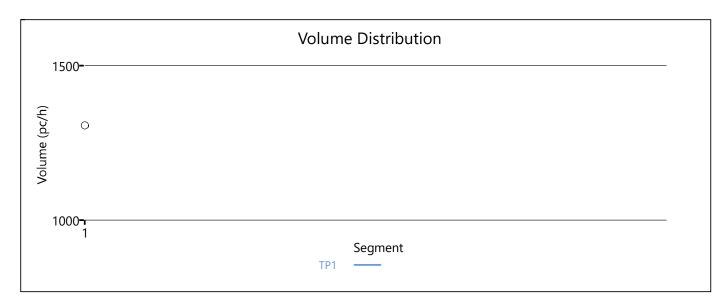


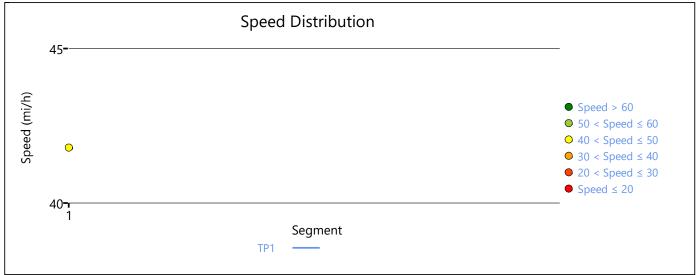


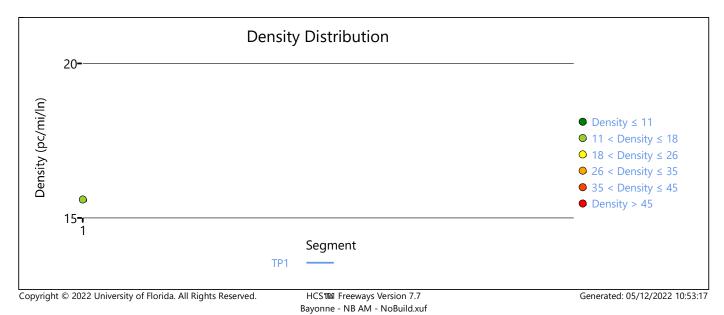


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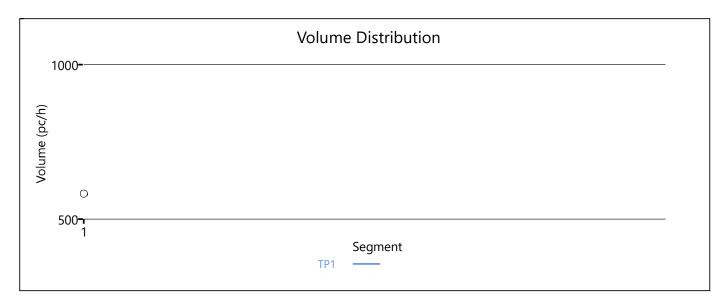
			HCS7	Freeway	/ Facilitie	es Re _l	port						
Projec	t Informat	ion											
Analyst			CJ		Date				4/21/20	22			
Agency			WSP		Analysis Y	⁄ear			NoBuild				
Jurisdictio	on				Time Perio	od Analy	zed		АМ				
Project D	escription		CBD										
Facility	y Global In	put											
Jam Dens	sity, pc/mi/ln		190.0		Density a	t Capacit	y, pc/r	mi/ln	45.0				
Queue Di	ischarge Capac	ity Drop, %	7		Total Segi	ments			1				
Total Tim	e Periods		1		Time Perio	od Durat	ion, m	nin	15				
Facility Length, mi			1.00										
Facility	y Segment	Data											
No.	Coded		Analyzed		Name	Name		Length, ft		ft Lanes			
1	Basic		Basic	Basic				5280		2			
Facility	y Segment	Data		Segme	ent 1: Basi	ic							
Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)		d/d Rat		Speed (mi/h)		ensity c/mi/ln)	LOS		
1	0.94	0.888	1307		4400	400 0.30 41		41.8	15.6		В		
Facility	y Time Peri	iod Resu	ilts										
т	Speed, mi/h		Density, pc/mi,	i/In Density, veh		ni/ln Travel		vel Time, min		LOS			
1	41.8	15.6		13.9	13.9 1.40			В					
Facility	y Overall R	esults											
Space Me	ean Speed, mi/	h	41.8		Density, v	Density, veh/mi/ln			13.9				
Average ⁻	Travel Time, mi	n	1.40	1.40			Density, pc/mi/ln			15.6			
Messa	ges												
Comm	ents												

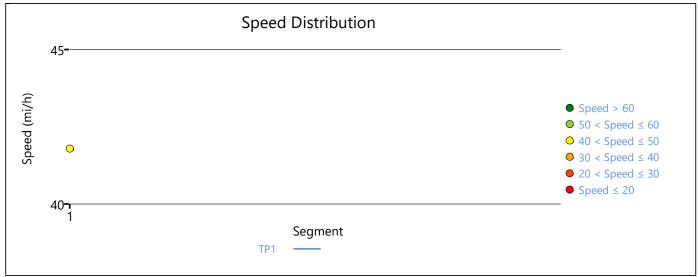


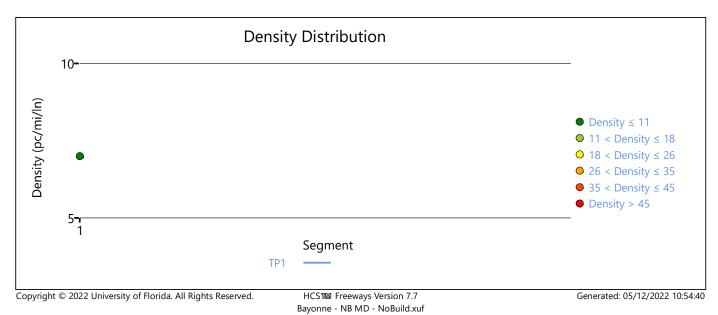




			HCS7	Freeway	Facilities	Report					
Projec	t Informati	ion									
Analyst			CJ		Date			4/21/20	22		
Agency			WSP		Analysis Year	r		NoBuild			
Jurisdicti	on				Time Period	Analyzed		MD			
Project D	escription		CBD								
Facility	, Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at Ca	apacity, pc/ı	mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segme	nts		1			
Total Tim	e Periods		1		Time Period	Duration, m	in	15			
Facility Length, mi			1.00								
Facility	/ Segment	Data									
No.	Coded	\top	Analyzed		Name		Length,		, ft Lanes		
1	Basic		Basic				5280		2		
	/ Segment	fHV	Flow Pote		nt 1: Basic	4/-	Curad			100	
Time Period	PHF	THV	Flow Rate (pc/h)		oacity c/h)	d/c Ratio	Speed (mi/h)		ensity :/mi/ln)	LOS	
1	0.94	0.792	583	44	400 0.13		41.8		7.0	А	
Facility	/ Time Peri	od Resu	lts								
т	Speed, mi/h		Density, pc/mi/	i/ln Density, veh/n		n Travel Time, m		nin LOS			
1	41.8		7.0	7.0		5.5			А		
Facility	/ Overall R	esults		·							
Space Mean Speed, mi/h			41.8		Density, veh/	/mi/ln		5.5			
Space Me		_	1.40		Density, pc/mi/ln			7.0			
<u> </u>	Travel Time, mi	n	11.14								
<u> </u>		n 									
Average	ges	n 									



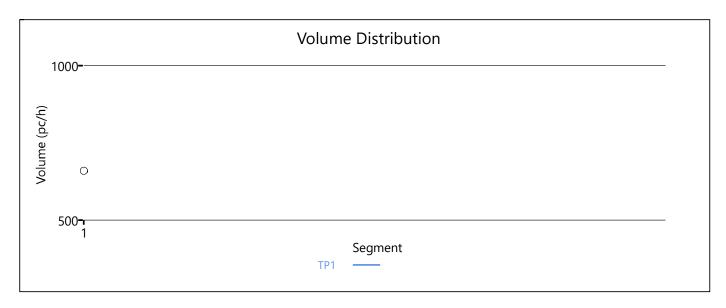


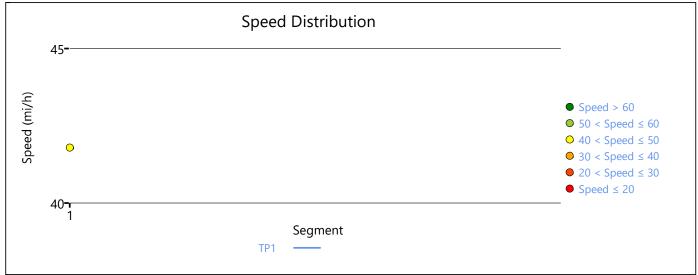


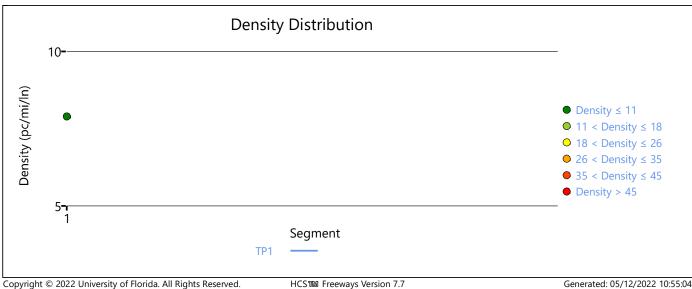
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Appendix 4B.6-72

			HCS7	Freeway	Facilities F	Report				
Projec	t Informati	ion								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			NoBuild		
Jurisdicti	on				Time Period Ar	nalyzed		PM		
Project D	escription		CBD							
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at Cap	acity, pc/	mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segment	S		1		
Total Tim	e Periods		1		Time Period Du	uration, m	nin	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		Segmen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)		acity c/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.919	660	44	100	0.15	41.8		7.9	А
Facility	y Time Peri	od Resu	lts							
т	Speed, m	ni/h	Density, pc/mi/	'In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		7.9		7.3		1.40		А	
Facility	y Overall R	esults								
	ean Speed, mi/	h	41.8		Density, veh/m	ni/ln		7.3		
Space Me		n	1.40		Density, pc/mi,	/ln		7.9		
<u> </u>	Travel Time, mi	''								
<u> </u>					·					
Average	ges	11								



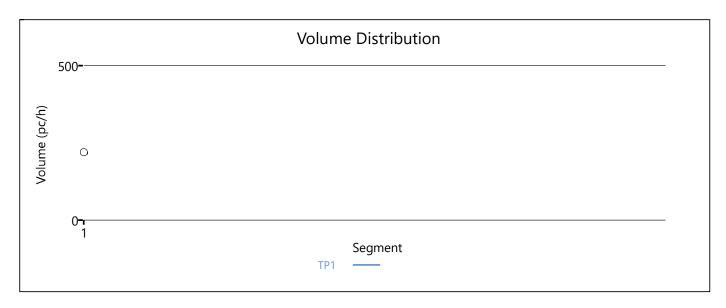


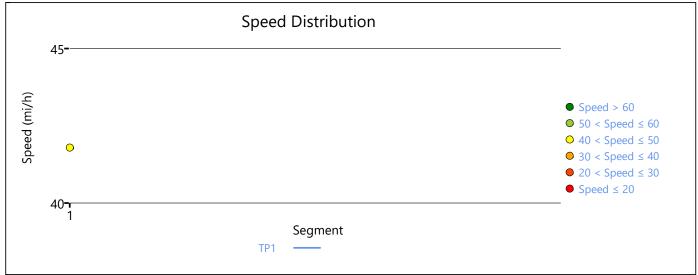


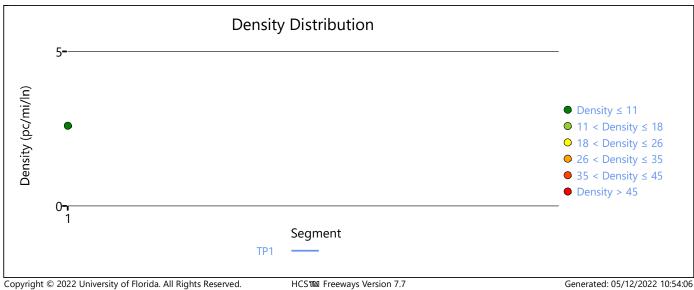
Bayonne - NB PM - NoBuild.xuf

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			11037	rreeway	i aciiitics	Report				
Projec	t Informati	ion								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year	r		NoBuild		
Jurisdictio	on				Time Period	Analyzed		LN		
Project D	escription		CBD							
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at Ca	apacity, pc/r	mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segme	nts		1		
Total Tim	e Periods		1		Time Period	Duration, m	in	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		Segmen	t 1: Basic					
							T T	_		
Time Period	PHF	fHV	Flow Rate (pc/h)		acity c/h)	d/c Ratio	Speed (mi/h)		ensity :/mi/ln)	LOS
_	PHF 0.94	fHV 0.847		(po		-				LOS
Period 1		0.847	(pc/h) 220	(po	c/h)	Ratio	(mi/h)		:/mi/ln)	
Period 1	0.94	0.847	(pc/h) 220	(pc	c/h)	Ratio 0.05	(mi/h)	(po	:/mi/ln)	
Period 1 Facility	0.94 y Time Peri	0.847	(pc/h) 220 Its	(pc	1 00	Ratio 0.05	(mi/h) 41.8	(po	2.6	
Period 1 Facility T 1	0.94 y Time Peri Speed, m	0.847	(pc/h) 220 Its Density, pc/mi/	(pc	ity, veh/mi/lr	Ratio 0.05	(mi/h) 41.8 avel Time, mi	(po	2.6 LOS	
Period 1 Facility T 1 Facility	0.94 y Time Peri Speed, m 41.8	0.847 od Resuni/h esults	(pc/h) 220 Its Density, pc/mi/	(pc	ity, veh/mi/lr	Ratio 0.05	(mi/h) 41.8 avel Time, mi	(po	2.6 LOS	
Facility T 1 Facility Space Me	0.94 y Time Peri Speed, m 41.8	0.847 iod Resu ni/h esults	(pc/h) 220 Its Density, pc/mi/ 2.6	(pc	ity, veh/mi/ln 2.2	Ratio 0.05 Tra	(mi/h) 41.8 avel Time, mi	n (po	2.6 LOS	
Facility T 1 Facility Space Me	0.94 y Time Peri Speed, m 41.8 y Overall R ean Speed, mi/ Travel Time, mi	0.847 iod Resu ni/h esults	(pc/h) 220 Its Density, pc/mi, 2.6	(pc	ity, veh/mi/In 2.2 Density, veh/	Ratio 0.05 Tra	(mi/h) 41.8 avel Time, mi	n 2.2	2.6 LOS	
Facility Facility Space Me	0.94 y Time Peri Speed, m 41.8 y Overall R ean Speed, mi/ Travel Time, mi	0.847 iod Resu ni/h esults	(pc/h) 220 Its Density, pc/mi, 2.6	(pc	ity, veh/mi/In 2.2 Density, veh/	Ratio 0.05 Tra	(mi/h) 41.8 avel Time, mi	n 2.2	2.6 LOS	



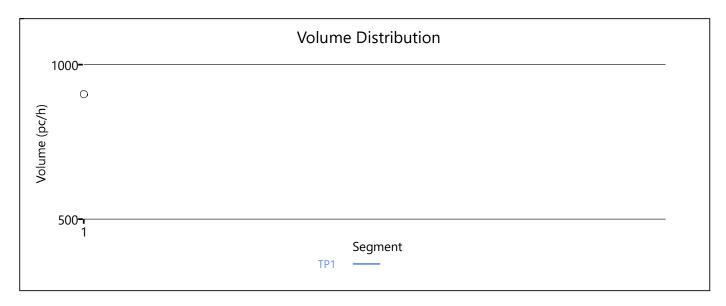


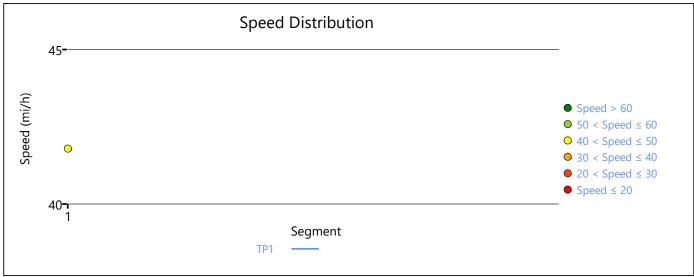


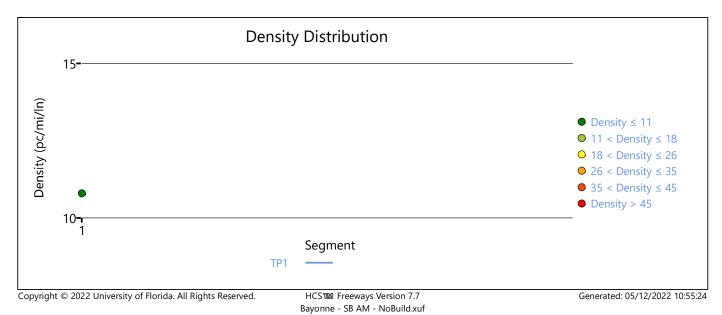
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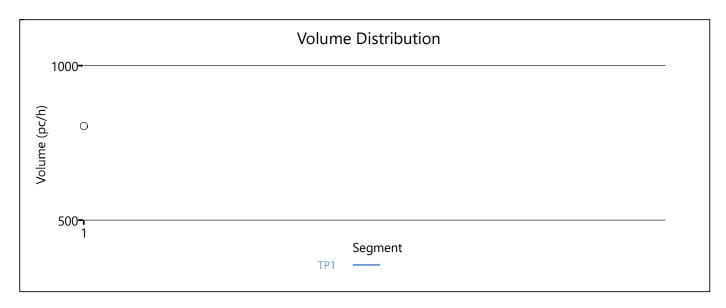
			HCS7	Freev	way Fa	cilities	Repor				
Project	t Informati	ion									
Analyst			CJ		Da	ate			4/21/20	22	
Agency			WSP		An	nalysis Yea	ar		NoBuild		
Jurisdictio	on				Tir	me Period	l Analyzed		AM		
Project D	escription		CBD								
Facility	/ Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		De	ensity at C	Capacity, pc/	mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		To	otal Segme	ents		1		
Total Time	e Periods		1		Tir	me Period	l Duration, n	nin	15		
Facility Le	ength, mi		1.00								
Facility	/ Segment	Data									
No.	Coded	П	Analyzed		N	lame		Length	, ft	Lan	es
1	Basic		Basic					5280)	2	
Facility	/ Segment	Data									
				Seg	ment 1	: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)		Capacit (pc/h)		d/c Ratio	Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.797	905		4400		0.21	41.8		10.8	А
Facility	/ Time Peri	od Resu	ilts								
т	Speed, m	ni/h	Density, pc/mi/	'In	Density,	veh/mi/l	n Tr	avel Time, mi	n	LOS	
1	41.8		10.8		3	8.6		1.40		А	
Facility	Overall R	esults									
Space Me	ean Speed, mi/l	h	41.8		De	ensity, veł	n/mi/ln		8.6		
Average 1	Travel Time, mi	n	1.40		De	ensity, pc/	/mi/ln		10.8		
Messa	ges										
INFORMA	ATION 1		Density for se comparing LC			eriod 1 is v	vithin 0.5 pc	/mi/In of LOS I	ooundary	Be cautious	when
Comm	ents										

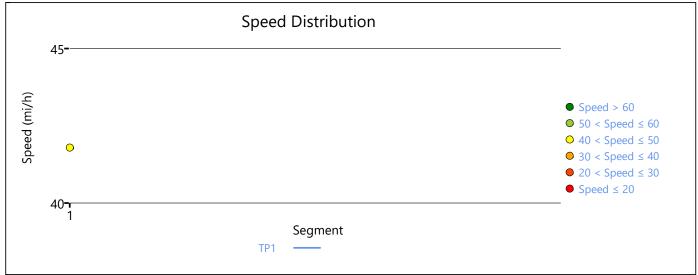


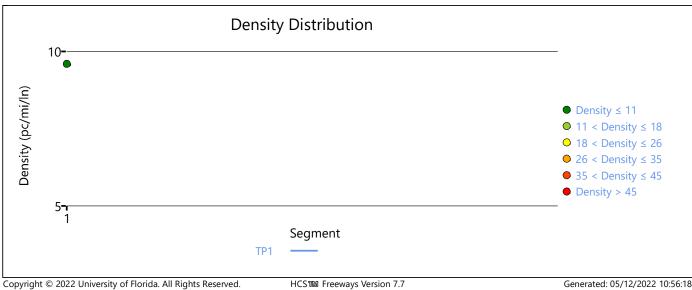




			HCS7	Freeway	Facilitie	es Re	port				
Projec	t Informati	ion									
Analyst			CJ		Date				4/21/20	22	
Agency			WSP		Analysis Y	ear			NoBuild		
Jurisdictio	on				Time Perio	od Anal	yzed		MD		
Project D	escription		CBD								
Facility	, Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at	: Capaci	ity, pc/ı	mi/ln	45.0		
Queue Di	ischarge Capac	ity Drop, %	7		Total Segr	ments			1		
Total Tim	e Periods		1		Time Perio	od Dura	ition, m	nin	15		
Facility Le	ength, mi		1.00								
Facility	/ Segment	Data									
No.	Coded	Т	Analyzed		Name			Length	, ft	Lan	ies
1	Basic		Basic					5280)	2	!
	/ Segment	I			nt 1: Basi					•	
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity oc/h)		/c tio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.773	805	4	1400	0.	18	41.8		9.6	А
Facility	, Time Peri	iod Resu	lts								
т	Speed, m	ni/h	Density, pc/mi/	/In Den	sity, veh/mi	i/ln	Tra	avel Time, mi	n	LOS	
1	41.8		9.6		7.4			1.40		А	
Facility	/ Overall R	esults									
Space Me	ean Speed, mi/	h	41.8		Density, v	eh/mi/l	n		7.4		
Average ⁻	Travel Time, mi	n	1.40		Density, p	c/mi/ln			9.6		
	200				_						
Messa	ges										
Messa Comm											



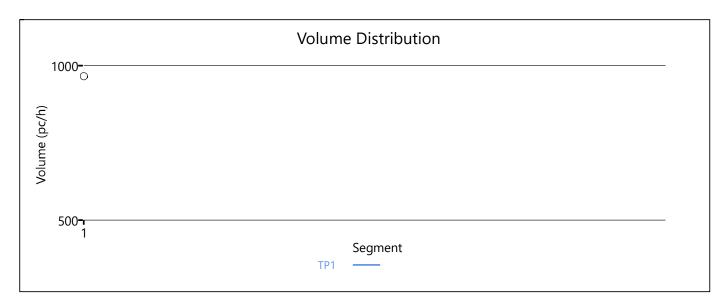


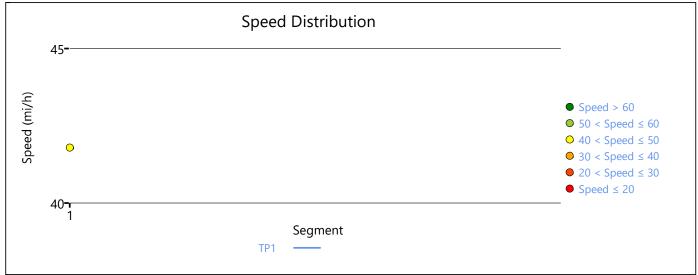


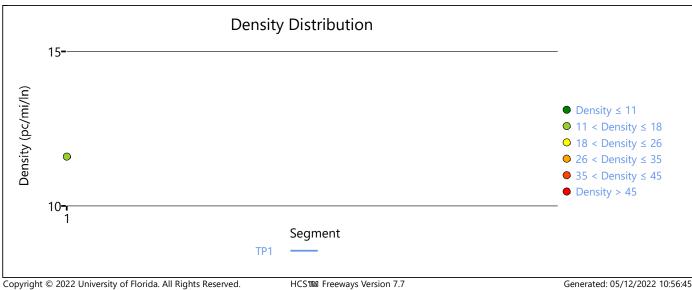
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			HCS7	Freeway	Facilities R	eport				
Projec	t Informatio	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			NoBuild		
Jurisdictio	on				Time Period Ana	alyzed		PM		
Project D	escription		CBD							
Facility	y Global Inp	ut								
Jam Dens	sity, pc/mi/ln		190.0		Density at Capa	city, pc/r	mi/ln	45.0		
Queue Di	ischarge Capacit	y Drop, %	7		Total Segments			1		
Total Tim	e Periods		1		Time Period Dur	ration, m	in	15		
Facility Le	ength, mi		1.00							
Facility	y Segment I	Data								
No.	Coded	\top	Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment I)ata		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity	d/c atio	Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.896	966	44	100 0).22	41.8		11.6	В
Facility	y Time Perio	d Result	is							
		/h	Density, pc/mi/	'In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
т	Speed, mi	/''	J. 1		· · ·					
T 1	Speed, mi 41.8	/	11.6		10.4		1.40		В	
1							1.40		В	
1 Facility	41.8	sults				/In	1.40	10.4	В	
1 Facility Space Me	41.8 y Overall Re	sults	11.6		10.4		1.40	10.4	В	
1 Facility Space Me	41.8 y Overall Re ean Speed, mi/h Travel Time, min	sults	11.6		10.4 Density, veh/mi,		1.40		В	
1 Facility Space Me	41.8 y Overall Re ean Speed, mi/h Travel Time, min ges	sults	11.6		10.4 Density, veh/mi,		1.40		В	



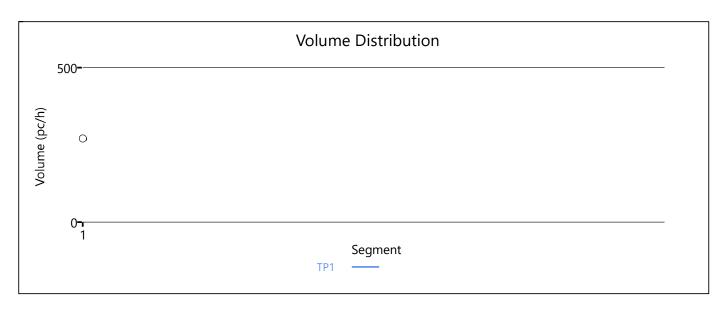


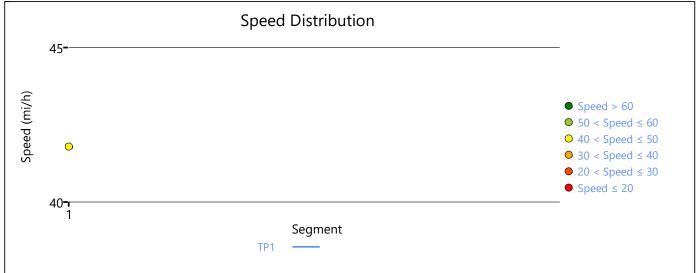


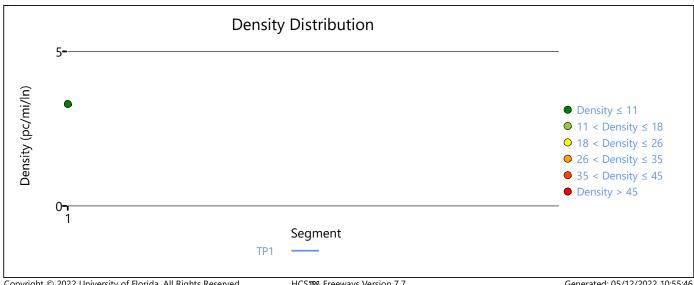
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iption	on	CJ								
iption		CJ								
iption				Date				4/21/20	22	
iption		WSP		Analysis Ye	ear			NoBuild		
iption				Time Perio	d Anal	yzed		LN		
<u> </u>		CBD								
lobal Inp	out									
pc/mi/ln		190.0		Density at	Capaci	ty, pc/r	mi/ln	45.0		
arge Capaci	ty Drop, %	7		Total Segn	nents			1		
riods		1		Time Perio	d Dura	tion, m	in	15		
h, mi		1.00								
egment	Data									
Coded		Analyzed		Name			Length	, ft	Lan	es
Basic		Basic					5280)	2	
egment	Data		Segmei	nt 1: Basi	c					
PHF	fHV	Flow Rate (pc/h)					Speed (mi/h)			LOS
0.94	0.812	271	4	400	0.0	06	41.8		3.3	А
me Peri	od Resu	lts								
Speed, m	i/h	Density, pc/mi/	/In Den	sity, veh/mi	/In	Tra	vel Time, mi	n	LOS	
41.8		3.3		2.7			1.40		А	
verall Re	esults									
Speed, mi/h	1	41.8		Density, ve	eh/mi/li	n		2.7		
el Time, mir	า	1.40		Density, p	c/mi/ln			3.3		
•										
ke										
	egment Coded Basic egment PHF 0.94 me Peri Speed, m 41.8 verall Re	riods h, mi egment Data Coded Basic egment Data PHF fHV 0.94 0.812 me Period Results Speed, mi/h 41.8 verall Results Speed, mi/h el Time, min	riods 1 h, mi 1.00 regment Data Coded Analyzed Basic Basic PHF fHV Flow Rate (pc/h) 0.94 0.812 271 reme Period Results Speed, mi/h Density, pc/mi/ 41.8 3.3 Verall Results Speed, mi/h 41.8 el Time, min 1.40	riods 1 h, mi 1.00 regment Data Coded Analyzed Basic Basic PHF fHV Flow Rate (pc/h) (p. 0.94 0.812 271 4 rime Period Results Speed, mi/h Density, pc/mi/ln Den 41.8 3.3 Verall Results Speed, mi/h 41.8 el Time, min 1.40	riods 1 Time Periods 2 Time Periods	riods 1 Time Period Dura th, mi 1.00 Egment Data Coded Analyzed Name Basic Basic Egment Data Segment 1: Basic PHF fHV Flow Rate (pc/h) (pc/h) Ra 0.94 0.812 271 4400 0.0 me Period Results Speed, mi/h Density, pc/mi/ln 41.8 3.3 2.7 Verall Results Speed, mi/h 41.8 Density, veh/mi/lo el Time, min 1.40 Density, pc/mi/ln Density, pc/mi/ln Density, pc/mi/ln Density, pc/mi/ln Density, pc/mi/ln Density, pc/mi/ln	riods 1 Time Period Duration, m h, mi 1.00 Pegment Data Coded Analyzed Name Basic Basic PHF fHV Flow Rate (pc/h) Cyc/h) Ratio 0.94 0.812 271 4400 0.06 The Period Results Speed, mi/h Density, pc/mi/ln Density, veh/mi/ln 1.8 Speed, mi/h 41.8 Density, veh/mi/ln Density, veh/mi/ln Density, veh/mi/ln Period Results Speed, mi/h 41.8 Density, veh/mi/ln Density, pc/mi/ln Density, pc/mi/ln	Total Segments Total Segments Total Segments Total Segments	Total Segments 1	Total Segments

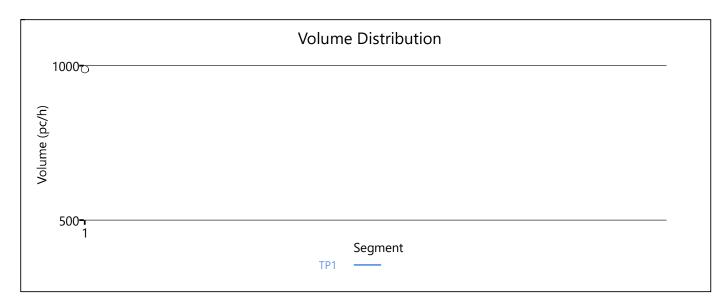


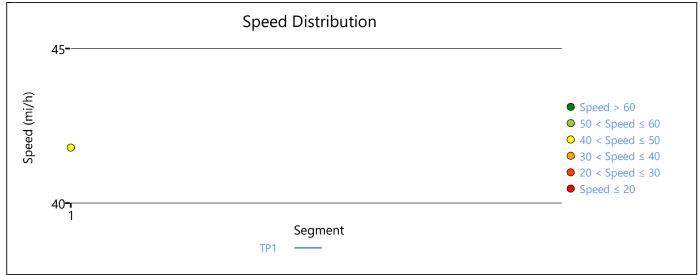


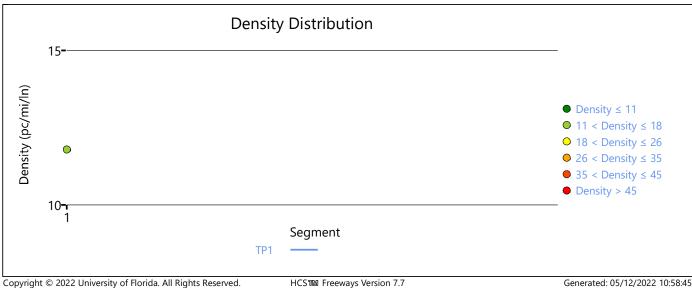


HCS™ Freeways Version 7.7 Bayonne - SB LN - NoBuild.xuf Generated: 05/12/2022 10:55:46

			HCS7	Freeway	Facilities R	eport				
Projec	t Informati	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			NEPA 5		
Jurisdictio	on				Time Period Ana	alyzed		AM		
Project D	escription		CBD							
Facility	y Global Inp	out								
Jam Dens	sity, pc/mi/ln		190.0		Density at Capa	city, pc/r	mi/ln	45.0		
Queue Di	ischarge Capaci	ty Drop, %	7		Total Segments			1		
Total Tim	e Periods		1		Time Period Du	ration, m	in	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded	\Box	Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				5280)	2	
Facility	y Segment	Data		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity	d/c atio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.817	988	44	100 (0.22	41.8		11.8	В
Facility	y Time Peri	od Result	ts							
	Speed, m	i/h	Density, pc/mi/	In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
т			11.8		9.6		1.40		В	
T	41.8		11.0		5.0					
1	41.8 y Overall Re	esults	11.5		<u> </u>					
1 Facility			41.8		Density, veh/mi	/ln		9.6		
1 Facility Space Me	y Overall Re	1						9.6 11.8		
1 Facility Space Me	y Overall Ree ean Speed, mi/h Travel Time, mir	1	41.8		Density, veh/mi					
1 Facility Space Me	y Overall Ree ean Speed, mi/h Travel Time, mir	1	41.8		Density, veh/mi					



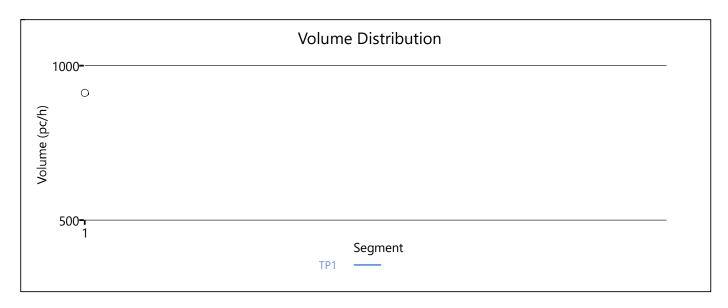


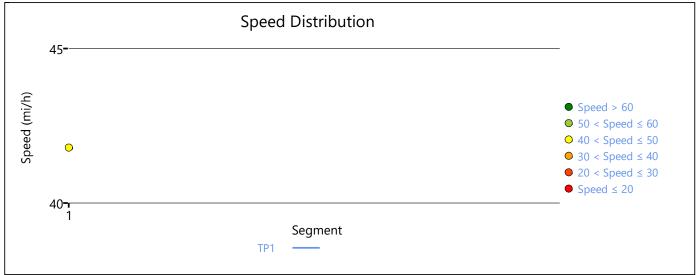


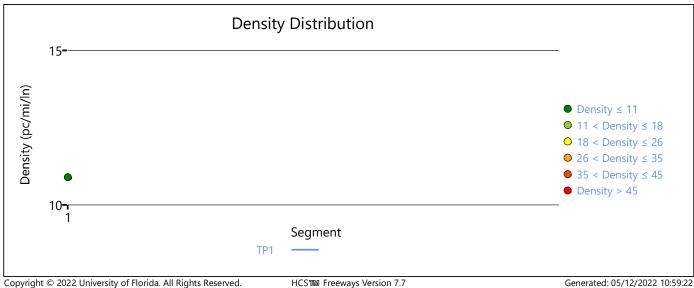
Bayonne - SB AM - Build.xuf

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Analyst Agency urisdiction Project Description	nformati	on	СЛ							
Agency urisdiction Project Descripty (CJ							
urisdiction Project Description					Date			4/21/20	22	
Project Description			WSP		Analysis Yea	ar		NEPA 5		
Facility (Time Period	d Analyze	d	MD		
	cription		CBD							
	Global Inp	put								
am Density	/, pc/mi/ln		190.0		Density at 0	Capacity, p	oc/mi/ln	45.0		
Queue Discl	harge Capaci	ity Drop, %	7		Total Segm	ents		1		
otal Time P	Periods		1		Time Period	d Duration	n, min	15		
acility Leng	gth, mi		1.00							
Facility S	Segment	Data								
No.	Coded	\Box	Analyzed		Name		Length	ı, ft	Land	es
1	Basic		Basic				5280)	2	
Facility S	Segment	Data		Seamen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity c/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.797	912	44	100	0.21	41.8		10.9	Α
Facility 1	Time Peri	od Resu	lts	·						
т	Speed, m	i/h	Density, pc/mi/	In Dens	ity, veh/mi/	In	Travel Time, mi	n	LOS	
1	41.8		10.9		8.7		1.40		А	
Facility C	Overall Re	esults								
Space Mean	n Speed, mi/ł	า	41.8		Density, vel	h/mi/ln		8.7		
Average Tra	ıvel Time, mir	า	1.40		Density, pc,	/mi/ln		10.9		
Message	es									
NFORMATI	ON 1		Density for secomparing LO	gment 1 in time S results.	e period 1 is v	within 0.5	pc/mi/ln of LOS	boundary	. Be cautious	when
Commer	nts									



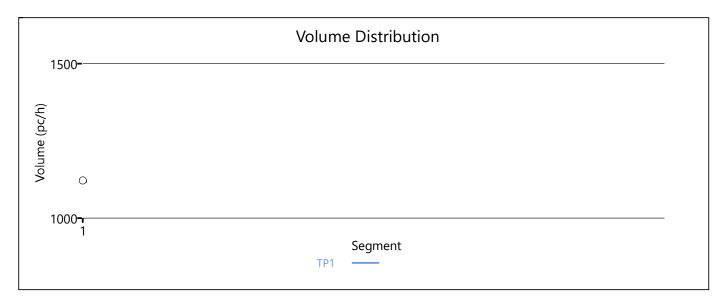


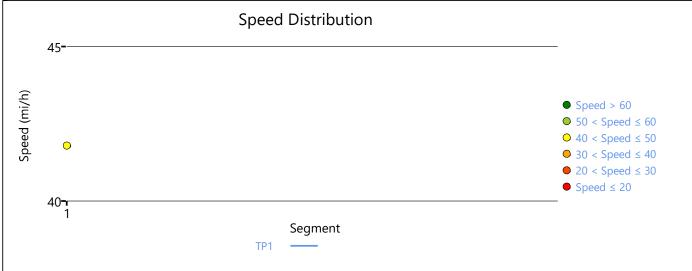


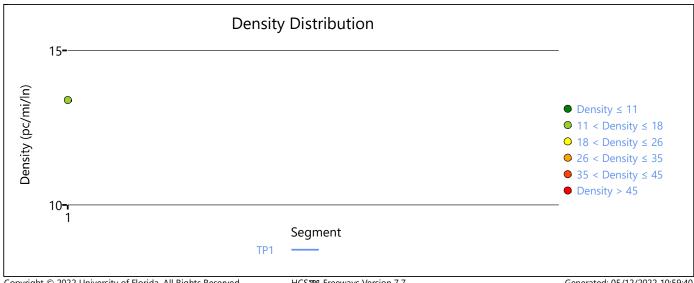
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			HCS7	Freeway	Facilities F	Report	t			
Project	t Informati	on								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			NEPA 5		
Jurisdictio	on				Time Period Ar	nalyzed		PM		
Project De	escription		CBD							
Facility	Global In	put								
Jam Dens	ity, pc/mi/ln		190.0		Density at Cap	acity, pc/	mi/ln	45.0		
Queue Di	scharge Capac	ity Drop, %	7		Total Segment	S		1		
Total Time	e Periods		1		Time Period Du	uration, m	nin	15		
Facility Le	ngth, mi		1.00							
Facility	Segment	Data								
No.	Coded	\top	Analyzed		Name		Length	, ft	Lan	ies
1	Basic		Basic				5280)	2	
Facility	Segment	Data		Saaman	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)	Сар	acity	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.912	1122	44	100	0.26	41.8		13.4	В
Facility	Time Peri	od Resul	ts	·			-			
т	Speed, m	i/h	Density, pc/mi/	'In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		13.4		12.2		1.40		В	
Facility	Overall R	esults								
Space Me	an Speed, mi/l	1	41.8		Density, veh/m	ni/ln		12.2		
Average 1	Travel Time, min	า	1.40		Density, pc/mi,	/ln		13.4		
Mossa	ges									
iviessa										
Messa Comm										



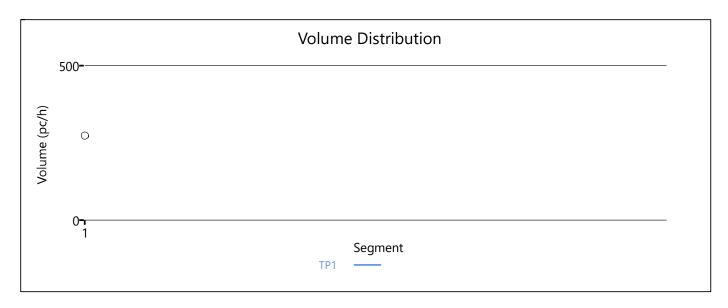


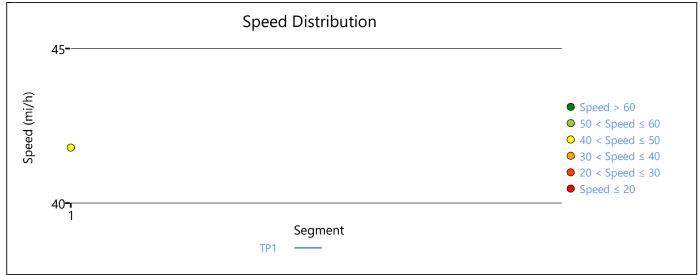


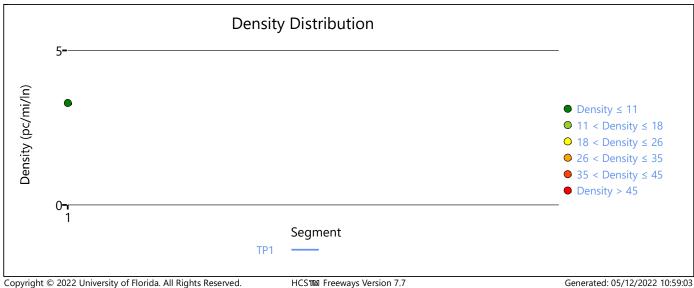
HCSTM Freeways Version 7.7 Bayonne - SB PM - Build.xuf

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			HCS7	Freeway	Facilities I	Report				
Projec	t Informati	ion								
Analyst			CJ		Date			4/21/20	22	
Agency			WSP		Analysis Year			NEPA 5		
Jurisdiction	on				Time Period A	nalyzed		LN		
Project D	escription		CBD							
Facility	y Global In	put								
Jam Dens	sity, pc/mi/ln		190.0		Density at Cap	pacity, pc/i	mi/ln	45.0		
Queue D	ischarge Capac	ity Drop, %	7		Total Segment	ts		1		
Total Tim	e Periods		1		Time Period D	uration, m	in	15		
Facility Le	ength, mi		1.00							
Facility	y Segment	Data								
No.	Coded		Analyzed		Name		Length	, ft	Lan	es
1	Basic		Basic				5280)	2	
	y Segment				t 1: Basic	17				
Time Period	PHF	fHV	Flow Rate (pc/h)		acity c/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS
1	0.94	0.809	274	44	100	0.06	41.8		3.3	А
Facility	y Time Peri	od Resu	lts							
т	Speed, m	ni/h	Density, pc/mi/	'In Dens	ity, veh/mi/ln	Tra	avel Time, mi	n	LOS	
1	41.8		3.3		2.7		1.40		А	
Facility	y Overall R	esults								
	ean Speed, mi/	h	41.8		Density, veh/n	ni/ln		2.7		
Space Me	/		-		Density, pc/m	i/ln		3.3		
<u> </u>	Travel Time, mi	n	1.40		Density, pc/iii	.,				
<u> </u>	Travel Time, mi	n	1.40		Density, pc/iii	,				
Average	Travel Time, mi	n	1.40		Density, pc/iii	,,				



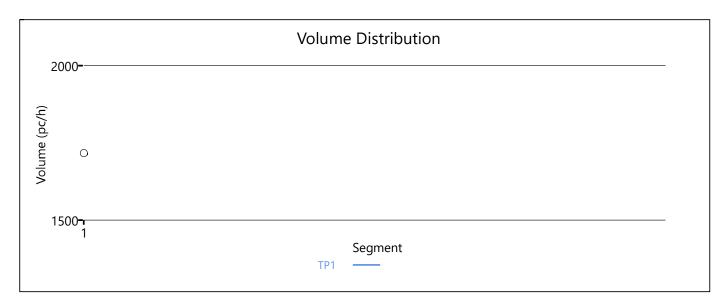


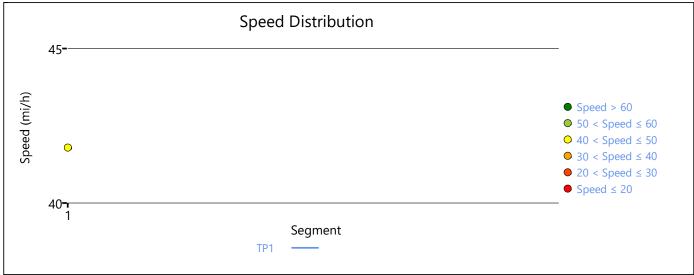


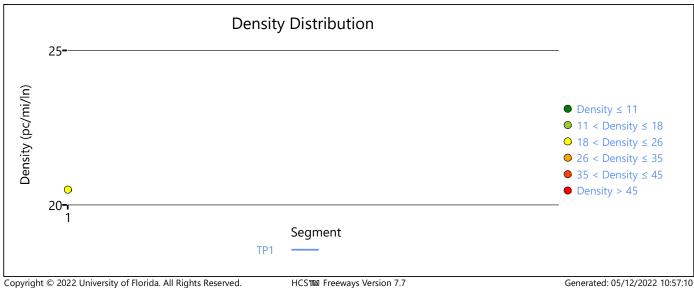
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						s Re					
Project	Informati	ion									
Analyst			CJ		Date				4/21/20)22	
Agency			WSP		Analysis Ye	ear			NEPA 5		
Jurisdiction	n				Time Perio	d Analy	yzed		AM		
Project De	scription		CBD								
Facility	Global In	put									
Jam Densit	ty, pc/mi/ln		190.0		Density at	Capaci	ty, pc/ı	mi/ln	45.0		
Queue Dis	charge Capac	ity Drop, %	7		Total Segm	nents			1		
Total Time	Periods		1		Time Perio	d Dura	tion, m	nin	15		
Facility Len	ngth, mi		1.00								
Facility	Segment	Data									
No.	Coded	\top	Analyzed		Name			Length	, ft	Lan	es
1	Basic		Basic					5280)	2	
Facility	Segment	Data									
				Segmer	nt 1: Basi	c					
Time Period	PHF	fHV	Flow Rate (pc/h)		pacity pc/h)	d/ Rat		Speed (mi/h)		Density c/mi/ln)	LOS
1	0.94	0.909	1717	4	400	0.3	39	41.8		20.5	С
Facility	Time Peri	od Resu	lts								
т	Speed, m	ni/h	Density, pc/mi/	'In Den	sity, veh/mi,	/In	Tra	avel Time, mi	n	LOS	
1	41.8		20.5		18.6			1.40		С	
Facility	Overall R	esults									
Space Mea	an Speed, mi/l	h	41.8		Density, ve	eh/mi/lı	n		18.6		
Average Tr	ravel Time, mi	n	1.40		Density, po	c/mi/ln			20.5		
Messag	jes										
Comme	ents										



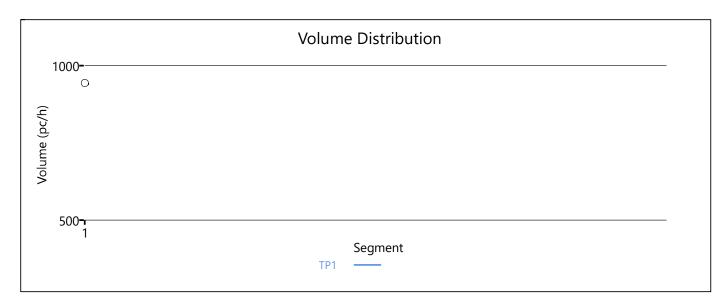


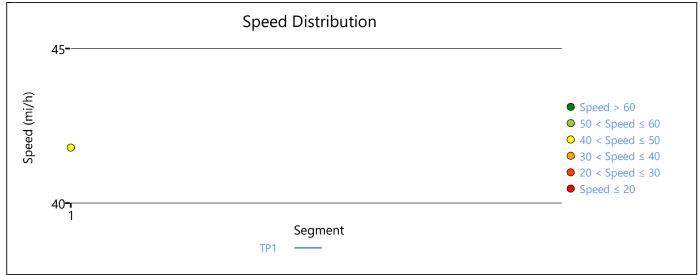


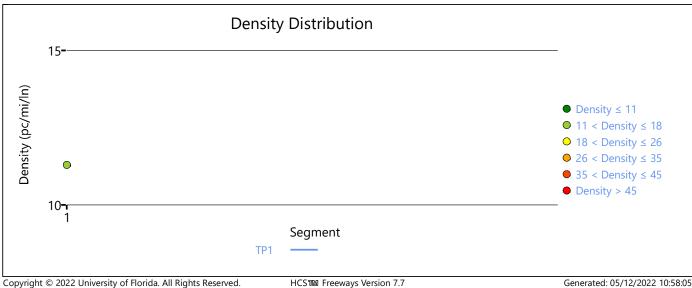
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Project In Analyst Agency Jurisdiction Project Descr Facility G Jam Density, Queue Dische Total Time Per	ription ilobal Inp pc/mi/In narge Capaci eriods th, mi egment	out ty Drop, %	CJ WSP CBD 190.0 7 1		Date Analysis Year Time Period A Density at Ca Total Segmen	Analyzed apacity, pc/r	ni/ln	4/21/20 NEPA 5 MD	22	
Agency Jurisdiction Project Descr Facility G Jam Density, Queue Discha Total Time Pe	pc/mi/ln pc/mi/ln narge Capaci eriods th, mi	ty Drop, %	WSP CBD 190.0 7 1		Analysis Year Time Period A Density at Ca Total Segmen	Analyzed apacity, pc/r	ni/ln	NEPA 5 MD 45.0	22	
Jurisdiction Project Descr Facility G Jam Density, Queue Discha Total Time Pe	pc/mi/ln pc/mi/ln narge Capaci eriods th, mi	ty Drop, %	190.0 7		Time Period A Density at Ca Total Segmen	Analyzed apacity, pc/r	ni/ln	MD 45.0		
Project Description Facility G Jam Density, Queue Dischol Total Time Pe	pc/mi/ln pc/mi/ln narge Capaci eriods th, mi	ty Drop, %	190.0 7 1		Density at Ca	pacity, pc/r	ni/ln	45.0		
Facility G Jam Density, Queue Dischi Total Time Pe	pc/mi/ln pc/mi/ln narge Capaci eriods th, mi	ty Drop, %	190.0 7 1		Total Segmer	· · ·	ni/ln			
Jam Density, Queue Disch Total Time Pe	pc/mi/ln narge Capaci eriods th, mi	ty Drop, %	7		Total Segmer	· · ·	mi/In			
Queue Disch Total Time Pe	narge Capaci eriods th, mi egment l		7		Total Segmer	· · ·	ni/ln			
Total Time Pe	eriods th, mi		1		-	nts				
	th, mi	Data Data			Time Period			1		
Facility Lengt	egment	Data	1.00		Time Period I	Duration, m	in	15		
		Data								
Facility So										
No.	Coded		Analyzed		Name		Length	, ft	Lane	 es
1	Basic		Basic				5280)	2	
Facility So	egment	Data								
				Segmen	t 1: Basic					
Time Period	PHF	fHV	Flow Rate (pc/h)		acity :/h)	d/c Ratio	Speed (mi/h)		ensity :/mi/ln)	LOS
1	0.94	0.846	944	44	100	0.21	41.8		11.3	В
Facility Ti	ime Peri	od Result	ts							
т	Speed, mi	i/h	Density, pc/mi/	ln Dens	ity, veh/mi/ln	Tra	vel Time, mi	n	LOS	
1	41.8		11.3		9.6		1.40		В	
Facility O	verall Re	esults								
Space Mean	Speed, mi/h	<u> </u>	41.8		Density, veh/	/mi/ln		9.6		
Average Trav	vel Time, min	1	1.40		Density, pc/m	ni/ln		11.3		
Messages	s									
INFORMATIC	ON 1		Density for seg	gment 1 in time S results.	period 1 is wi	thin 0.5 pc/	mi/ln of LOS b	ooundary	. Be cautious	when
Commen	its		_							



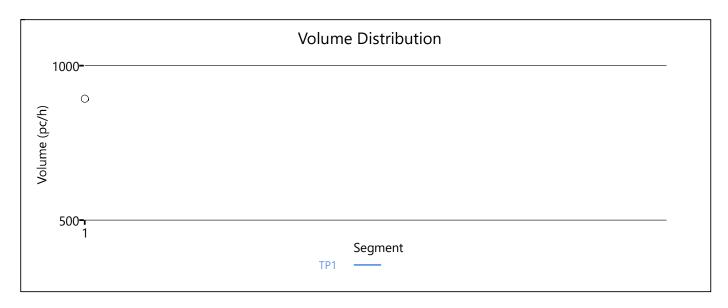


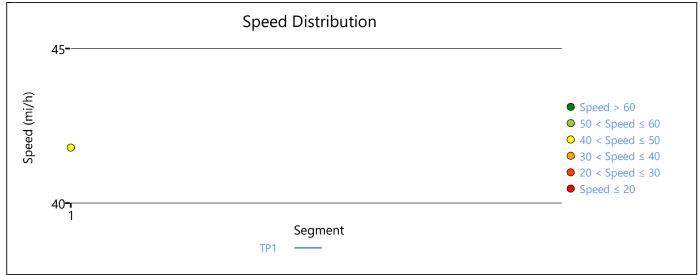


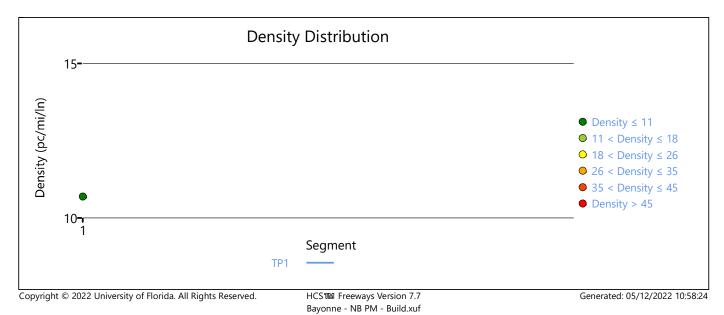
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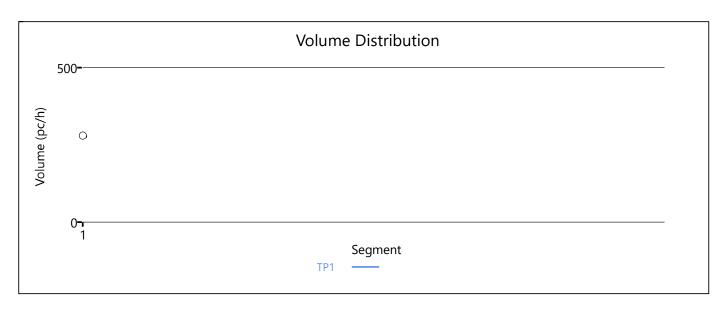
			HCS7	Free	way Faci	lities R	eport							
Project	t Informati	on												
Analyst			CJ		Date	!			4/21/20	22				
Agency			WSP		Anal	ysis Year			NEPA 5					
Jurisdictio	on				Time	Period An	alyzed		PM					
Project D	escription		CBD											
Facility	Global In	put												
Jam Dens	ity, pc/mi/ln		190.0		Dens	sity at Capa	city, pc/ı	mi/ln	45.0					
Queue Di	scharge Capac	ity Drop, %	6 7		Total	l Segments			1					
Total Time	e Periods		1		Time	Period Du	ration, m	in	15					
Facility Le	ngth, mi		1.00											
Facility	Segment	Data												
No.	Coded	\Box	Analyzed	Analyzed				Length	, ft	Lan	nes			
1	Basic		Basic	Basic				5280)	2				
Facility	Segment	Data												
				Seg	gment 1:	Basic								
Time Period	PHF	fHV	Flow Rate (pc/h)		Capacity (pc/h)		d/c latio	Speed (mi/h)		ensity :/mi/ln)	LOS			
1	0.94	0.933	893	893		4400 0.20		41.8		10.7 A				
Facility	Time Peri	od Resu	ılts											
т	Speed, m	i/h	Density, pc/mi/	Density, pc/mi/ln Dens			ity, veh/mi/ln Travel Time, mi				in LOS			
1	41.8		10.7		10.0	10.0 1.40				A				
Facility	Overall R	esults												
Space Me	ean Speed, mi/l	า	41.8	41.8			/ln	10.0						
Average 1	Travel Time, mi	n	1.40		Dens	sity, pc/mi/	ln		10.7					
Messa	ges		·		·									
INFORMA	ATION 1		Density for se comparing LC			od 1 is withi	n 0.5 pc/	mi/In of LOS b	ooundary	Be cautious	when			
Comm	ents													

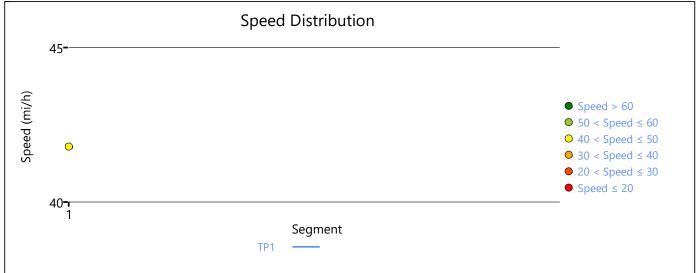


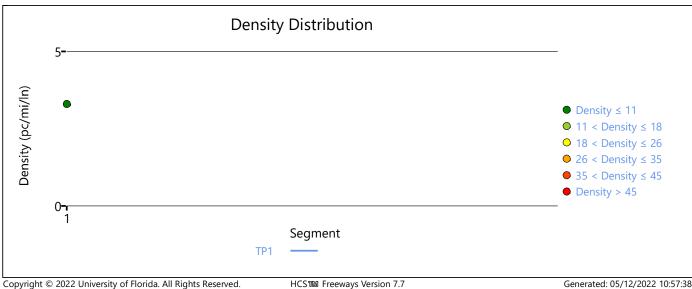




			HCS7	Freeway	Facilities	Report					
Projec	t Informati	ion									
Analyst			CJ		Date			4/21/20	22		
Agency			WSP		Analysis Year			NEPA 5			
Jurisdicti	on				Time Period /	Analyzed		LN			
Project D	escription		CBD								
Facility	y Global In	put									
Jam Dens	sity, pc/mi/ln		190.0		Density at Ca	pacity, pc/ı	mi/ln	45.0			
Queue D	ischarge Capac	ity Drop, %	7		Total Segmer	nts		1			
Total Tim	e Periods		1		Time Period I	Duration, m	nin	15			
Facility Le	ength, mi		1.00								
Facility	y Segment	Data									
No.	Coded		Analyzed		Name Leng			Length, ft		es	
1	Basic		Basic		52)	2		
	y Segment				t 1: Basic						
Time Period	PHF	fHV	Flow Rate (pc/h)		acity c/h)	d/c Ratio	Speed (mi/h)		ensity c/mi/ln)	LOS	
1	0.94	0.865	280	44	4400 0.06		41.8		3.3		
Facility	y Time Peri	od Resul	lts								
т	Speed, m	ni/h	Density, pc/mi/	'In Dens	nsity, veh/mi/ln		Travel Time, mir		in LOS		
1	41.8		3.3		2.9 1.40			A			
	y Overall R	esults		·							
Facility		ı-	41.8		Density, veh/	mi/ln		2.9			
	ean Speed, mi/	n	71.0								
Space Me	ean Speed, mi/ Travel Time, mi		1.40		Density, pc/n	ni/ln		3.3			
Space Me	Travel Time, mi				Density, pc/n	ni/ln		3.3			
Space Me	Travel Time, mi				Density, pc/n	ni/In		3.3			



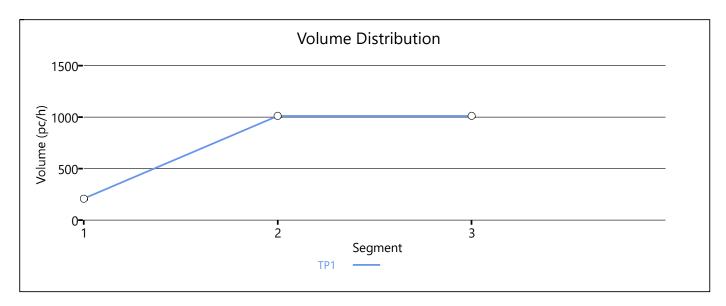


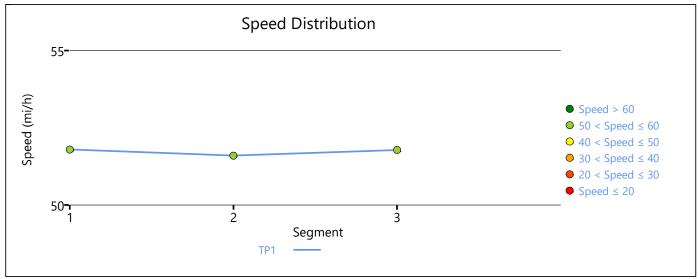


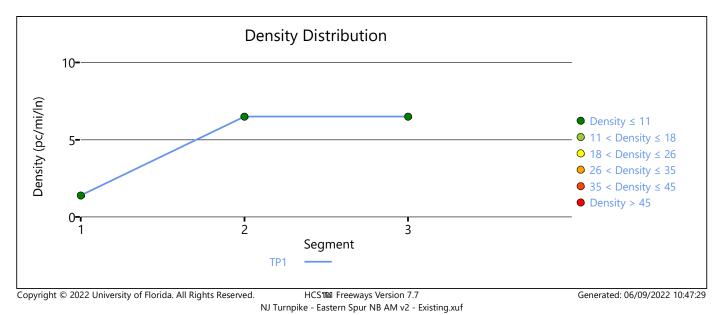
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					НС	S7 Fre	eeway F	acilitie	es Re	eport						
Projec	t Info	rmat	ion													
Analyst					CJ			Date					4/21/202	2		
Agency					WSP			Analysis \	⁄ear				Existing			
Jurisdicti	ion							Time Peri	od Ana	lyzed			AM			
Project [Descripti	on			CBD											
Facilit	y Glol	oal In	put													
Jam Den	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/ı	mi/ln		45.0			
Queue D	Discharg	e Capac	ity Dro	э, %	7			Total Seg	ments				3			
Total Tin	ne Perio	ds			1			Time Peri	od Dura	ation, m	in		15			
Facility L	ength, r	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: Bas	ic							
Time Period	PI	НF	fŀ	IV	Flow Rate (pc/h)			Capacity d/ (pc/h) Rat		/c itio				nsity mi/ln)	LOS	
1	0.	94	0.7	72	20	9	6654 0.03			51	1.8		1.4	А		
						S	egment	2: Mer	ge							
Time Period	PI	HF	fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/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	
						:	Segment	t 3: Bas	ic							
Time Period	PI	НF	fŀ	IV	Flow (pc)			Capacity (pc/h)		d/c Ratio		Speed (mi/h)		nsity mi/ln)	LOS	
1	0.	94	0.8	33	10	13	66	6654 0.15			51.8			6.5	А	
Facilit	y Tim	e Per	iod R	esults	5											
т	Sį	peed, n	ni/h	T	Density, po	c/mi/ln	Densi	sity, veh/mi/ln Tra		Tra	avel Tin	ne, mir	1	LOS		
1		51.8			4.3			3.5			1.20)		А		
Facilit	y Ove	rall R	esults	3												
Space M	lean Spe	ed, mi/	h		51.8			Density, v	eh/mi/	ln			3.5			
Average	Travel T	ime, mi	n		1.20			Density, p	c/mi/lr	1			4.3			
Messa	iges															
Comm	ients															

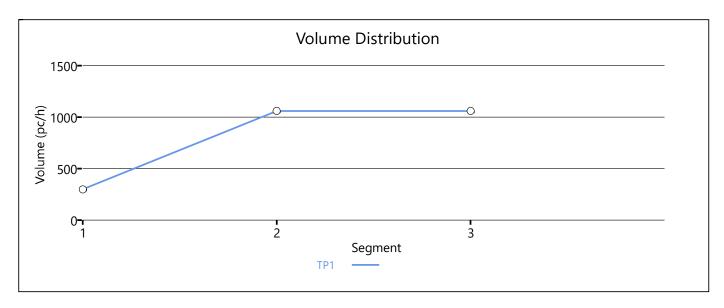


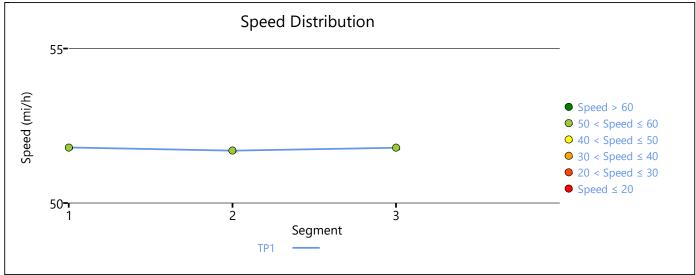


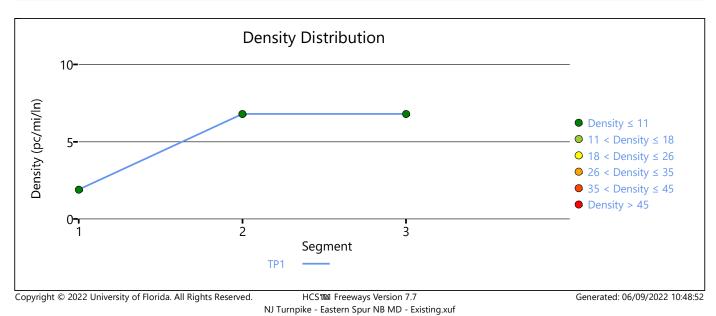


Appendix 4B.6-103

					НС	S7 Fre	eeway F	acilitie	es Re	eport						
Projec	t Info	rmat	ion													
Analyst					CJ			Date					4/21/202	2		
Agency					WSP			Analysis \	'ear				Existing			
Jurisdicti	on							Time Peri	od Ana	lyzed			MD			
Project D	escription (on			CBD											
Facility	y Glok	al In	put													
Jam Den	sity, pc/	mi/ln			190.0		Density a	t Capac	ity, pc/r	mi/ln		45.0				
Queue Discharge Capacity Drop, %					7		Total Segi	ments				3				
Total Tim	ne Perioc	ls			1			Time Peri	od Dura	ation, m	iin		15			
Facility Le	ength, n	ni			1.07											
Facility	y Segı	nent	Data													
No.					Analyzed			Name			L	ength,	ft	Land	es	
1		Basic			Basic							2500		3		
2		Merge			Merge			-				663		3		
3	3 Basic					Basic						2500		3		
Facility	y Segi	nent	Data													
						:	Segmen	t 1: Bas	ic							
Time Period	Pi	łF	fŀ	IV	Flow Rate (pc/h)					/c itio	Spe (mi			ensity /mi/ln)	LOS	
1	0.9	94	0.7	'97	30	0	66	6654 0.05			51	1.8		1.9	А	
						S	egment	2: Mer	ge							
Time Period	Pł	łF	fHV		Flow Rate (pc/h)			Capacity (pc/h)		d/c Ratio		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	
						:	Segment	t 3: Bas	ic							
Time Period	Pi	łF	fŀ	١٧	Flow (pc)			Capacity (pc/h)		d/c Ratio		Speed (mi/h)		ensity /mi/ln)	LOS	
1	0.9	94	3.0	800	106	50	66	54	0.	.16	51	1.8		6.8	А	
Facility	y Time	e Peri	iod R	esults	5											
т	y Time Period Result			Т	Density, pe	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mir	١	LOS		
1		51.8			4.6			3.7			1.20)		Α		
Facility	y Ove	rall R	esult	5												
Space M	ean Spe	ed, mi/	h		51.8			Density, v	eh/mi/	ln			3.7			
Average	Travel Ti	me, mi	n		1.20			Density, p	c/mi/lr	1			4.6			
Messa	ges															
Comm	ents															
Commi	ieii(2															

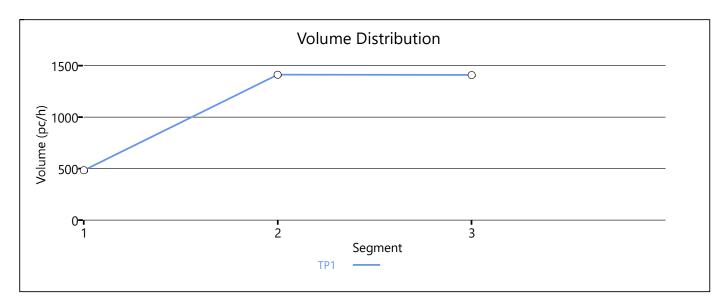


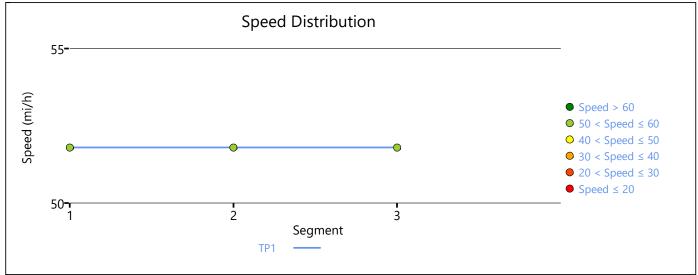


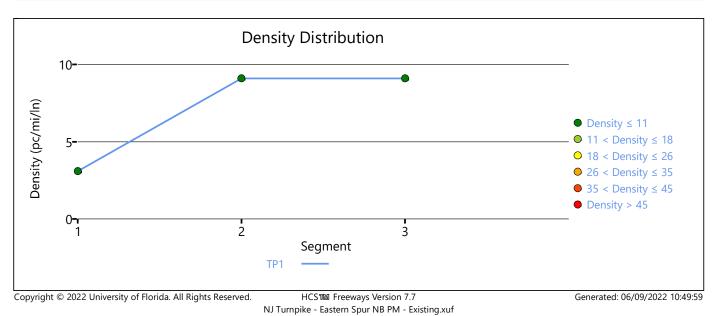


					НС	S7 Fre	eeway F	acilitie	es Re	port							
Projec	t Info	rmat	ion														
Analyst					CJ		Date					4/21/2022					
Agency					WSP			Analysis Y	'ear				Existing				
Jurisdicti	on							Time Peri	od Anal	yzed			PM				
Project D	Descripti	on			CBD												
Facilit	y Glob	oal In	put														
am Den	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0				
Queue D	ischarge	e Capac	ity Dro	э, %	7			Total Segi	ments				3				
Total Tim	ne Period	ds			1			Time Peri	od Dura	ation, m	in		15				
acility L	ength, n	ni			1.07												
Facilit	y Segi	ment	Data														
No.		Coded			Analyzed			Name			L	ength.	ft	Land	es		
1		Basic			Basic							2500		3			
2		Merge			Merge			-				663		3			
3		Basic			Basic						2500			3			
Facilit	y Segi	ment	Data														
	_		,				Segment	t 1: Basi	ic								
Time Period	Pi	4F	fŀ	łV	Flow (pc,			Capacity d/c (pc/h) Ratio			Speed (mi/h)			Density (pc/mi/ln)			
1	0.9	94	0.9	19	484		66	6654 0.07		07	51	1.8	3	.1	A		
						S	egment	2: Mer	ge								
Time Period	Pi	PHF		IV	Flow Rate (pc/h)		Capacity (pc/h)		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	0.919	0.923	1412	928	6750	4000	0.21	0.23	51.8	51.3	9.1	10.4	В		
							Segmen	t 3: Basi	ic								
Time Period	Pł	4F	fŀ	IV	Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)			Density (pc/mi/ln)			
1	0.9	94	0.9)23	14		66		0.	21	51	1.8		9.1 A			
Facilit	y Tim	e Peri	iod R	esults													
т		eed, n		Т	Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mii	1	LOS			
1	<u> </u>	51.8 6.5						5.9			1.20			A			
Facility	v Ove		esulta														
Space M					51.8			Density, v	eh/mi/l	n			5.9				
	Travel T				1.20			Density, p					6.5				
Messa		-,						,, P	, , ,								
					I					0.5	, .,,	(100:	, -				
NFORM	aiion 1					or segments	nt 2 in time sults.	period 1 is	s within	0.5 pc/	mı/ln o	t LOS b	oundary. E	se cautious	when		

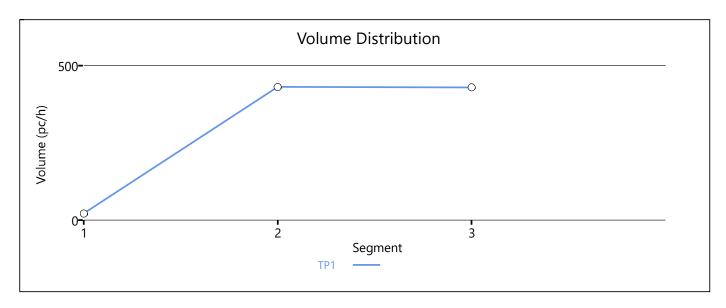
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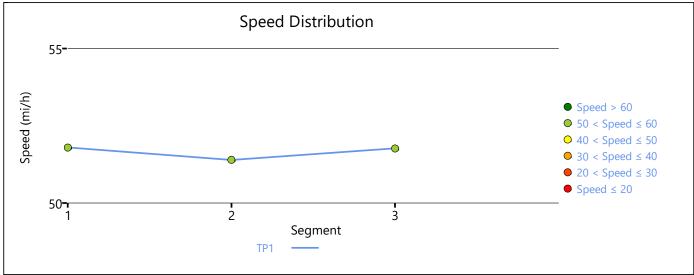


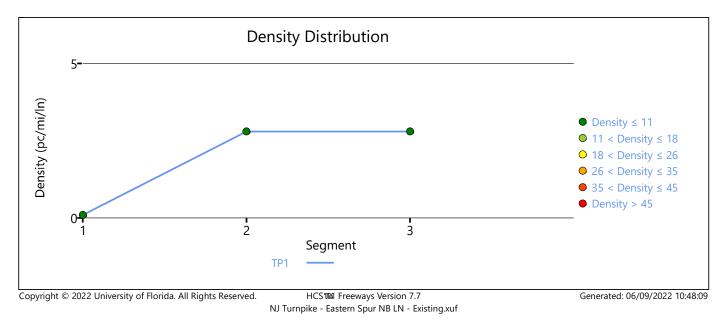




					НС	S7 Fre	eeway F	acilitie	es Re	eport							
Projec	t Info	rmat	ion														
Analyst					CJ			Date					4/21/202	2			
Agency					WSP			Analysis \	'ear				Existing				
Jurisdicti	on							Time Peri	od Ana	lyzed			LN				
Project D	escription (on			CBD												
Facility	y Glok	al In	put														
Jam Den:	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0				
Queue D	ischarge	Capac	ity Dro	э, %	7			Total Segi	ments				3				
Total Tim	ne Perioc	ls			1			Time Peri	od Dura	ation, m	iin		15				
Facility Le	ength, n	ni			1.07												
Facility	y Segı	nent	Data														
No.		Coded			Analyzed			Name			L	ength,	ft	Land	es		
1		Basic			Basic							2500		3			
2		Merge			Merge			-				663		3			
3		Basic			Basic							2500		3			
Facility	y Segı	nent	Data														
						:	Segmen	t 1: Bas	ic								
Time Period	Pi	łF	fŀ	IV	Flow (pc,			pacity d/c c/h) Ratio			Spe (mi			ensity /mi/ln)	LOS		
1	0.9	94	0.7	'23	22	2	6654 0.00				51	1.8		0.1	Α		
						S	egment	2: Mer	ge								
Time Period	Pł	łF	fŀ	IV	Flow (pc,			Capacity (pc/h)		d/c Ratio		Speed (mi/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	0.723	0.888	431	409	6750	4000	0.06	0.10	51.4	51.3	2.8	4.5	А		
						:	Segment	t 3: Bas	ic								
Time Period	Pi	łF	fŀ	١٧	Flow (pc)		Capa (pc			/c itio	Spe (mi	eed i/h)	D (pc	ensity /mi/ln)	LOS		
1	0.9	94	0.8	80	43	0	66	54	0.	.06	51	1.8		2.8	А		
Facility	y Time	e Peri	iod R	esults	5												
т	Sp	eed, n	ni/h	Т	Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mir	1	LOS			
1		51.7			1.6			1.4			1.20)		Α			
Facility	y Ove	rall R	esults	5													
Space Mo	ean Spe	ed, mi/	h		51.7			Density, v	eh/mi/	ln			1.4				
Average	Travel Ti	me, mi	n		1.20			Density, p	c/mi/lr	1			1.6				
Messa	ges																
Comm	ents																
Comin	ieiil5																

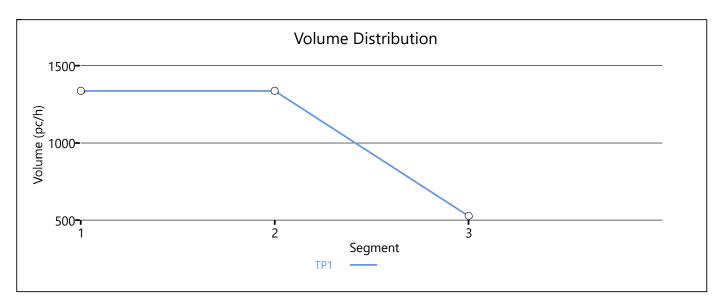


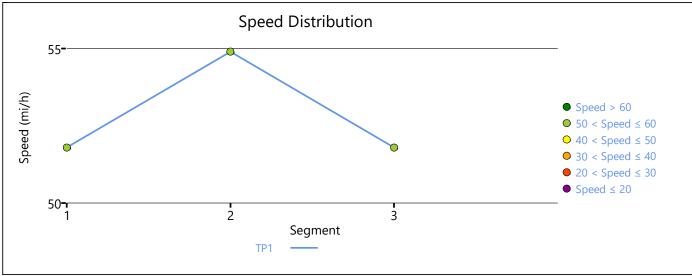


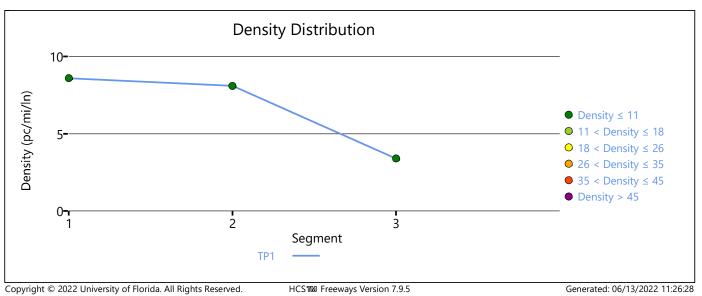


					НС	S7 Fre	eeway F	-acilitie	es Re	eport						
Proje	ct Info	rmat	ion													
Analyst					CJ			Date					4/21/2022	2		
Agency					WSP		Analysis Year						Existing			
Jurisdict	tion							Time Ana	lyzed		AM					
Project	Descripti	on			CBD	CBD Units							U.S. Custo	mary		
Facilit	ty Glol	oal In	put													
Jam Der	nsity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/r	ni/ln		45.0			
Queue [Discharge	Capac	ity Dro	э, %	7			Total Segi	ments				3			
Total Ar	nalysis Pe	riods			1			Analysis F	eriod D	uration	, min		15			
Facility I	Length, n	ni			1.29											
Facilit	ty Seg	ment	Data													
No.		Coded			Analyzed			Name			L	.ength	ft	Land	es	
1		Basic			Basic							2500		3		
2		Diverge			Basic			-				1800		3		
3		Basic			Basic	Basic						2500		3		
Facilit	ty Seg	ment	Data													
							Segment	t 1: Basi	ic							
AP	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS	
1	0.5	94	0.8	346	133	37	66	54	0.	20	51	1.8	8	3.6	А	
						Se	egment i	2: Diver	ge							
AP	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c tio				nsity mi/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	Α	
							Segmen	t 3: Basi	ic							
AP	PI	4F	fŀ	IV	Flow (pc,		Capa (pc			/c itio		eed i/h)		nsity mi/ln)	LOS	
1	0.	94	0.8	373	52	.8	66	54	0.	08	51	1.8	3	3.4	А	
Facilit	ty Ana	lysis	Resul	ts												
AP	Sį	eed, m	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mii	1	LOS		
1		52.8			6.6			5.6			1.50)		Α		
Facilit	ty Ove	rall R	esults	5												
Space N	Лean Spe	ed, mi/	h		52.8			Density, v	eh/mi/l	n			5.6			
Average	e Travel T	ime, mi	n		1.50			Density, p	c/mi/ln				6.6			
Messa	ages															
WARNII	NG 1				Ramp se	gment ler	gth is longe	er than 150	00 feet	for segr	nent 2.					

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





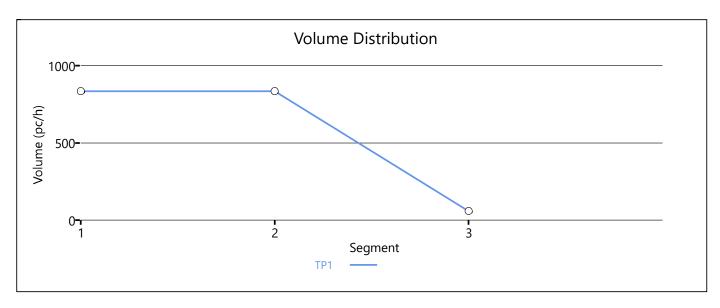


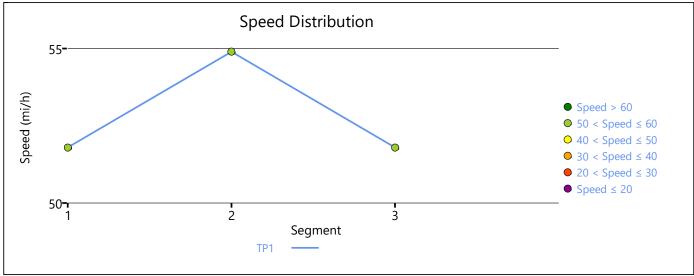
NJ Turnpike - Eastern Spur SB AM - Existing.xuf

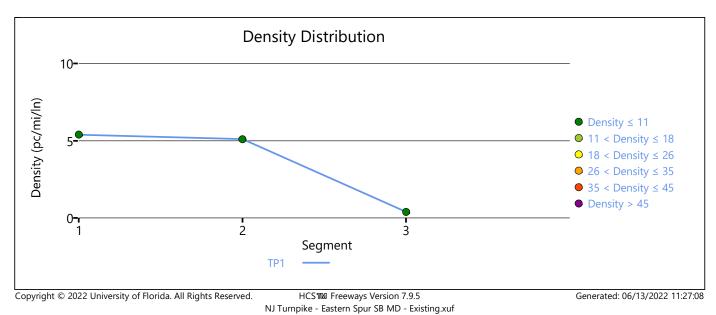
Appendix 4B.6-115

					НС	S7 Fre	eeway l	- acilitie	es Re	port						
Projec	ct Info	rmat	ion													
Analyst					CJ			Date					4/21/202	2		
Agency					WSP			Analysis Y	'ear				Existing			
Jurisdict	ion							Time Ana	lyzed				MD			
Project I	Descripti	on			CBD	IBD 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	ni/ln		45.0			
Queue [Discharge	Capac	ity Dro	э, %	7			Total Segr	ments				3			
Total An	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15			
Facility L	ength, n	ni			1.29											
Facilit	y Segı	ment	Data													
No.		Coded			Analyzed			Name			L	ength.	, ft	Land	es	
1		Basic			Basic							2500		3		
2	ı	Diverge			Basic			-				1800		3		
3		Basic			Basic							2500		3		
Facilit	y Segı	ment	Data													
							Segmen	t 1: Basi	ic							
AP	Pi	4F	fŀ	IV	Flow (pc)		acity /h)		/c tio		eed i/h)		nsity mi/ln)	LOS		
1	0.9	94	8.0	310	83	5	6654 0.13				5	1.8		5.4	Α	
	•					Se	egment	2: Diver	ge							
AP	Pi	4F	fŀ	IV	Flow (pc)		Capa (pc			/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	0.810	0.817	835	776	6750	4200	0.12	0.18	54.9	55.0	5.1	5.1	А	
							Segmen	t 3: Basi	ic							
АР	PI	4F	fŀ	١٧	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS	
1	0.9	94	0.7	'15	60)	66	54	0.	01	51	1.8).4	А	
Facilit	y Ana	lysis	Resul	ts												
AP	Sp	eed, m	ni/h		Density, po	c/mi/ln	Densi	ity, veh/mi	i/ln	Tra	vel Tin	ne, mi	n	LOS		
1		53.0			3.5			2.8			1.50	0		Α		
Facilit	y Ove	rall R	esults	5												
Space M	1ean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			2.8			
Average	Travel T	ime, mi	n		1.50			Density, p	c/mi/ln				3.5			
Messa	ages															
	NG 1						gth is long	4b 1F0	O foot	for coar	nont 2					

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

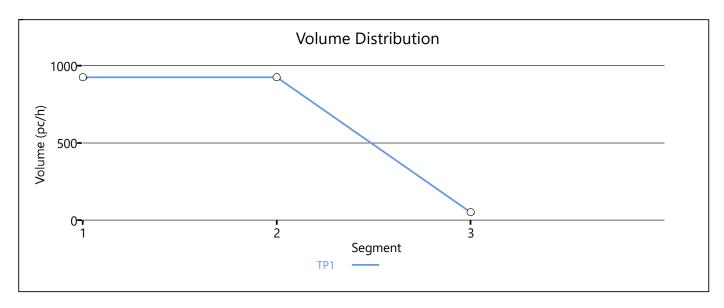


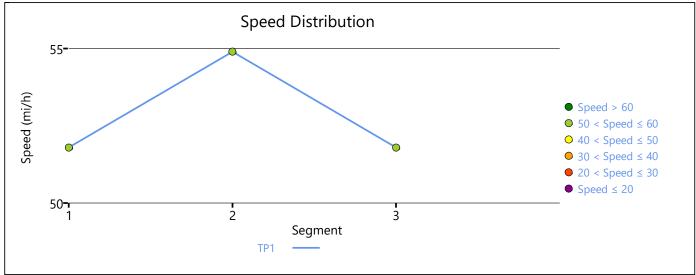


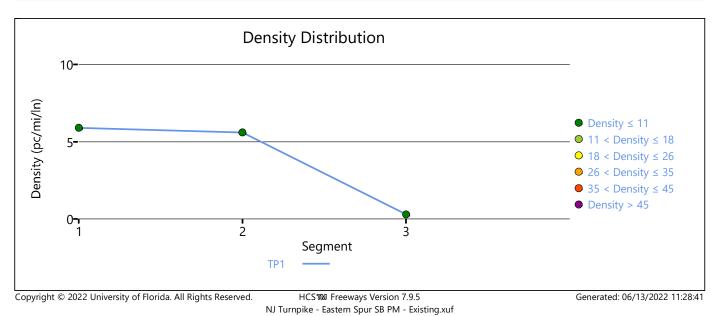


					НС	S7 Fre	eeway l	- acilitie	es Re	port						
Proje	ct Info	rmat	ion													
Analyst					CJ			Date					4/21/2022	<u> </u>		
Agency					WSP			Analysis Y	'ear				Existing			
Jurisdict	tion					Time Analyzed							PM			
Project	Descripti	on			CBD	BD Units							U.S. Custo	mary		
Facilit	ty Glol	oal In	put													
Jam Der	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0			
Queue I	Discharge	e Capac	ity Dro	р, %	7			Total Segi	ments				3			
Total An	alysis Pe	riods			1			Analysis F	eriod D	uration	, min		15			
Facility I	Length, n	ni			1.29											
Facilit	ty Seg	ment	Data													
No.		Coded			Analyzed			Name			L	ength.	, ft	Land	es	
1		Basic			Basic							2500		3		
2		Diverge	!		Basic			-				1800		3		
3		Basic			Basic	Basic						2500		3		
Facilit	ty Seg	nent	Data													
							Segmen	t 1: Basi	ic							
AP	PI	4F	fŀ	١٧	Flow (pc)		Capa (pc			/c itio		eed i/h)		nsity mi/ln)	LOS	
1	0.	94	0.9	921	92	.5	6654 0.14				51	1.8	į	5.9	Α	
	•					Se	egment	2: Diver	ge							
AP	PI	4F	fl	łV	Flow (pc)		Capa (pc			/c itio		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	0.921	0.926	925	874	6750	4200	0.14	0.21	54.9	55.0	5.6	5.6	А	
							Segmen	t 3: Basi	ic							
AP	PI	4F	fŀ	łV	Flow (pc,		Capa (pc			/c itio		eed i/h)		nsity mi/ln)	LOS	
1	0.	94	3.0	322	52	2	66	54	0.	01	51	1.8	().3	А	
Facilit	ty Ana	lysis	Resul	ts												
AP	Sį	eed, n	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mi	1	LOS		
1		53.0			3.8			3.4			1.50	0		Α		
Facilit	ty Ove	rall R	esults	5												
Space N	Лean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			3.4			
Average	Travel T	ime, mi	n		1.50			Density, p	c/mi/ln	1			3.8			
Messa	ages															
WARNII	VC 1				Ramp se	gment len	gth is long	er than 150	00 feet	for segr	ment 2.					

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

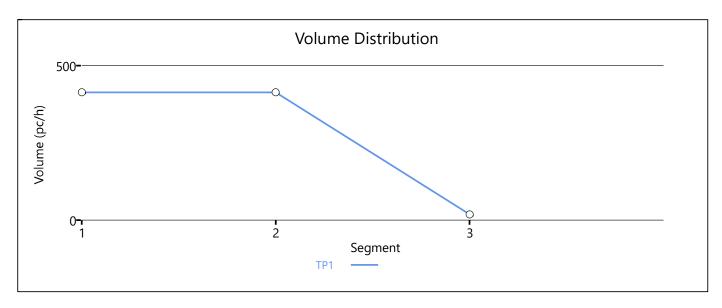


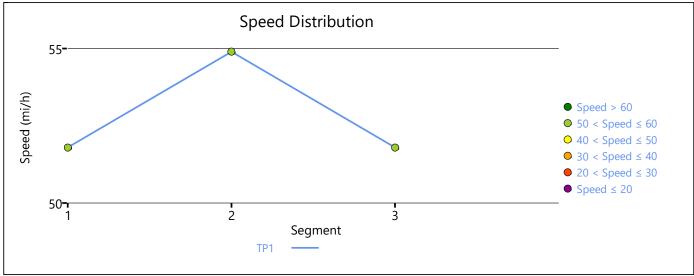


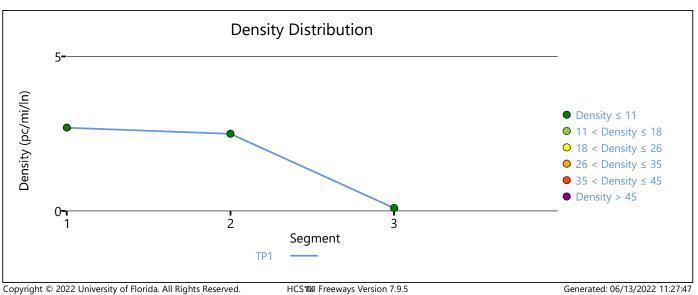


					НС	S7 Fre	eeway l	- acilitie	es Re	port						
Proje	ct Info	rmat	ion													
Analyst					CJ			Date					4/21/2022			
Agency					WSP		Analysis Year						Existing			
Jurisdict	tion							Time Ana	lyzed		LN					
Project	Descripti	on			CBD			Units					U.S. Custo	mary		
Facilit	ty Glol	oal In	put													
Jam Der	nsity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/r	ni/ln		45.0			
Queue I	Discharge	Capac	ity Dro	р, %	7			Total Segi	ments				3			
Total An	nalysis Pe	riods			1			Analysis F	eriod D	uration	, min		15			
Facility I	Length, n	ni			1.29											
Facilit	ty 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						2500		3			
Facilit	ty Segi	ment	Data													
							Segmen	t 1: Basi	ic							
AP	PI	4F	fŀ	١٧	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity ni/ln)	LOS	
1	0.	94	3.0	891	41	4	6654 0.06				51	1.8	2	7	А	
						Se	egment	2: Diver	ge							
AP	PI	4F	fl	łV	Flow (pc)		Capa (pc			/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	0.891	0.899	414	395	6750	4200	0.06	0.09	54.9	55.0	2.5	2.5	А	
							Segmen	t 3: Basi	ic							
AP	PI	4F	fŀ	łV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS	
1	0.	94	0.7	'34	19	9	66	54	0.	00	51	1.8	C	.1	А	
Facilit	ty Ana	lysis	Resul	ts												
AP	Sį	eed, m	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mii	1	LOS		
1		53.0			1.7			1.5			1.50)		Α		
Facilit	ty Ove	rall R	esults	5												
Space N	Лean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			1.5			
Average	e Travel T	ime, mi	n		1.50			Density, p	c/mi/ln				1.7			
Messa	ages															
WARNII	NG 1				Ramp se	gment len	gth is long	er than 150	00 feet	for segr	ment 2.					

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





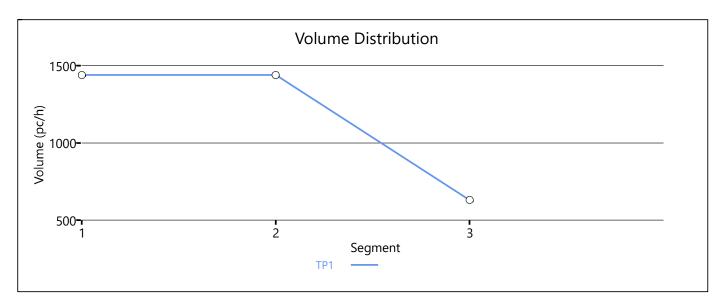


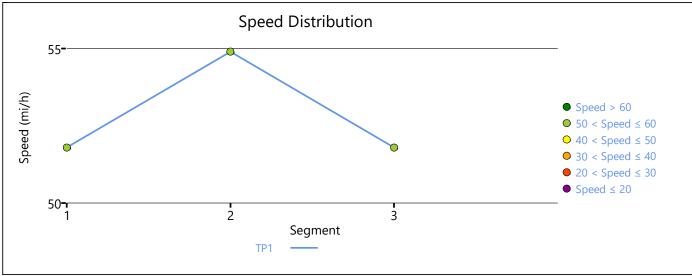
NJ Turnpike - Eastern Spur SB LN - Existing.xuf

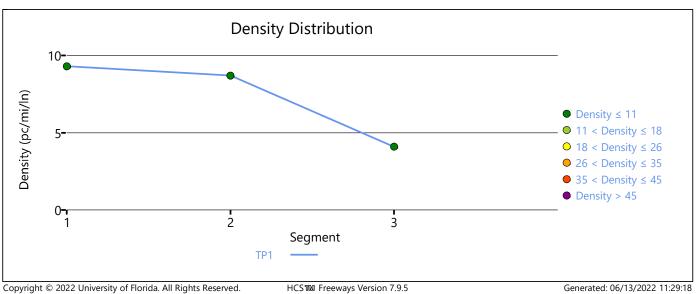
Appendix 4B.6-124

					НС	S7 Fre	eeway l	- acilitie	es Re	port						
Proje	ct Info	rmat	ion													
Analyst					CJ			Date					4/21/2022	2		
Agency					WSP		Analysis Year						NoBuild			
Jurisdict	tion							Time Ana	lyzed		AM					
Project l	Descripti	on			CBD	CBD Units							U.S. Custo	mary		
Facilit	ty Glob	al In	put													
Jam Der	nsity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/r	ni/ln		45.0			
Queue [Discharge	Capac	ity Dro	э, %	7			Total Segr	ments				3			
Total An	alysis Pe	riods			1			Analysis P	eriod D	uration	, min		15			
Facility l	Length, n	ni			1.29											
Facilit	ty Segi	nent	Data													
No.		Coded			Analyzed			Name			L	ength.	, ft	Land	es	
1		Basic			Basic							2500		3		
2	ı	Diverge			Basic			-				1800		3		
3		Basic			Basic						2500		3			
Facilit	ty Segi	nent	Data													
							Segmen	t 1: Basi	ic							
AP	PI	łF	fŀ	IV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS	
1	0.9	94	0.8	46	144	40	6654 0.22				51	1.8	(9.3	А	
						Se	egment	2: Diver	ge							
AP	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/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	0.846	0.829	1440	805	6750	4200	0.21	0.19	54.9	55.0	8.7	8.7	Α	
							Segmen	t 3: Basi	ic							
AP	PI	łF	fŀ	IV	Flow (pc,		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS	
1	0.9	94	0.8	73	63	1	66	54	0.	09	51	1.8	4	1 .1	А	
Facilit	ty Ana	lysis	Resul	ts												
AP	Sp	eed, m	ni/h		Density, po	c/mi/ln	Densi	ity, veh/mi	i/ln	Tra	vel Tin	ne, mi	n	LOS		
1		52.8			7.2			6.2			1.50	0		А		
Facilit	ty Ove	rall R	esults	3												
Space M	lean Spe	ed, mi/	h		52.8			Density, v	eh/mi/l	n			6.2			
Average	Travel T	me, mi	n		1.50			Density, p	c/mi/ln				7.2			
Messa	ages															
WARNIN	NG 1				Ramp se	gment ler	gth is long	er than 150	00 feet	for segr	ment 2.					

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







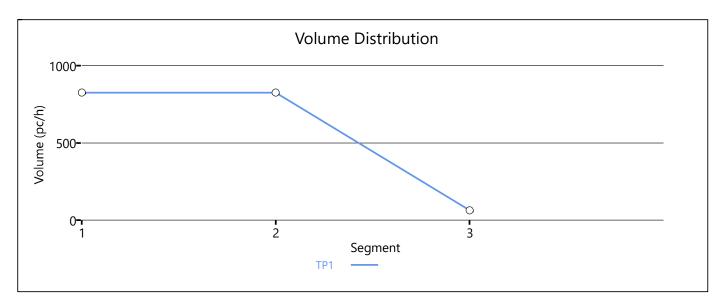
NJ Turnpike - Eastern Spur SB AM - NoBuild.xuf

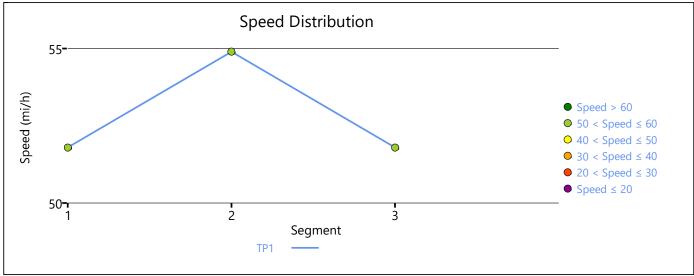
August 2022

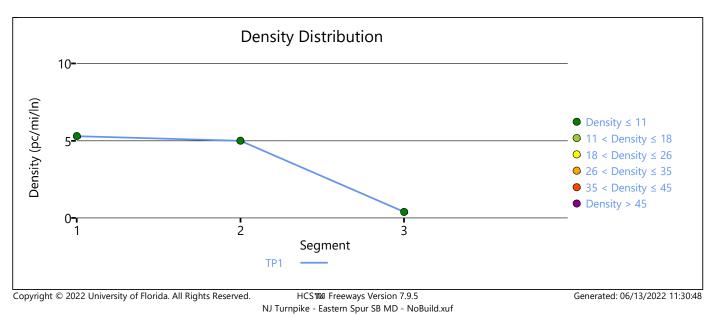
Appendix 4B.6-127

					НС	S7 Fre	eeway l	- acilitie	es Re	port						
Proje	ct Info	rmat	ion													
Analyst					CJ			Date					4/21/2022	<u> </u>		
Agency					WSP			Analysis Y	'ear				No Build			
Jurisdict	tion							Time Ana	lyzed				MD			
Project	Descripti	on			CBD	BD Units							U.S. Custo	mary		
Facilit	ty Glol	oal In	put													
Jam Der	nsity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/r	ni/ln		45.0			
Queue I	Discharge	Capac	ity Dro	р, %	7			Total Segi	ments				3			
Total An	nalysis Pe	riods			1			Analysis F	eriod D	uration	, min		15			
Facility I	Length, n	ni			1.29											
Facilit	ty Seg	ment	Data													
No.		Coded			Analyzed			Name			L	ength.	, ft	Land	es	
1		Basic			Basic							2500		3		
2		Diverge			Basic			-				1800		3		
3		Basic			Basic	Basic						2500		3		
Facilit	ty Seg	ment	Data													
							Segmen	t 1: Basi	ic							
AP	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS	
1	0.	94	8.0	310	82	.6	66	54	0.	12	51	1.8	Į.	5.3	А	
						Se	egment	2: Diver	ge							
AP	PI	4F	fŀ	łV	Flow (pc)		Capa (pc			/c itio	Speed (mi/h)			nsity mi/ln)	LOS	
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp		
1	0.94	0.94	0.810	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	4F	fŀ	łV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS	
1	0.	94	0.7	'15	64	4	66	54	0.	01	51	1.8	().4	А	
Facilit	ty Ana	lysis	Resul	ts												
AP	Sį	eed, n	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mi	n	LOS		
1		53.0			3.4			2.8			1.50	0		А		
Facilit	ty Ove	rall R	esults	5												
Space N	Лean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			2.8			
Average	e Travel T	ime, mi	n		1.50			Density, p	c/mi/ln	1			3.4			
Messa	ages															
WARNII	NG 1				Ramp se	gment ler	gth is long	er than 150	00 feet	for segr	ment 2.					

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

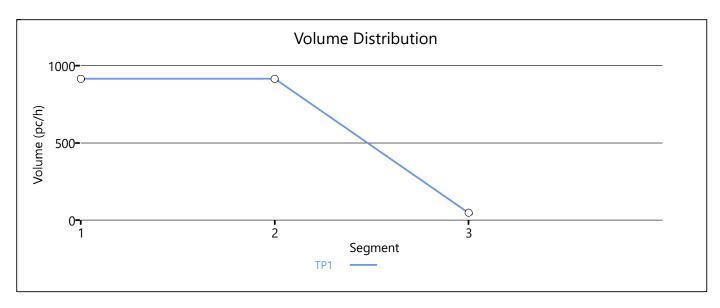


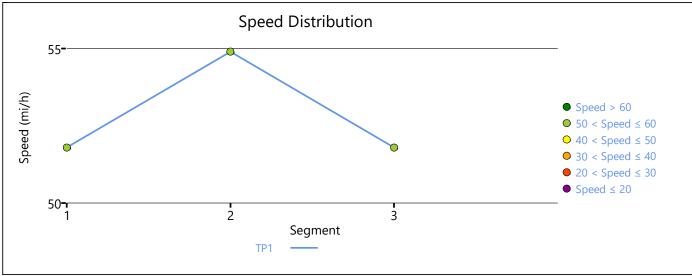


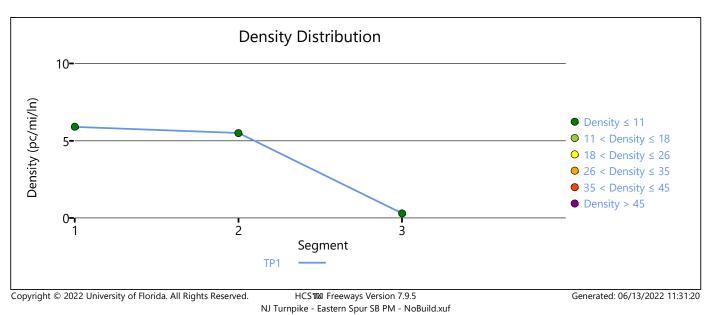


					НС	S7 Fre	eeway l	- acilitie	es Re	port					
Proje	ct Info	rmat	ion												
Analyst					CJ			Date					4/21/2022	2	
Agency					WSP			Analysis Year					No Build		
Jurisdict	tion							Time Ana	lyzed				PM		
Project l	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	ty Gloł	oal In	put												
Jam Der	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	ni/ln		45.0		
Queue [risdiction oject Description acility Global Input m Density, pc/mi/In deue Discharge Capacity Drop, otal Analysis Periods cility Length, mi acility Segment Data No. Coded 1 Basic 2 Diverge 3 Basic 4 Diverge 4 Diverge 5 Basic 6 Diverge 7 Diverge 8 Basic 7 Diverge 9 Diverge 1 0.94 0.921 AP PHF FHV 1 0.94 0.921 AP PHF FHV 1 0.94 0.94 0.921 0 AP PHF FHV 1 0.94 0.94 0.921 0			э, %	7	Total Segi	ments				3				
Total An	alysis Pe	riods			1			Analysis F	eriod D	uration	, min		15		
Facility l	Length, n	ni			1.29										
Facilit	ty Segı	ment	Data												
No.		Coded			Analyzed			Name Length, ft 2500 1800 2500 2500					Lan	es	
1		Basic			Basic						2500		3		
2	ı	Diverge	!		Basic		-			1800			3		
3		Basic			Basic							2500		3	
Facilit	ty Segi	ment	Data												
							Segmen	t 1: Basi	ic						
АР	Pi	PHF fHV		IV	Flow Rate (pc/h)			Capacity (pc/h)						nsity mi/ln)	LOS
1	0.9	94	0.9	21	915		66	6654 0.14		51.8		5.9		А	
	•					Se	egment	2: Diver	ge						
АР	PI	4F	fl	IV	Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)			nsity mi/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.94	0.94	0.921	0.926	915	867	6750	4200	0.14	0.21	54.9	55.0	5.5	5.5	А
						:	Segmen	t 3: Basi	ic						
AP	PI	4F	fŀ	IV	Flow (pc)			Capacity (pc/h)		/c tio		eed i/h)		nsity mi/ln)	LOS
1	0.9	94	3.0	322	48	3	66	54	0.	01	51	1.8	().3	А
Facilit	ty Ana	lysis	Resul	ts											
AP	Sp	eed, m	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mi	n	LOS	
1		53.0			3.7			3.4			1.50	0		А	
Facilit	ty Ove	rall R	esults	5											
Space M	Лean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			3.4		
Average	Travel T	ime, mi	n		1.50			Density, p	c/mi/ln				3.7		
Messa	ages														
	NG 1				Pamp se	ament ler	ath is long	er than 150	00 feet	for sear	ment 2.				

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

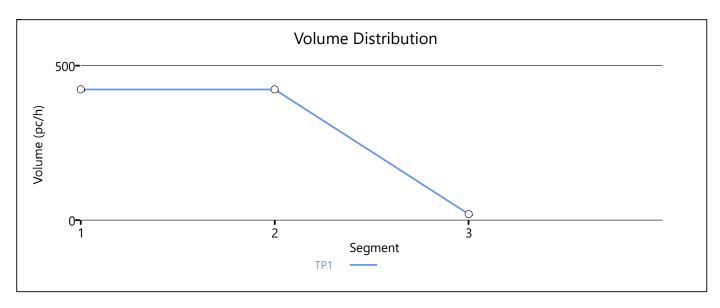


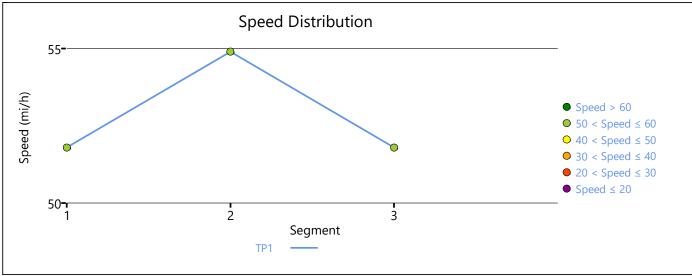


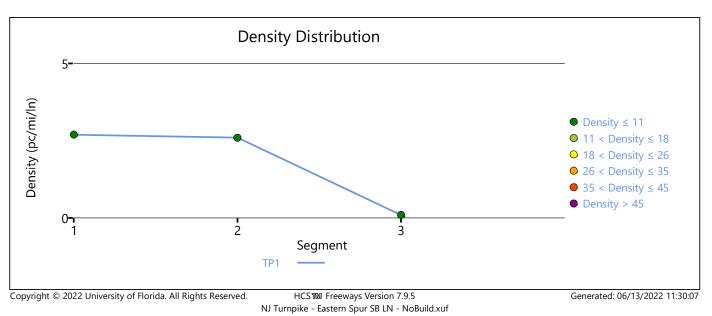


					НС	S7 Fre	eeway l	Facilitie	es Re	port							
Proje	ct Info	rmat	ion														
Analyst					CJ			Date					4/21/2022				
Agency					WSP			Analysis Year					No Build				
Jurisdict	tion							Time Ana	lyzed				LN				
Project l	Descripti	on			CBD			Units					U.S. Custo	mary			
Facilit	ty Glob	oal In	put														
Jam Der	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	ni/ln		45.0				
Queue [risdiction oject Description acility Global Input m Density, pc/mi/In Decue Discharge Capacity Drop, Stal Analysis Periods cility Length, mi acility Segment Data No. Coded 1 Basic 2 Diverge 3 Basic Acility Segment Data AP PHF fHV 1 0.94 0.891 AP PHF fHV 1 0.94 0.891 0.891 AP PHF fHV 1 0.94 0.891 0.891 AP PHF fHV 1 0.94 0.94 0.891 0.891 AP PHF fHV 1 0.94 0.94 0.891 0.891			р, %	7	Total Segi	ments				3						
Total An	alysis Pe	riods			1			Analysis F	eriod D	uration	, min		15				
Facility l	Length, n	ni			1.29												
Facilit	ty Segi	ment	Data														
No.		Coded			Analyzed			Name			L	ength.	, ft	Lanes 3 3 3 Coensity comi/ln)			
1		Basic			Basic						2500		3				
2	ı	Diverge	!		Basic		-				1800		3				
3		Basic			Basic							2500		3			
Facilit	ty Segi	ment	Data														
							Segmen	t 1: Basi	ic								
АР	Pi	PHF fHV		łV	Flow Rate (pc/h)			Capacity (pc/h)		d/c Speed Ratio (mi/h)					LOS		
1	0.9	94	3.0	891	42	.3	66	6654 0.06			51	1.8	2.7		Α		
	•					Se	egment	2: Diver	ge								
АР	PI	4F	fl	łV	Flow Rate (pc/h)			Capacity (pc/h)		d/c Ratio		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	0.891	0.899	423	402	6750	4200	0.06	0.10	54.9	55.0	2.6	2.6	А		
							Segmen	t 3: Basi	ic								
AP	PI	-lF	fŀ	łV	Flow (pc)			Capacity (pc/h)		d/c Ratio		eed i/h)		nsity mi/ln)	LOS		
1	0.9	94	0.7	'34	20)	66	54	0.	00	51	1.8	С	.1	Α		
Facilit	ty Ana	lysis	Resul	ts													
АР	Sp	eed, n	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mii	1	LOS	LOS A		
1		53.0			1.7			1.5			1.50)		А			
Facilit	ty Ove	rall R	esults	5													
Space M	Лean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			1.5				
Average	Travel T	ime, mi	n		1.50			Density, p	c/mi/ln				1.7				
Messa	ages																
WARNIN	NG 1				Ramp se	gment ler	gth is long	er than 150	00 feet	for segr	ment 2.						

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



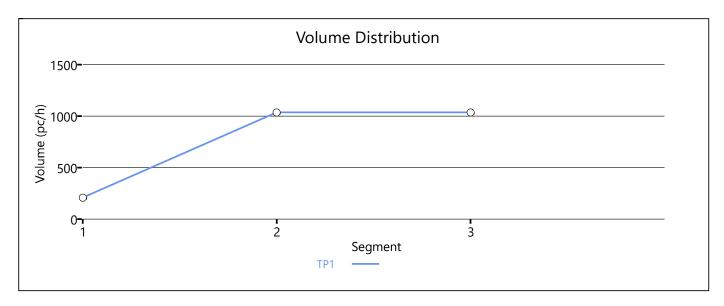


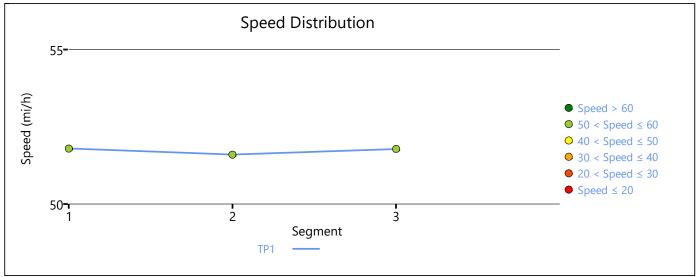


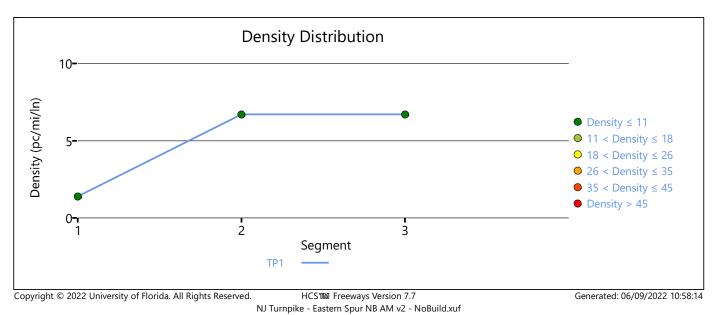
August 2022

Appendix 4B.6-136

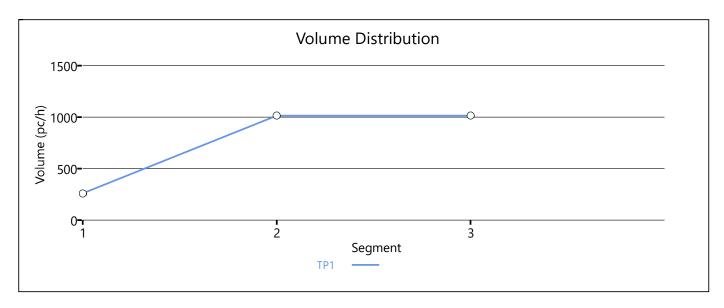
					НС	S7 Fre	eeway F	acilitie	es Re	eport						
Projec	t Info	rmat	ion													
Analyst					CJ			Date					4/21/202	22		
Agency					WSP			Analysis Year					No Build			
Jurisdicti	ion							Time Peri	od Ana	lyzed			AM			
Project D	Descripti	on			CBD											
Facility	y Glol	oal In	put													
Jam Den	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/ı	mi/ln		45.0			
Queue D	Discharg	e Capac	ity Dro	э, %	7			Total Seg	ments				3			
Total Tim	ne Perio	ds			1			Time Peri	od Dura	ation, m	iin		15			
Facility L	ength, r	ni			1.07											
Facility	y 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		
Facility	y Seg	ment	Data													
							Segment	t 1: Bas	ic							
Time Period	PI	PHF fHV		IV	Flow (pc,			Capacity d/c (pc/h) Ratio			Speed (mi/h)			ensity /mi/ln)	LOS	
1	0.	94	0.7	72	20	9	66	54	0.	.03	51	1.8		1.4	А	
						S	egment	2: Mer	ge							
Time Period	PI	HF	fŀ	IV	Flow (pc,		Capa (pc			/c itio		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	
						:	Segment	t 3: Bas	ic							
Time Period	PI	НF	fŀ	١٧	Flow (pc)			Capacity		d/c Speed			Density (pc/mi/ln)		LOS	
1	0.	94	0.8	33	103	37	66	54	0.	.16	51	1.8		6.7	А	
Facilit	y Tim	e Per	iod R	esults	5											
т	Sį	peed, n	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mii	1	LOS		
1		51.8			4.4			3.6			1.20)		А		
Facilit	y Ove	rall R	esult	5												
Space M	lean Spe	ed, mi/	'n		51.8			Density, v	eh/mi/	ln			3.6			
Average	Travel T	ime, mi	in		1.20			Density, p	c/mi/lr	1			4.4			
Messa	iges															
Comm	ients															

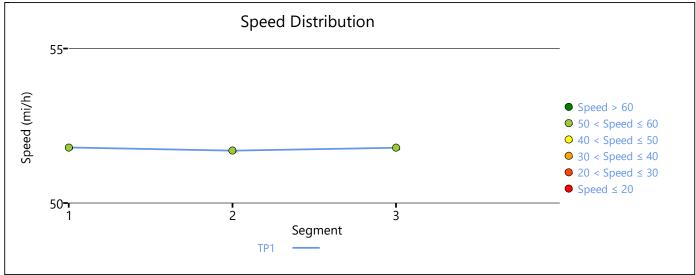


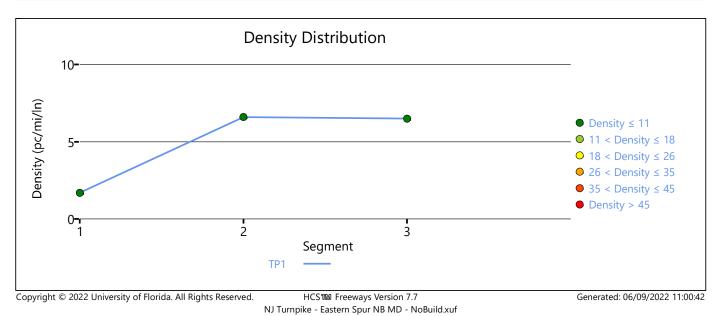




					НС	S7 Fre	eeway F	acilitie	es Re	eport											
Projec	t Info	rmat	ion																		
Analyst					CJ			Date					4/21/202	2							
Agency					WSP			Analysis \	⁄ear		No Build										
Jurisdicti	ion							Time Peri	od Ana	lyzed			MD								
Project [Descripti	on			CBD																
Facilit	y Glol	oal In	put																		
Jam Den	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/ı	mi/ln		45.0								
Queue D	risdiction Deject Description Acility Global Input In Density, pc/mi/In Density Segment Data Density			7			Total Seg	ments				3									
Total Tin	ne Perio	ds			1			Time Peri	od Dura	ation, m	iin		15								
Facility L	ength, r	ni			1.07																
Facilit	y Seg	ment	Data																		
No.		Coded			Analyzed			Name			L	.ength,	, ft	Lane	es						
1		Basic			Basic							2500		3	3 3 3						
2		Merge			Merge			-				663		3							
3		Basic			Basic						2500			3							
Facilit	y Seg	ment	Data																		
						!	Segment	t 1: Bas	ic												
Time Period	PI	PHF fHV		łV	Flow (pc,			Capacity d/c (pc/h) Ratio			Spe (mi	eed i/h)		ensity /mi/ln)	LOS						
1	0.	94	0.7	'97	26	0	66	54	0.	.04	51	1.8		1.7	А						
						S	egment	2: Mer	ge												
Time Period	PI	HF	fŀ	łV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		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						
						:	Segment	t 3: Bas	ic												
Time Period	PI	НF	fŀ	łV	Flow (pc)		Capa (pc			/c itio		eed i/h)		ensity /mi/ln)	LOS						
1	0.	94	0.0	300	10	16	66	54	0.	.15	51	1.8		6.5	А						
Facilit	y Tim	e Per	iod R	esults	5																
т	Sį	peed, n	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mir	1	LOS							
1		51.8			4.4			3.5			1.20)		А							
Facilit	y Ove	rall R	esult	5																	
Space M	lean Spe	ed, mi/	h		51.8			Density, v	eh/mi/	ln			3.5								
Average	Travel T	ime, mi	n		1.20			Density, p	c/mi/lr	١			4.4								
Messa	iges																				
Comm	ients																				

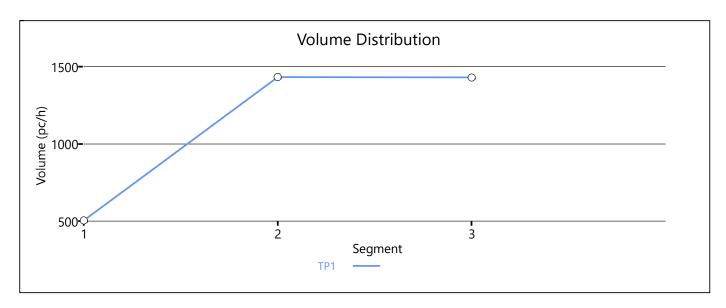


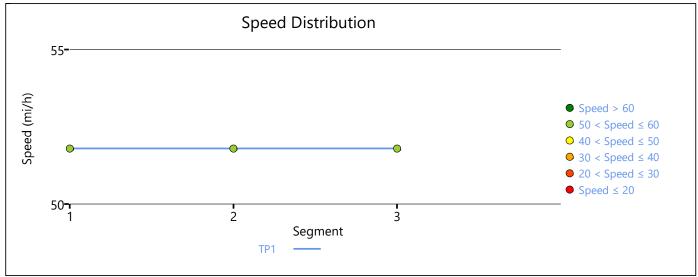


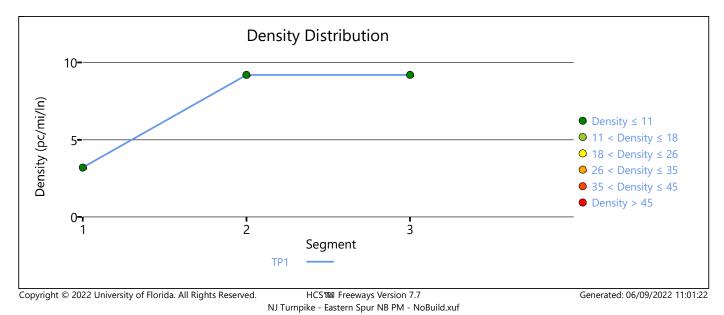


					НС	S7 Fre	eeway F	-acilitie	es Re	port	:					
Projec	t Info	rmat	ion													
Analyst					CJ			Date				4/21/2022				
Agency					WSP	Analysis Y	'ear				No Build					
Jurisdiction								Time Peri	od Anal	yzed			PM			
Project D	Descripti	on			CBD											
Facilit	y Gloł	oal In	put													
Jam Den	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0			
Queue D	ischarge	e Capac	ity Dro	э, %	7			Total Segi	ments				3			
Total Tim	ne Period	ds			1			Time Peri	od Dura	ition, m	in		15			
Facility L	ength, n	ni			1.07											
Facilit	y Segı	ment	Data													
No.		Coded			Analyzed	Name			L	ength.	, ft	Land	es			
1		Basic			Basic							2500		3		
2		Merge			Merge			_				663		3		
3		Basic			Basic							2500		3		
Facilit	y Segi	ment	Data													
							Segment		ic							
Time Period	Pi	4F	fŀ	IV	Flow (pc,		Capa (pc	pacity d/c pc/h) Ratio		Speed (mi/h)			nsity ni/ln)	LO		
1	0.9	94	0.9	19	50	5	66	654 0.08			51	1.8	3.2		A	
						S	egment	2: Mer	ge							
Time Period	Pi	4F	fŀ	IV	Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)			Density (pc/mi/ln)		
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp		
1	0.94	0.94	0.919	0.923	1433	928	6750	4000	0.21	0.23	51.8	51.3	9.2	10.5	В	
							Segmen	t 3: Bas	ic							
Time Period	Pi	4F	fŀ	łV	Flow (pc)			Capacity (pc/h)			Speed (mi/h)			nsity ni/ln)	LO	
1	0.9	94	0.9)23	143		66		0.	21	51	1.8	_	.2	А	
Facilit	y Tim	e Peri	iod R	esults												
Т		eed, n			Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mii	1	LOS		
1	51.8 6.6							6.0	-		1.20			A		
Facility	v Ove	rall R	esulte													
Space M					51.8			Density v	eh/mi/l	n			6.0			
Average					1.20		Density, veh/mi/ln Density, pc/mi/ln						6.6			
		2,							,,							
Messa					T _D				.,, .	0.5	, . ,,	(105:	, -			
INFORM	aiion 1					or segments	nt 2 in time sults.	period 1 is	s within	0.5 pc/	mı/ln o	t LOS b	oundary. E	se cautious	when	

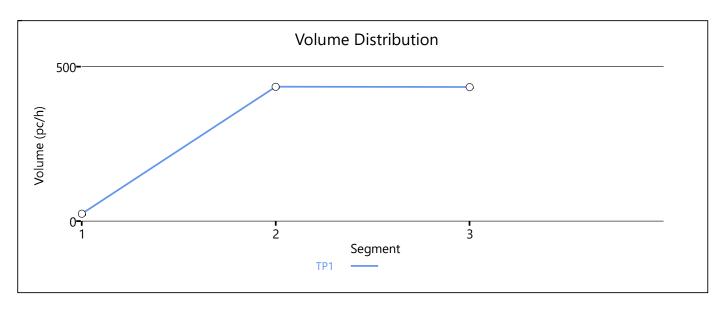
Comments

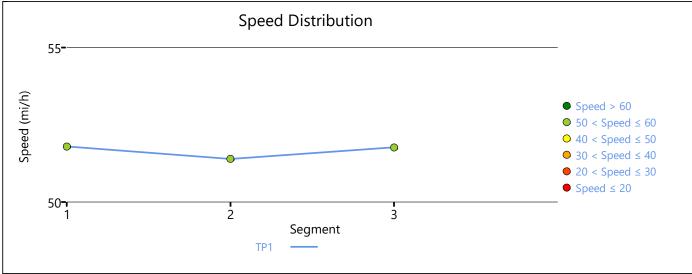


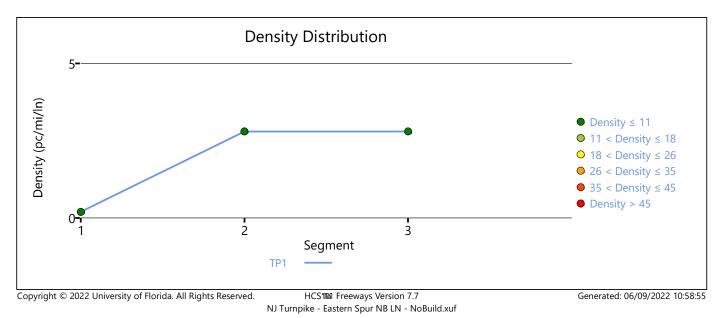




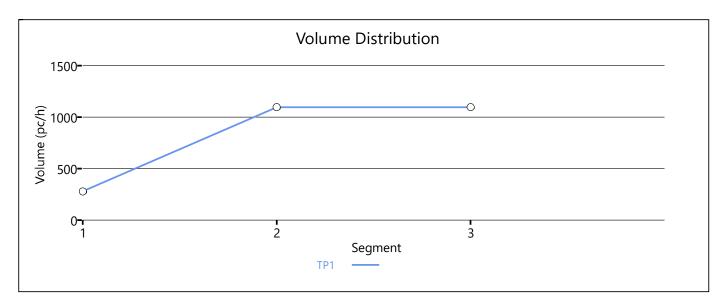
					НС	S7 Fre	eeway F	acilitie	es Re	eport					
Projec	t Info	rmat	ion												
Analyst					CJ			Date					4/21/202	2	
Agency					WSP			Analysis \	'ear				No Build		
Jurisdicti	ion							Time Peri	od Ana	lyzed			LN		
Project [Descripti	on			CBD										
Facilit	y Glol	oal In	put												
Jam Den	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/ı	mi/ln		45.0		
Queue D	Discharg	e Capac	ity Dro	э, %	7			Total Seg	ments				3		
Total Tim	ne Perio	ds			1			Time Peri	od Dura	ation, m	iin		15		
Facility L	ength, r	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: Bas	ic						
Time Period	PI	HF	f⊦	IV	Flow (pc,		Capa (pc			/c itio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.7	23	24	4	66	54	0.	.00	51	1.8		0.2	А
						S	egment	2: Mer	ge						
Time Period	PI	HF	fŀ	IV	Flow (pc,		Capa (pc			/c itio		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	0.723	0.888	435	411	6750	4000	0.06	0.10	51.4	51.3	2.8	4.5	Α
						:	Segment	t 3: Basi	ic						
Time Period	PI	НF	fŀ	IV	Flow (pc)		Capa (pc			/c itio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	80	43	4	66	54	0.	.07	51	1.8		2.8	Α
Facilit	y Tim	e Per	iod R	esults	5										
т	Sį	peed, n	ni/h	Т	Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mir	1	LOS	
1		51.7			1.7			1.4			1.20)		А	
Facilit	y Ove	rall R	esults	,											
Space M	lean Spe	ed, mi/	'h		51.7			Density, v	eh/mi/	ln			1.4		
Average	Travel T	ime, mi	n		1.20			Density, p	c/mi/lr	1			1.7		
Messa	iges														
Comm															
Comir	ients														

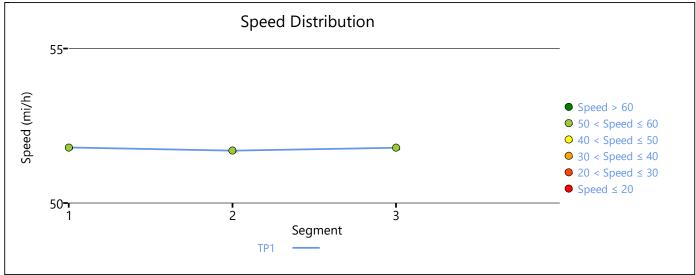


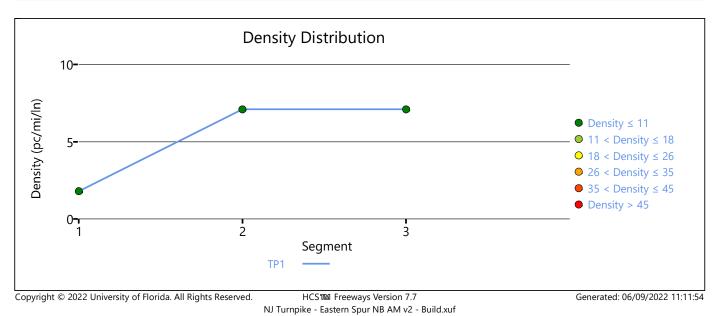




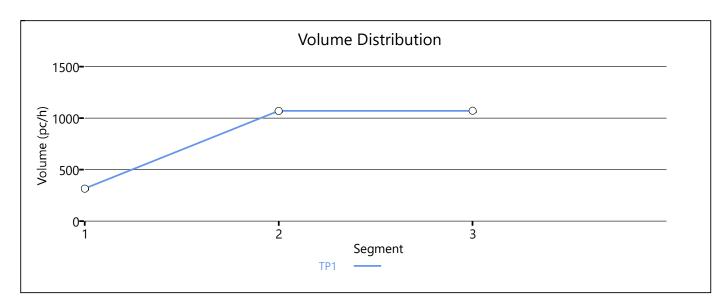
					НС	S7 Fre	eeway F	acilitie	es Re	eport						
Projec	t Info	rmat	ion													
Analyst					CJ			Date					4/21/20)22		
Agency					WSP			Analysis Y	'ear				NEPA 5			
Jurisdicti	on							Time Peri	od Ana	lyzed			AM			
Project D	escripti	on			CBD											
Facility	y Glok	al In	put													
Jam Den	sity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/ı	mi/ln		45.0			
Queue D	ischarge	Capac	ity Dro	э, %	7			Total Segi	ments				3			
Total Tim	ne Period	ls			1			Time Peri	od Dura	ation, m	nin		15			
Facility Le	ength, n	ni			1.07											
Facility	y Segi	nent	Data													
No.		Coded			Analyzed			Name			L	.ength	, ft	Π	Lane	es .
1		Basic			Basic							2500			3	
2		Merge			Merge			-				663			3	
3		Basic			Basic							2500			3	
Facility	y Segi	nent	Data													
	Segment 1: Basic															
Time Period	Pi	łF	fŀ	IV	Flow (pc,		Capa (pc			/c itio		eed i/h)		Dens c/m	ity i/ln)	LOS
1	0.9	94	0.7	'89	28	0	66	54	0.	.04	51	1.8		1.8	3	Α
						S	egment	2: Mer	ge							
Time Period	Pi	łF	fŀ	IV	Flow (pc,		Capa (pc			/c itio		eed i/h)		Dens c/m	ity i/ln)	LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freew	ау	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	Α
						:	Segment	t 3: Basi	ic							
Time Period	PI	łF	fŀ	١٧	Flow (pc)		Capa (pc			/c itio		eed i/h)] (p	Dens c/m	ity i/ln)	LOS
1	0.9	94	3.0	38	109	98	66	54	0.	.17	51	1.8		7.1	I	Α
Facility	y Tim	e Peri	iod R	esults	;											
Т	Sp	eed, n	ni/h	Т	Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mii	n		LOS	
1		51.8			4.8			3.9			1.20)			Α	
Facility	y Ove	rall R	esult	5												
Space Mo	ean Spe	ed, mi/	h		51.8			Density, v	eh/mi/	ln			3.9			
Average	Travel T	me, mi	n		1.20			Density, p	c/mi/lr	1			4.8			
Messa	ges															
Comm	ents															
Commi	ieii(3															

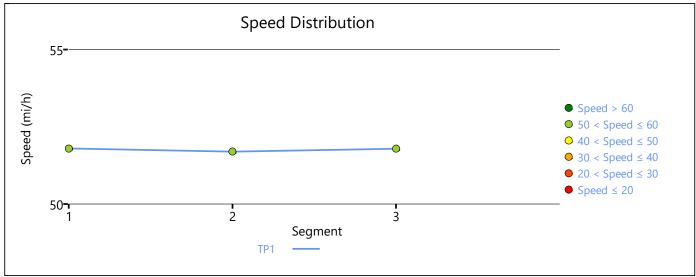


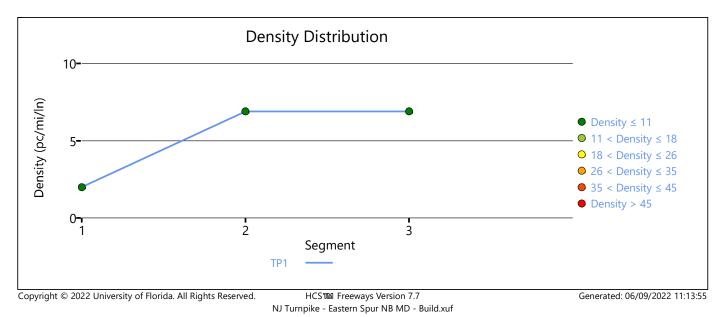




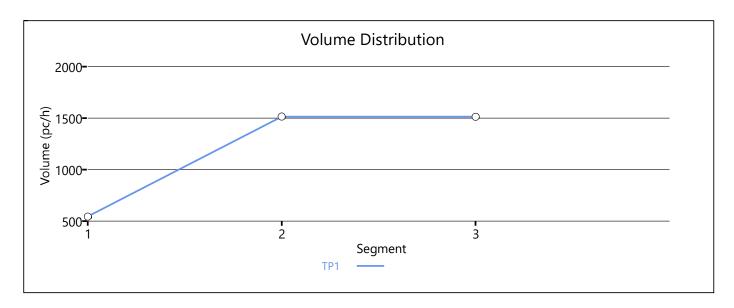
					НС	S7 Fre	eeway F	acilitie	es Re	eport					
Project	t Info	rmat	ion												
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Y	'ear				NEPA 5		
Jurisdictio	on							Time Peri	od Anal	lyzed			MD		
Project D	escripti	on			CBD										
Facility	/ Glob	oal In	put												
Jam Dens	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue Di	ischarge	Capac	ity Dro	р, %	7			Total Segi	ments				3		
Total Time	e Period	ds			1			Time Peri	od Dura	ation, m	in		15		
Facility Le	ength, n	ni			1.07										
Facility	/ Segi	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	
Facility	/ Segi	ment	Data												
							Segment	t 1: Basi	ic						
Time Period	Pł	4F	fŀ	łV	Flow (pc,		Capa (pc			/c itio		eed i/h)		nsity ni/ln)	LOS
1	0.9	94	0.7	'95	31	7	66	54	0.	.05	51	1.8	2	1.0	А
						S	egment	2: Mer	ge						
Time Period	Pi	4F	fŀ	łV	Flow (pc,		Capa (pc	city /h)		/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	0.795	0.832	1071	754	6750	4000	0.16	0.19	51.7	51.3	6.9	8.3	А
						9	Segment	t 3: Basi	ic						
Time Period	Pł	4F	fŀ	łV	Flow (pc)		Capa (pc,			/c itio		eed i/h)		nsity mi/ln)	LOS
1	0.9	94	9.0	321	107	72	66	54	0.	.16	51	1.8	(5.9	А
Facility	/ Time	e Peri	iod R	esults	5										
т	Sp	eed, n	ni/h	Т	Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, min	·	LOS	
1		51.8			4.7			3.9			1.20)		А	
Facility	/ Ove	rall R	esults	5											
Space Me	ean Spe	ed, mi/	h		51.8			Density, v	eh/mi/l	ln			3.9		
Average Travel Time, min 1.20 Density, pc/mi/ln 4.7													4.7		
Average	iiavei ii														
Average T															

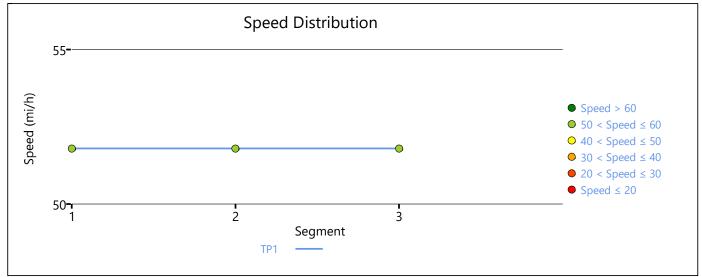


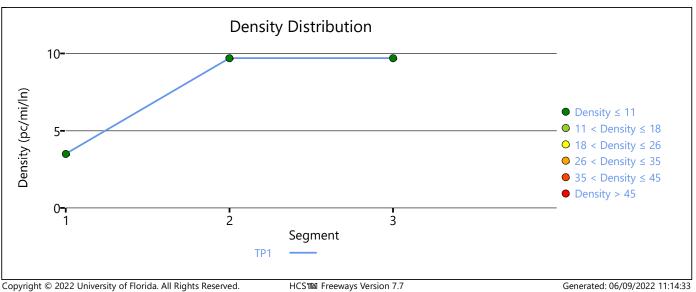




					НС	S7 Fre	eeway F	acilitie	es Re	eport					
Projec	t Info	rmat	ion												
Analyst					CJ			Date					4/21/202	22	
Agency					WSP			Analysis \	⁄ear				NEPA 5		
Jurisdicti	ion							Time Peri	od Ana	lyzed			PM		
Project [Descripti	on			CBD										
Facilit	y Glol	oal In	put												
Jam Den	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/ı	mi/ln		45.0		
Queue D	Discharg	e Capac	ity Dro	р, %	7			Total Seg	ments				3		
Total Tin	ne Perio	ds			1			Time Peri	od Dura	ation, m	iin		15		
Facility L	ength, r	ni			1.07										
Facilit	y 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	
Facilit	y Seg	ment	Data												
						9	Segment	t 1: Bas	ic						
Time Period	PI	4F	fŀ	łV	Flow (pc,		Capa (pc			/c itio		eed i/h)		ensity /mi/ln)	LOS
1	0.	94	0.9	17	54	5	66	54	0.	.08	51	1.8		3.5	А
						S	egment	2: Mer	ge						
Time Period	PI	-IF	fŀ	łV	Flow (pc,		Capa (pc			/c itio		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	0.917	0.933	1515	970	6750	4000	0.22	0.24	51.8	51.2	9.7	10.9	В
						:	Segment	t 3: Bas	ic						
Time Period	PI	-IF	fŀ	łV	Flow (pc)		Capa (pc			/c itio		eed i/h)		ensity /mi/ln)	LOS
1	0.	94	0.9	928	15	14	66	54	0.	.23	51	1.8		9.7	А
Facilit	y Tim	e Per	iod R	esults	5										
т	Sį	peed, n	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mii	1	LOS	
1		51.8			7.0			6.4			1.20	0		А	
Facilit	y Ove	rall R	esult	5											
Space Mean Speed, mi/h 51.8 Density, veh/mi/ln												6.4			
Average	Travel T	ime, mi	in		1.20			Density, p	c/mi/lr	1			7.0		
Messa	iges														
Comm	ients														

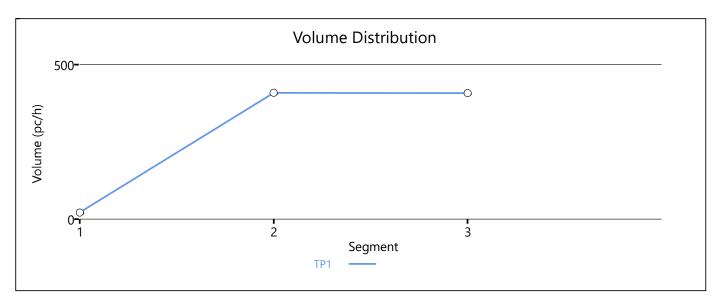


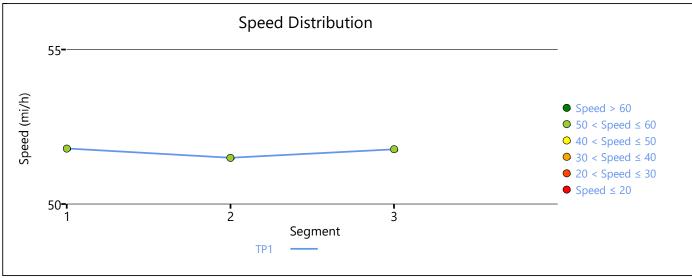


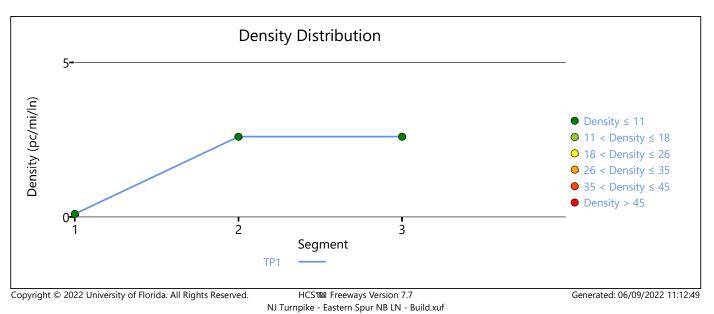


NJ Turnpike - Eastern Spur NB PM - Build.xuf

					НС	S7 Fre	eeway F	acilitie	es Re	eport					
Projec	t Info	rmat	ion												
Analyst					CJ			Date					4/21/202	22	
Agency					WSP			Analysis \	'ear				NEPA 5		
Jurisdicti	on							Time Peri	od Ana	lyzed			LN		
Project D	escripti	on			CBD										
Facility	y Glok	al In	put												
Jam Den	sity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue D	ischarge	Capac	ity Dro	э, %	7			Total Segi	ments				3		
Total Tim	ne Period	ls			1			Time Peri	od Dura	ation, m	nin		15		
Facility Le	ength, n	ni			1.07										
Facility	y Segi	nent	Data												
No.		Coded			Analyzed			Name			L	ength,	, ft	Land	es
1		Basic			Basic							2500		3	
2		Merge			Merge			-				663		3	
3		Basic			Basic							2500		3	
Facility	y Segi	nent	Data												
	Segment 1: Basic														
Time Period	Pi	łF	fŀ	IV	Flow (pc)		Capa (pc			/c itio	Spe (mi	eed i/h)		ensity /mi/ln)	LOS
1	0.9	94	0.7	'33	22	2	66	54	0.	.00	51	1.8		0.1	А
						S	egment	2: Mer	ge						
Time Period	Pi	łF	fŀ	IV	Flow (pc,		Capa (pc			/c itio		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	0.733	0.904	409	387	6750	4000	0.06	0.10	51.5	51.4	2.6	4.3	А
							Segment	t 3: Bas	ic						
Time Period	PI	łF	fŀ	١٧	Flow (pc)		Capa (pc			/c itio		eed i/h)	D (pc	ensity /mi/ln)	LOS
1	0.9	94	3.0	96	40	18	66	54	0.	.06	51	1.8		2.6	А
Facility	y Tim	e Peri	iod R	esults	5										
т	Sp	eed, n	ni/h	Т	Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	avel Tin	ne, mir	n	LOS	
1		51.7			1.5			1.3			1.20)		А	
Facility	y Ove	rall R	esults	5											
Space M	ean Spe	ed, mi/	h		51.7			Density, v	eh/mi/	ln			1.3		
Average	Travel T	me, mi	n		1.20			Density, p	c/mi/lr	1			1.5		
Messa	ges														
Comm	ents														
Comin	ieiit5														

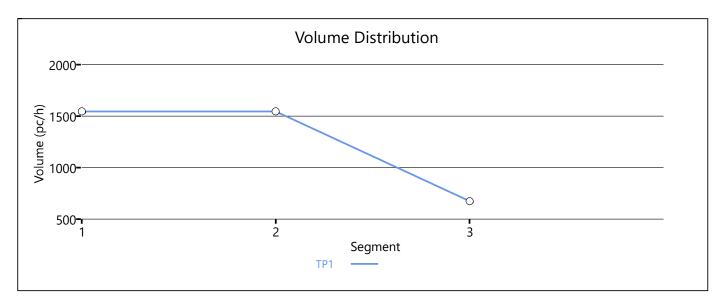


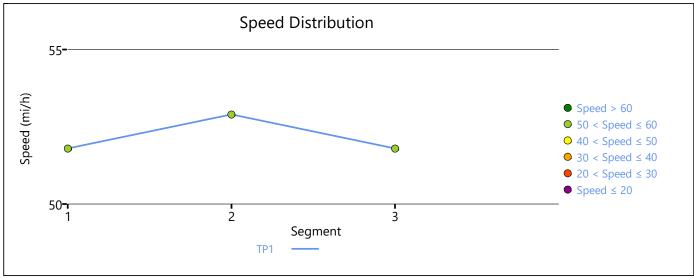


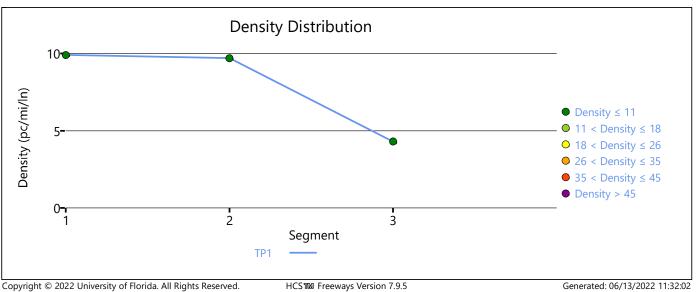


					НС	S7 Fre	eeway l	- acilitie	es Re	port					
Proje	ct Info	rmat	ion												
Analyst					CJ			Date					4/21/202	2	
Agency					WSP			Analysis Y	'ear				NEPA 5		
Jurisdict	tion							Time Ana	lyzed				AM		
Project	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	ty Glol	oal In	put												
Jam Der	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue I	Discharge	e Capac	ity Dro	э, %	7			Total Segi	ments				3		
Total Analysis Periods 1 Analysis Period Duration, min 15															
Facility Length, mi 1.29															
Facilit	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	ength.	, ft	Land	es
1		Basic			Basic							2500		3	
2		Diverge	!		Diverge			-				1800		3	
3 Basic Basic 2500 3															
Facilit	ty Seg	ment	Data												
							Segmen	t 1: Basi	ic						
AP	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	8.0	56	154	46	66	54	0.	23	51	1.8		9.9	Α
						Se	egment	2: Diver	ge						
AP	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c itio		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	0.856	0.836	1546	873	6750	4200	0.23	0.21	52.9	50.9	9.7	0.9	Α
						:	Segmen	t 3: Basi	ic						
AP	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	80	67	5	66	54	0.	10	51	1.8		4.3	А
Facilit	ty Ana	lysis	Resul	ts											
AP	Sį	eed, m	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mi	n	LOS	
1		52.2			7.8			6.7			1.50	0		А	
Facilit	ty Ove	rall R	esults	5											
Space N	Лean Spe	ed, mi/	h		52.2			Density, v	eh/mi/l	n			6.7		
Average	e Travel T	ime, mi	n		1.50			Density, p	c/mi/ln	1			7.8		
Messa	ages														
WARNII	NG 1				Ramp se	gment ler	gth is long	er than 150	00 feet	for segr	nent 2.				

Comments





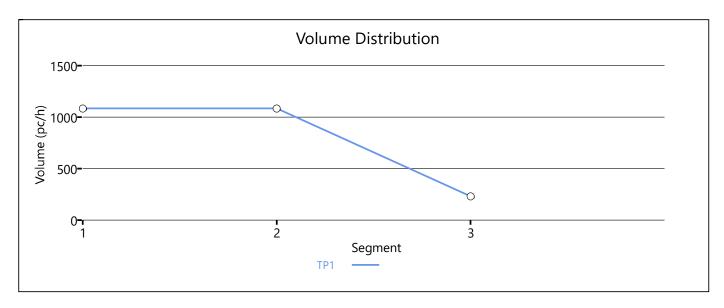


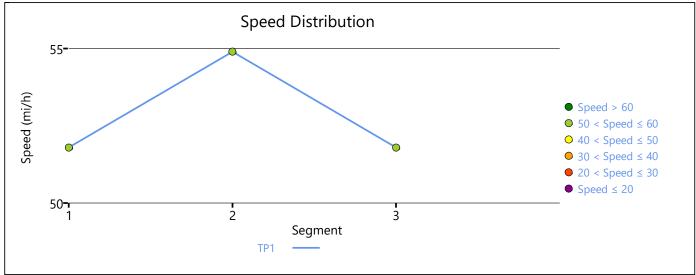
NJ Turnpike - Eastern Spur SB AM - Build.xuf

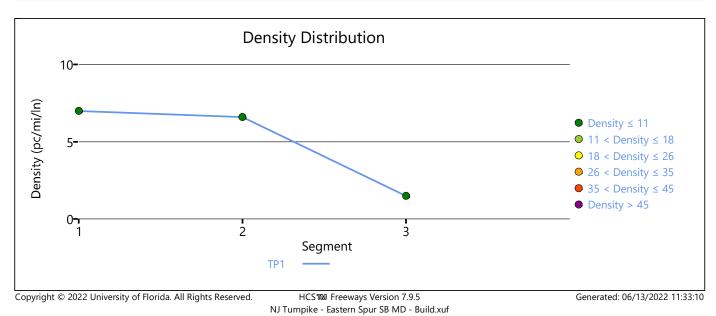
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					НС	S7 Fre	eeway l	- acilitie	es Re	port					
Proje	ct Info	rmat	ion												
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Y	'ear				NEPA 5		
Jurisdict	tion							Time Ana	lyzed				MD		
Project l	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	ty Glol	oal In	put												
Jam Der	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	mi/ln		45.0		
Queue [Discharge	e Capac	ity Dro	р, %	7			Total Segi	ments				3		
Total Analysis Periods 1 Analysis Period Duration, min 15															
Facility Length, mi 1.29															
Facilit	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	ength.	, ft	Lane	es
1		Basic			Basic							2500		3	
2	ı	Diverge			Basic			-				1800		3	
3 Basic Basic 2500 3															
Facilit	ty Segi	ment	Data												
							Segmen	t 1: Basi	ic						
AP	PI	4F	fŀ	łV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity ni/ln)	LOS
1	0.	94	3.0	331	108	34	66	54	0.	16	51	1.8	-	' .0	Α
	•					Se	egment	2: Diver	ge						
АР	PI	4F	fl	łV	Flow (pc)		Capa (pc			/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						
АР	PI	4F	fŀ	łV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.9	921	23	2	66	54	0.	03	51	1.8	,	.5	А
Facilit	ty Ana	lysis	Resul	ts											
AP	Sį	eed, m	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mii	1	LOS	
1		52.9			4.9			4.1			1.50)		А	
Facilit	ty 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	c/mi/ln				4.9		
Messa	ages														
WARNIN	NG 1				Ramp se	gment len	gth is long	er than 150	00 feet	for segr	ment 2.				

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

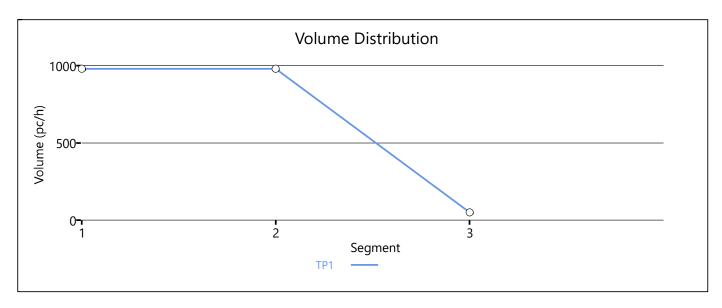


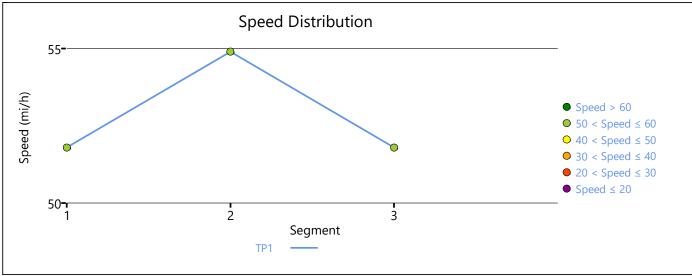


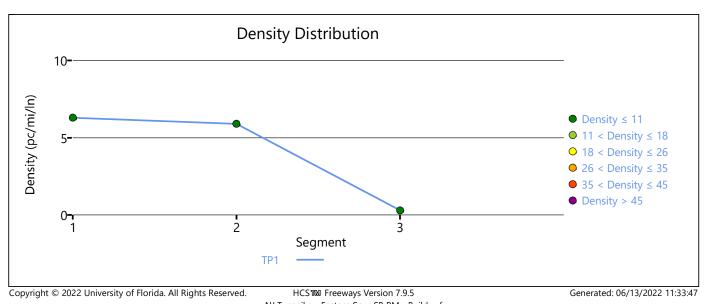


					НС	S7 Fre	eeway l	- acilitie	es Re	port					
Proje	ct Info	rmat	ion												
Analyst					CJ			Date					4/21/2022		
Agency					WSP			Analysis Y	'ear				NEPA 5		
Jurisdict	tion							Time Ana	lyzed				PM		
Project l	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	ty Glol	oal In	put												
Jam Der	nsity, pc/	mi/ln			190.0			Density at	t Capac	ity, pc/r	ni/ln		45.0		
Queue [Discharge	e Capac	ity Dro	э, %	7			Total Segi	ments				3		
Total Analysis Periods 1 Analysis Period Duration, min 15															
Facility Length, mi 1.29															
Facilit	ty Seg	ment	Data												
No.		Coded			Analyzed			Name			L	ength.	, ft	Lane	es
1		Basic			Basic							2500		3	
2	ı	Diverge			Basic			-				1800		3	
3 Basic Basic 2500 3															
Facilit	ty Segi	ment	Data												
							Segmen	t 1: Basi	ic						
AP	PI	4F	fŀ	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	1.8	6	5.3	А
						Se	egment	2: Diver	ge						
АР	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c itio		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	0.919	0.926	980	928	6750	4200	0.15	0.22	54.9	55.0	5.9	5.9	А
							Segmen	t 3: Basi	ic						
АР	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS
1	0.	94	0.8	808	5	1	66	54	0.	01	51	1.8	C	1.3	А
Facilit	ty Ana	lysis	Resul	ts											
AP	Sį	eed, n	ni/h		Density, po	c/mi/ln	Densi	ty, veh/m	i/ln	Tra	vel Tin	ne, mii	1	LOS	
1 53.0 4.0 3.6 1.50 A															
Facilit	ty Ove	rall R	esults	5											
Space M	Леап Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			3.6		
Average	Travel T	ime, mi	n		1.50			Density, p	c/mi/ln				4.0		
Messa	ages														
WARNIN	NG 1				Ramp se	gment ler	gth is long	er than 150	00 feet	for segr	ment 2.				

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







NJ Turnpike - Eastern Spur SB PM - Build.xuf

Appendix 4B.6-169

					НС	S7 Fre	eeway l	Facilitie	es Re	port					
Proje	ct Info	rmat	ion												
Analyst					CJ			Date					4/21/2022	<u> </u>	
Agency					WSP			Analysis Y	'ear				NEPA 5		
Jurisdict	tion							Time Ana	lyzed				LN		
Project l	Descripti	on			CBD			Units					U.S. Custo	mary	
Facilit	ty Glob	oal In	put												
Jam Der	nsity, pc/	mi/ln			190.0			Density a	t Capac	ity, pc/r	ni/ln		45.0		
Queue [Discharge	e Capac	ity Dro	э, %	7			Total Segi	ments				3		
Total Analysis Periods 1 Analysis Period Duration, min 15															
Facility Length, mi 1.29															
Facilit	ty Segi	ment	Data												
No.		Coded			Analyzed			Name			L	ength.	, ft	Land	es
1		Basic			Basic							2500		3	
2	ı	Diverge			Basic			-				1800		3	
3 Basic Basic 2500 3															
Facilit	ty Segi	ment	Data												
							Segmen	t 1: Basi	ic						
AP	Pi	4F	fŀ	IV	Flow (pc)		Capa (pc			/c itio		eed i/h)		nsity mi/ln)	LOS
1	0.9	94	8.0	99	54	2	66	54	0.	08	5	1.8	3	3.5	А
	•					Se	egment	2: Diver	ge						
АР	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c itio		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	0.899	0.906	542	523	6750	4200	0.08	0.12	54.9	55.0	3.3	3.3	А
							Segmen	t 3: Basi	ic						
АР	PI	4F	fŀ	IV	Flow (pc)		Capa (pc			/c tio		eed i/h)		nsity mi/ln)	LOS
1	0.9	94	0.7	'06	20)	66	54	0.	00	51	1.8	().1	А
Facilit	ty Ana	lysis	Resul	ts											
AP	Sp	eed, n	ni/h		Density, po	c/mi/ln	Densi	ity, veh/m	i/ln	Tra	vel Tin	ne, mii	1	LOS	
1		53.0			2.2			2.0			1.50)		Α	
Facilit	ty Ove	rall R	esults	5											
Space M	lean Spe	ed, mi/	h		53.0			Density, v	eh/mi/l	n			2.0		
Average	Travel T	ime, mi	n		1.50			Density, p	c/mi/ln	1			2.2		
Messa	ages														
WARNIN	UC 1				Ramp se	gment len	gth is long	er than 150	00 feet	for segr	nent 2.				

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

