

CORSIM Calibration Methodology

CORSIM 6.3 (TSIS 6.3) was employed to provide microscopic simulation analysis of the interstate system. The study area for the CORSIM analysis spans from Military Highway through Rosemont Road and it also includes the Birdneck Road interchange. The analysis included the mainline freeway system specifically analyzing the merge, diverge, and weave areas at interchanges. The CORSIM analysis did not include the signalized intersections (they were analyzed separately using Synchro and SimTraffic).

CORSIM analysis was used to supplement the HCS 2010 analysis. The purpose of using CORSIM for analysis was to capture the cumulative impacts of congestion in both space and time. This capability overcomes the HCS 2010 limitation in which only static analysis is provided. Additionally, HCS 2010 does not consider the cumulative impacts of upstream and downstream traffic behavior. CORSIM analysis was applied to the AM and PM peak periods for the existing conditions and the design year conditions when significant congestion was expected to occur.

The AM system peak hour, 7:30-8:30 AM, happened to span the HOV restriction hours – 6:00-8:00 AM. CORSIM modeling of the AM peak hour did not include the shoulder lane, only conventional lanes were included in the existing and No Build analysis of the AM peak hour. This decision was made to reflect a conservative approach to the changing geometry in the AM peak hour.

Traffic volumes for each peak hour analysis were broken into 15-minute periods matching the distribution of traffic over the hour found in the traffic counts. Seeding was conducted for 20 minutes before the start of the recorded peak hour.

Initial steps used in building the two existing conditions base models (AM and PM) involved the use of a scaled map to accurately lay out links and nodes at critical locations throughout the network. Using available aerial mapping (VGIN), lane geometry and auxiliary lane lengths (acceleration lanes, deceleration lanes, weave lanes, etc.) were matched to existing conditions. Ramp origin and termini locations were recorded from their approximate connections with the freeways. Based largely on INRIX data during free flow conditions, free flow speeds for the freeway segments were set to 62 MPH, which happens to be the speed the VDOT TOATG manual states to use in the absence of available data (speed limit plus 7 MPH). Ramp speeds were set to 10 MPH over the posted advisory speed limits in following VDOT TOATG protocol. Calibration included the following: entry traffic volumes, heavy vehicle percentages, grade, vehicle entry headway (Erlang distribution), freeway free-flow speed, ramp free-flow speed, origin-destination data, warning sign location, and HOV data. Additional

calibration included verifying the simulation volumes were simulated within 10% of the input volumes (congestion can prevent this from occurring, especially in future-year analysis). Simulation results were compiled from ten runs (per the scope of work) of each scenario and averaged to obtain the results presented in the CORSIM analysis tables.

The proportion of vehicles using HOV lanes was coded to match VDOT HOV use data. Based on VDOT data, violators make up at least half of the HOV volume in the concurrent flow HOV lanes on I-264. HOV restrictions are in effect along westbound I-64 and westbound I-264 from 6:00-8:00 AM and along eastbound I-264 from 4:00-6:00 PM.

Origin/destination information was also used in the CORSIM models. Origin-Destination (O-D) information was used to prevent on-ramp traffic from immediately exiting at off-ramps in weave sections at all of the I-264 interchanges. The (O-D) Survey taken as a part of the IMR for I-64/I-264 provided information on the trip patterns on the I-264 eastbound C/D Road in the I-64 and Newtown Road interchanges (See **Figure 2.21**). Additionally, employing the O-D data constrains the ability to match the simulated volumes with the actual volumes.

For these two reasons, only the two most important origin-destination pairs were used. The movements originating at Ramp D-7 destined for the Newtown Road off-ramps were the movements defined with origin-destination pairs.

The final step in the CORSIM calibration process was replicating Inrix speed data to CORSIM speed data. INRIX data from the 7:30-8:30 AM and 4:30-5:30 PM peak hours were used to match the volumes the most common peak hour of the I-264 freeway counts. INRIX data analysis included the time periods October 7-9, 2014 (Tuesday-Thursday) and September 23-25, 2014 (Tuesday-Thursday).

Figures 1.1-1.8 display the results of the INRIX speed data compared to the CORSIM Speed data.

- Figure 1.1 – AM Peak I-264 EB Mainline
- Figure 1.2 – AM Peak I-264 EB CD Road
- Figure 1.3 – AM Peak I-264 WB Mainline
- Figure 1.4 – AM Peak I-264 WB CD Road
- Figure 1.5 – PM Peak I-264 EB Mainline
- Figure 1.6 – PM Peak I-264 EB CD Road
- Figure 1.7 – PM Peak I-264 WB Mainline
- Figure 1.8 – PM Peak I-264 WB CD Road

Several adjustments were applied to the initial existing conditions files to achieve better calibration. Most of the changes involved attempting to generate additional congestion.

The INRIX data is fairly coarse in its nature, the INRIX segments are approximately 0.5-1 miles in length. Typically the CORSIM segments are much shorter in length, typically 0.1-0.3 miles in length. This results in more fluctuation in speed in the CORSIM data when compared to the INRIX data. The CORSIM data matches the INRIX fairly well when considering the coarse versus fine nature of the two data sets.

Figure 1.1 – AM Peak Hour – I-264 EB Mainline

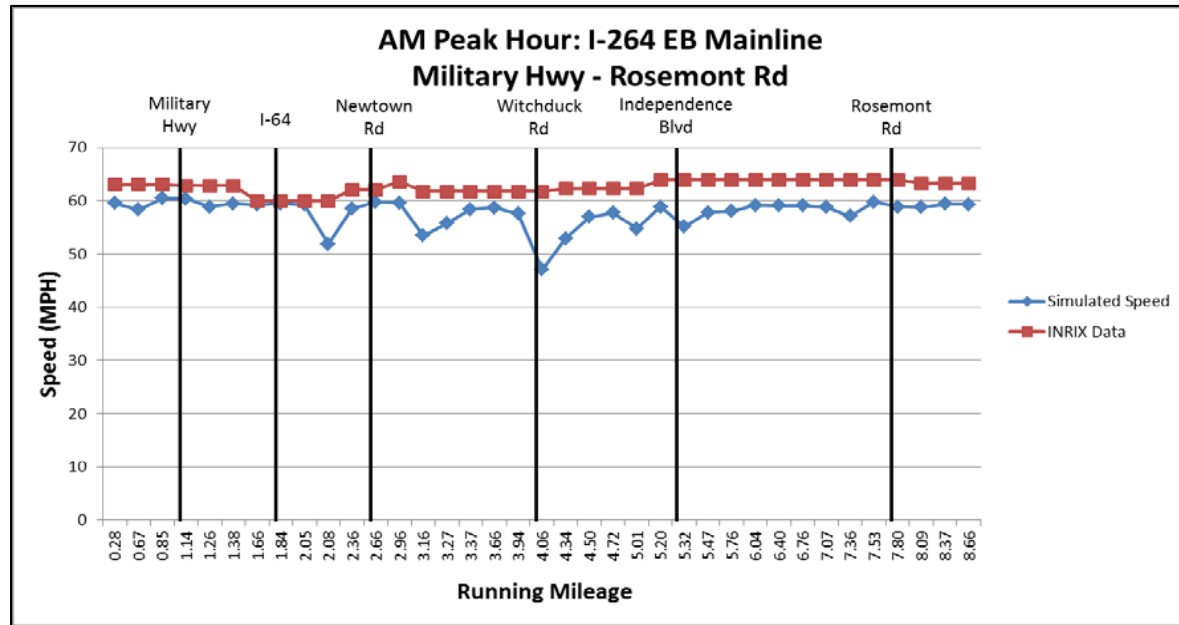


Figure 1.2 – AM Peak Hour – I-264 EB CD Road

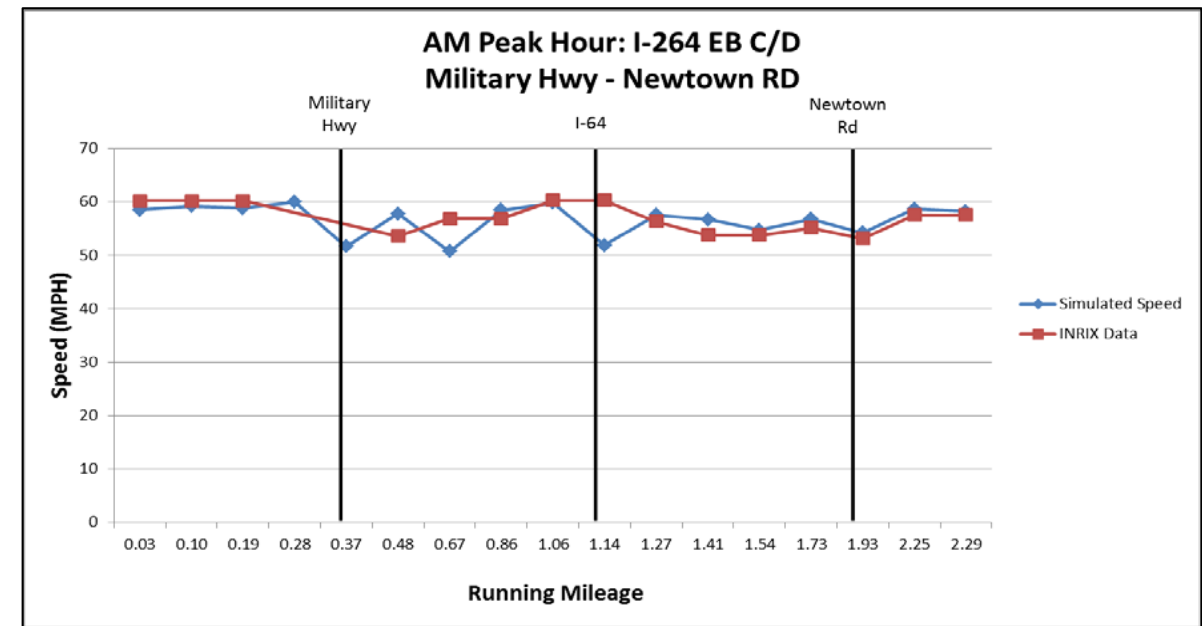


Figure 1.3 – AM Peak Hour – I-264 WB Mainline

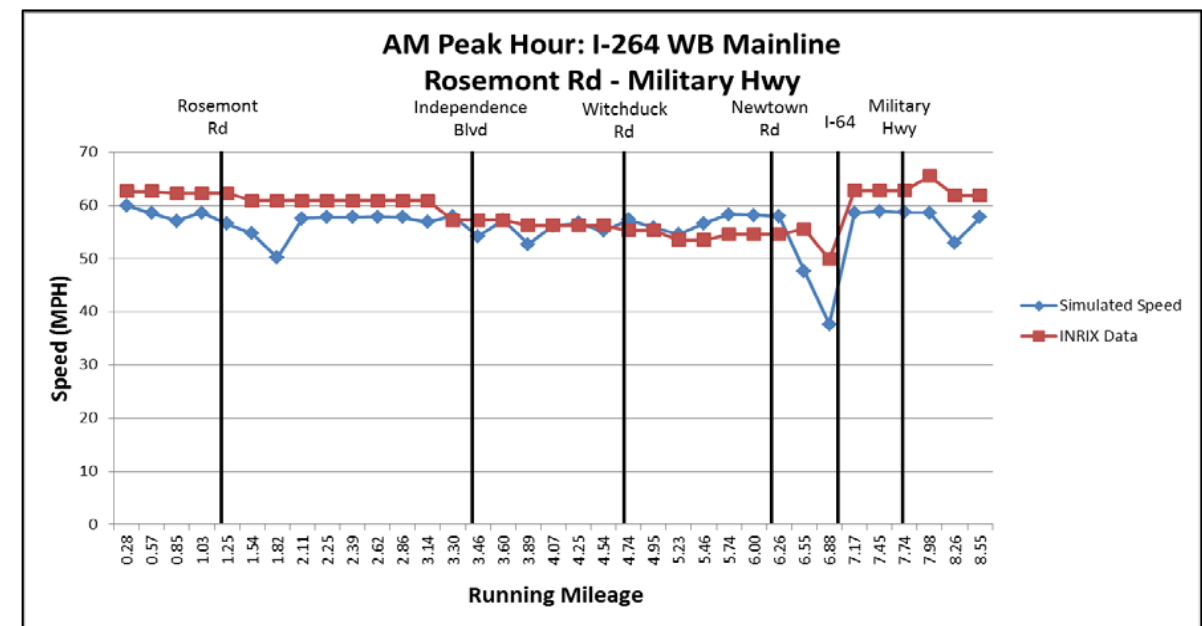


Figure 1.4 – AM Peak Hour – I-264 WB CD Road

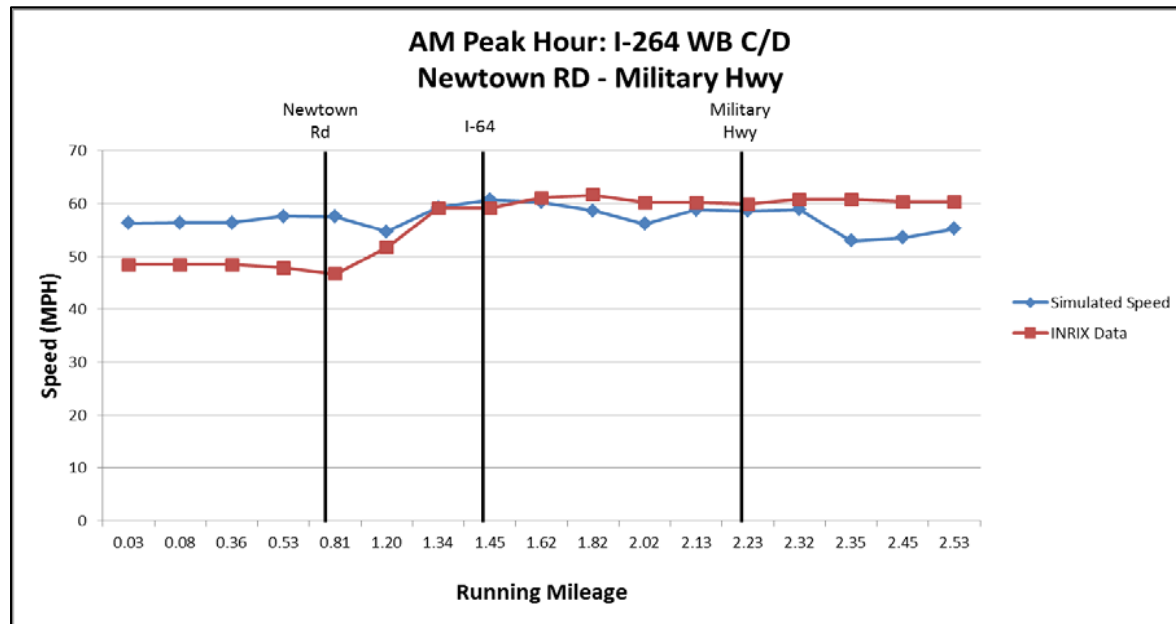


Figure 1.6 – PM Peak Hour – I-264 EB CD Road

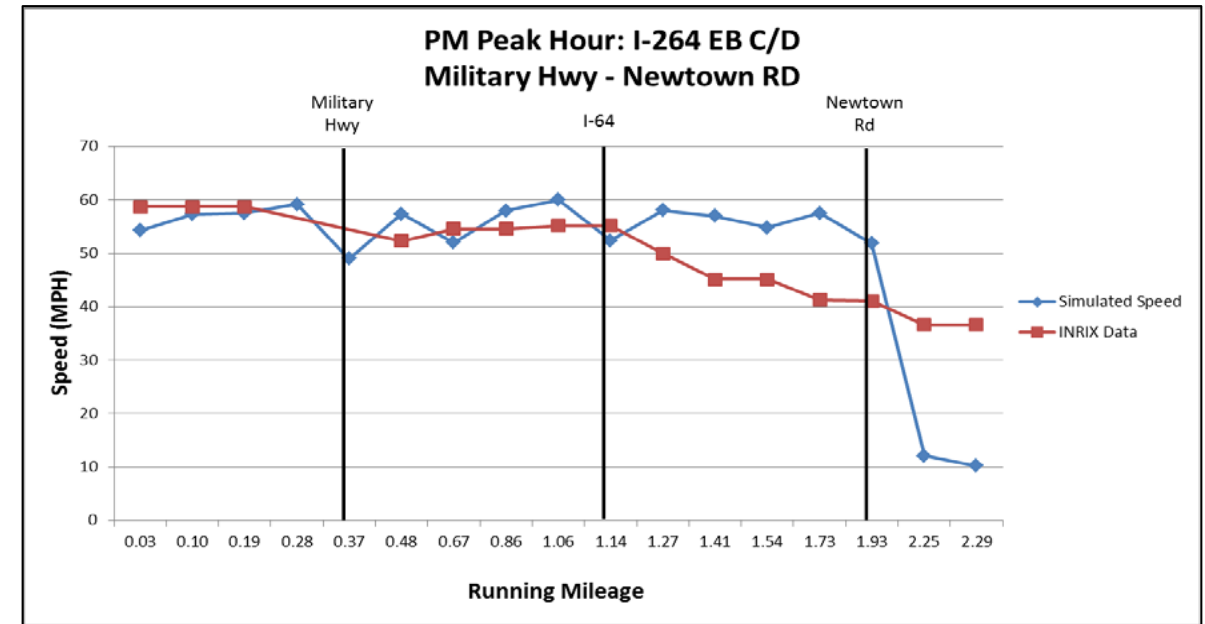


Figure 1.5 – PM Peak Hour – I-264 EB Mainline

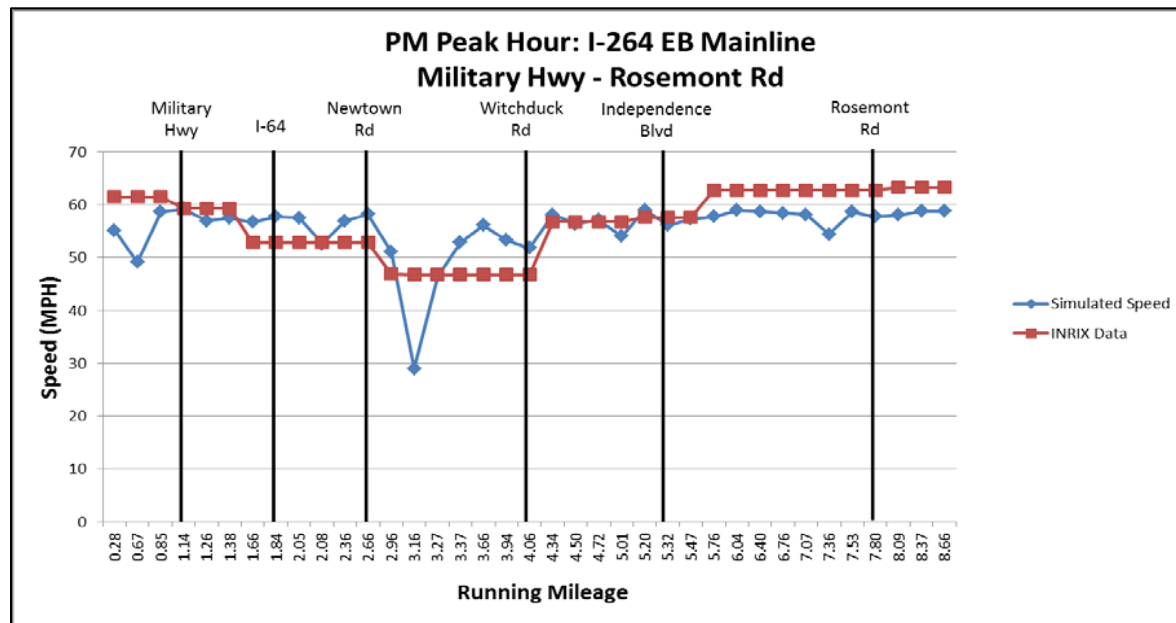


Figure 1.7 – PM Peak Hour – I-264 WB Mainline

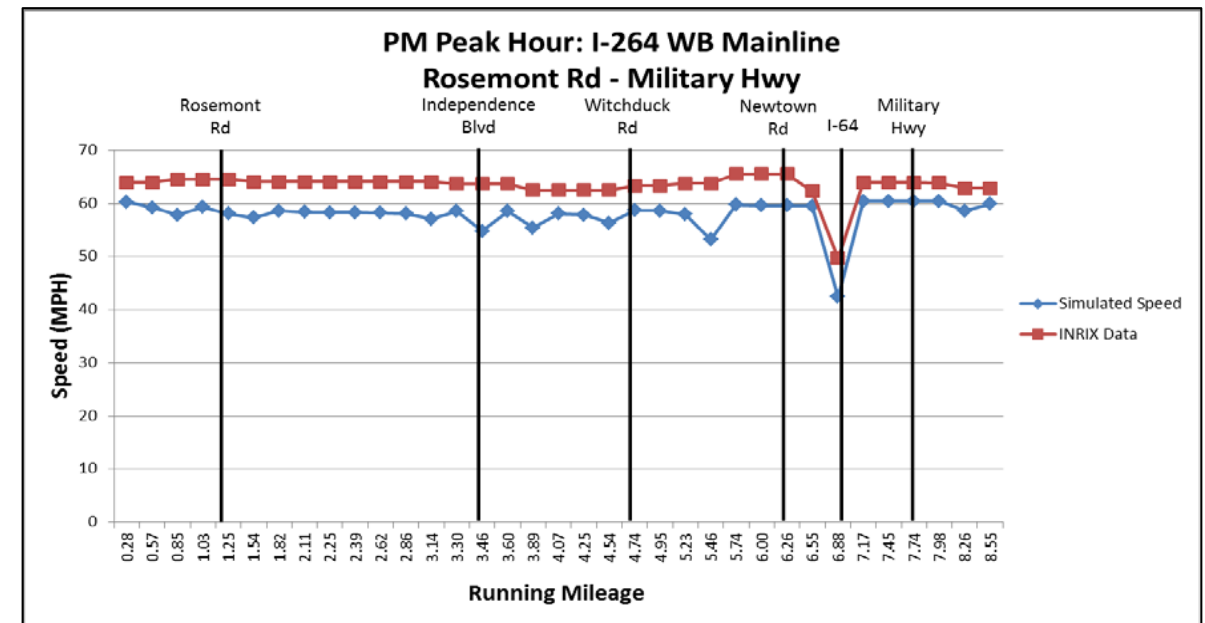
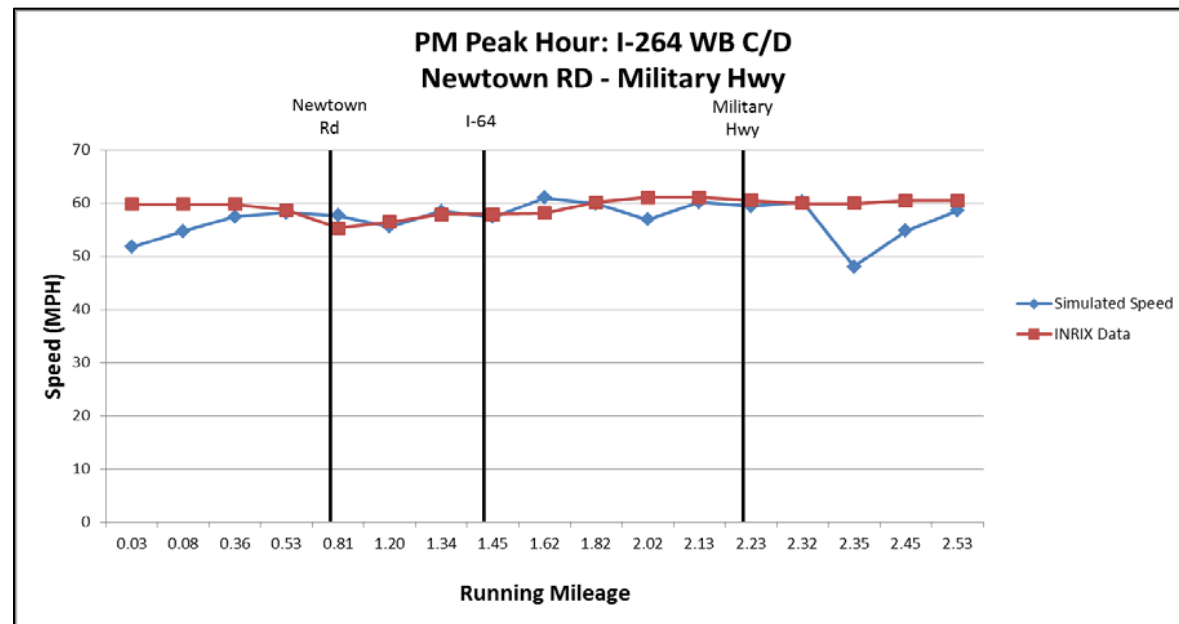
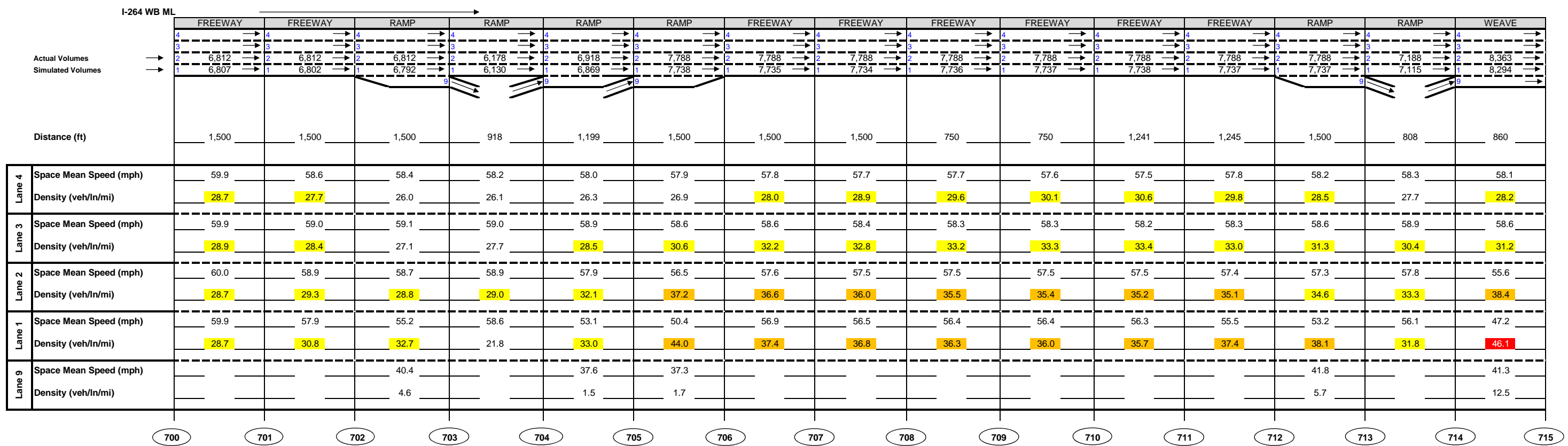
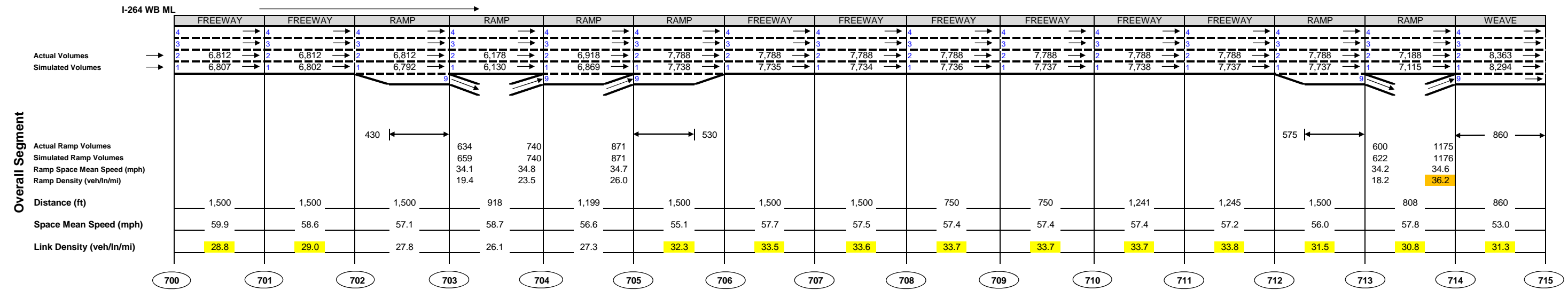


Figure 1.8 – PM Peak Hour – I-264 WB CD Road

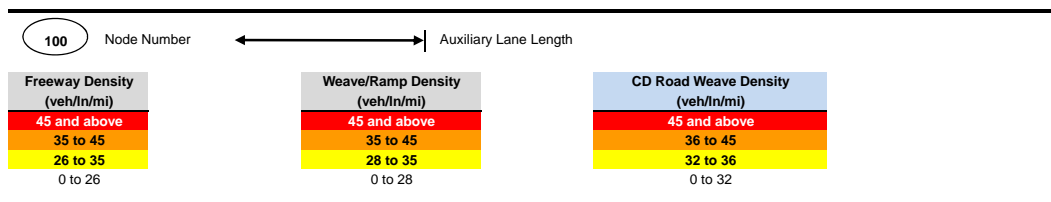


CORSIM was used to determine the density of the merge, diverge, weave, and mainline segments. CORSIM output was processed using VDOT’s *Traffic Operations and Safety Analysis Manual* (TOSAM) Excel-based Macro Version 1.0. This methodology produces density at the segment level which is the density across the entire cross-section. This methodology differs from the HCS methodology of analyzing merge and diverge locations because the HCS methodology focuses on the auxiliary lanes (acceleration and deceleration lanes) and the two adjacent through lanes. The CORSIM results typically produce lower densities than the HCS analysis because of the difference in methodologies. The TOASAM Excel macro produces graphical output displays of the volume, speed, and density results on a per segment basis and on a lane by lane basis (this information can be found in the Technical Appendix). The calculated densities were reported in the CORSIM analysis tables along with a corresponding level of service based on HCS 2010 thresholds for each particular freeway movement type.



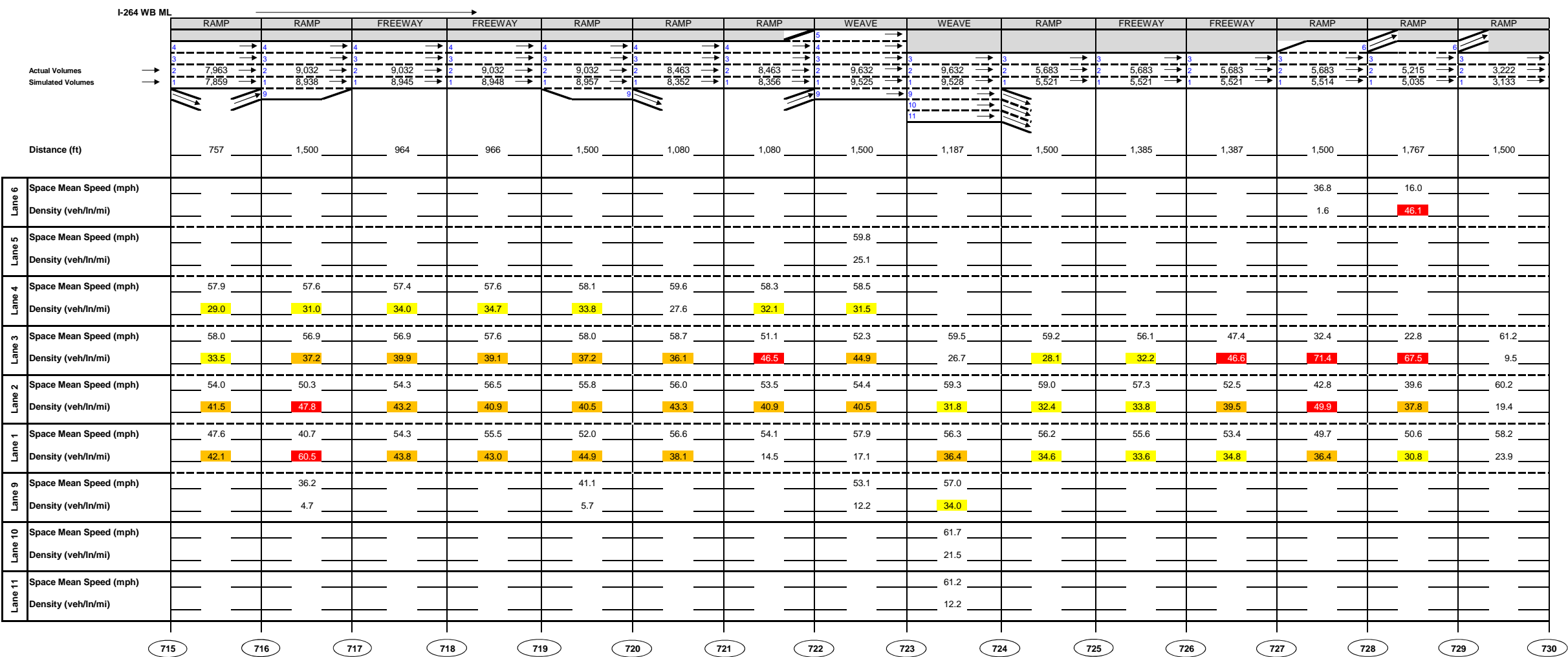
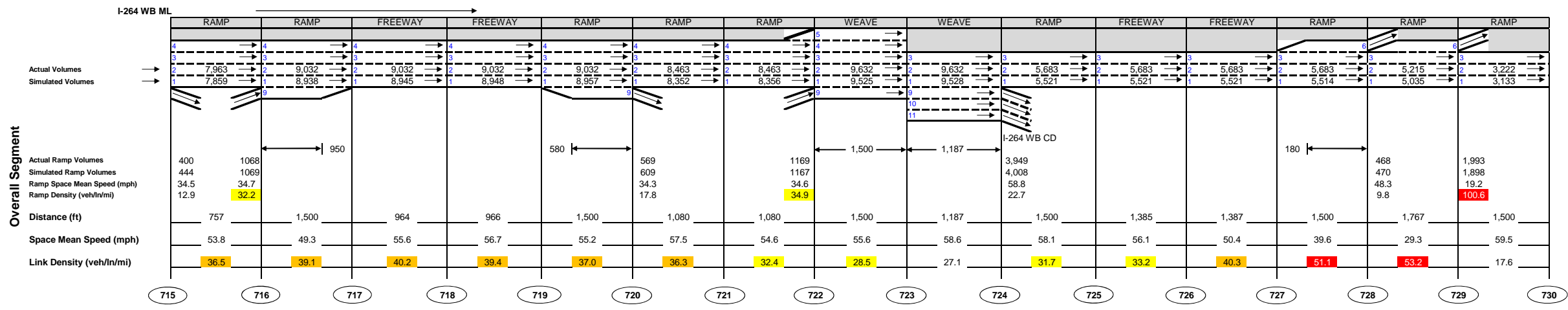
NOTE: numbers in chart are provided for illustrative purposes only

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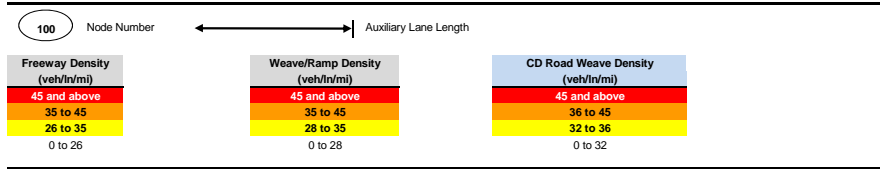
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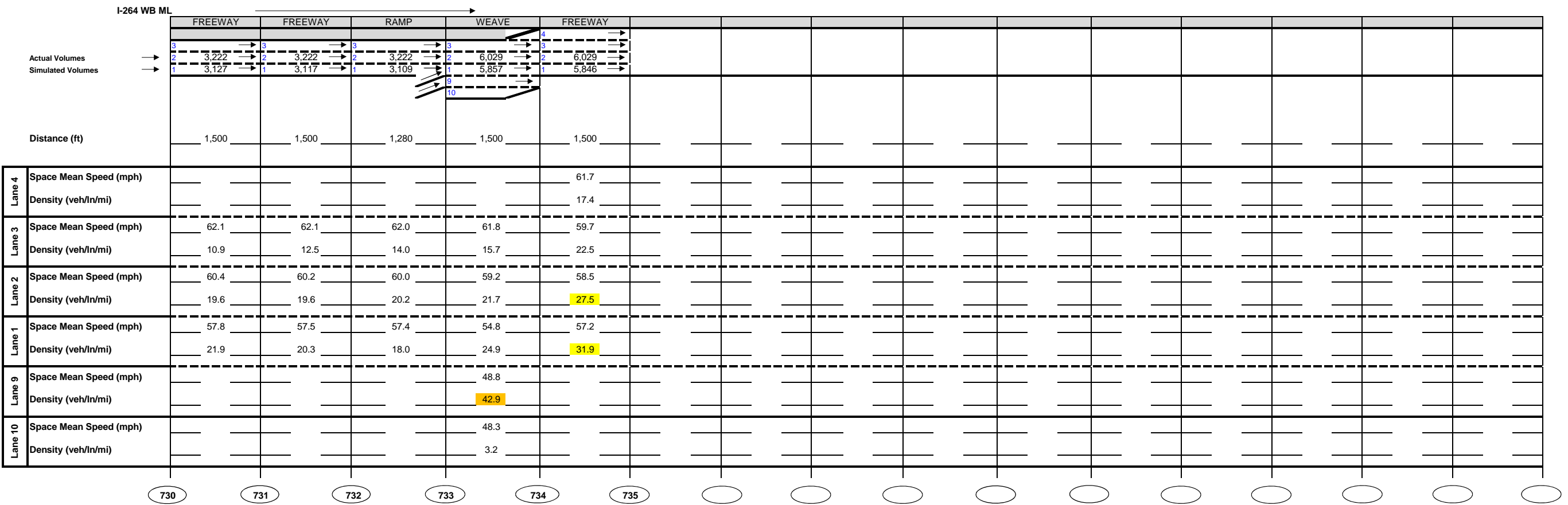
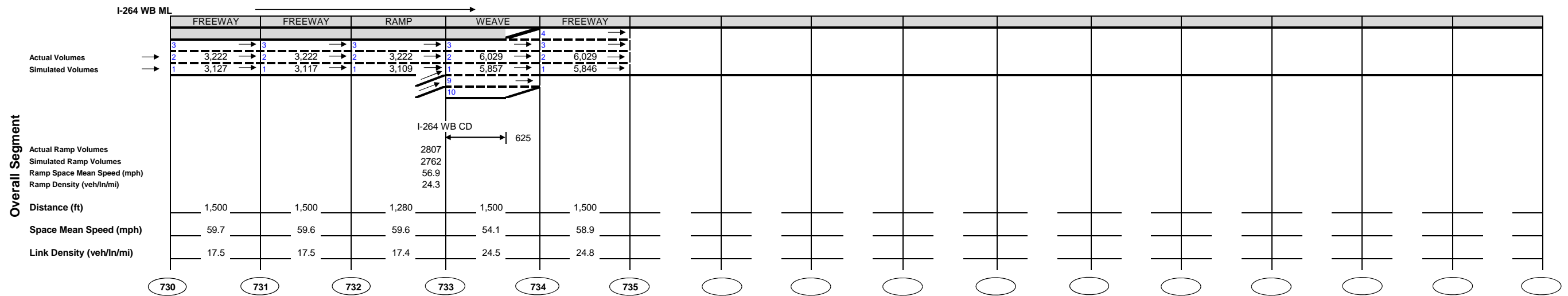
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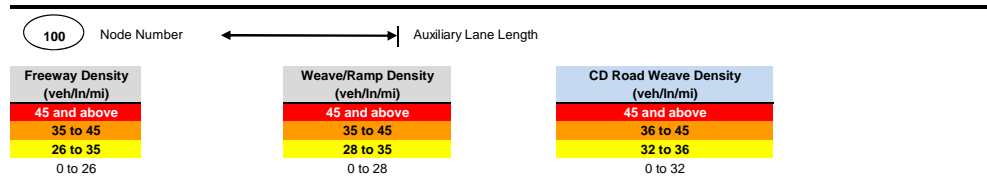
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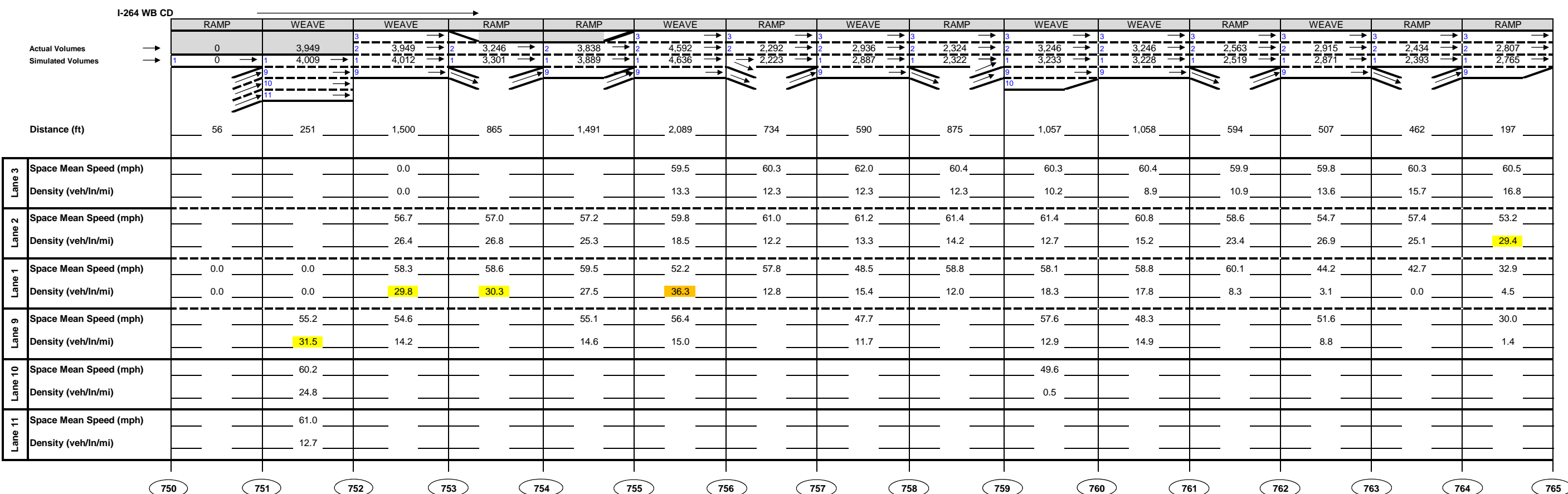
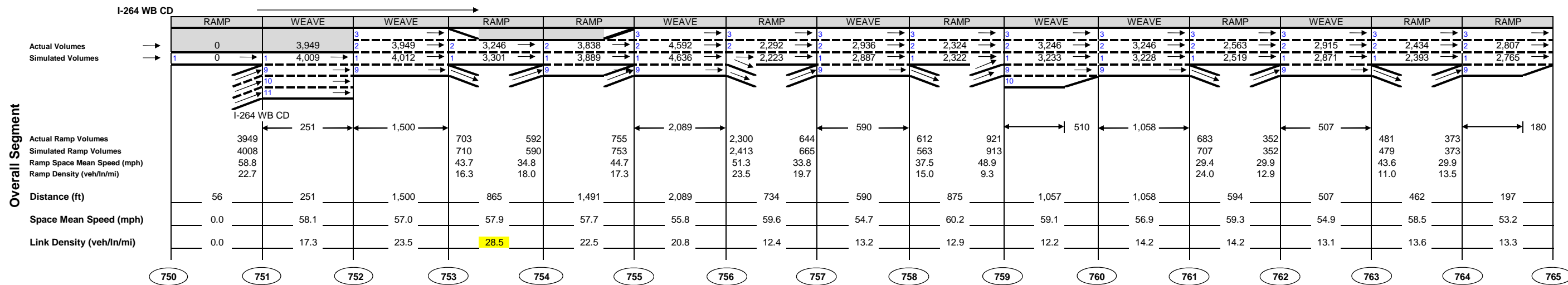
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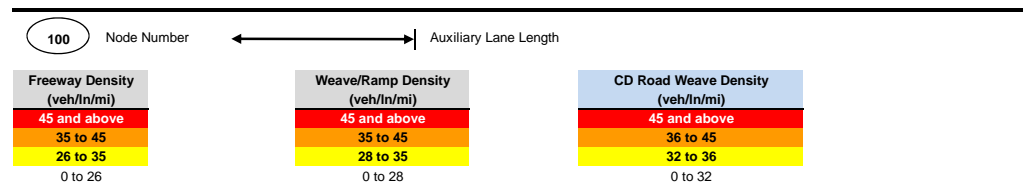
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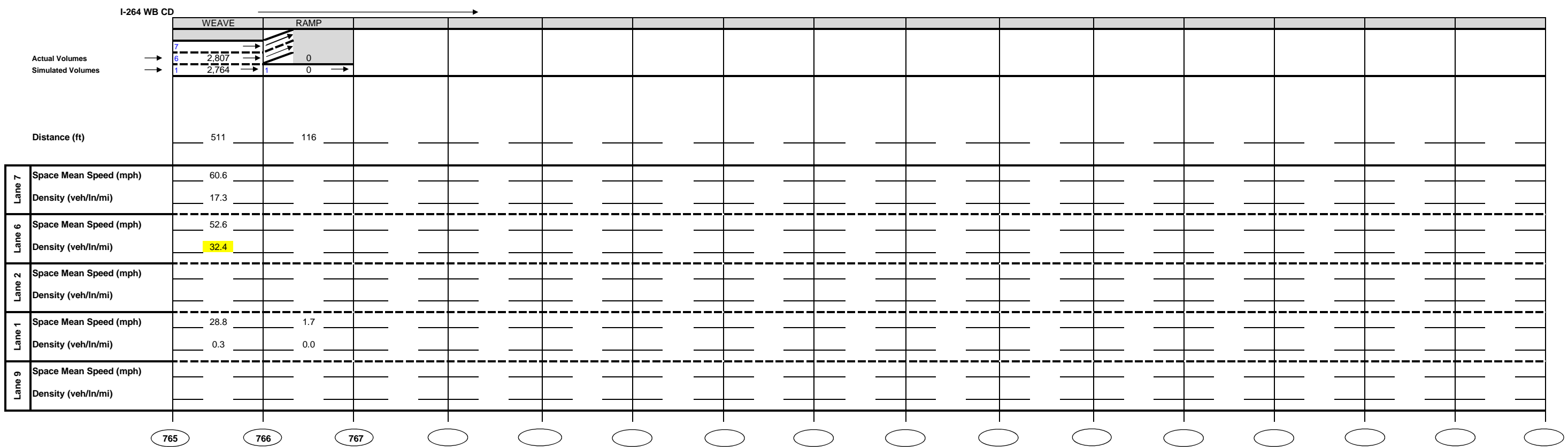
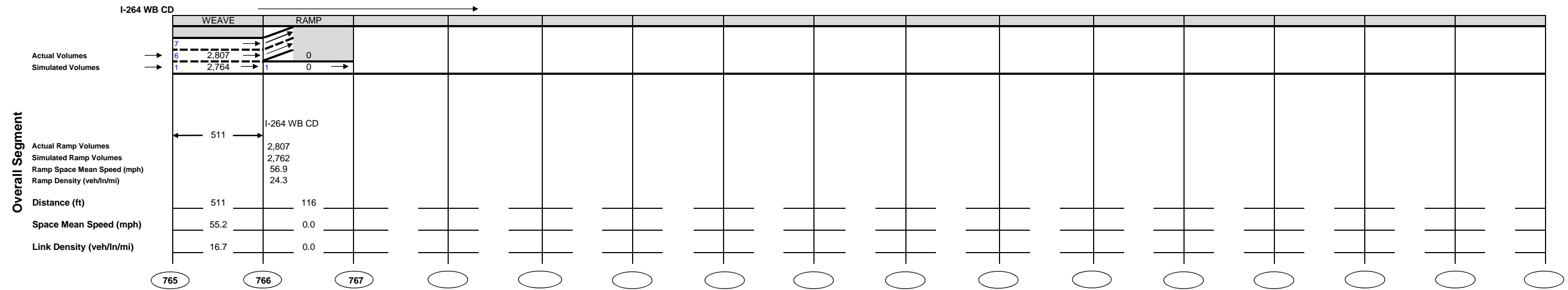


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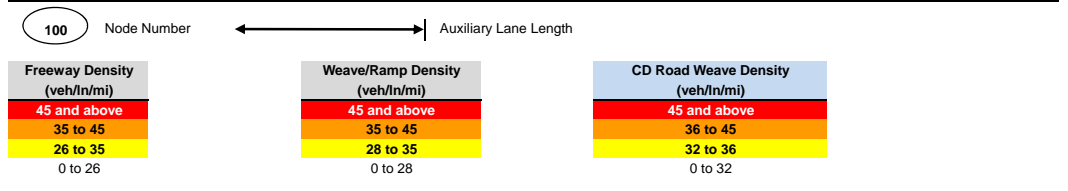


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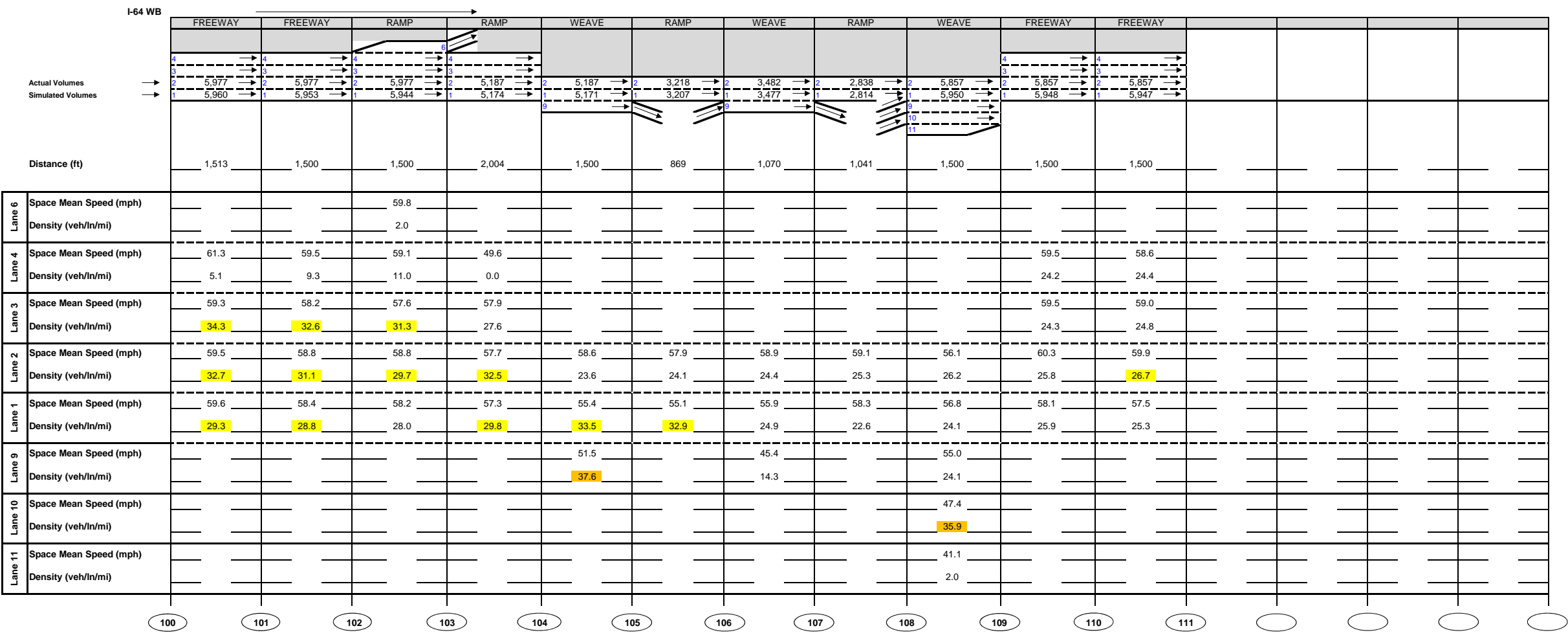
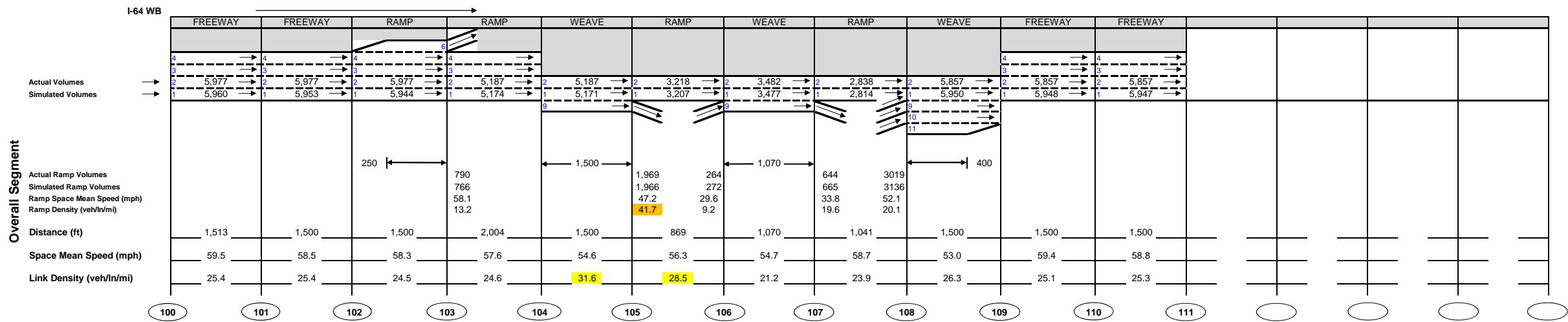
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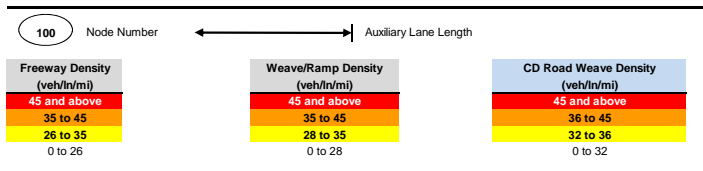
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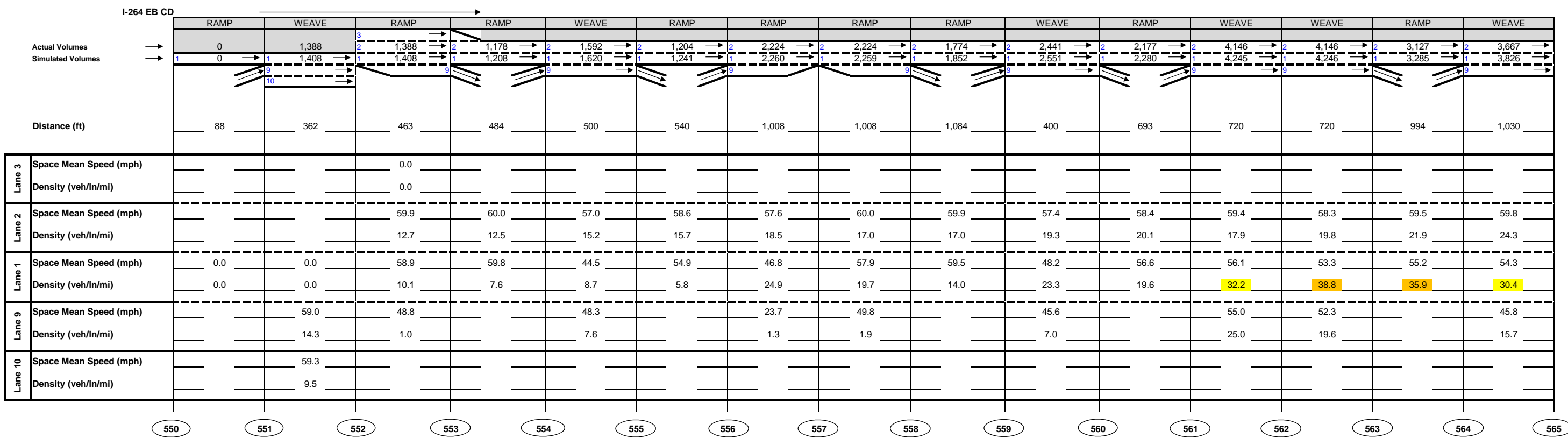
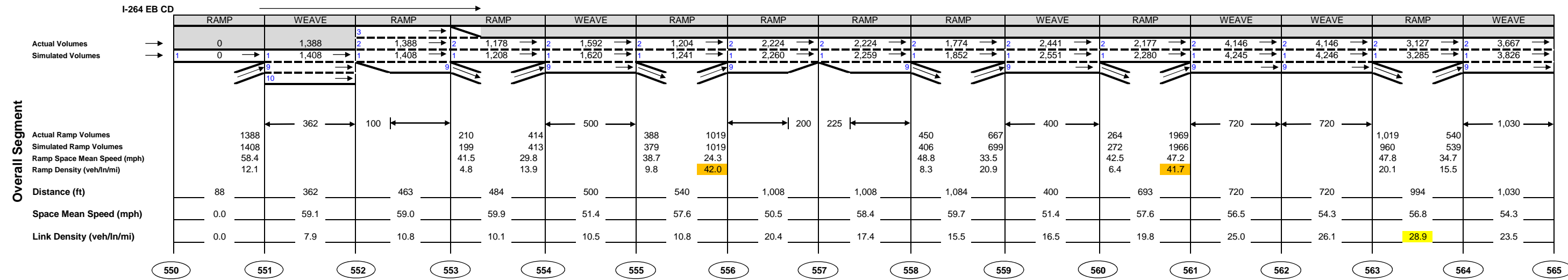


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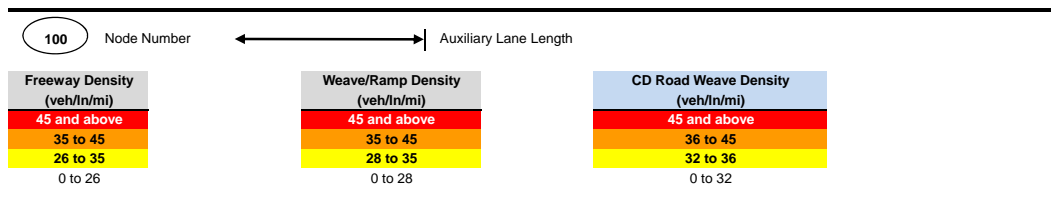


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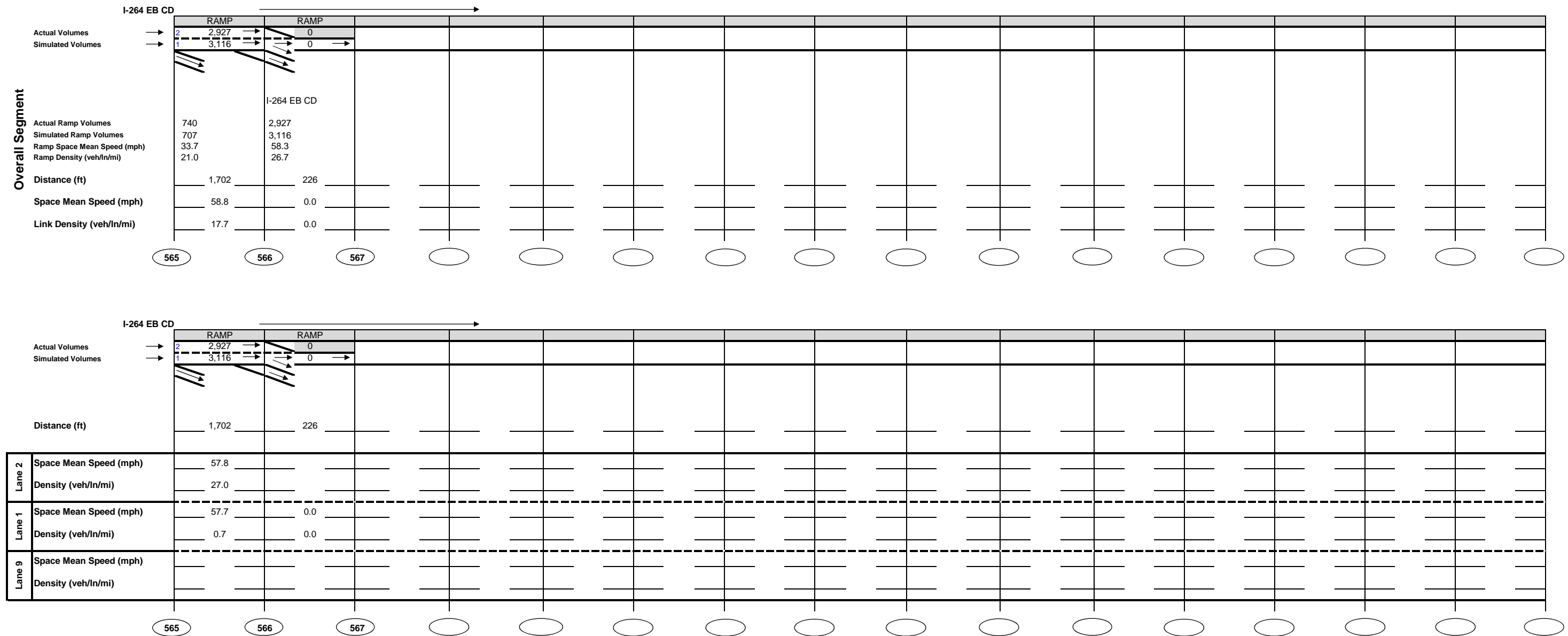
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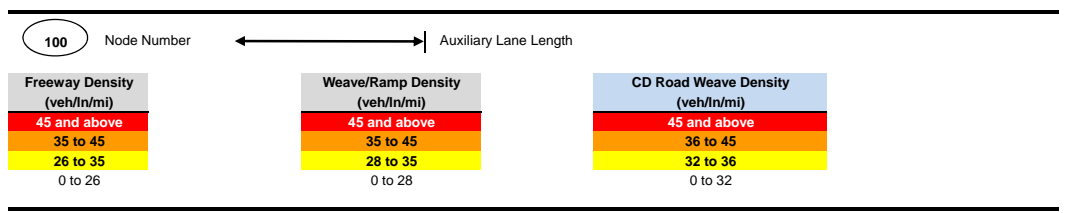
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I-264 EB ML

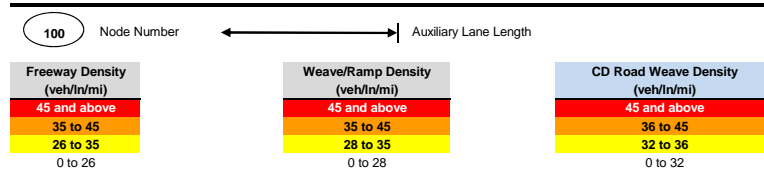
	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	WEAVE	RAMP	RAMP	RAMP	WEAVE	
Actual Volumes	4,221	4,221	4,221	4,221	4,221	4,221	2,833	2,833	2,833	2,833	2,833	2,113	2,113	4,128	4,128	
Simulated Volumes	4,216	4,219	4,224	4,226	4,232	4,227	2,819	2,821	2,823	2,823	2,825	2,100	2,100	4,131	4,129	
Actual Ramp Volumes						530	1,388				1,500	720	2,014	0	1,500	
Simulated Ramp Volumes							1,408					726	2,030	0		
Ramp Space Mean Speed (mph)							58.4					52.8	45.2	0.0		
Ramp Density (veh/ln/mi)							12.1					13.8	44.9	0.0		
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Space Mean Speed (mph)	60.9	60.3	60.0	59.8	59.7	58.6	60.6	60.5	59.0	59.5	59.1	59.6	59.3	52.0	58.5	
Link Density (veh/ln/mi)	17.5	17.5	17.6	17.7	17.7	16.9	11.7	11.7	12.0	11.9	14.5	17.6	17.7	26.5	17.6	
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

I-264 EB ML

	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	WEAVE	RAMP	RAMP	RAMP	WEAVE	
Actual Volumes	4,221	4,221	4,221	4,221	4,221	4,221	2,833	2,833	2,833	2,833	2,833	2,113	2,113	4,128	4,128	
Simulated Volumes	4,216	4,219	4,224	4,226	4,232	4,227	2,819	2,821	2,823	2,823	2,825	2,100	2,100	4,131	4,129	
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Lane 6																
Space Mean Speed (mph)											58.8			46.2	60.2	
Density (veh/ln/mi)											12.4			40.5	8.7	
Lane 4																
Space Mean Speed (mph)	60.8	60.0	59.5	59.3	59.3	60.1	60.0	60.0	58.7	59.8						
Density (veh/ln/mi)	17.6	17.4	17.3	17.1	16.0	11.3	11.2	11.1	11.3	12.1						
Lane 3																
Space Mean Speed (mph)	61.0	60.5	60.4	60.3	60.4	61.0	61.1	61.0	59.0	59.2	59.0				56.5	
Density (veh/ln/mi)	17.4	17.6	17.9	18.2	18.2	13.5	13.2	13.2	14.9	17.6	5.0				21.0	
Lane 2																
Space Mean Speed (mph)	61.0	60.5	60.3	60.2	60.2	60.3	60.8	60.7	59.0	59.3	59.3	59.6	59.4	57.1	59.2	
Density (veh/ln/mi)	17.6	17.7	18.2	18.4	18.8	16.2	13.6	13.2	15.4	16.7	17.9	17.9	17.6	20.9	22.2	
Lane 1																
Space Mean Speed (mph)	60.8	60.1	59.6	59.3	59.0	55.7	60.1	60.2	59.6	62.4	59.4	59.5	59.3	59.2	59.1	
Density (veh/ln/mi)	17.5	17.3	17.1	16.9	17.9	25.1	8.5	9.0	6.1	1.1	12.5	17.3	17.7	18.0	18.7	
Lane 9																
Space Mean Speed (mph)						57.8										
Density (veh/ln/mi)						6.1										
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

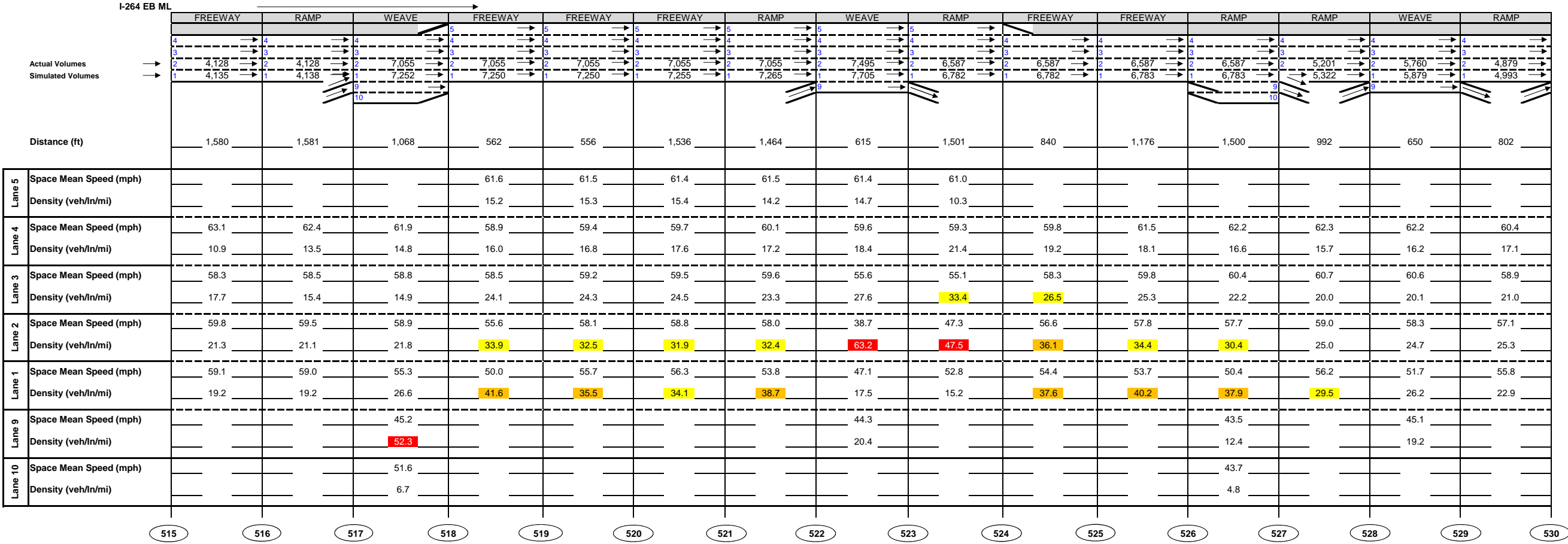
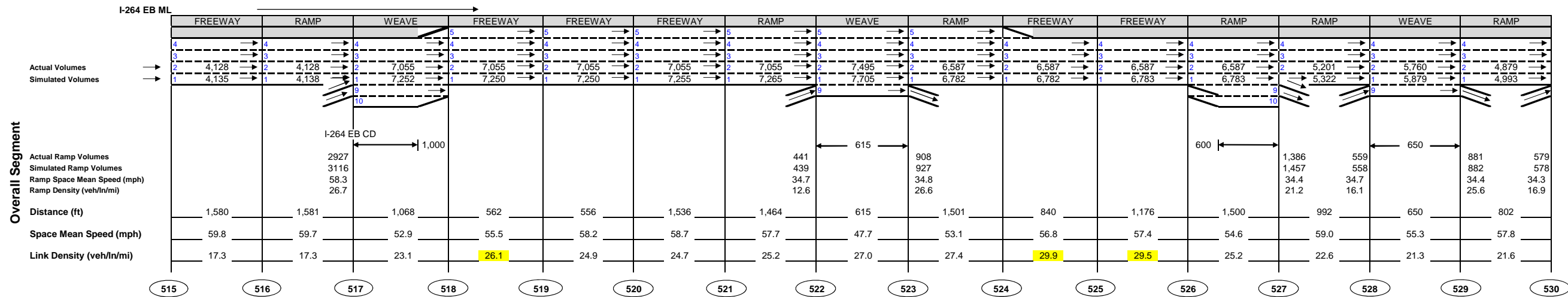
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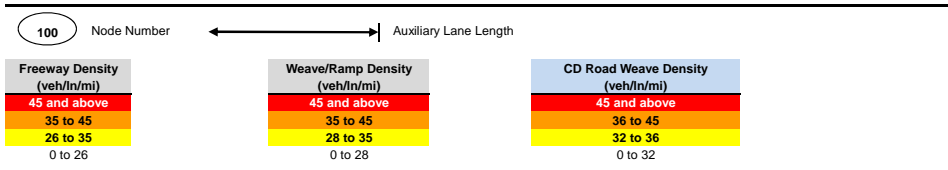
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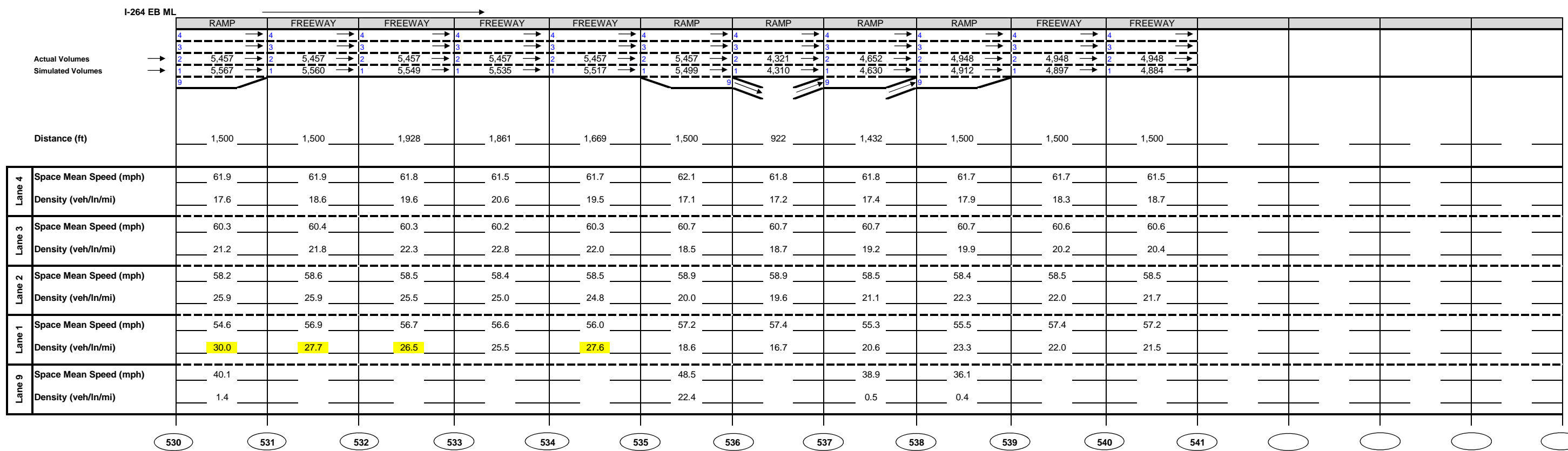
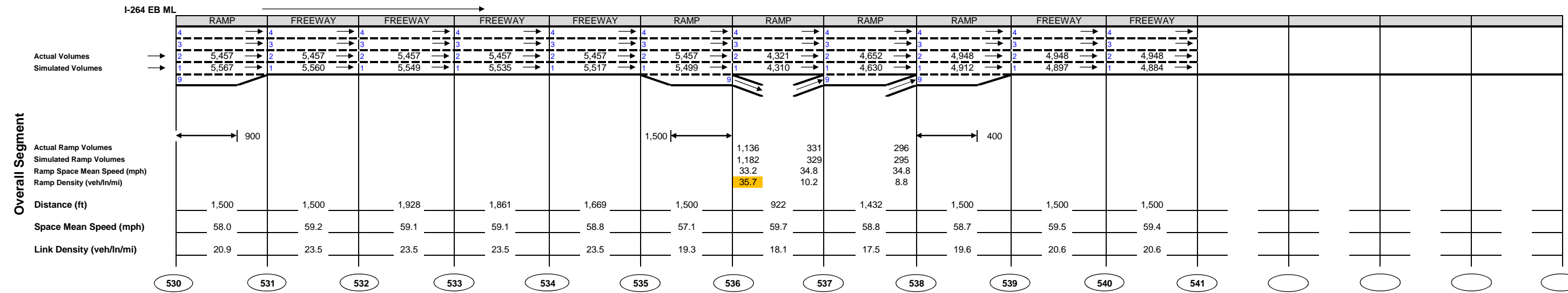
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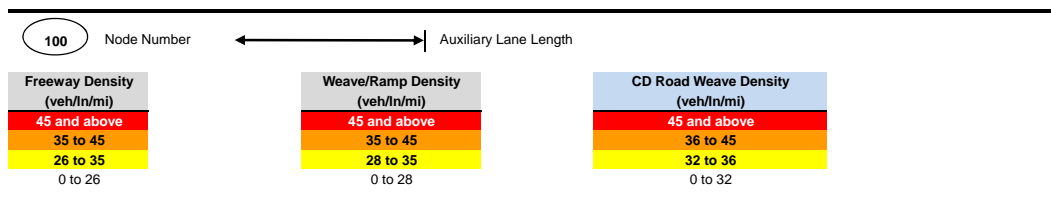
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Overall Segment	I-64 EB													
	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	WEAVE	RAMP	WEAVE	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	
	4	4	4	4	4	3	2	3	2	3	3	3	4	
Actual Volumes	6,011	6,011	6,011	6,011	6,011	6,011	3,076	3,688	3,021	5,465	5,465	5,465	5,465	
Simulated Volumes	6,013	6,021	6,024	6,029	6,034	6,040	3,106	3,668	2,968	5,262	5,265	5,266	5,266	
Actual Ramp Volumes						1,200	2,935	612	1,330	667	2,443			
Simulated Ramp Volumes							2,935	561		700	2,292			
Ramp Space Mean Speed (mph)							43.8	33.7		33.8	35.0			
Ramp Density (veh/ln/mi)							34.1	16.6		20.7	65.5			
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)	60.2	59.2	58.8	58.7	58.0	54.6	59.5	56.1	59.7	49.4	58.4	59.0	59.2	
Link Density (veh/ln/mi)	25.3	25.4	25.6	25.7	26.0	23.1	17.4	16.3	16.6	31.7	30.1	22.3	22.2	
	300	301	302	303	304	305	306	307	308	309	310	311	312	313

Overall Segment	I-64 EB													
	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	WEAVE	RAMP	WEAVE	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	
	4	4	4	4	4	3	2	3	2	3	3	3	4	
Actual Volumes	6,011	6,011	6,011	6,011	6,011	6,011	3,076	3,688	3,021	5,465	5,465	5,465	5,465	
Simulated Volumes	6,013	6,021	6,024	6,029	6,034	6,040	3,106	3,668	2,968	5,262	5,265	5,266	5,266	
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 4														
Space Mean Speed (mph)	60.2	59.0	58.4	58.2	59.0								59.5	
Density (veh/ln/mi)	25.1	25.2	25.1	25.0	19.1								27.1	
Lane 3														
Space Mean Speed (mph)	60.3	59.4	59.2	59.1	59.5	60.2	60.4	60.5	60.6	59.1	60.2	58.7	58.5	
Density (veh/ln/mi)	25.3	25.5	25.9	26.2	23.5	13.4	12.7	12.6	13.6	18.7	24.0	30.1	28.1	
Lane 2														
Space Mean Speed (mph)	60.2	59.3	59.1	59.1	58.2	60.0	60.8	60.3	60.2	55.0	58.9	57.7	57.6	
Density (veh/ln/mi)	25.5	25.6	25.8	26.1	30.2	17.3	17.5	18.5	20.4	31.8	32.0	25.9	22.4	
Lane 1														
Space Mean Speed (mph)	60.3	59.1	58.5	58.3	56.1	56.2	58.0	55.7	58.2	43.2	56.6	61.3	63.2	
Density (veh/ln/mi)	25.2	25.4	25.5	25.4	31.2	25.4	22.0	19.8	15.7	52.1	34.1	7.9	11.4	
Lane 9														
Space Mean Speed (mph)						50.0		47.5		39.4				
Density (veh/ln/mi)						40.2		14.4		4.0				
Lane 10														
Space Mean Speed (mph)						53.7								
Density (veh/ln/mi)						14.4								
	300	301	302	303	304	305	306	307	308	309	310	311	312	313

NOTE: numbers in chart are provided for illustrative purposes only

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100 Node Number Auxiliary Lane Length

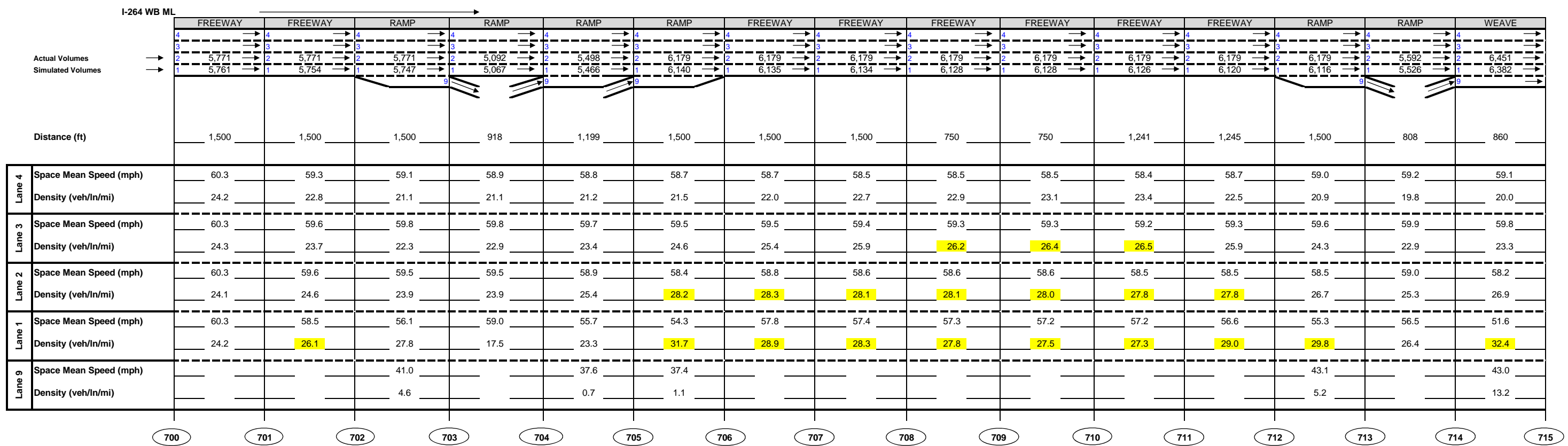
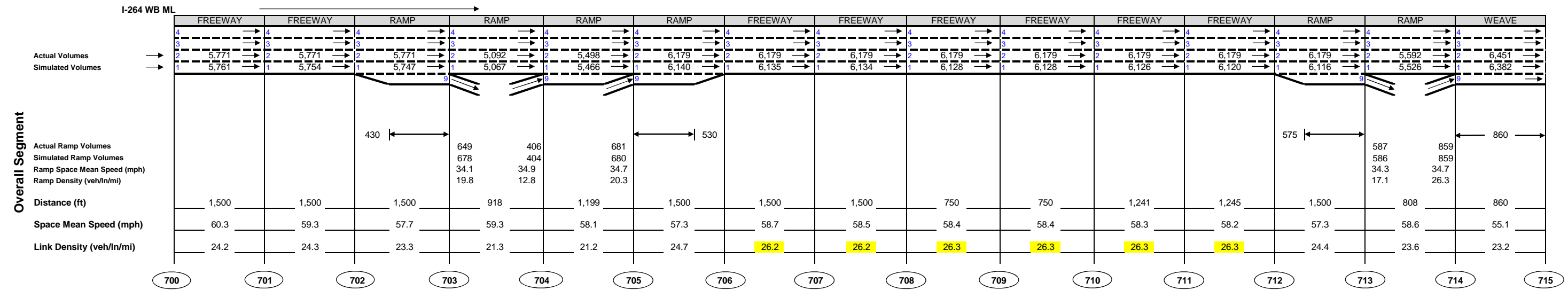
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

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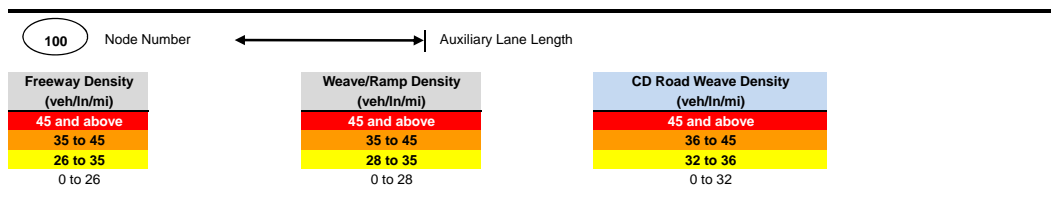
AM Existing Conditions - Link Descriptions

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	17.6	B	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.6	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	16.9	B	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	20.8	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	10.8	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	23.5	C
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	10.5	A	EB I-264 CD to EB I-264 ML (Merge)	517,518	23.1	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	20.4	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	24.7	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	11.7	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	27.1	D
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.5	B	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.8	B
EB I-64 to WB I-264 CD (Merge)	759,760	12.2	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	23.5	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	14.2	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	22.5	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	13.1	B	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	40.3	E
SB Military Hwy to WB I-264 CD (Merge)	764,765	13.3	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	24.5	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	24.7	C
WB I-264 West of Military Hwy (Freeway)	734,735	24.8	C	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	27.0	C
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	29.5	D
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	11.7	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	39.4	E
EB I-264 ML to WB I-64 (Diverge)	510,511	14.5	B	WB I-264 to Witchduck Rd (Diverge)	719,720	37.0	E
EB I-264 CD to EB I-64 (Diverge)	557,558	17.4	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	27.1	D
EB/WB I-64 & EB I-264 CD (Weave)	559,560	16.5	B	Independence Boulevard Interchange			
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	25.0	C	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	29.5	D
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.6	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	25.2	C
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	40.3	E	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	21.3	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	51.1	F	NB Independence Blvd to EB I-264 (Merge)	530,531	20.9	C
WB I-264 ML to EB I-64 (Diverge)	728,729	53.2	F	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.5	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.8	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	33.6	D
EB/WB I-64 & WB I-264 CD (Weave)	757,758	13.2	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	31.5	D
EB I-64 to WB I-264 CD (Merge)	759,760	12.2	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	31.3	D
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.5	B	SB Independence Blvd to WB I-264 (Merge)	716,717	39.1	E
EB I-64 North of I-264 (Freeway)	301,302	25.4	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	39.4	E
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	16.3	B	Rosemont Road Interchange			
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	31.7	D	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.5	C
EB I-64 South of I-264 (Freeway)	312,313	22.2	C	EB I-264 to Rosemont Rd (Diverge)	535,536	19.3	B
WB I-64 South of I-264 (Freeway)	101,102	25.4	C	SB Rosemont Rd to EB I-264 (Merge)	537,538	17.5	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.5	C	NB Rosemont Rd to EB I-264 (Merge)	538,539	19.6	B
WB I-64 to I-264 EB (Diverge)	104,105	31.6	D	EB I-264 East of Rosemont Rd (Freeway)	540,541	20.6	C
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	21.2	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	28.8	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	26.3	C	WB I-264 to Rosemont Rd (Diverge)	702,703	27.8	C
WB I-64 North of I-264 (Freeway)	110,111	25.3	C	NB Rosemont Rd to WB I-264 (Merge)	704,705	27.3	C
				SB Rosemont Rd to WB I-264 (Merge)	705,706	32.3	D
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	33.6	D



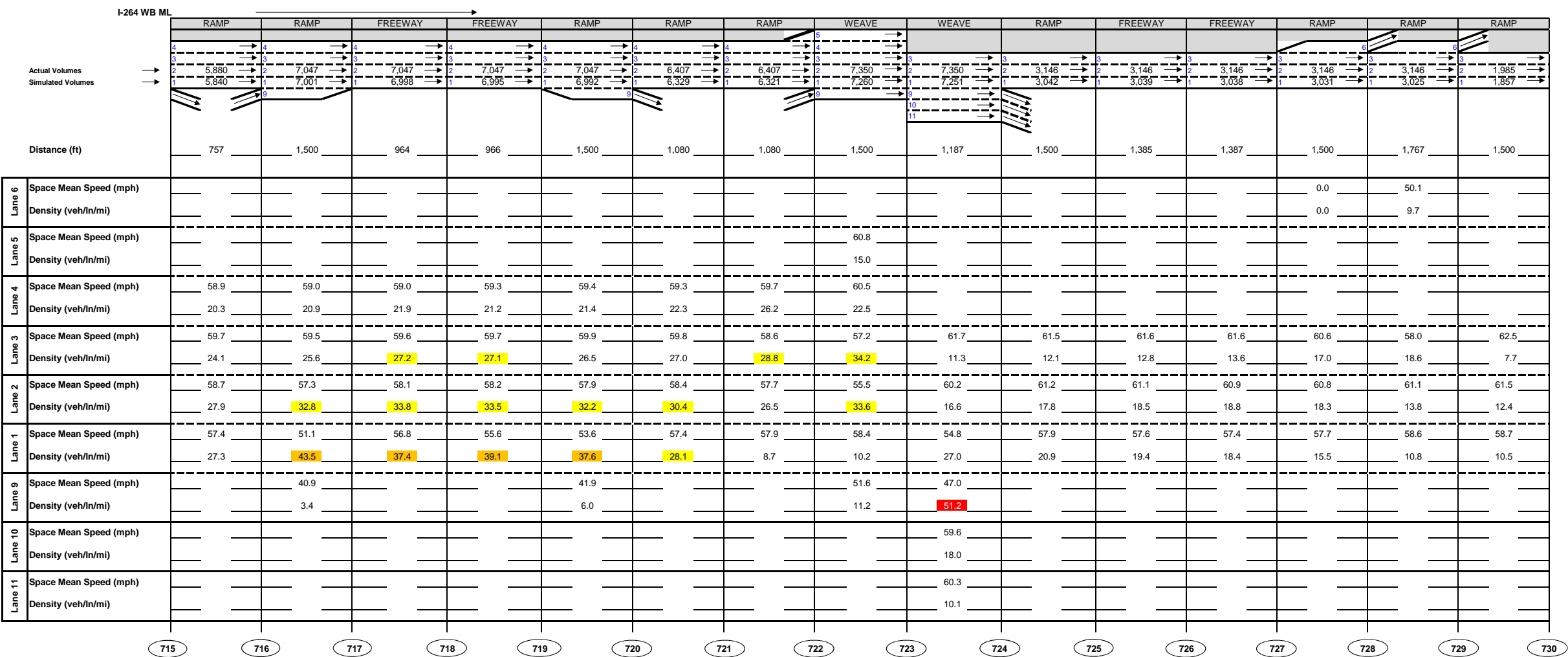
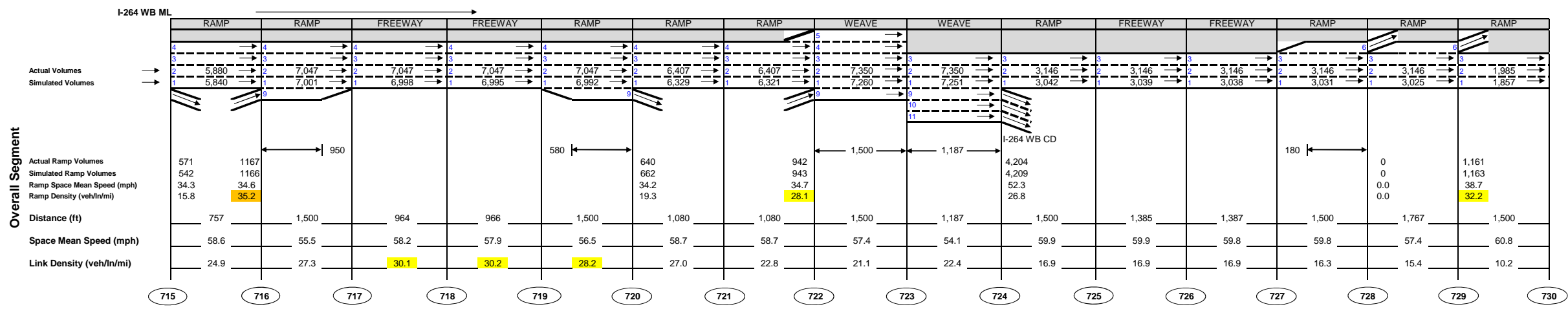
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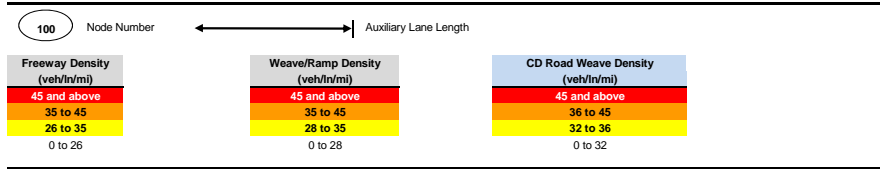
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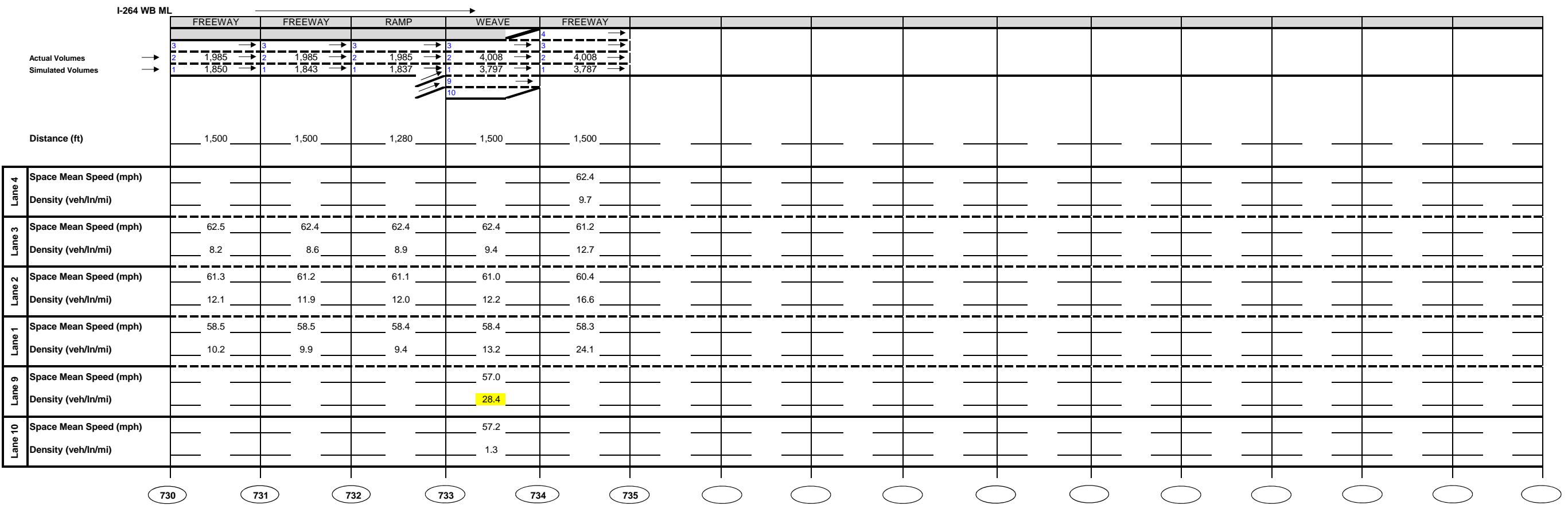
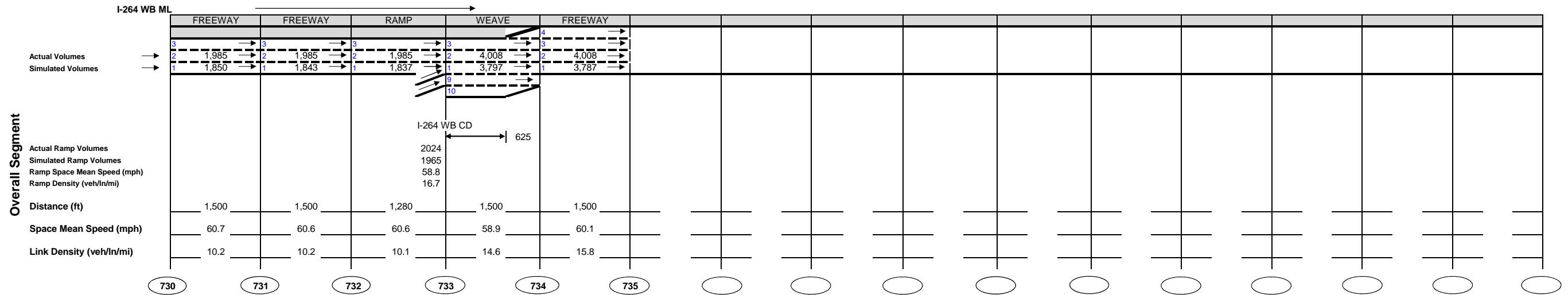
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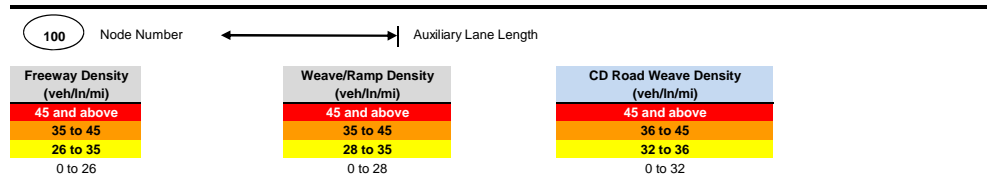
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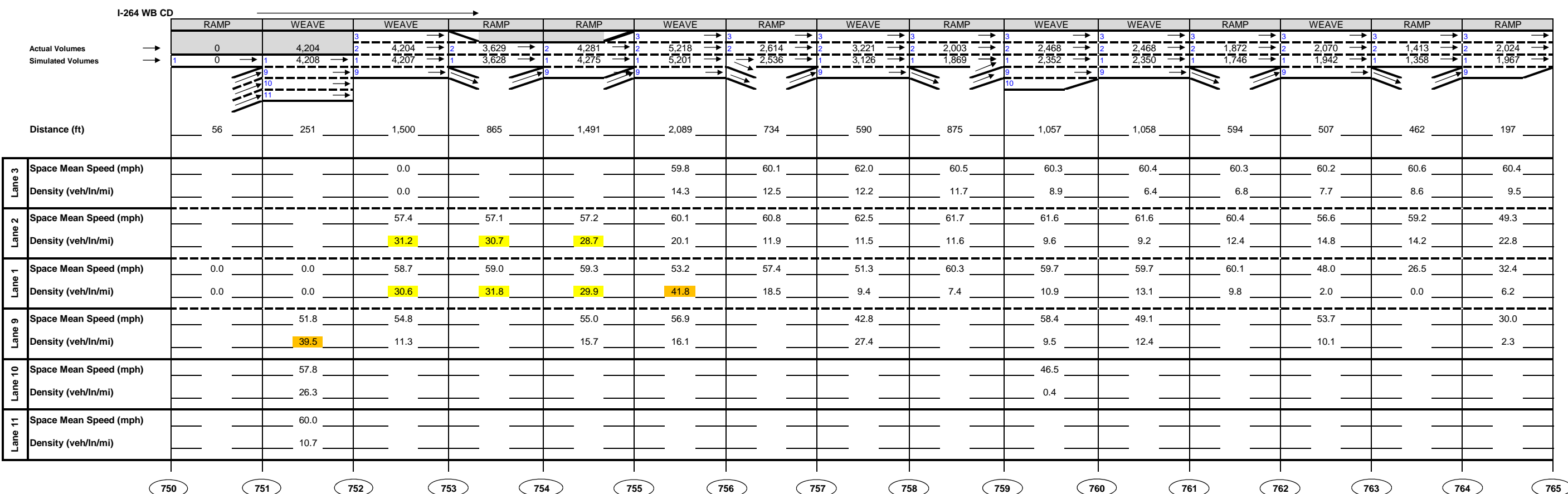
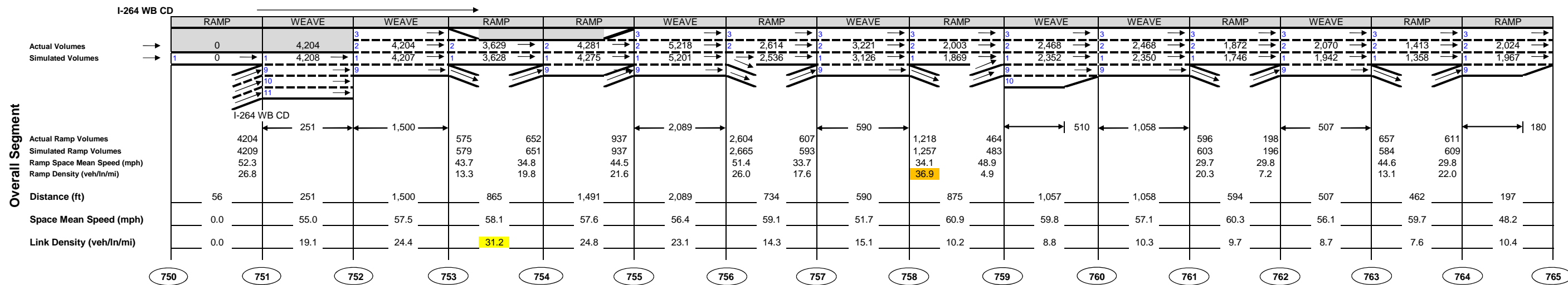
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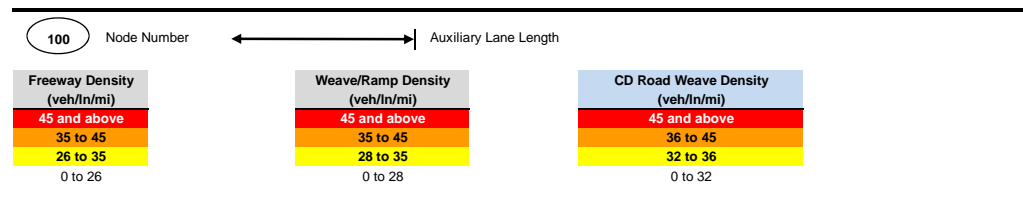
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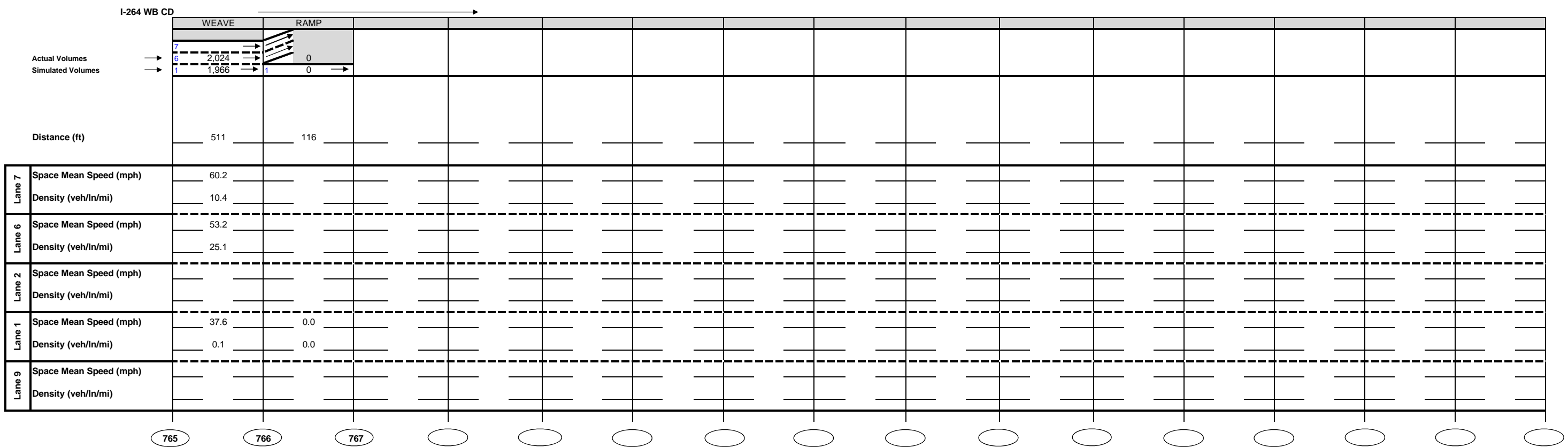
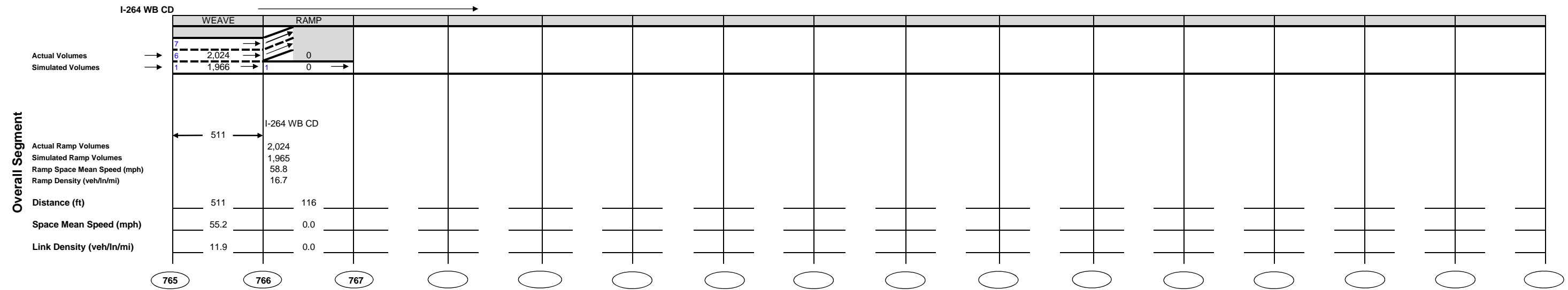


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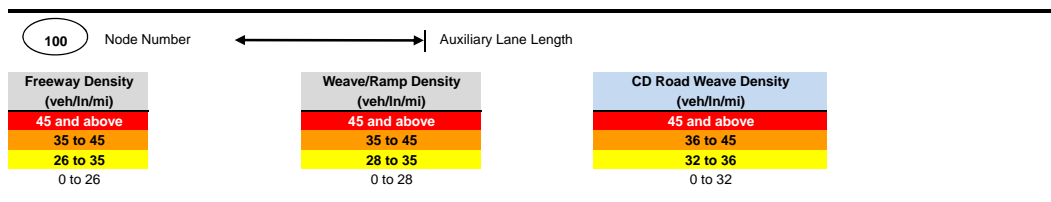


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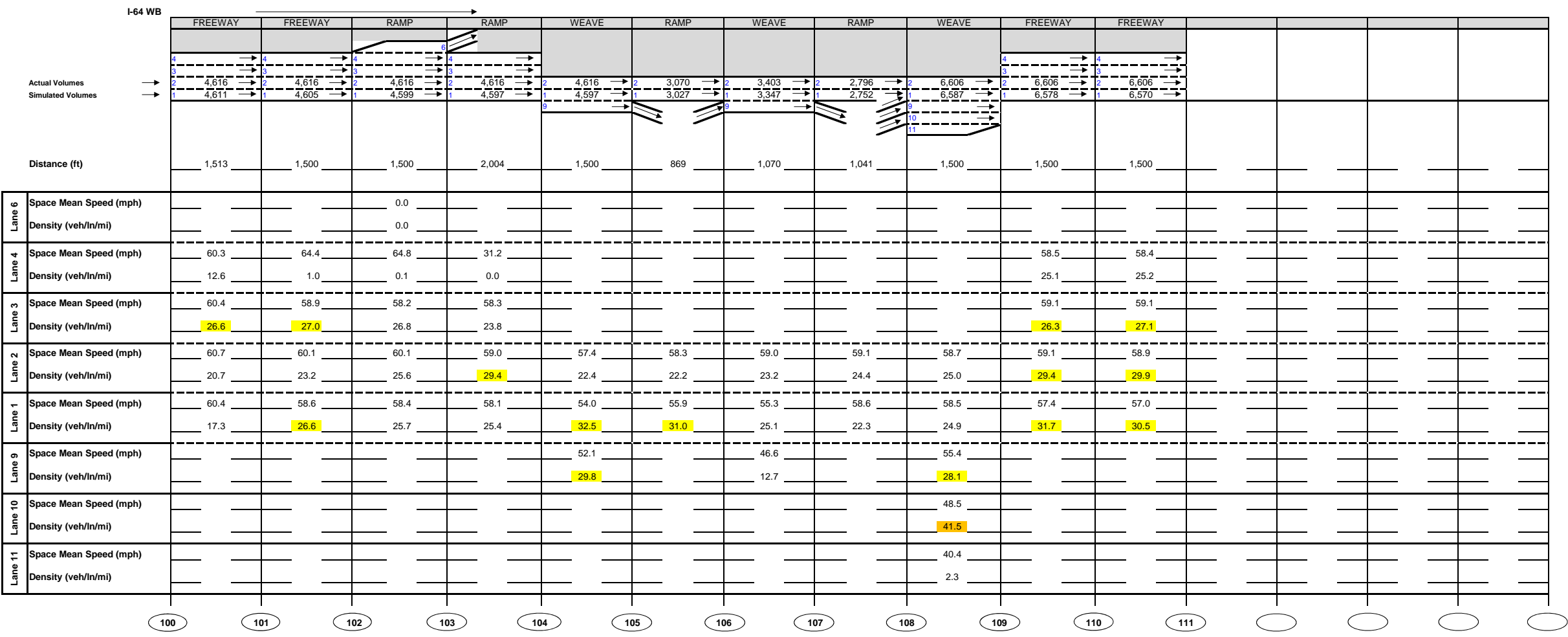
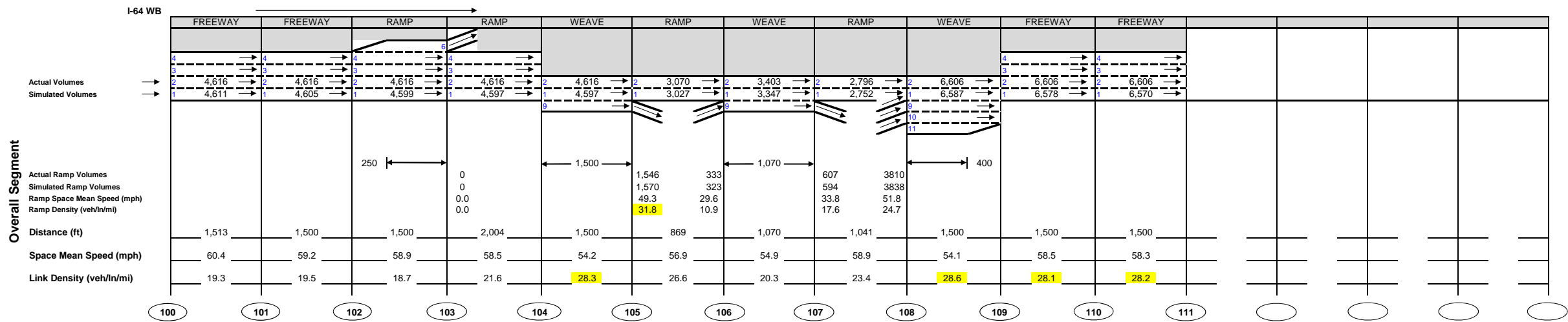
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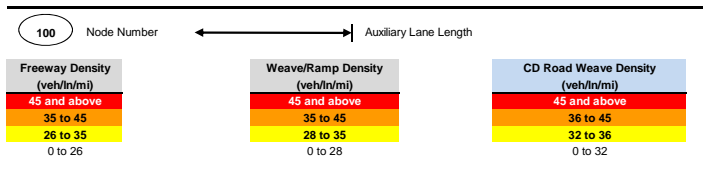
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Overall Segment	I-264 EB CD															
	RAMP	WEAVE	RAMP	RAMP	WEAVE	RAMP	RAMP	RAMP	RAMP	WEAVE	RAMP	WEAVE	WEAVE	RAMP	WEAVE	
Actual Volumes	0	1,905	1,905	1,528	2,289	1,811	2,558	2,558	1,875	2,428	2,095	3,641	3,641	2,684	3,330	
Simulated Volumes	0	1,863	1,863	1,473	2,234	1,771	2,519	2,518	1,868	2,382	2,059	3,630	3,632	2,684	3,331	
Actual Ramp Volumes	1905	362	100	377	761	478	747	200	225	683	553	400	333	1546	957	646
Simulated Ramp Volumes	1864	362	100	389	761	463	747	200	225	652	514	400	323	1570	952	646
Ramp Space Mean Speed (mph)	54.7	57.4	57.5	29.6	29.6	35.3	24.4	30.7	30.7	47.6	33.8	44.2	49.3	48.1	34.6	18.6
Ramp Density (veh/ln/mi)	17.1	10.8	14.6	9.8	25.7	13.1	13.1	13.1	13.1	13.7	15.2	7.3	31.8	19.8	18.6	18.6
Distance (ft)	88	362	463	484	500	540	1,008	1,008	1,084	400	693	720	720	994	1,030	1,030
Space Mean Speed (mph)	0.0	57.4	57.5	59.4	49.3	57.4	52.1	58.1	59.9	52.8	58.3	57.0	54.8	57.5	53.6	53.6
Link Density (veh/ln/mi)	0.0	10.8	14.6	12.4	15.1	15.4	22.0	19.5	15.6	15.0	17.7	21.2	22.1	23.3	20.7	20.7

Overall Segment	I-264 EB CD															
	RAMP	WEAVE	RAMP	RAMP	WEAVE	RAMP	RAMP	RAMP	RAMP	WEAVE	RAMP	WEAVE	WEAVE	RAMP	WEAVE	
Actual Volumes	0	1,905	1,905	1,528	2,289	1,811	2,558	2,558	1,875	2,428	2,095	3,641	3,641	2,684	3,330	
Simulated Volumes	0	1,863	1,863	1,473	2,234	1,771	2,519	2,518	1,868	2,382	2,059	3,630	3,632	2,684	3,331	
Distance (ft)	88	362	463	484	500	540	1,008	1,008	1,084	400	693	720	720	994	1,030	
Lane 3																
Space Mean Speed (mph)			0.0													
Density (veh/ln/mi)			0.0													
Lane 2																
Space Mean Speed (mph)			59.3	59.8	56.9	58.7	58.5	60.1	60.0	57.7	58.7	59.3	58.8	60.0	59.5	
Density (veh/ln/mi)			15.3	15.1	18.6	19.4	20.4	18.1	17.0	18.5	18.7	15.4	16.3	18.1	21.4	
Lane 1																
Space Mean Speed (mph)	0.0	0.0	57.0	58.9	44.0	55.2	48.8	57.6	59.9	49.8	57.8	56.7	54.7	56.0	52.9	
Density (veh/ln/mi)	0.0	0.0	15.2	9.7	16.1	11.5	26.5	22.4	14.1	19.5	16.7	26.8	30.8	28.5	27.9	
Lane 9																
Space Mean Speed (mph)		57.3	46.8		44.1		22.8	49.5		48.5		55.6	51.5		45.4	
Density (veh/ln/mi)		17.8	1.9		10.6		1.5	2.9		7.1		21.6	19.2		12.9	
Lane 10																
Space Mean Speed (mph)		57.5														
Density (veh/ln/mi)		14.7														

NOTE: numbers in chart are provided for illustrative purposes only

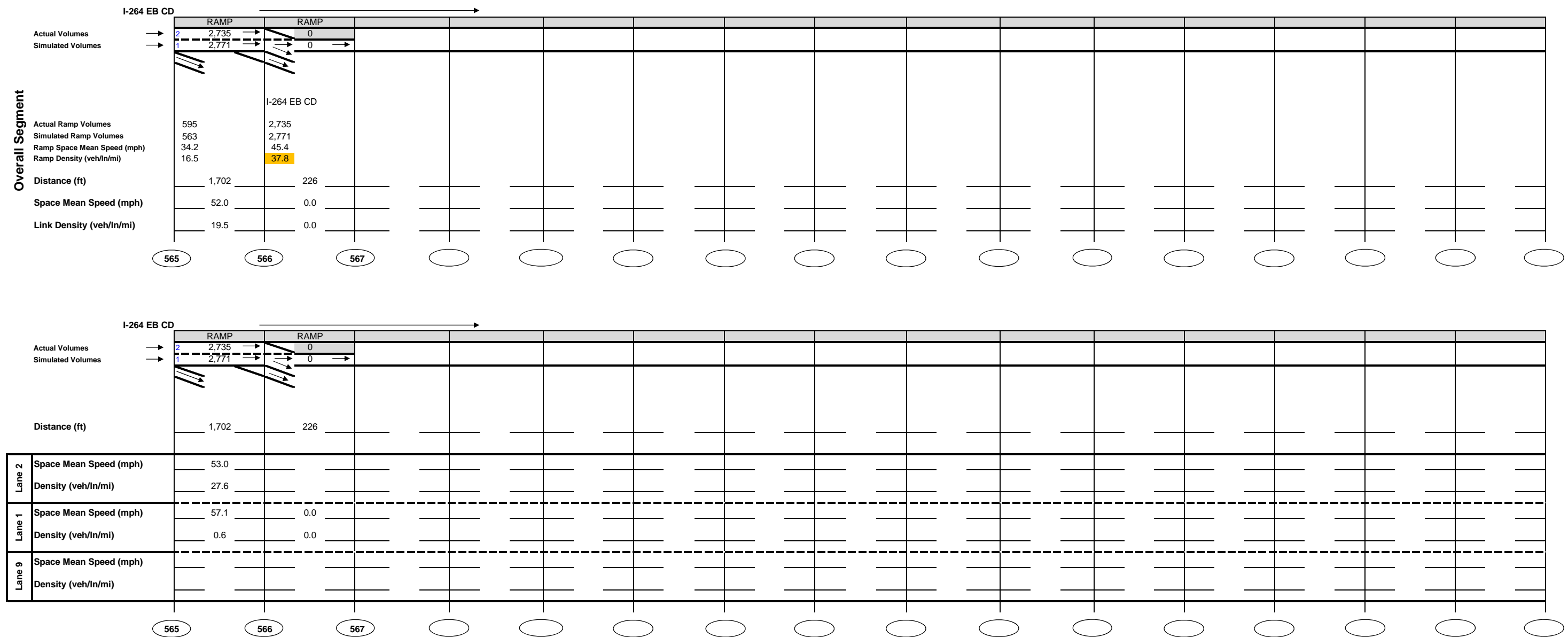
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100 Node Number Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

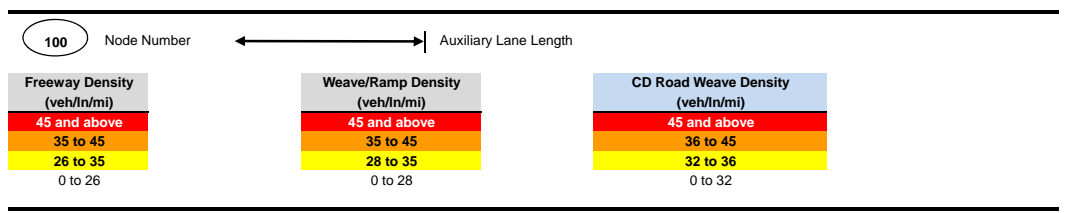
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I-264 EB ML

	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	WEAVE	RAMP	RAMP	RAMP	WEAVE	
Actual Volumes	6,765	6,765	6,765	6,765	6,765	6,765	4,860	4,860	4,860	4,860	4,860	3,654	3,654	5,589	6,213	
Simulated Volumes	6,715	6,713	6,712	6,709	6,703	6,682	4,820	4,818	4,818	4,817	4,816	3,636	3,639	5,587	6,214	
Actual Ramp Volumes						530	1,905				1,500	1,206	1935	624		
Simulated Ramp Volumes							1,864					1,180	1949	623		
Ramp Space Mean Speed (mph)						49.8	54.7				51.6	45.7	60.9	11.2		
Ramp Density (veh/ln/mi)						17.1	42.6				31.6	31.7	35.3			
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Space Mean Speed (mph)	59.5	58.1	57.7	57.5	56.3	49.8	58.7	59.2	56.8	57.3	56.2	57.6	57.3	52.9	57.1	
Link Density (veh/ln/mi)	28.6	28.9	29.1	29.2	29.8	31.5	20.5	20.3	21.2	21.0	26.0	31.6	31.7	35.3	27.2	
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

I-264 EB ML

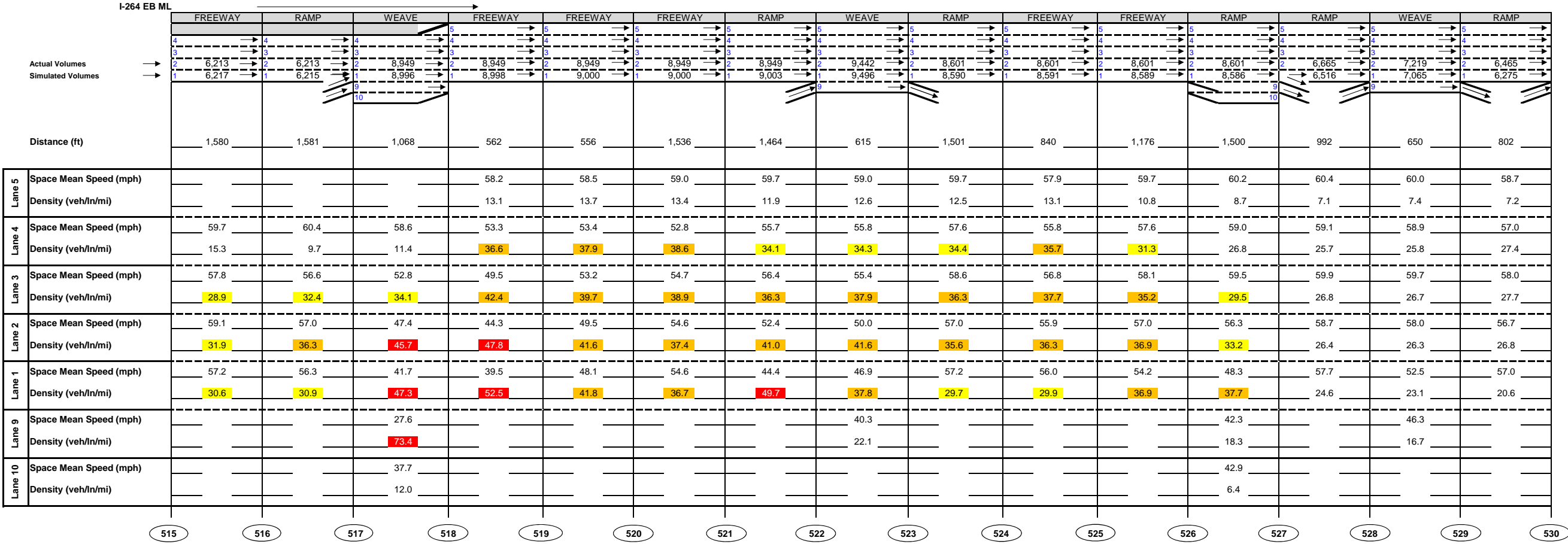
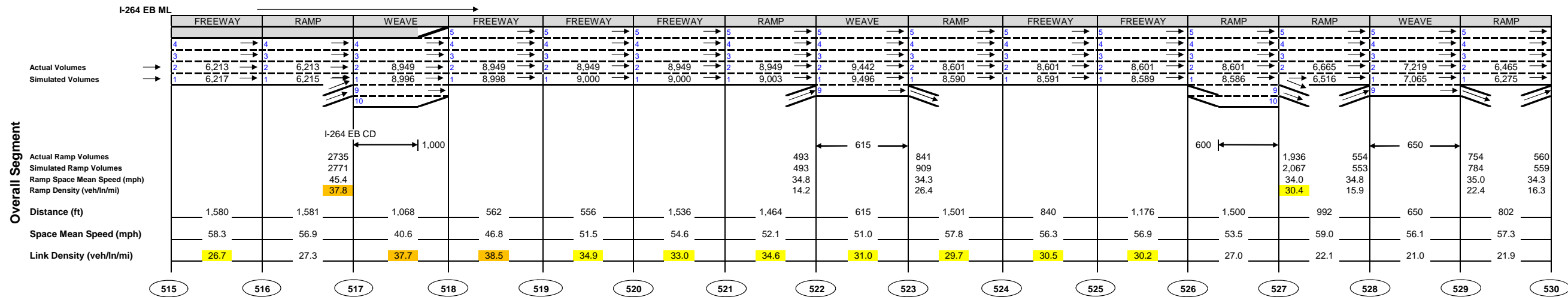
	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	WEAVE	RAMP	RAMP	RAMP	WEAVE	
Actual Volumes	6,765	6,765	6,765	6,765	6,765	6,765	4,860	4,860	4,860	4,860	4,860	3,654	3,654	5,589	6,213	
Simulated Volumes	6,715	6,713	6,712	6,709	6,703	6,682	4,820	4,818	4,818	4,817	4,816	3,636	3,639	5,587	6,214	
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Lane 6																
Space Mean Speed (mph)											57.2			46.2	60.1	
Density (veh/ln/mi)											20.4			40.4	9.0	
Lane 4																
Space Mean Speed (mph)	60.6	60.3	59.7	59.2	59.5	59.1	58.8	59.9	57.3	58.2						
Density (veh/ln/mi)	10.2	10.4	11.1	11.2	8.2	8.1	8.1	10.9	9.1	16.4						
Lane 3																
Space Mean Speed (mph)	59.2	57.6	57.1	56.9	55.9	57.4	58.3	58.8	55.2	57.1	57.0				55.3	
Density (veh/ln/mi)	36.3	36.3	35.8	35.6	37.4	29.6	29.2	25.9	30.8	29.6	8.1				35.9	
Lane 2																
Space Mean Speed (mph)	59.3	58.2	57.9	57.8	57.3	53.3	58.9	58.9	57.2	56.4	55.9	57.9	57.6	56.9	58.3	
Density (veh/ln/mi)	35.1	35.2	35.4	35.6	36.7	36.5	27.0	25.5	29.2	33.3	32.7	31.3	31.6	33.5	32.5	
Lane 1																
Space Mean Speed (mph)	59.5	57.9	57.4	57.2	55.2	41.3	59.3	59.7	58.9	61.1	55.5	57.3	57.0	57.0	57.1	
Density (veh/ln/mi)	33.0	33.6	34.1	34.4	36.7	51.0	17.7	19.1	15.7	4.8	24.5	31.8	31.8	31.8	31.3	
Lane 9																
Space Mean Speed (mph)						51.3										
Density (veh/ln/mi)						9.0										
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

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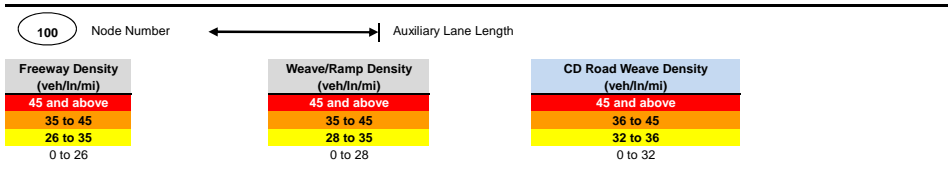
100	Node Number	←	Auxiliary Lane Length	→		
45 and above	Freeway Density (veh/ln/mi)	45 and above	Weave/Ramp Density (veh/ln/mi)	45 and above	45 and above	CD Road Weave Density (veh/ln/mi)
35 to 45		35 to 45		36 to 45		
26 to 35		28 to 35		32 to 36		
0 to 26		0 to 28		0 to 32		

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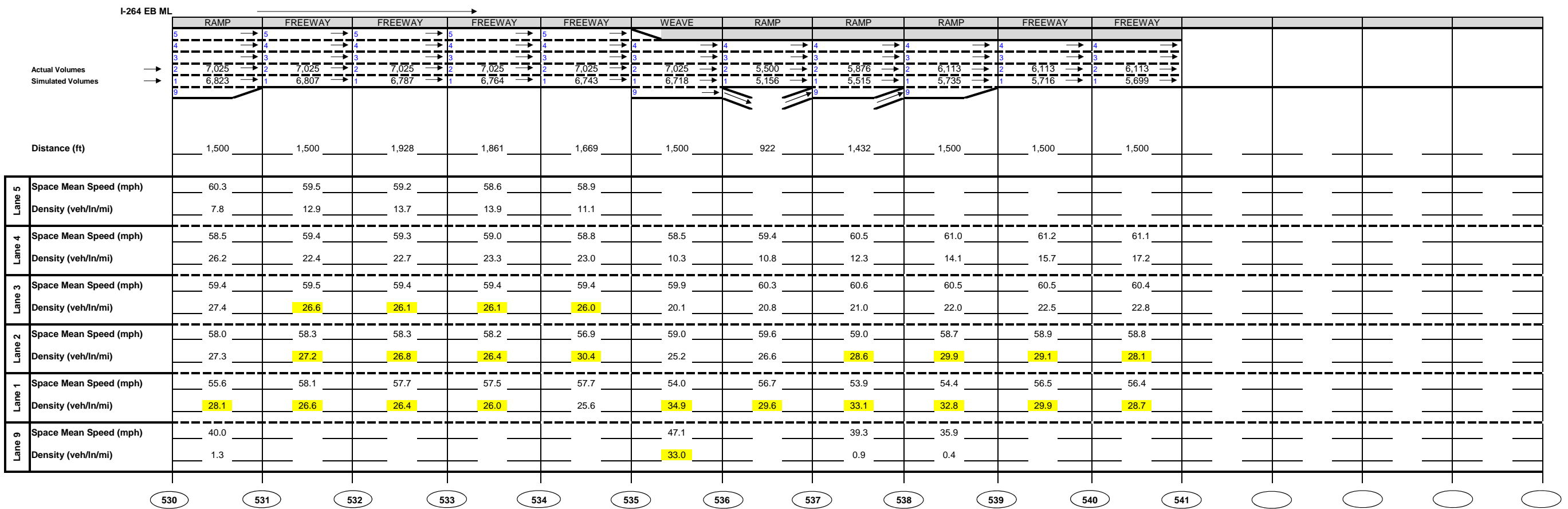
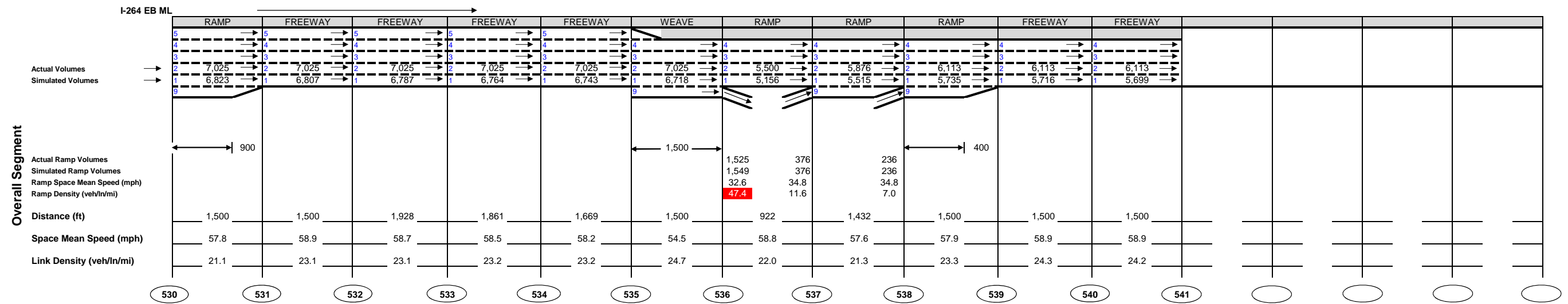
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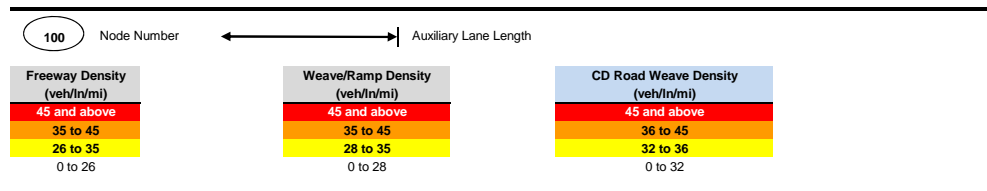
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Overall Segment

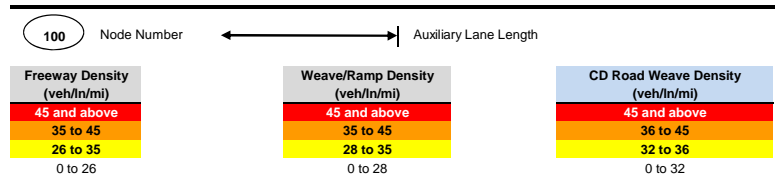
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	5,560	5,560	5,560	5,560	5,560	5,560	5,560	3,160	4,378	3,825	5,669	5,669	5,669	5,669
Simulated Volumes	5,564	5,570	5,581	5,585	5,592	5,602	3,192	4,454	3,943	5,753	5,751	5,747	5,743	
Actual Ramp Volumes						1,200	2,400	1,218	553	1,844				
Simulated Ramp Volumes							2,419	1,256	514	1,811				
Ramp Space Mean Speed (mph)							29.0	32.8	34.0	31.0				
Ramp Density (veh/ln/mi)							49.1	38.3	15.1	58.6				
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)	60.4	59.4	59.1	58.9	58.2	46.1	59.7	54.8	55.2	42.1	58.1	57.7	57.7	
Link Density (veh/ln/mi)	23.3	23.4	23.6	23.7	24.0	26.9	17.8	20.3	23.8	40.6	33.0	33.2	33.2	

Lane Detail

	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 4														
Space Mean Speed (mph)	60.4	59.2	58.7	58.4	59.0									
Density (veh/ln/mi)	23.2	23.3	23.2	23.1	18.2									
Lane 3														
Space Mean Speed (mph)	60.3	59.6	59.4	59.3	59.7	58.9	60.6	60.2	60.4	56.5	59.3	58.7	58.4	
Density (veh/ln/mi)	23.3	23.4	23.9	24.2	22.0	14.6	14.1	15.1	17.5	26.8	31.8	33.0	33.8	
Lane 2														
Space Mean Speed (mph)	60.4	59.6	59.5	59.3	58.2	57.3	60.7	58.8	58.3	49.3	57.9	57.7	57.8	
Density (veh/ln/mi)	23.4	23.7	24.1	24.4	28.1	19.3	18.5	23.7	27.9	40.0	34.0	33.6	33.5	
Lane 1														
Space Mean Speed (mph)	60.4	59.2	58.7	58.5	56.6	48.8	58.1	52.0	48.3	33.0	57.1	56.7	56.8	
Density (veh/ln/mi)	23.3	23.2	23.2	23.2	27.7	29.1	20.8	30.7	26.1	62.4	33.2	32.9	32.4	
Lane 9														
Space Mean Speed (mph)							36.9		46.7		27.9			
Density (veh/ln/mi)							49.5		11.8		7.6			
Lane 10														
Space Mean Speed (mph)							47.0							
Density (veh/ln/mi)							16.5							

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PM Existing Conditions - Link Descriptions

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	29.1	D	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	27.2	D
EB I-264 ML to EB I-264 CD (Diverge)	505,506	31.5	D	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	23.1	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	14.6	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	20.7	C
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	15.1	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	37.7	E
NB Military Hwy to EB I-264 CD (Merge)	556,557	22.0	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	33.0	D
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	20.3	C	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	22.4	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.2	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	23.1	B
EB I-64 to WB I-264 CD (Merge)	759,760	8.8	A	WB I-264 CD to NB Newtown Road (Diverge)	752,753	24.4	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	10.3	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	24.8	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	8.7	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	16.9	B
SB Military Hwy to WB I-264 CD (Merge)	764,765	10.4	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	14.6	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	33.0	D
WB I-264 West of Military Hwy (Freeway)	734,735	15.8	B	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	31.0	D
I-64/I-264 Interchange				Independence Boulevard Interchange			
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	20.3	C	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	30.2	D
EB I-264 ML to WB I-64 (Diverge)	510,511	26.0	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	30.2	D
EB I-264 CD to EB I-64 (Diverge)	557,558	19.5	B	WB I-264 to Witchduck Rd (Diverge)	719,720	28.2	D
EB/WB I-64 & EB I-264 CD (Weave)	559,560	15.0	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	22.4	C
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	21.2	B	Independence Boulevard Interchange			
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	27.2	D	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	30.2	D
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	16.9	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	27.0	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	16.3	B	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	21.0	C
WB I-264 ML to EB I-64 (Diverge)	728,729	15.4	B	NB Independence Blvd to EB I-264 (Merge)	530,531	21.1	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	23.1	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.2	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	15.1	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.2	D
EB I-64 to WB I-264 CD (Merge)	759,760	8.8	A	WB I-264 to NB Independence Blvd (Diverge)	712,713	24.4	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.2	A	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	23.2	C
EB I-64 North of I-264 (Freeway)	301,302	23.4	C	SB Independence Blvd to WB I-264 (Merge)	716,717	27.3	C
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	20.3	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	30.2	D
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	40.6	E	Rosemont Road Interchange			
EB I-64 South of I-264 (Freeway)	312,313	33.2	D	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.2	C
WB I-64 South of I-264 (Freeway)	101,102	19.5	C	EB I-264 to Rosemont Rd (Diverge)	535,536	24.7	C
WB I-64 to I-64 WB HOV (Diverge)	102,103	18.7	B	SB Rosemont Rd to EB I-264 (Merge)	537,538	21.3	C
WB I-64 to I-264 EB (Diverge)	104,105	28.3	D	NB Rosemont Rd to EB I-264 (Merge)	538,539	23.3	C
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	20.3	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	24.2	C
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	28.6	D	WB I-264 East of Rosemont Rd (Freeway)	700,701	24.2	C
WB I-64 North of I-264 (Freeway)	110,111	28.2	D	WB I-264 to Rosemont Rd (Diverge)	702,703	23.3	C
				NB Rosemont Rd to WB I-264 (Merge)	704,705	21.2	C
				SB Rosemont Rd to WB I-264 (Merge)	705,706	24.7	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.2	D

I-264 EB ML

	500	501	502	503	504	505									
Actual Volumes	3	3	3	3	3	3									
Simulated Volumes	1	1	1	1	1	1									
Actual Ramp Volumes				846											
Simulated Ramp Volumes				844											
Ramp Space Mean Speed (mph)				36.2											
Ramp Density (veh/ln/mi)				11.7											
Distance (ft)	1,500	1,500	1,500	1,500	1,500										
Space Mean Speed (mph)	61.5	61.3	57.0	61.5	61.5										
Link Density (veh/ln/mi)	8.5	8.4	7.7	3.8	3.8										

I-264 EB ML

	500	501	502	503	504	505									
Actual Volumes	3	3	3	3	3	3									
Simulated Volumes	1	1	1	1	1	1									
Distance (ft)	1,500	1,500	1,500	1,500	1,500										
Lane 3 Space Mean Speed (mph)	61.5	61.6	61.4	61.4	61.4										
Lane 3 Density (veh/ln/mi)	8.3	5.7	3.8	3.8	3.7										
Lane 2 Space Mean Speed (mph)	61.6	62.2	62.0	62.0	62.0										
Lane 2 Density (veh/ln/mi)	8.7	7.9	4.9	4.7	4.7										
Lane 1 Space Mean Speed (mph)	61.5	60.5	59.3	60.6	60.7										
Lane 1 Density (veh/ln/mi)	8.6	11.7	12.2	3.0	3.1										
Lane 9 Space Mean Speed (mph)			46.4												
Lane 9 Density (veh/ln/mi)			5.1												
Lane 10 Space Mean Speed (mph)			43.9												
Lane 10 Density (veh/ln/mi)			1.2												

NOTE: numbers in chart are provided for illustrative purposes only

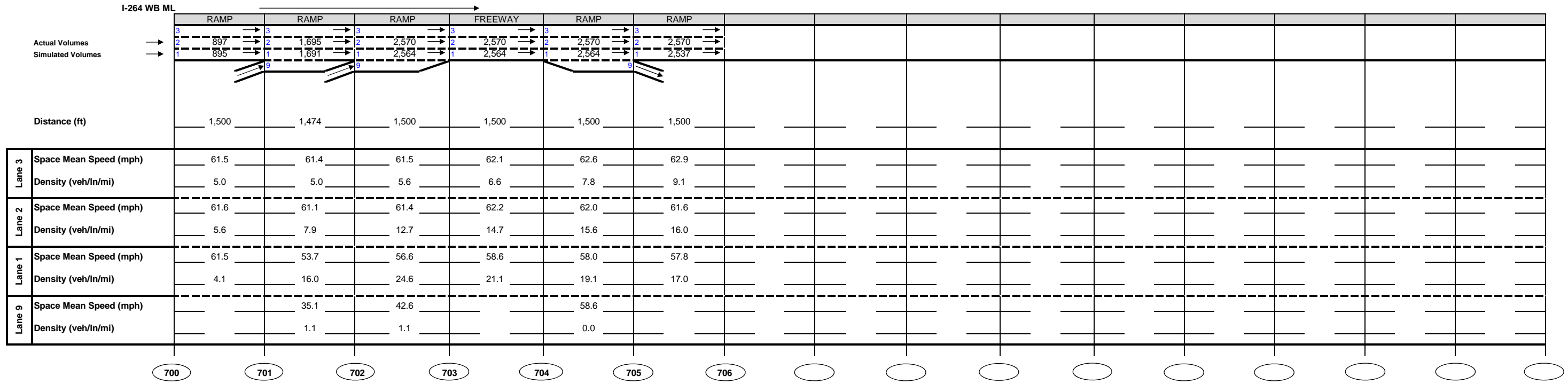
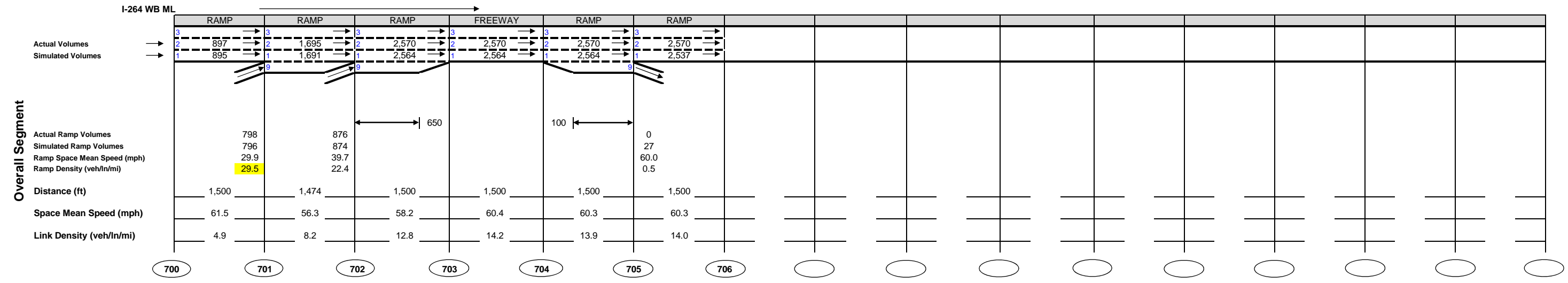
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100 Node Number Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

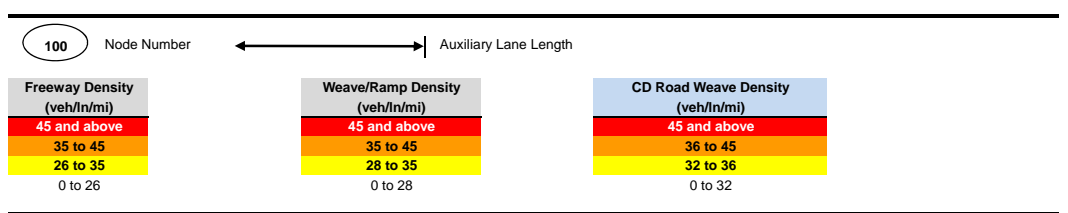
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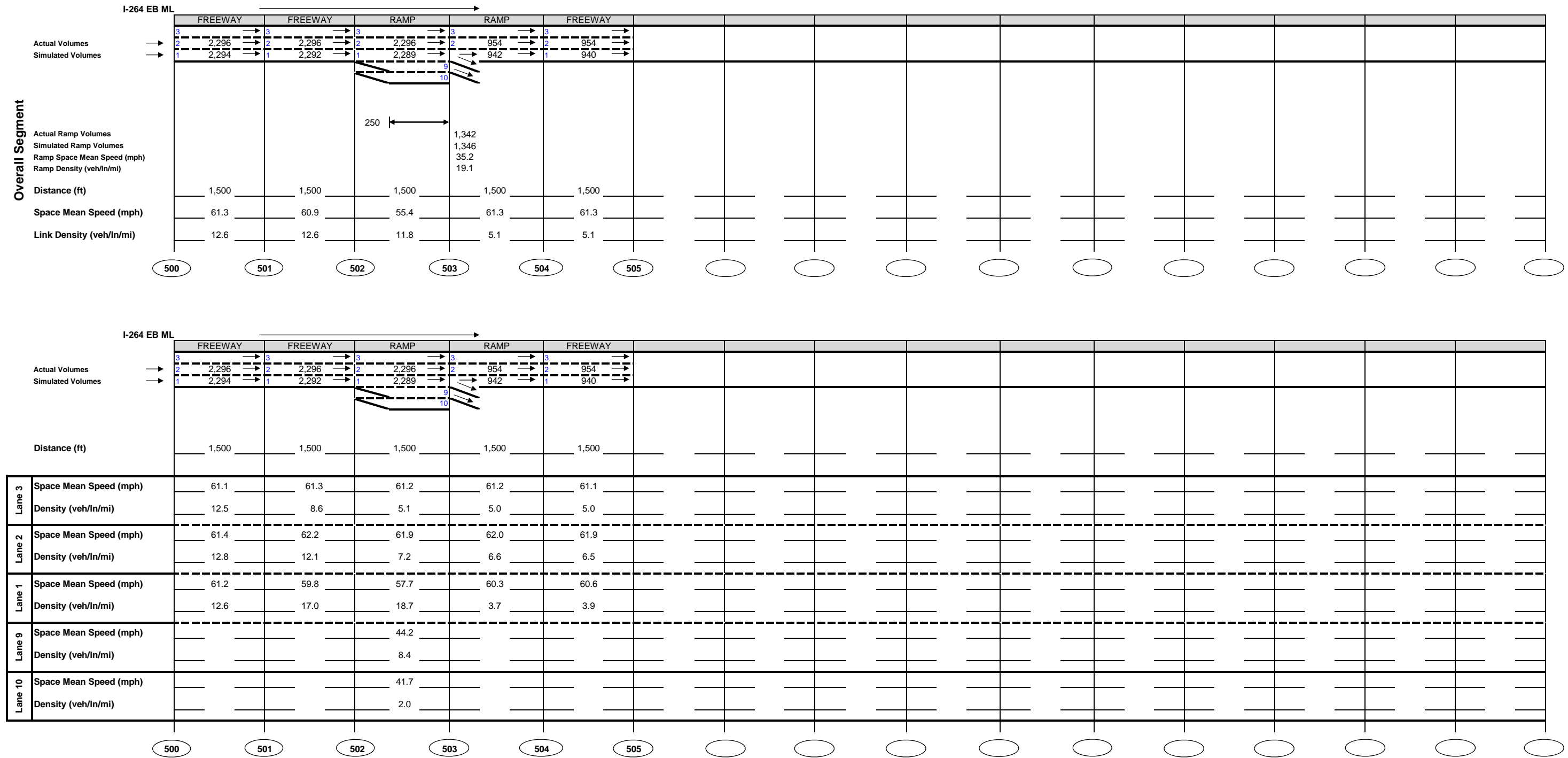
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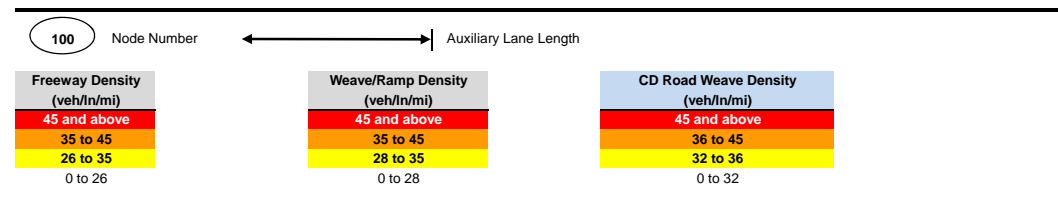
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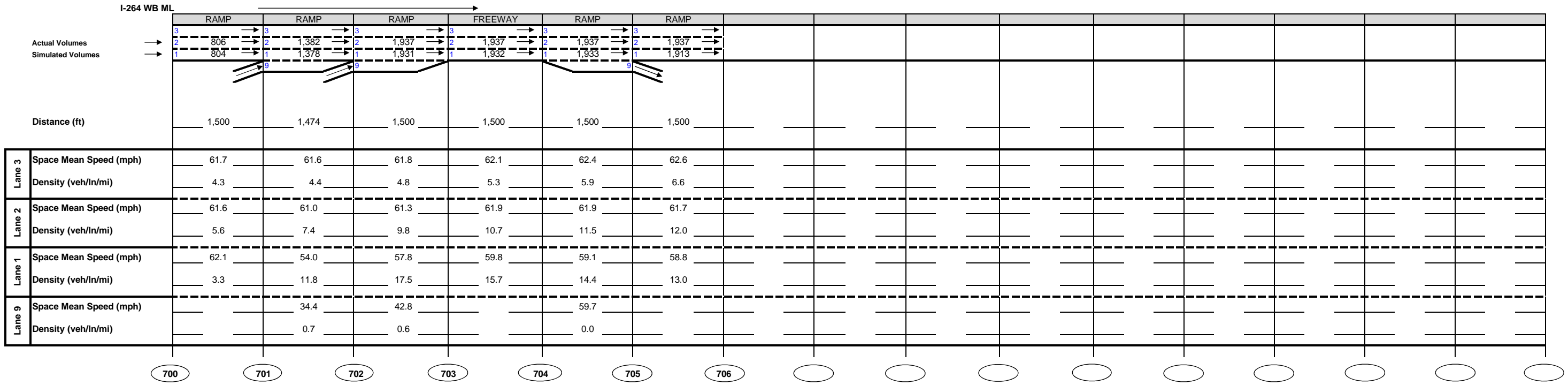
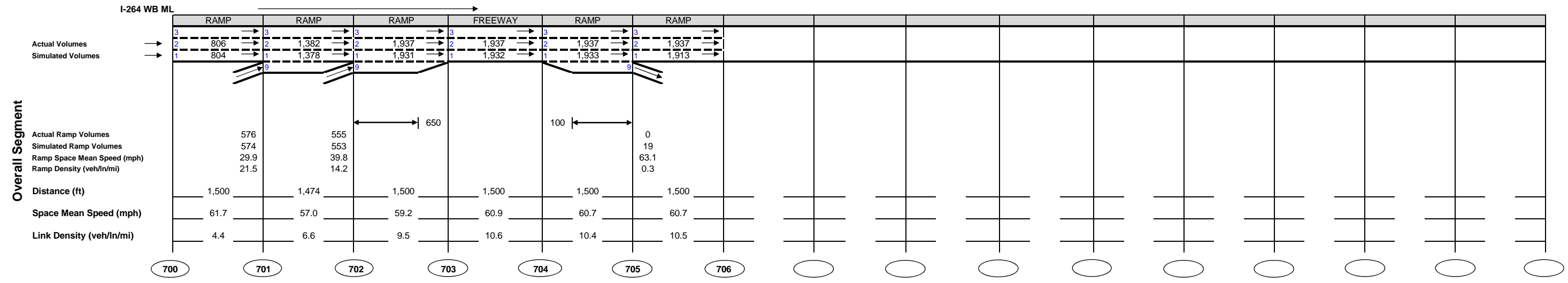
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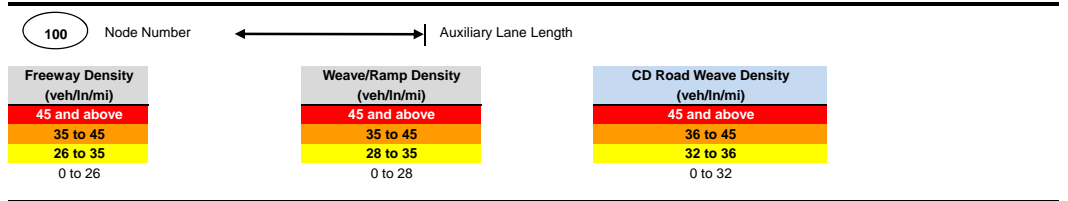
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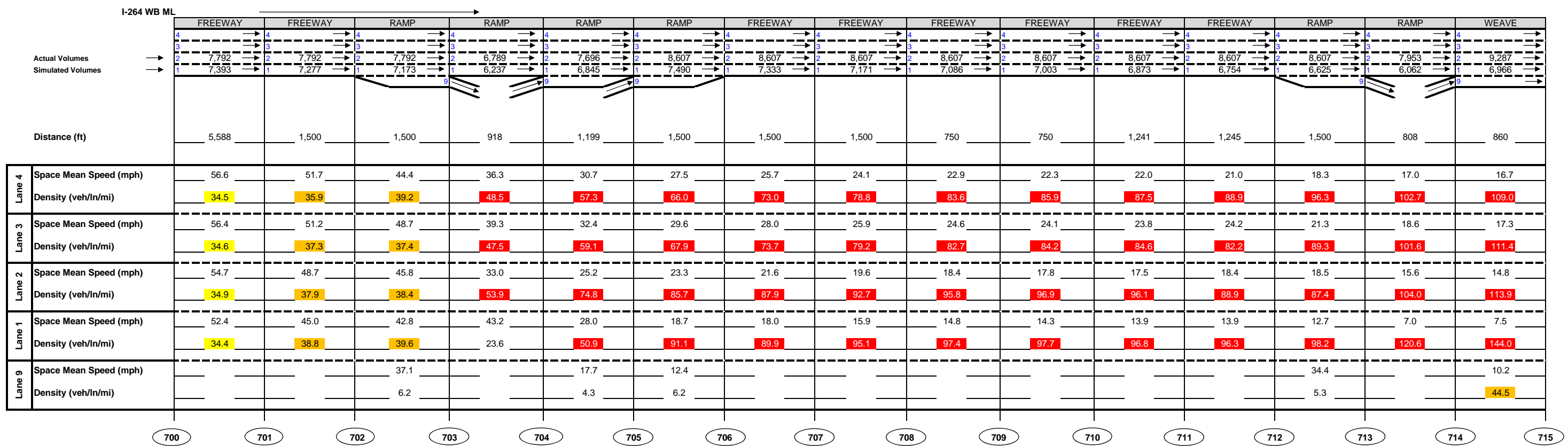
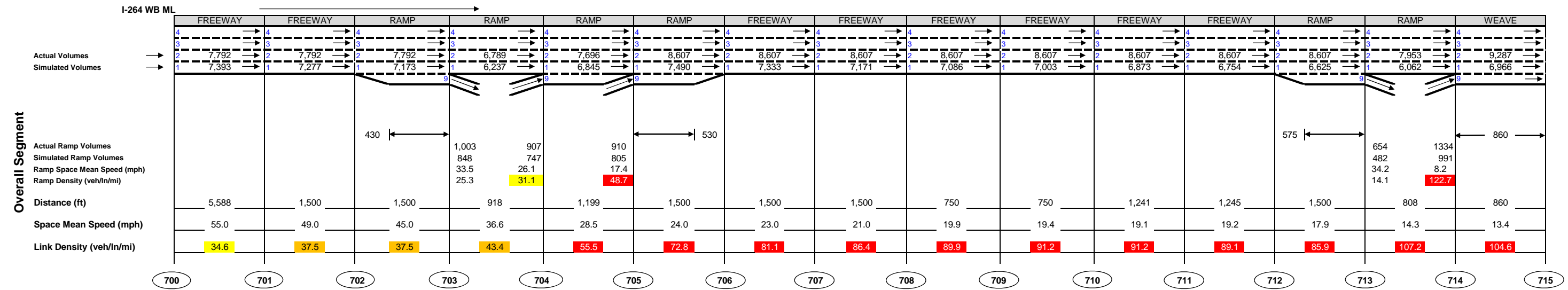


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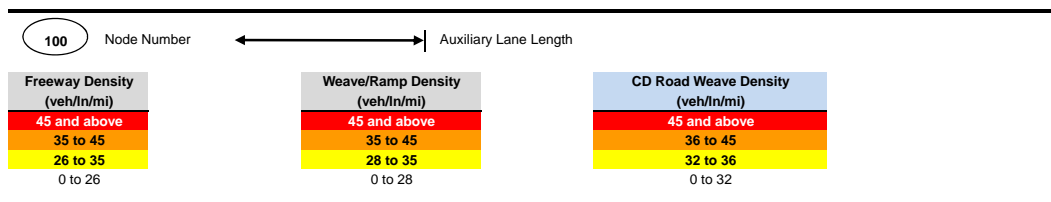
AM and PM Existing Conditions - Birdneck Road Link Descriptions

Interchange	Link	AM Density	AM LOS	Interchange	Link	PM Density	PM LOS
Birdneck Road Interchange				Birdneck Road Interchange			
EB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	500,501	8.5	A	EB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	500,501	12.6	B
EB I-264 to Birdneck Rd (Diverge)	502,503	7.7	A	EB I-264 to Birdneck Rd (Diverge)	502,503	11.8	B
EB I-264 between Birdneck Rd and Parks Ave (Freeway)	503,504	3.8	A	EB I-264 between Birdneck Rd and Parks Ave (Freeway)	503,504	5.1	A
WB I-264 between Birdneck Rd and Parks Ave (Freeway)	700,701	4.9	A	WB I-264 between Birdneck Rd and Parks Ave (Freeway)	700,701	4.4	A
NB Birdneck Rd to WB I-264 (Merge)	701,702	8.2	A	NB Birdneck Rd to WB I-264 (Merge)	701,702	6.6	A
SB Birdneck Rd to WB I-264 (Merge)	702,703	12.8	B	SB Birdneck Rd to WB I-264 (Merge)	702,703	9.5	A
WB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	703,704	14.2	B	WB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	703,704	10.6	A



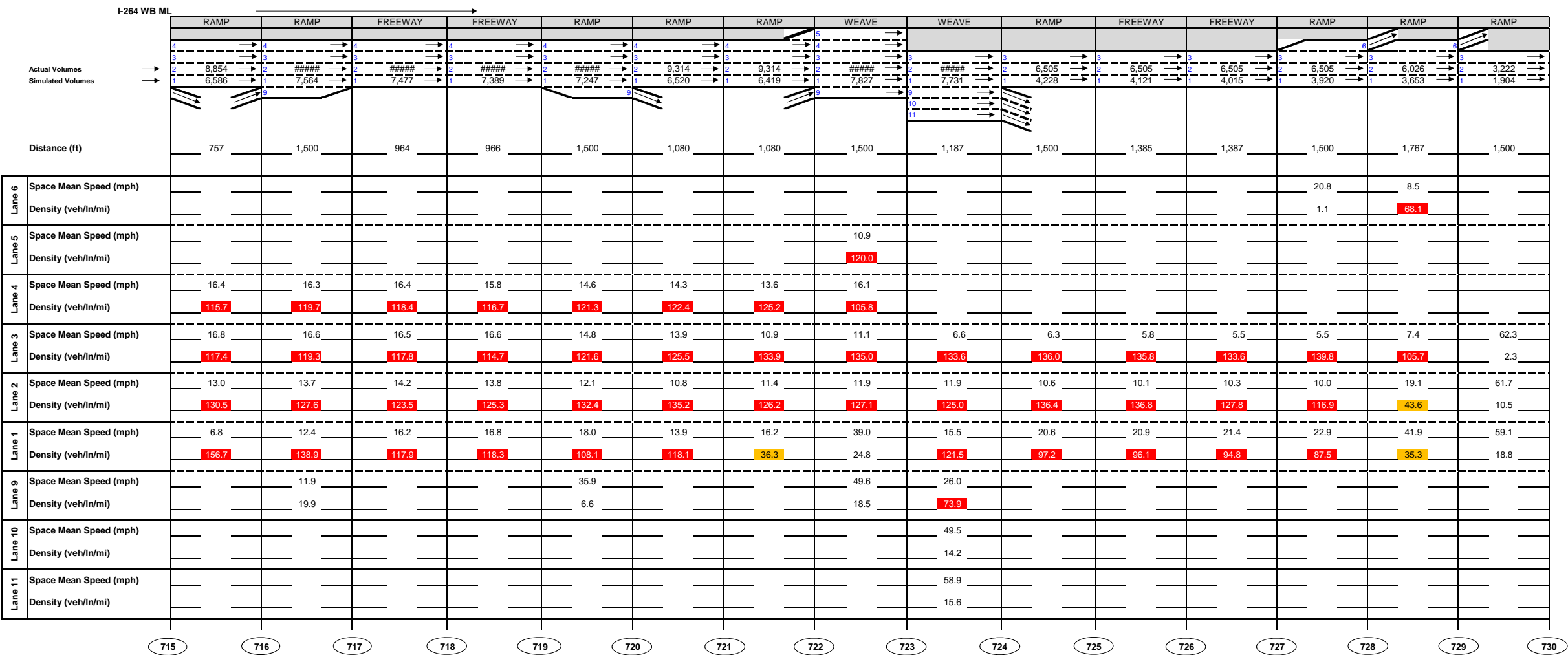
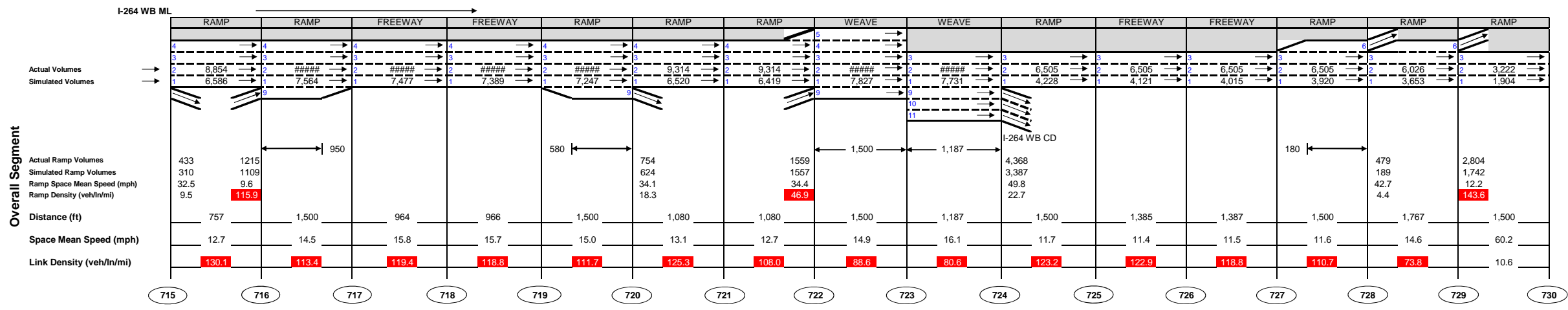
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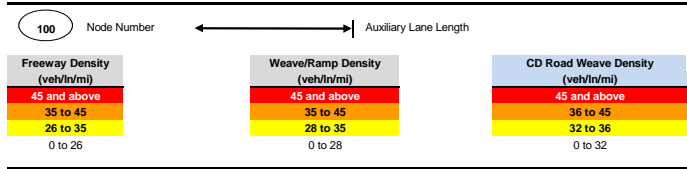
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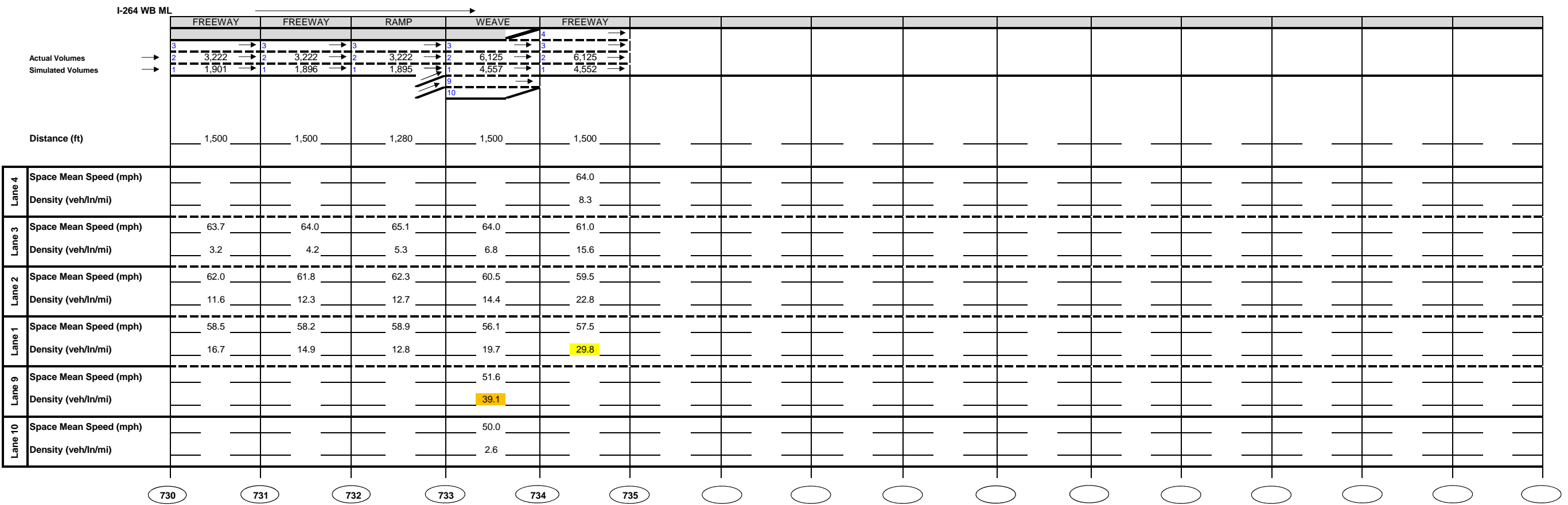
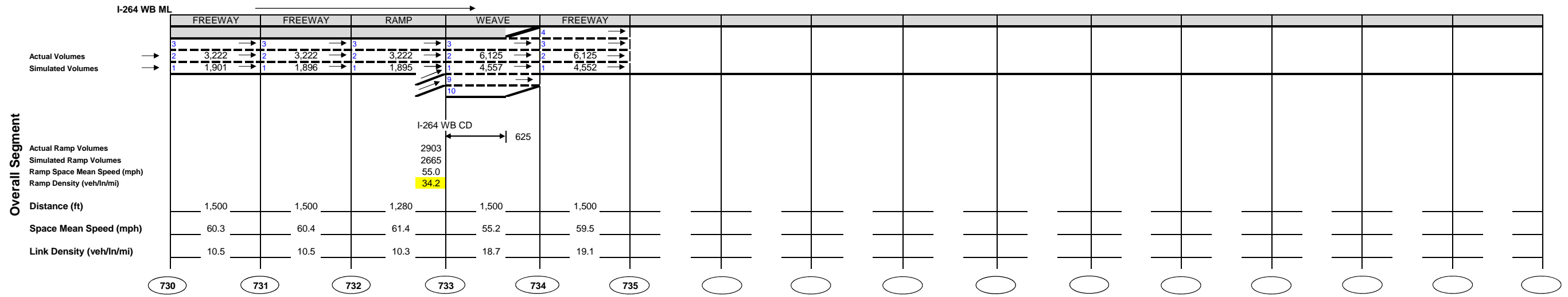


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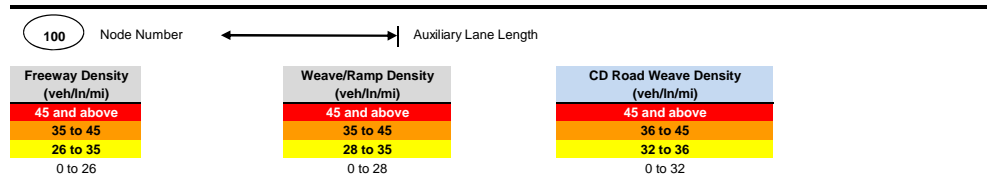


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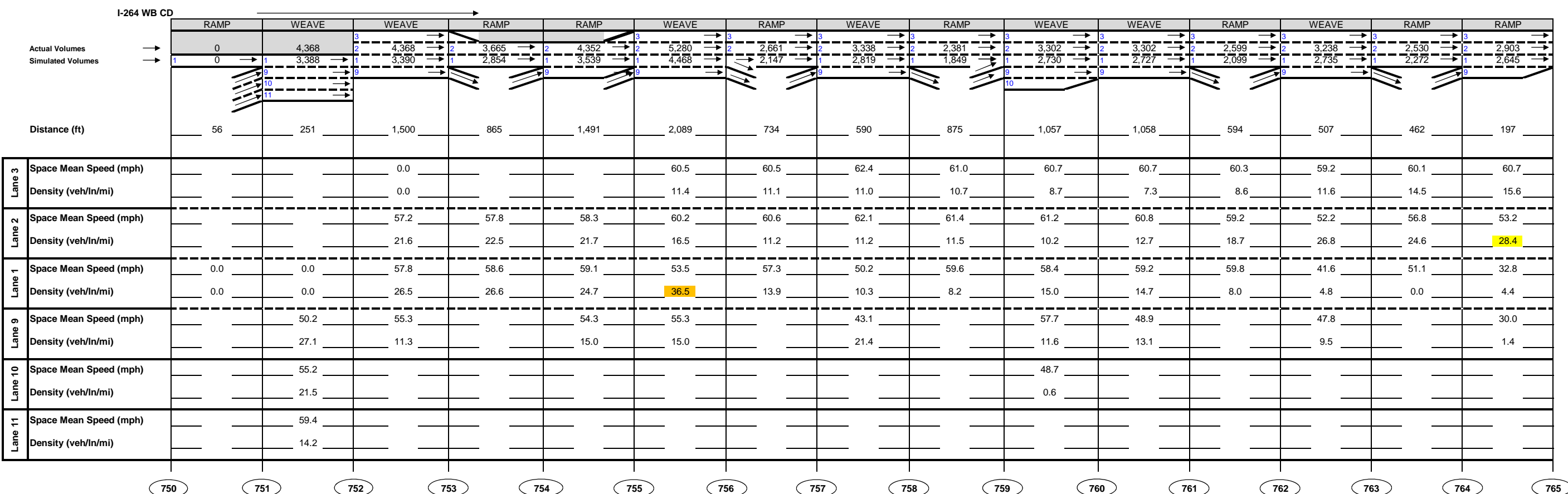
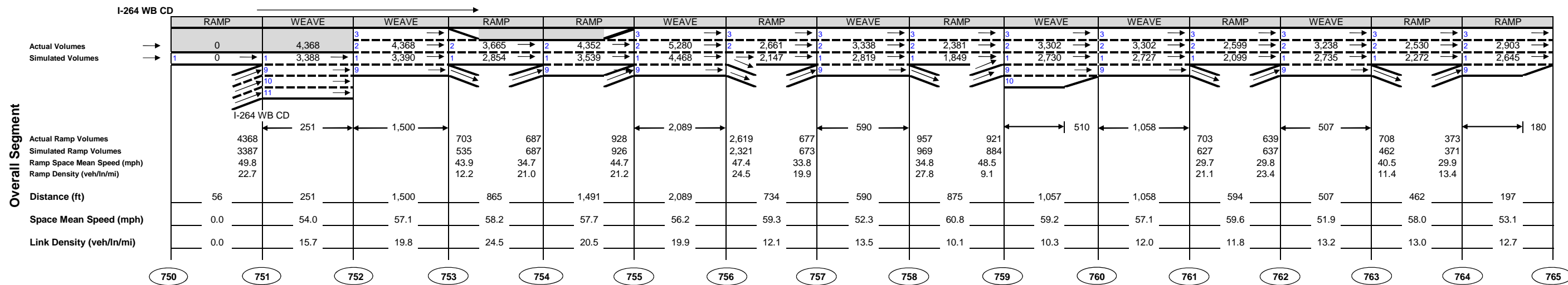
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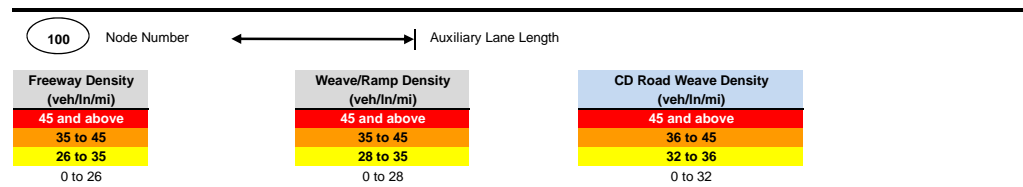
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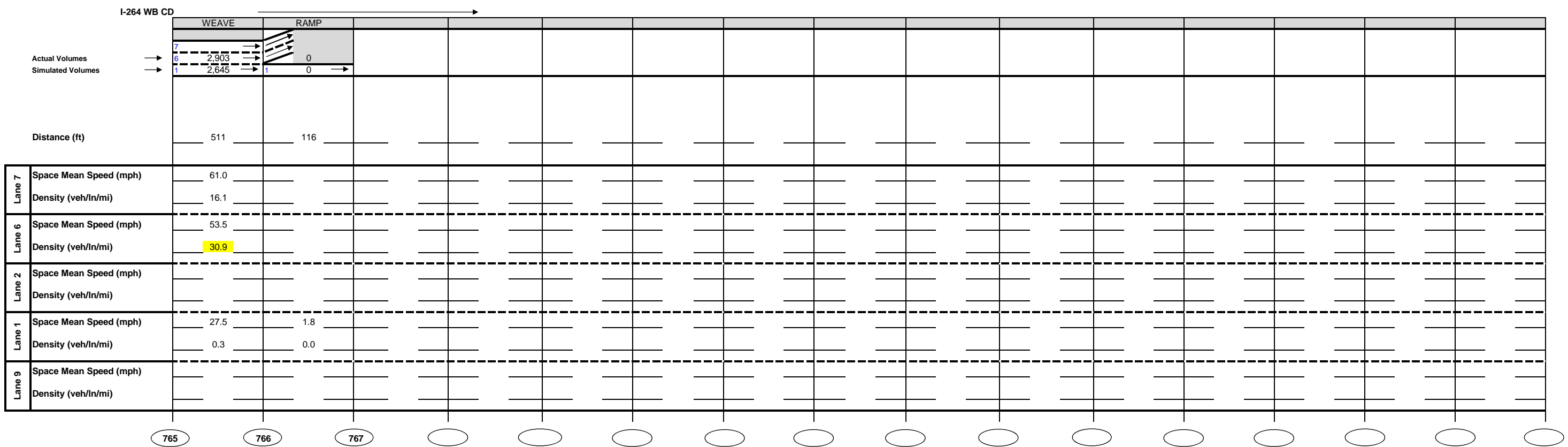
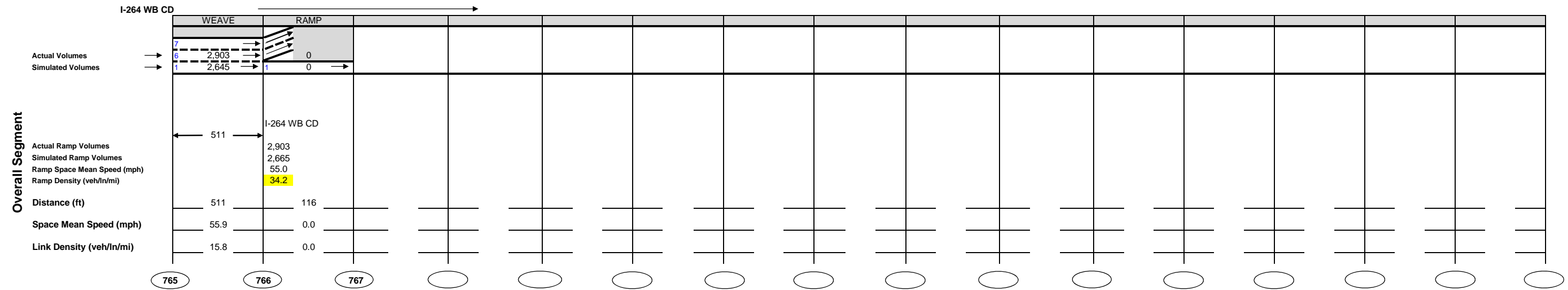


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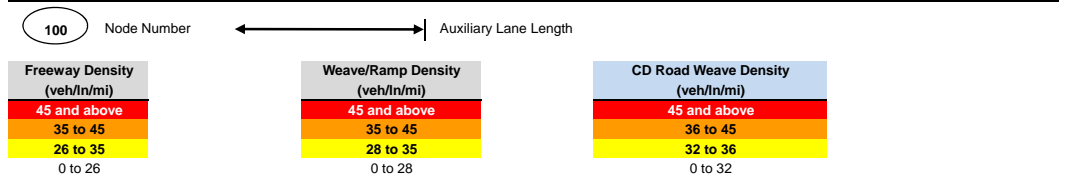


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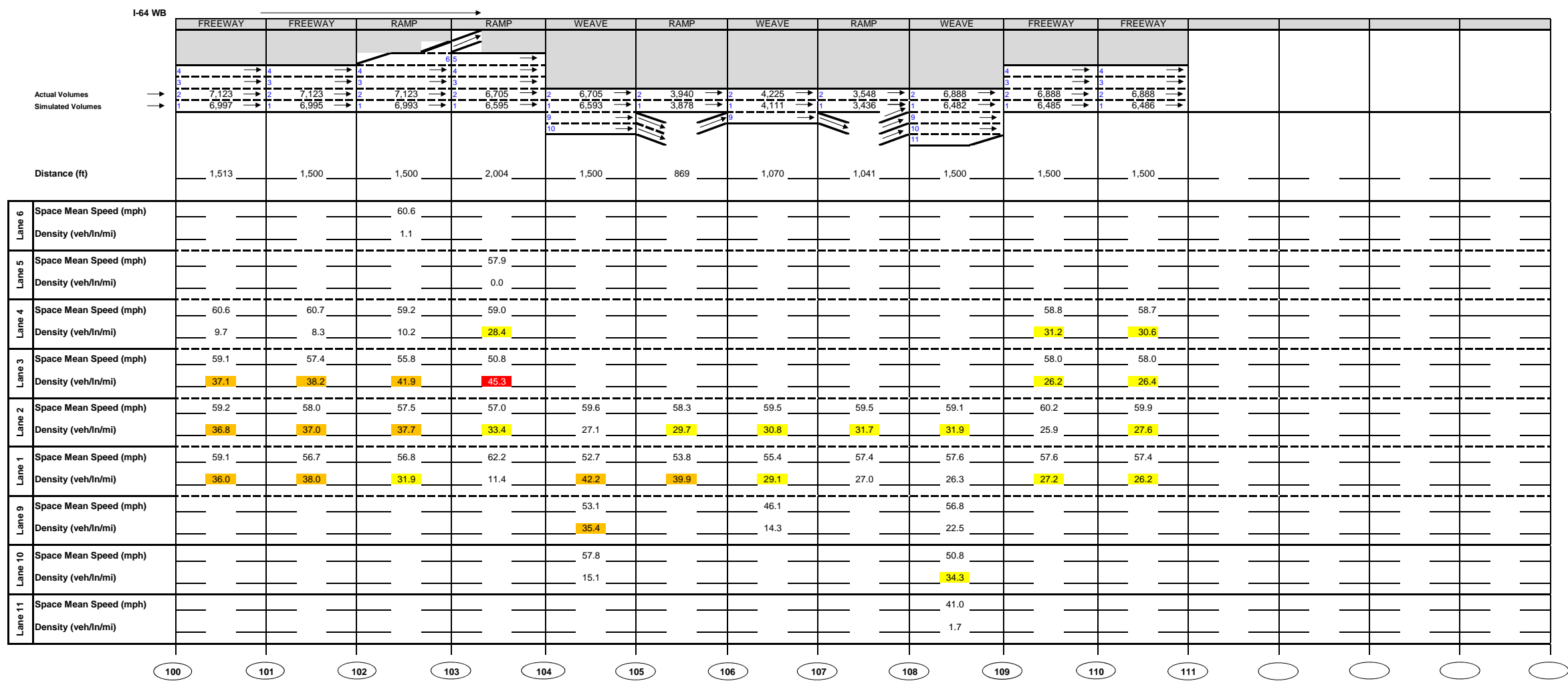
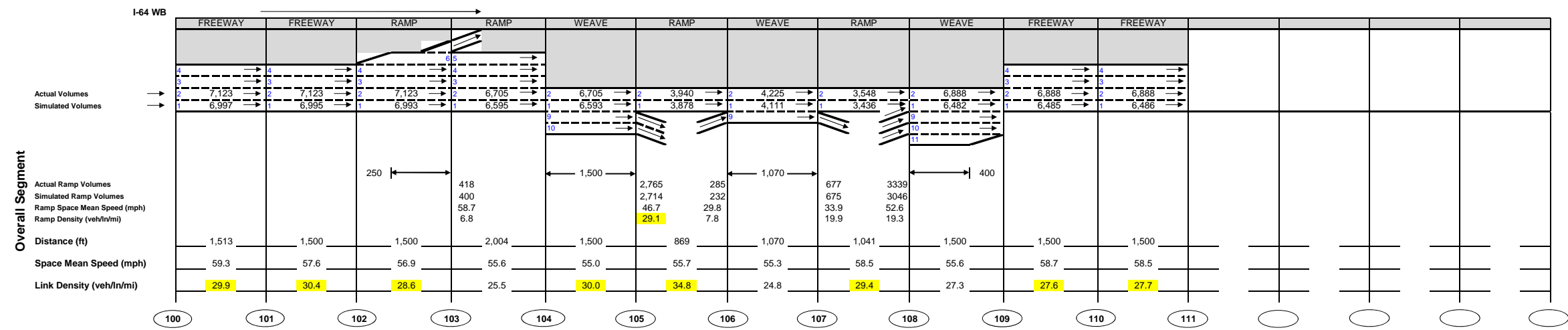
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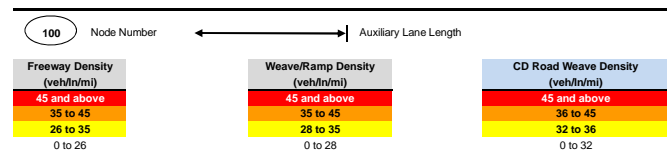
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I-264 EB CD

	RAMP	WEAVE	RAMP	RAMP	WEAVE	RAMP	RAMP	RAMP	RAMP	WEAVE	RAMP	RAMP	WEAVE	RAMP	RAMP			
Actual Volumes	1,421	1,421	1,421	1,092	1,506	1,098	2,224	2,224	1,728	2,400	2,115	2,115	2,862	1,588	1,588			
Simulated Volumes	0	1,412	1,413	1,097	1,508	1,206	2,330	2,329	1,760	2,449	2,217	2,219	2,964	1,444	1,443			
Actual Ramp Volumes	1421	362	100	329	414	500	408	1126	200	225	496	672	400	285	747	1,062	1,274	550
Simulated Ramp Volumes	1412			316	412		303	1124			570	689		232	747		1,521	
Ramp Space Mean Speed (mph)	58.7			41.1	29.8		39.1	24.2			48.2	33.6		43.2	48.2		46.0	
Ramp Density (veh/ln/mi)	12.0			7.7	13.8		7.8	46.5			11.8	20.5		5.4	15.5		33.1	
Distance (ft)	88	362	463	484	500	540	1,008	1,008	1,084	400	499	856	1,062	628	1,099			
Space Mean Speed (mph)	0.0	59.5	58.2	59.8	51.1	57.4	49.6	57.9	59.8	51.6	57.3	59.4	54.4	59.2	53.4			
Link Density (veh/ln/mi)	0.0	7.9	10.9	9.2	9.8	10.5	21.4	18.1	14.7	15.8	19.4	18.7	18.2	12.2	10.8			

I-264 EB CD

	RAMP	WEAVE	RAMP	RAMP	WEAVE	RAMP	RAMP	RAMP	RAMP	WEAVE	RAMP	RAMP	WEAVE	RAMP	RAMP
Actual Volumes	1,421	1,421	1,421	1,092	1,506	1,098	2,224	2,224	1,728	2,400	2,115	2,115	2,862	1,588	1,588
Simulated Volumes	0	1,412	1,413	1,097	1,508	1,206	2,330	2,329	1,760	2,449	2,217	2,219	2,964	1,444	1,443
Distance (ft)	88	362	463	484	500	540	1,008	1,008	1,084	400	499	856	1,062	628	1,099
Lane 3															
Space Mean Speed (mph)			0.0												
Density (veh/ln/mi)			0.0												
Lane 2															
Space Mean Speed (mph)			59.7	59.8	56.7	58.6	57.2	60.0	60.0	57.5	58.3	59.8	60.6	61.5	61.2
Density (veh/ln/mi)			12.3	12.2	14.8	15.1	18.2	16.9	16.7	19.0	19.8	18.1	9.3	6.3	5.8
Lane 1															
Space Mean Speed (mph)	0.0	23.9	57.9	59.7	43.9	54.4	46.0	57.3	59.7	48.2	56.2	59.0	57.2	58.4	58.0
Density (veh/ln/mi)	0.0	0.0	10.4	6.2	8.4	5.9	27.2	20.7	12.7	22.4	18.9	19.3	17.3	18.1	11.0
Lane 9															
Space Mean Speed (mph)			59.4	48.3		47.8		23.6	49.6		45.7			50.6	44.1
Density (veh/ln/mi)			13.8	1.6		6.3		1.5	2.6		6.1			27.9	10.3
Lane 10															
Space Mean Speed (mph)			59.6												
Density (veh/ln/mi)			9.9												

NOTE: numbers in chart are provided for illustrative purposes only

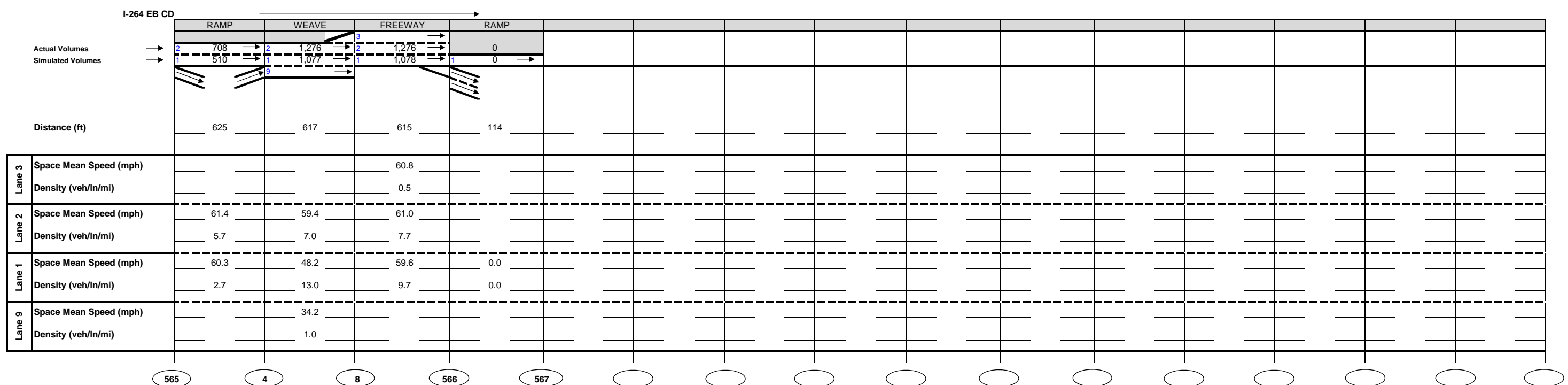
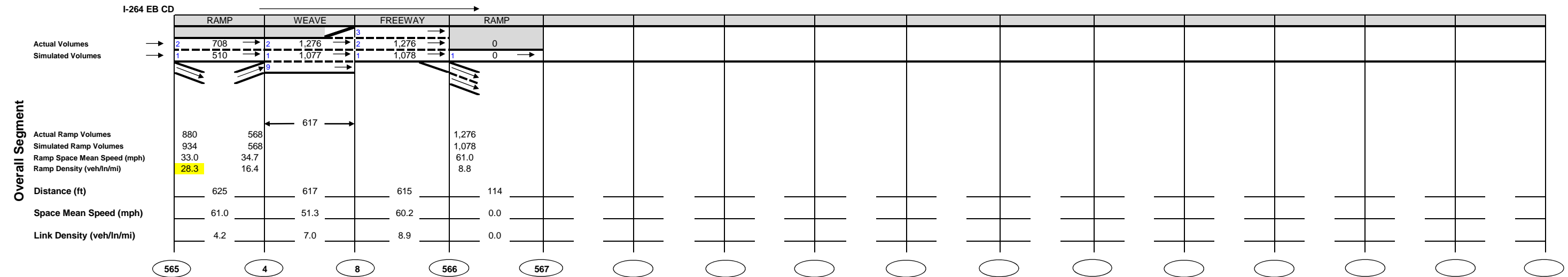
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100 Node Number Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

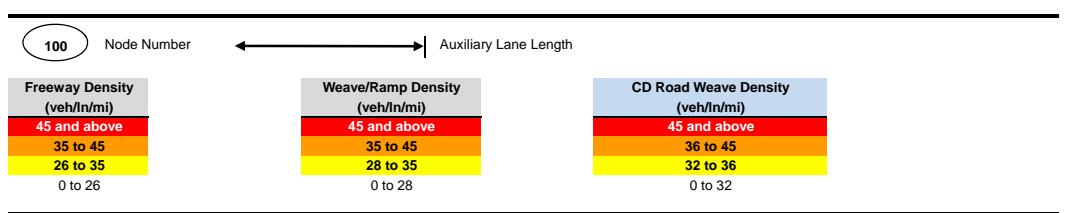
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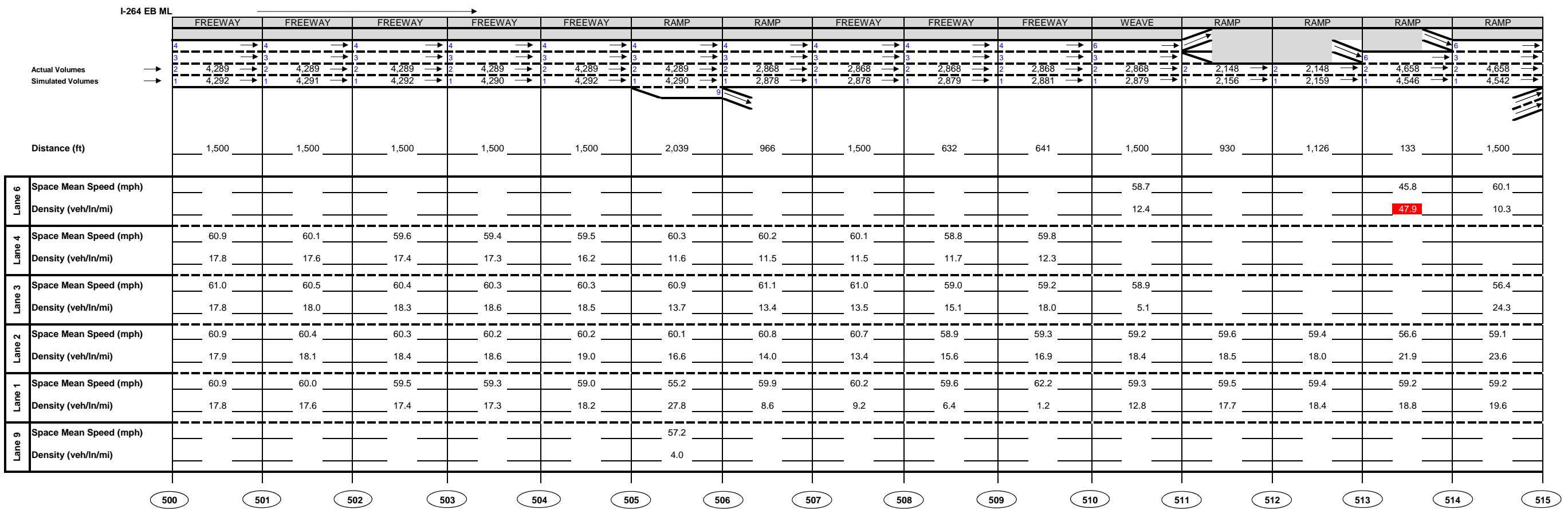
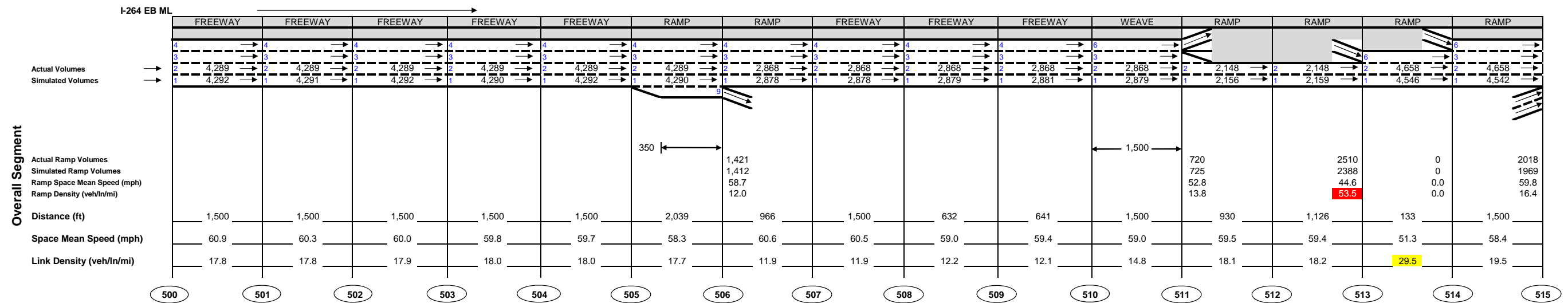
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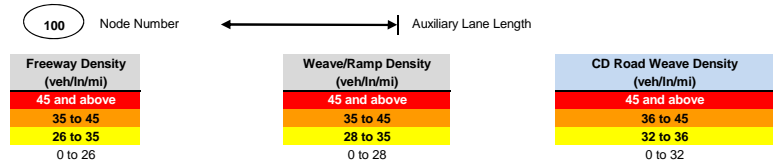
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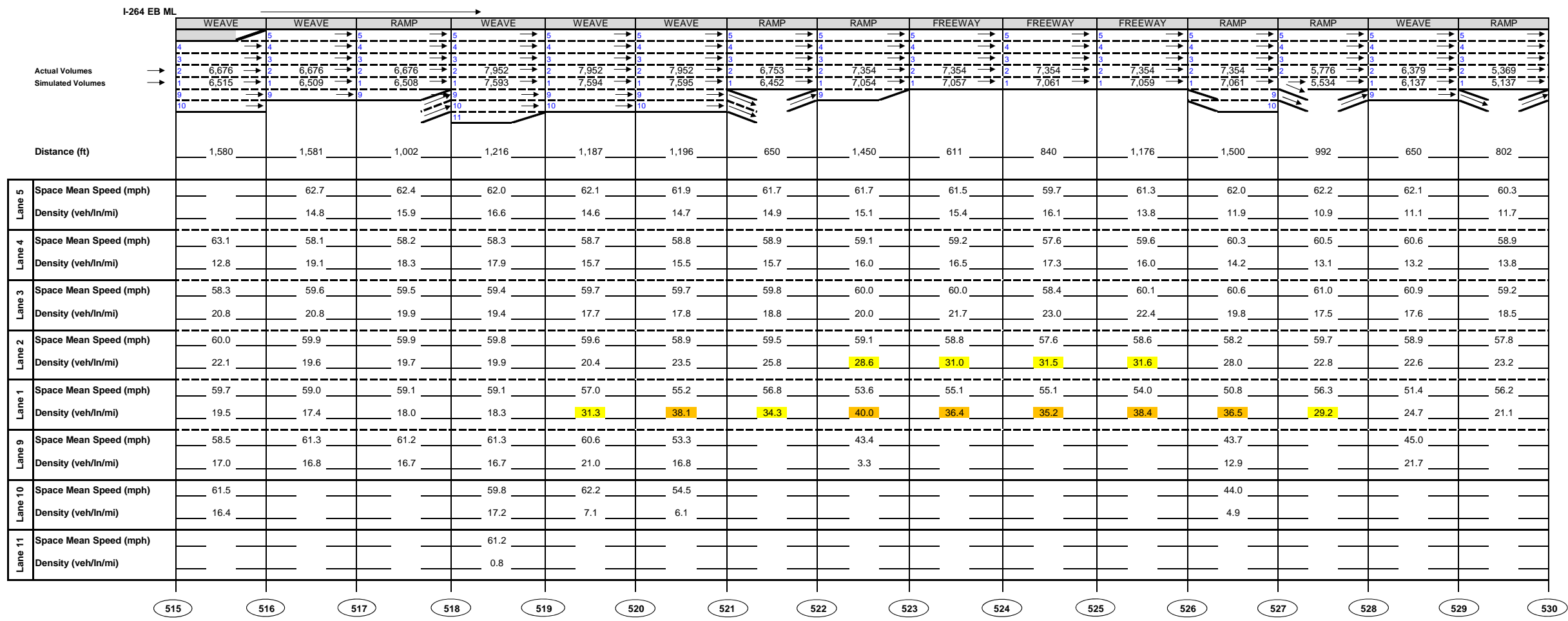
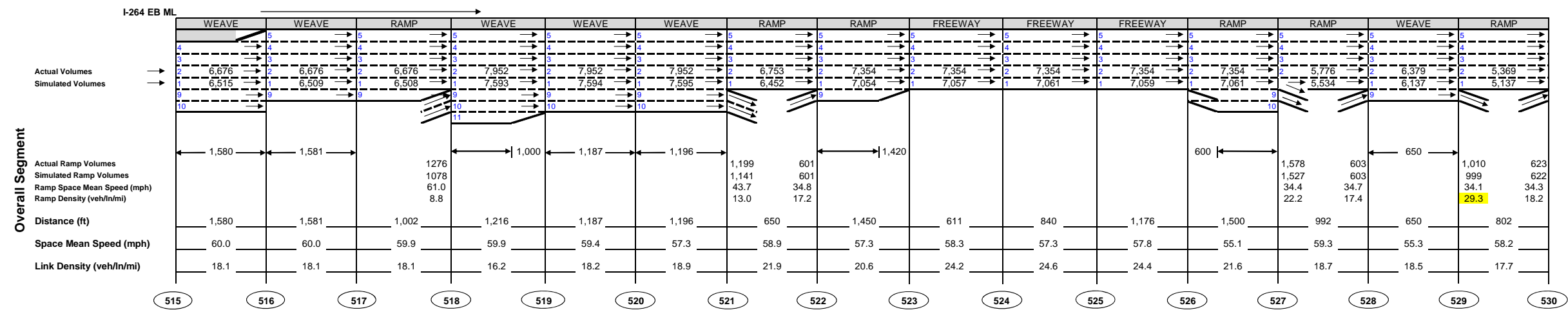


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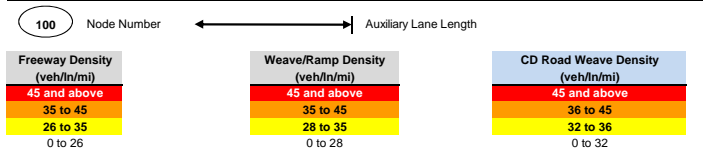


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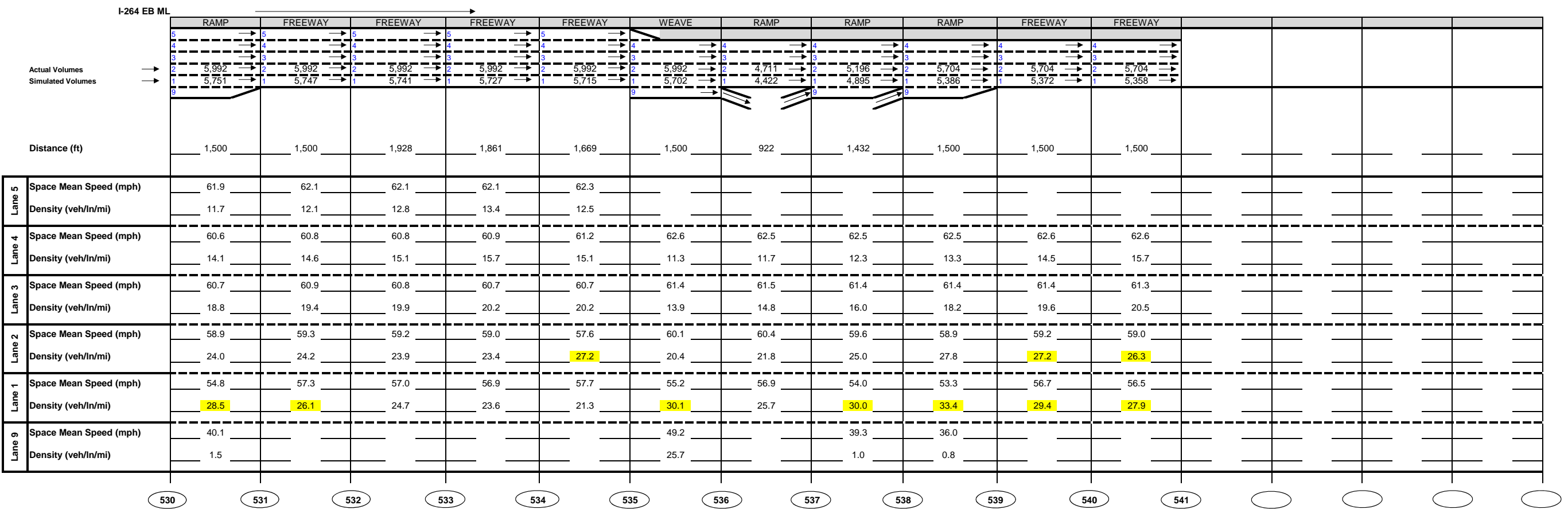
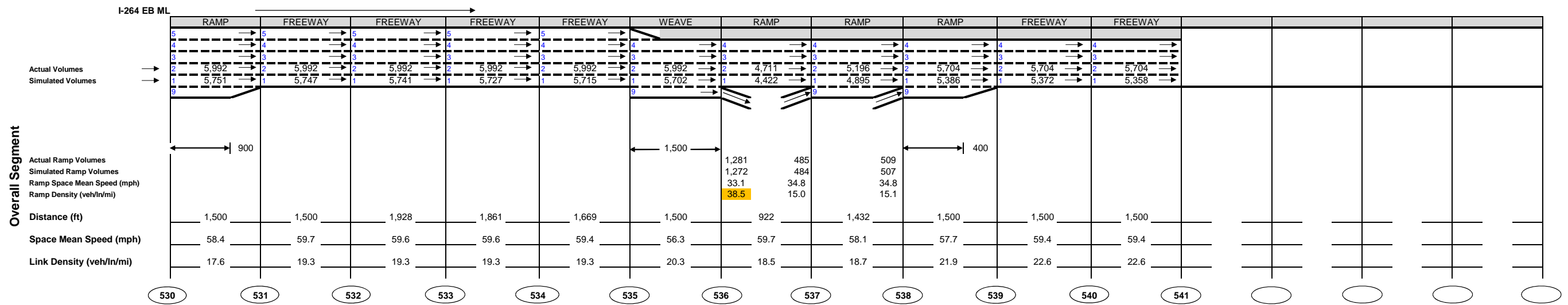
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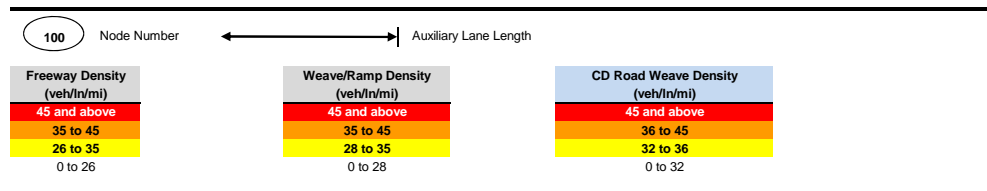
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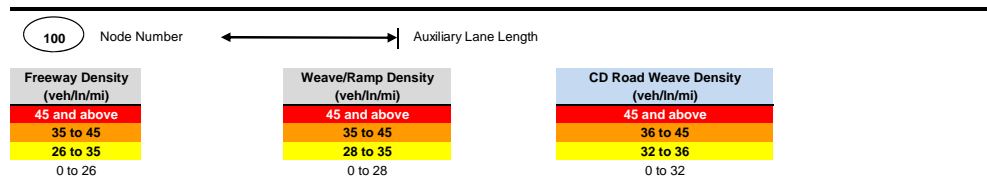
This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).

		I-64 EB													
		FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	WEAVE	RAMP	WEAVE	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	
		4	3	2	1	4	3	2	1	3	2	1	3	2	1
Actual Volumes	→	6,935	6,935	6,935	6,935	6,935	6,935	3,504	4,461	3,789	7,089	7,089	7,089	7,089	
Simulated Volumes	→	6,930	6,934	6,923	6,871	6,785	6,745	3,472	4,439	3,752	6,046	6,046	6,045	6,044	
Actual Ramp Volumes							1,200	3,431	957	1,330	672	3,300	550		
Simulated Ramp Volumes								3,275	969		689	2,288			
Ramp Space Mean Speed (mph)								13.4	33.2		33.9	32.5			
Ramp Density (veh/ln/mi)								122.5	29.2		20.3	70.4			
Distance (ft)		1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)		59.9	58.3	49.8	30.8	20.0	21.6	57.7	55.4	58.2	47.1	57.4	57.4	57.3	
Link Density (veh/ln/mi)		29.3	29.7	37.1	64.9	90.2	65.5	20.0	20.0	21.5	38.1	35.1	35.2	35.2	
		300	301	302	303	304	305	306	307	308	309	310	311	312	313

		I-64 EB													
		FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	WEAVE	RAMP	WEAVE	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	
		4	3	2	1	4	3	2	1	3	2	1	3	2	1
Actual Volumes	→	6,935	6,935	6,935	6,935	6,935	6,935	3,504	4,461	3,789	7,089	7,089	7,089	7,089	
Simulated Volumes	→	6,930	6,934	6,923	6,871	6,785	6,745	3,472	4,439	3,752	6,046	6,046	6,045	6,044	
Distance (ft)		1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 4															
Space Mean Speed (mph)		59.9	58.4	56.7	49.1	41.4									
Density (veh/ln/mi)		29.3	29.6	30.7	40.1	48.7									
Lane 3															
Space Mean Speed (mph)		59.9	58.8	55.4	41.4	27.7	52.2	58.3	58.9	58.8	57.4	58.1	57.9	57.7	
Density (veh/ln/mi)		29.3	29.6	32.7	50.1	72.1	32.4	26.6	23.8	23.9	28.4	32.5	33.9	34.7	
Lane 2															
Space Mean Speed (mph)		59.9	58.7	50.1	27.8	15.4	39.1	57.7	58.9	59.0	53.1	57.8	57.7	57.7	
Density (veh/ln/mi)		29.4	29.7	38.6	75.7	109.9	35.4	21.1	22.3	24.4	36.8	36.3	35.9	35.6	
Lane 1															
Space Mean Speed (mph)		59.9	57.5	43.0	20.3	11.7	18.6	56.6	53.9	56.4	39.5	56.5	56.4	56.6	
Density (veh/ln/mi)		29.3	29.9	46.4	93.5	130.0	56.4	12.4	19.2	16.1	57.6	36.4	35.6	35.1	
Lane 9															
Space Mean Speed (mph)							9.4		46.3		33.9				
Density (veh/ln/mi)							144.5		14.9		5.5				
Lane 10															
Space Mean Speed (mph)							28.0								
Density (veh/ln/mi)							45.7								
		300	301	302	303	304	305	306	307	308	309	310	311	312	313

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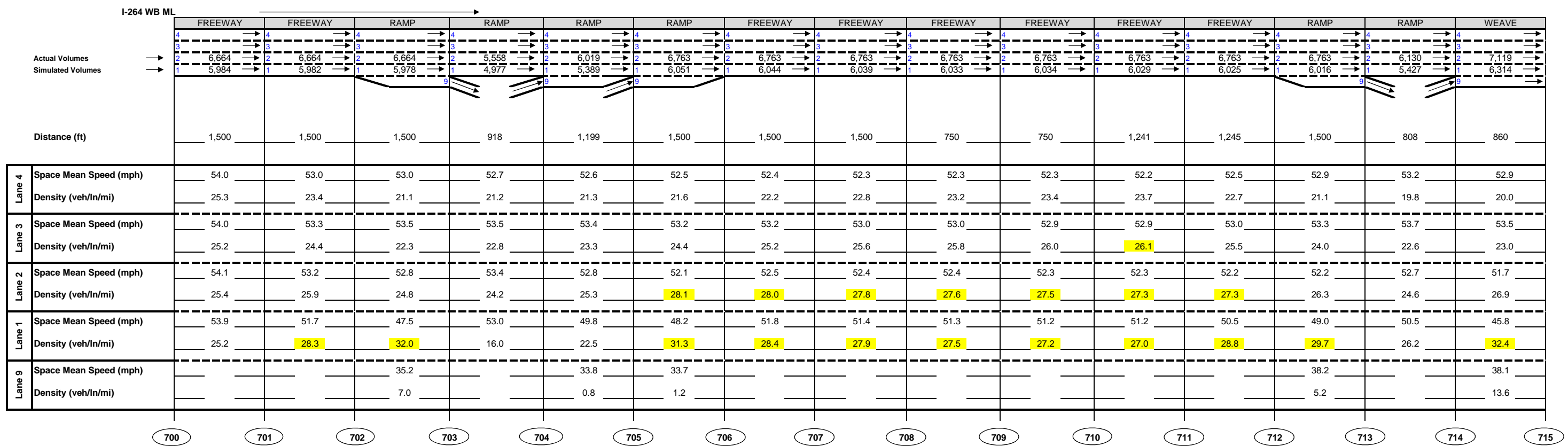
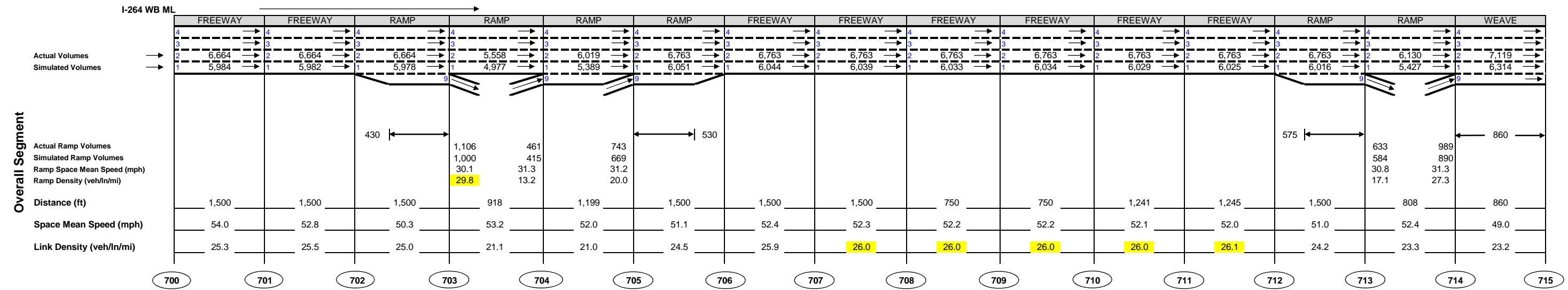


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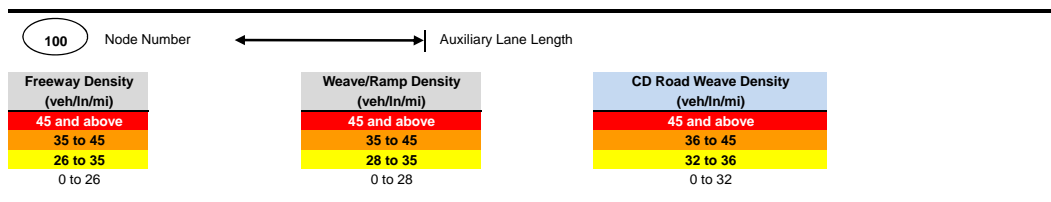
AM No Build Alternative - Link Descriptions

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	17.9	B	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	19.5	C
EB I-264 ML to EB I-264 CD (Diverge)	505,506	17.7	B	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	19.9	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	10.9	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	10.8	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	9.8	A	EB I-264 CD to EB I-264 ML (Merge)	517,518	18.1	B
NB Military Hwy to EB I-264 CD (Merge)	556,557	21.4	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	18.9	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	11.9	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	80.6	F
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.5	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	19.9	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.3	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	19.8	B
WB I-264 CD to NB Military Hwy (Diverge)	760,761	12.0	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	20.5	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	13.2	B	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	118.8	F
SB Military Hwy to WB I-264 CD (Merge)	764,765	12.7	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	18.7	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	18.9	C
WB I-264 West of Military Hwy (Freeway)	734,735	19.1	C	EB I-264 to NB/SB Witchduck (Diverge)	521,522	21.9	C
I-64/I-264 Interchange				NB/SB Witchduck Rd & I-264 EB (Merge)	522,523	20.6	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	11.9	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	24.4	C
EB I-264 ML to WB I-64 (Diverge)	510,511	14.8	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	118.8	F
EB I-264 CD to EB I-64 (Diverge)	557,558	18.1	B	WB I-264 to Witchduck Rd (Diverge)	719,720	111.7	F
EB/WB I-64 & EB I-264 CD (Weave)	559,560	15.8	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	80.6	F
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	18.7	B	Independence Boulevard Interchange			
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	19.5	C	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	24.4	C
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	118.8	F	EB I-264 to SB Independence Blvd (Diverge)	526,527	21.6	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	110.7	F	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	18.5	B
WB I-264 ML to EB I-64 (Diverge)	728,729	73.8	F	NB Independence Blvd to EB I-264 (Merge)	530,531	17.6	B
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	19.9	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	19.3	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	13.5	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	86.4	F
EB I-64 to EB/WB I-264 (Diverge)	305,306	65.5	F	WB I-264 to NB Independence Blvd (Diverge)	712,713	85.9	F
EB I-64 to WB I-264 CD (Merge)	759,760	10.3	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	104.6	F
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.5	A	SB Independence Blvd to WB I-264 (Merge)	716,717	113.4	F
EB I-64 North of I-264 (Freeway)	301,302	29.7	D	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	118.8	F
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	20.0	C	Rosemont Road Interchange			
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	38.1	E	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	19.3	C
EB I-64 South of I-264 (Freeway)	312,313	35.2	E	EB I-264 to Rosemont Rd (Diverge)	535,536	20.3	C
WB I-64 South of I-264 (Freeway)	101,102	30.4	D	SB Rosemont Rd to EB I-264 (Merge)	537,538	18.7	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	28.6	D	NB Rosemont Rd to EB I-264 (Merge)	538,539	21.9	C
WB I-64 to I-264 EB (Diverge)	104,105	30.0	D	EB I-264 East of Rosemont Rd (Freeway)	540,541	22.6	C
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	24.8	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	34.6	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	27.3	C	WB I-264 to Rosemont Rd (Diverge)	702,703	37.5	E
WB I-64 North of I-264 (Freeway)	110,111	27.7	D	NB Rosemont Rd to WB I-264 (Merge)	704,705	55.5	F
				SB Rosemont Rd to WB I-264 (Merge)	705,706	72.8	F
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	86.4	F



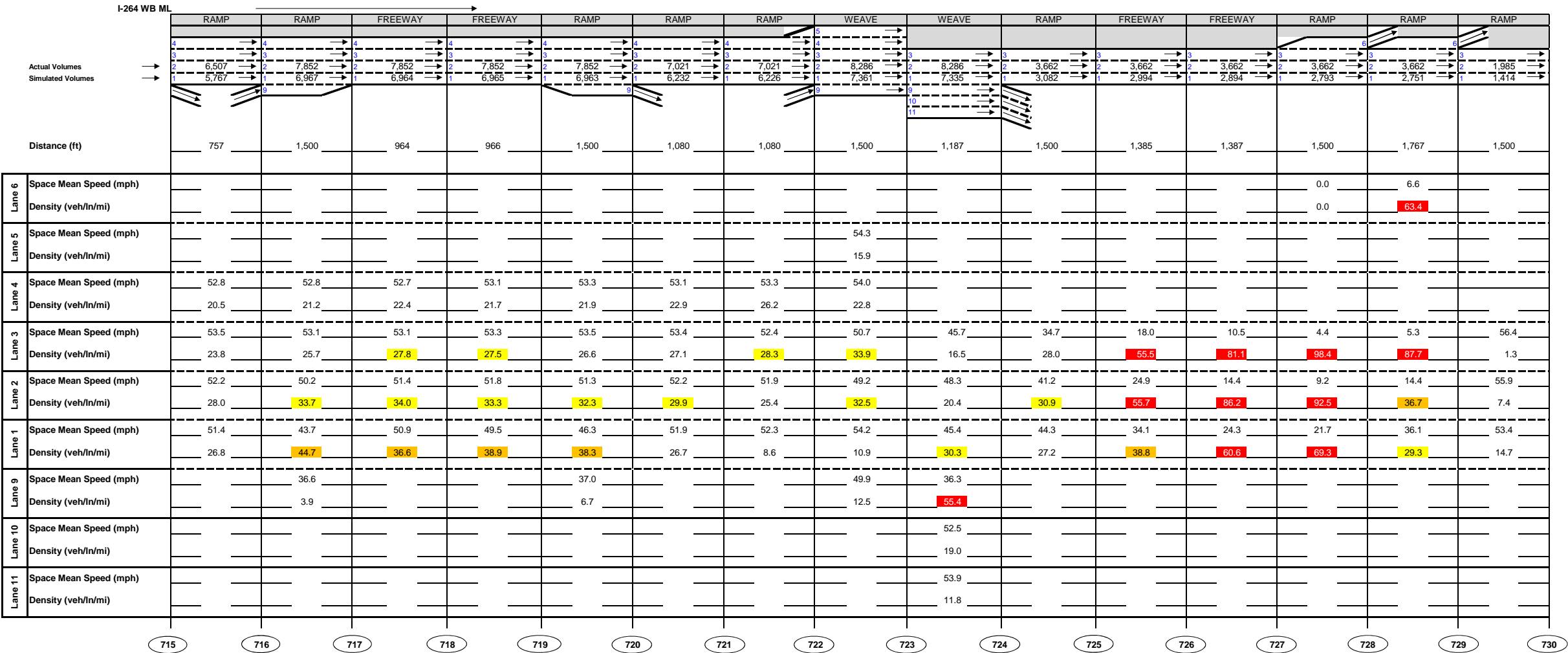
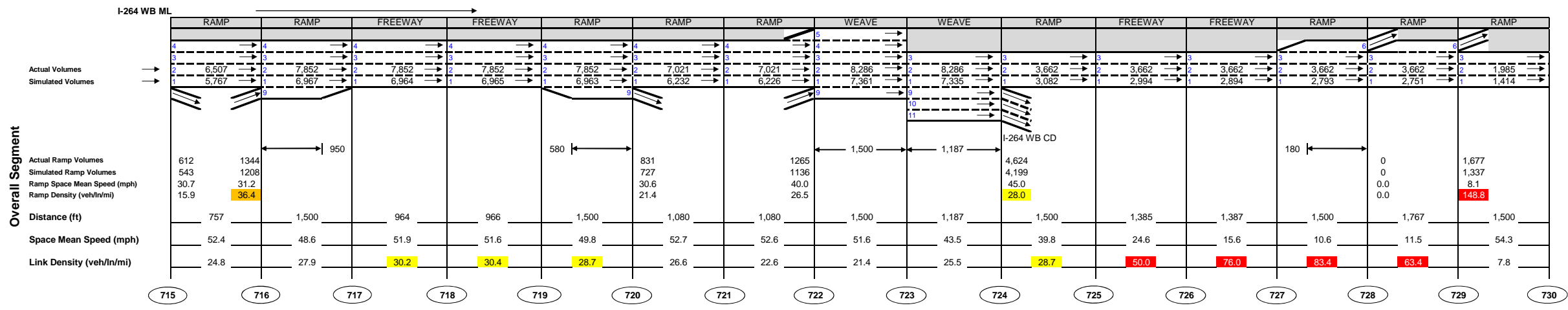
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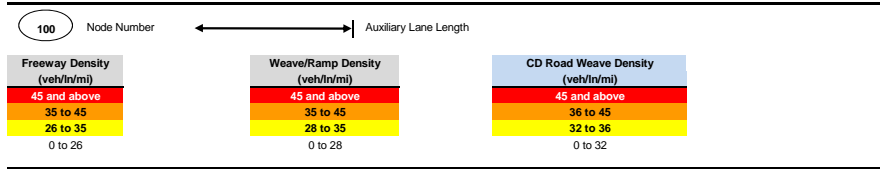
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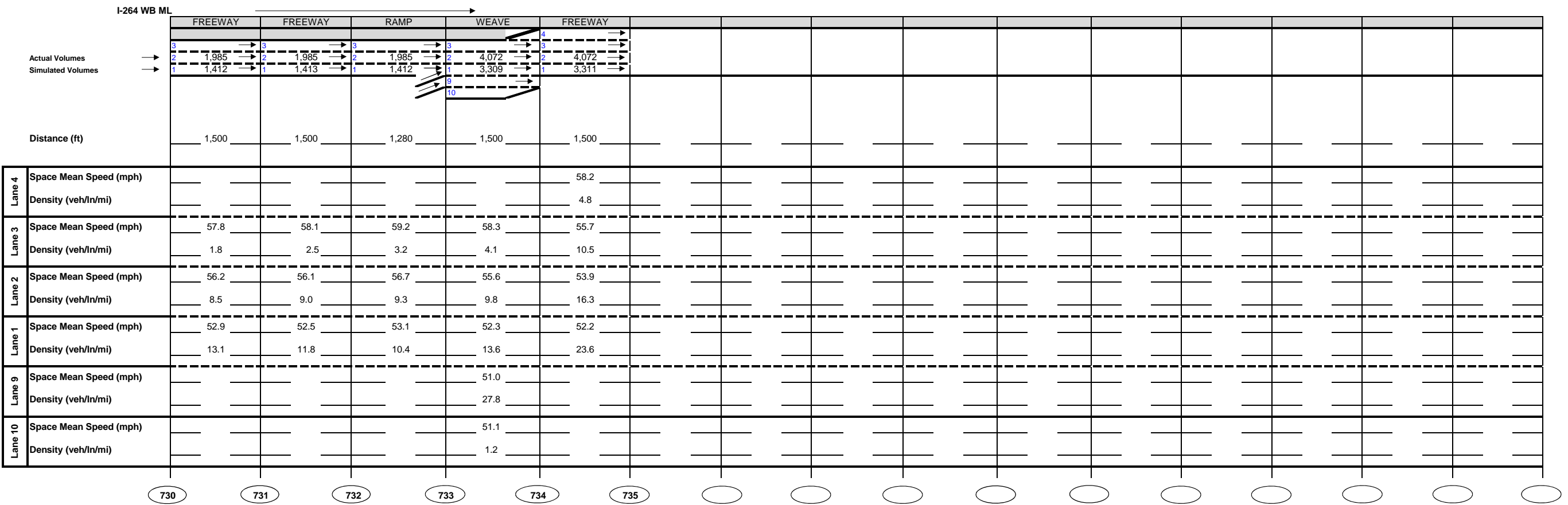
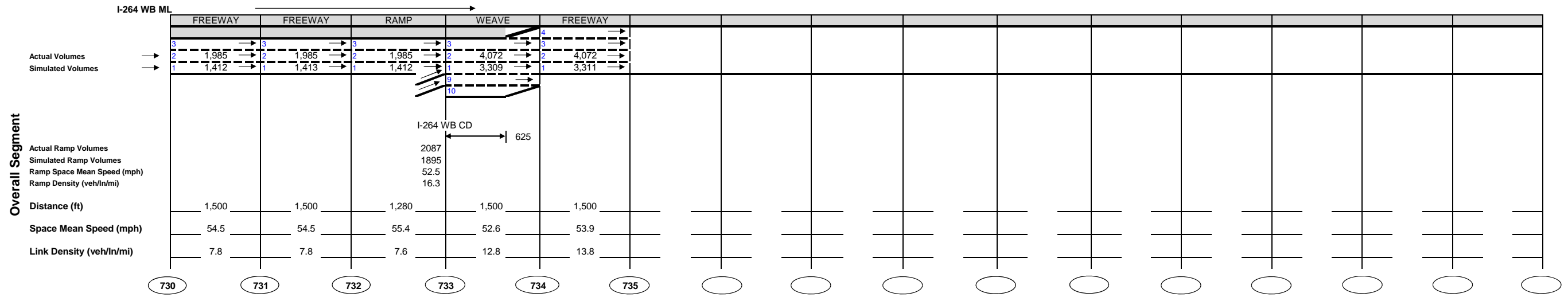


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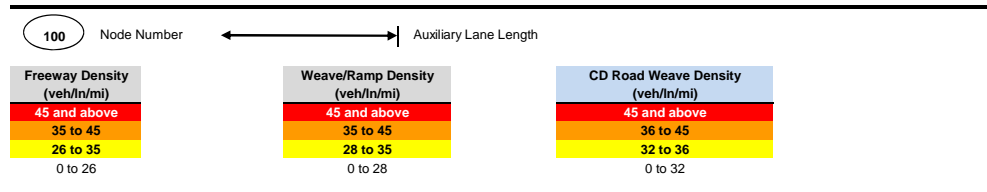


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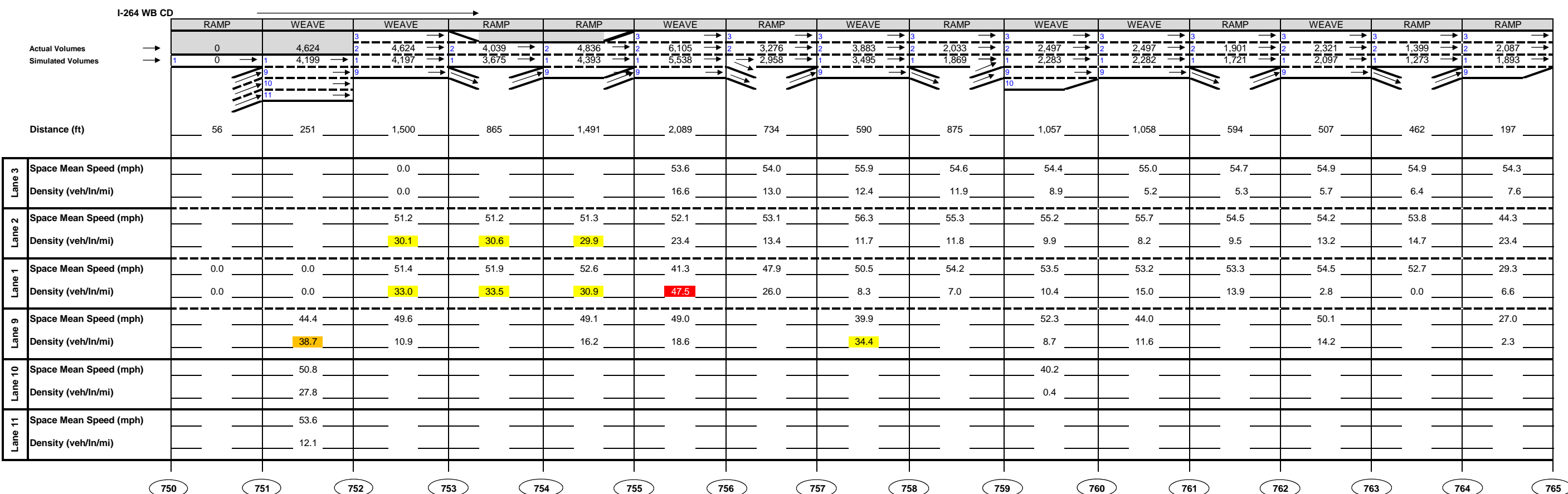
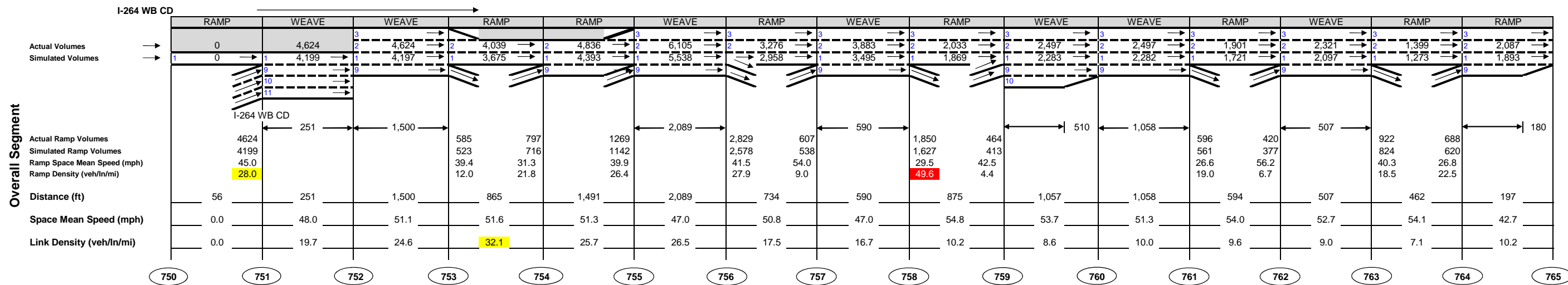
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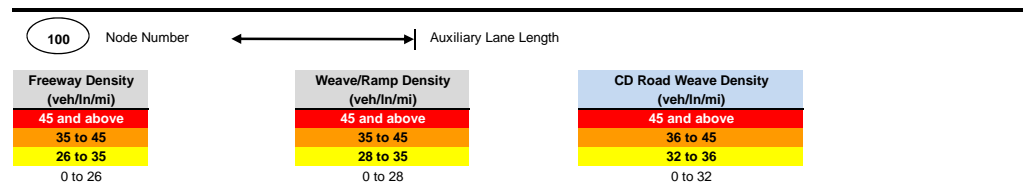
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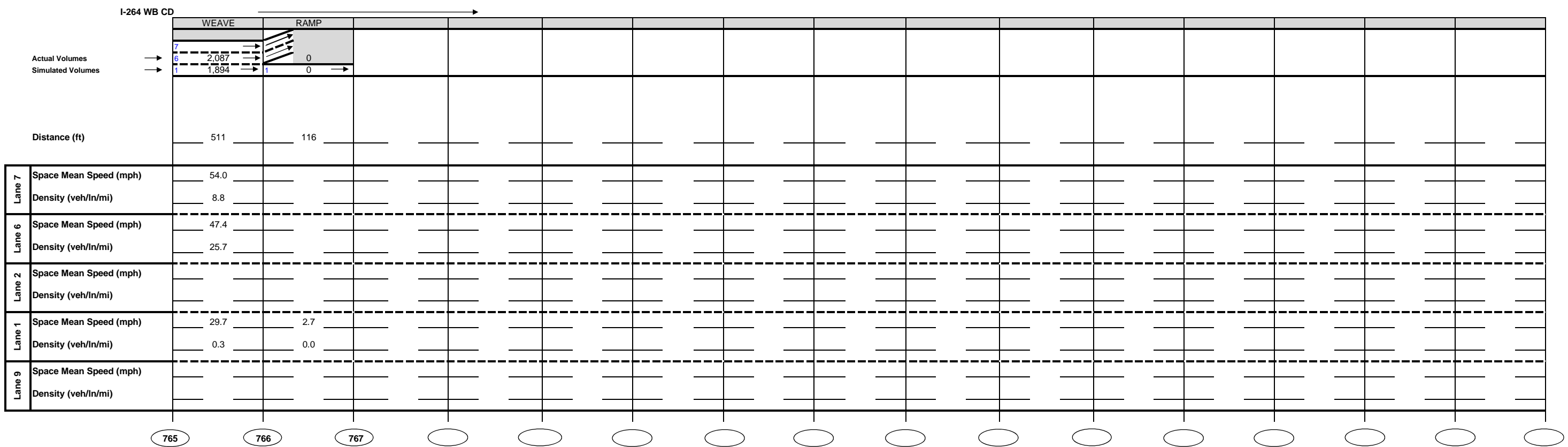
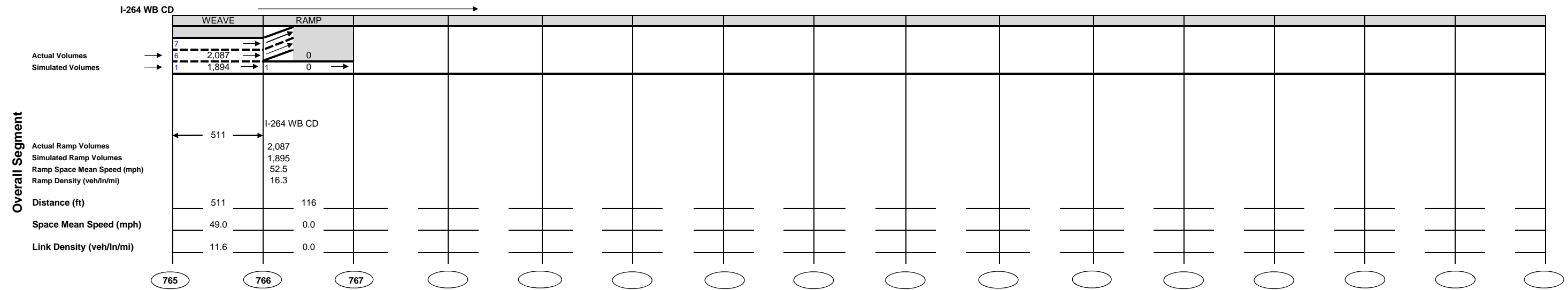


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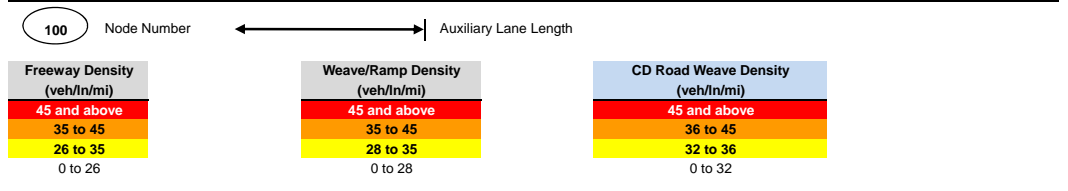


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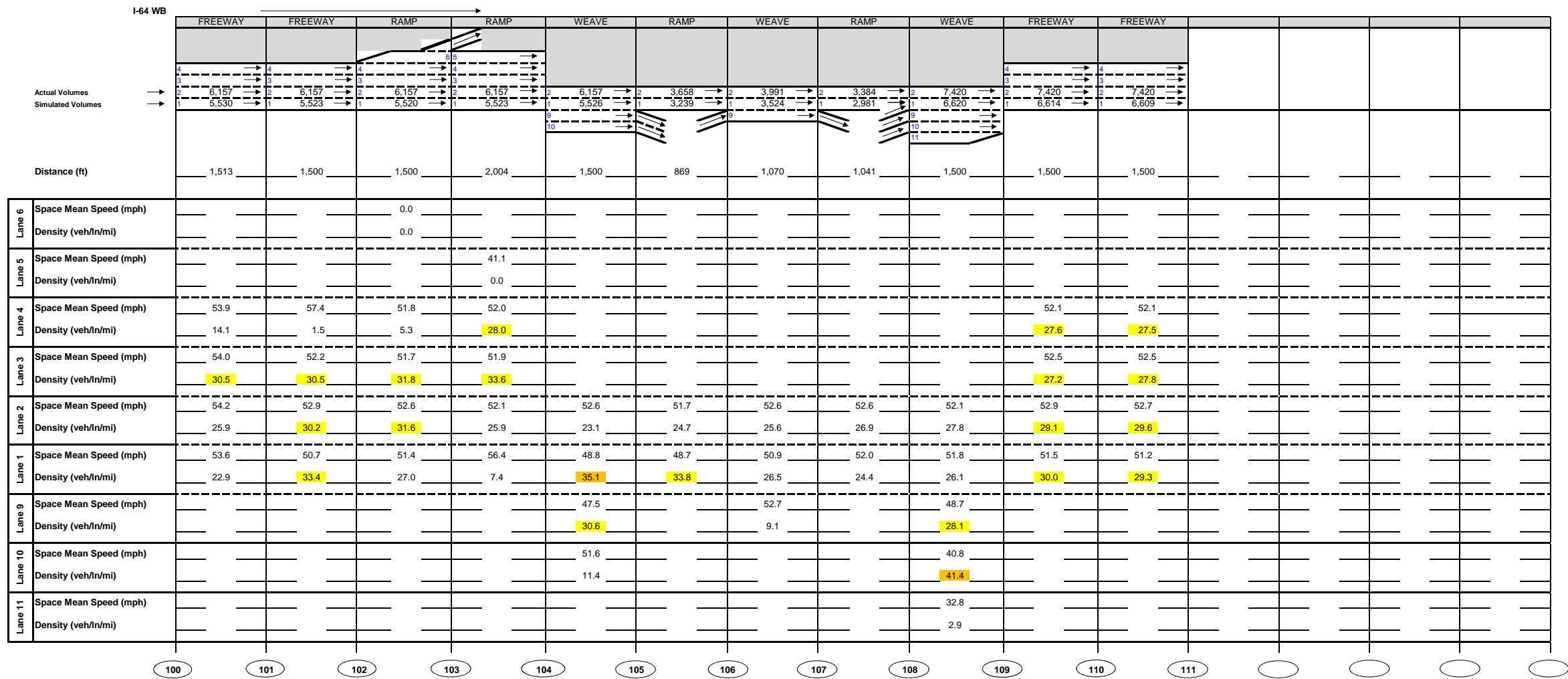
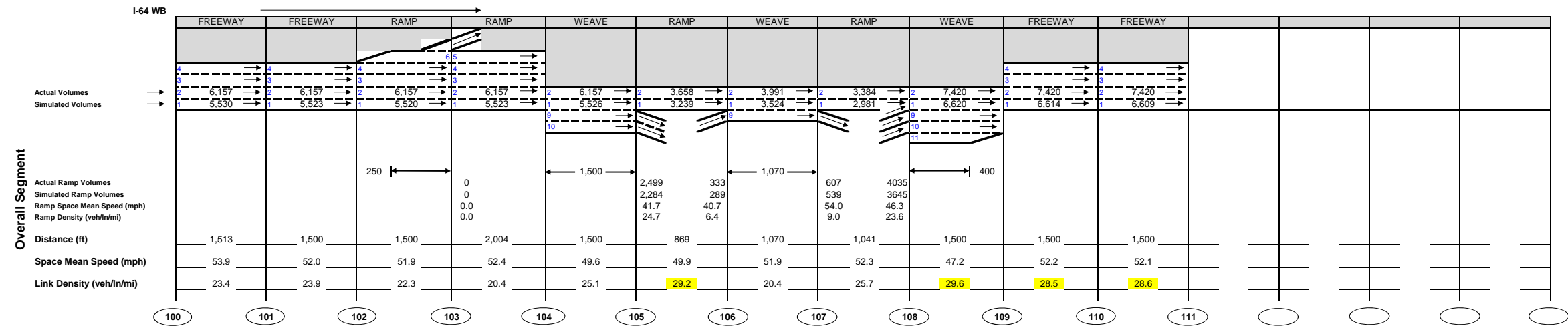
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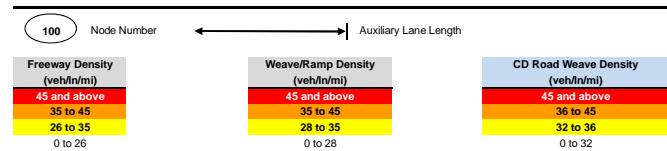
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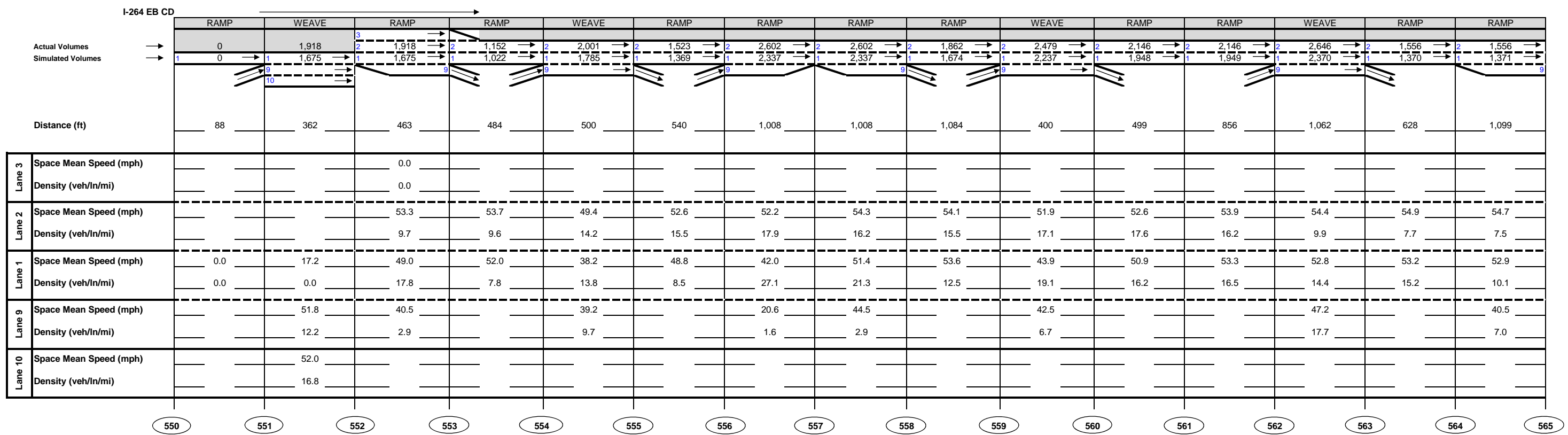
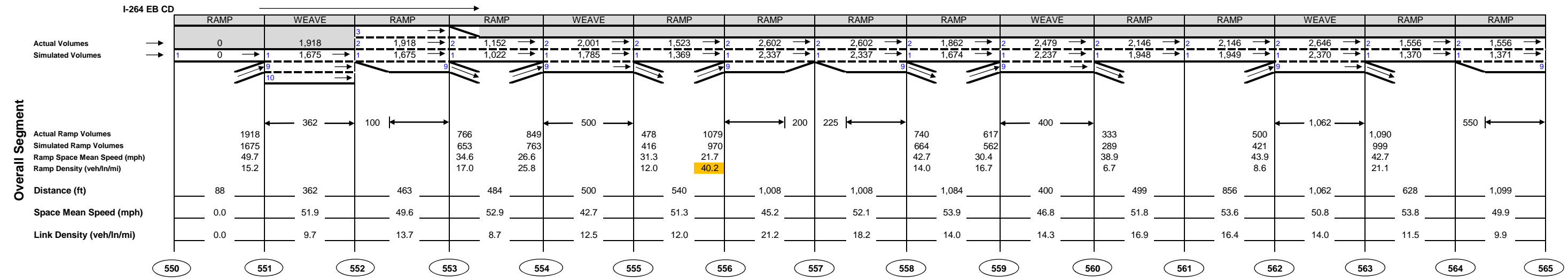


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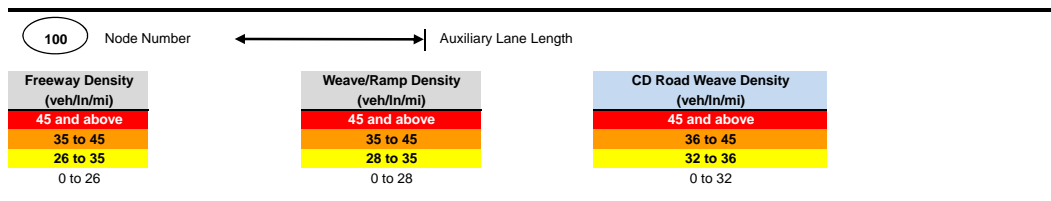


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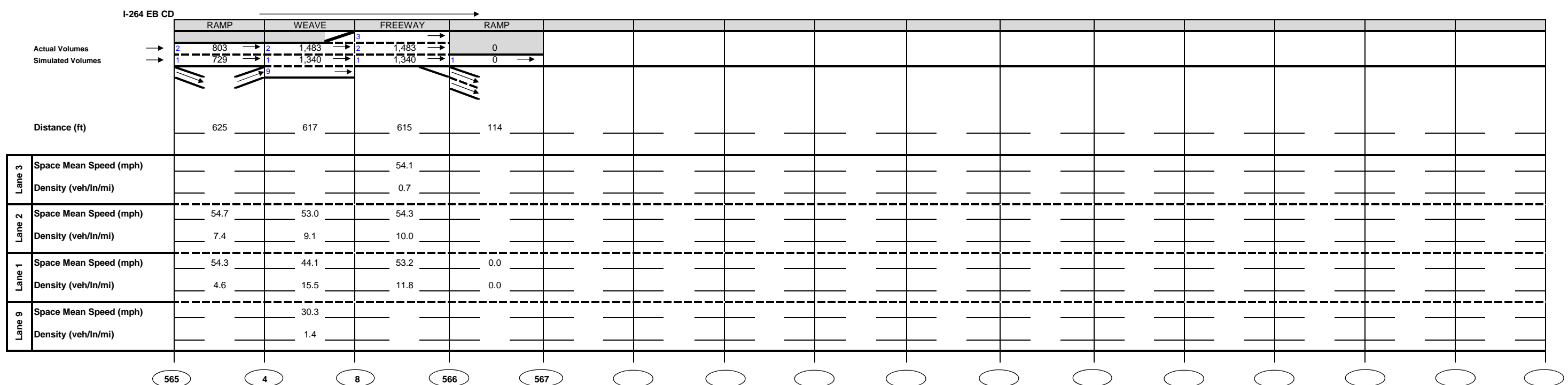
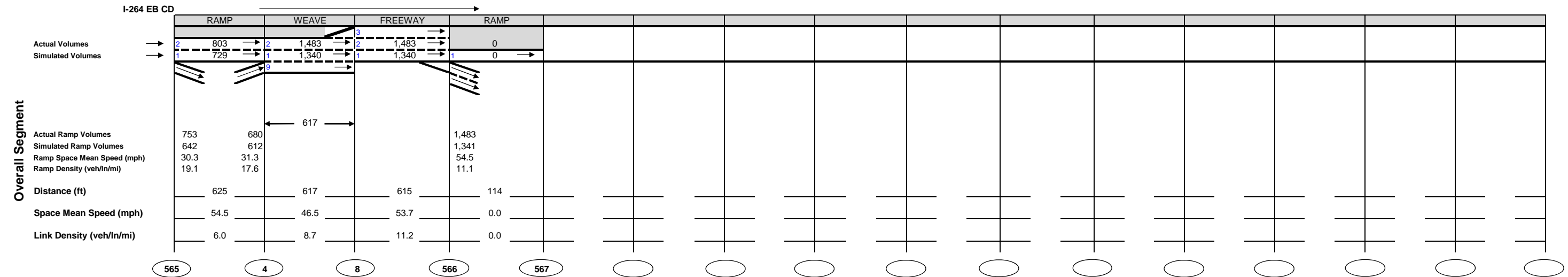
NOTE: numbers in chart are provided for illustrative purposes only

LEGEND



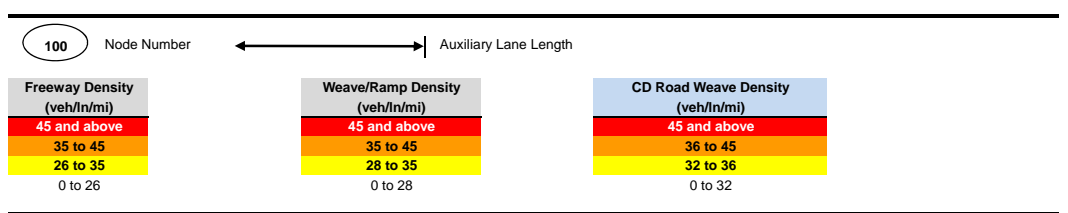
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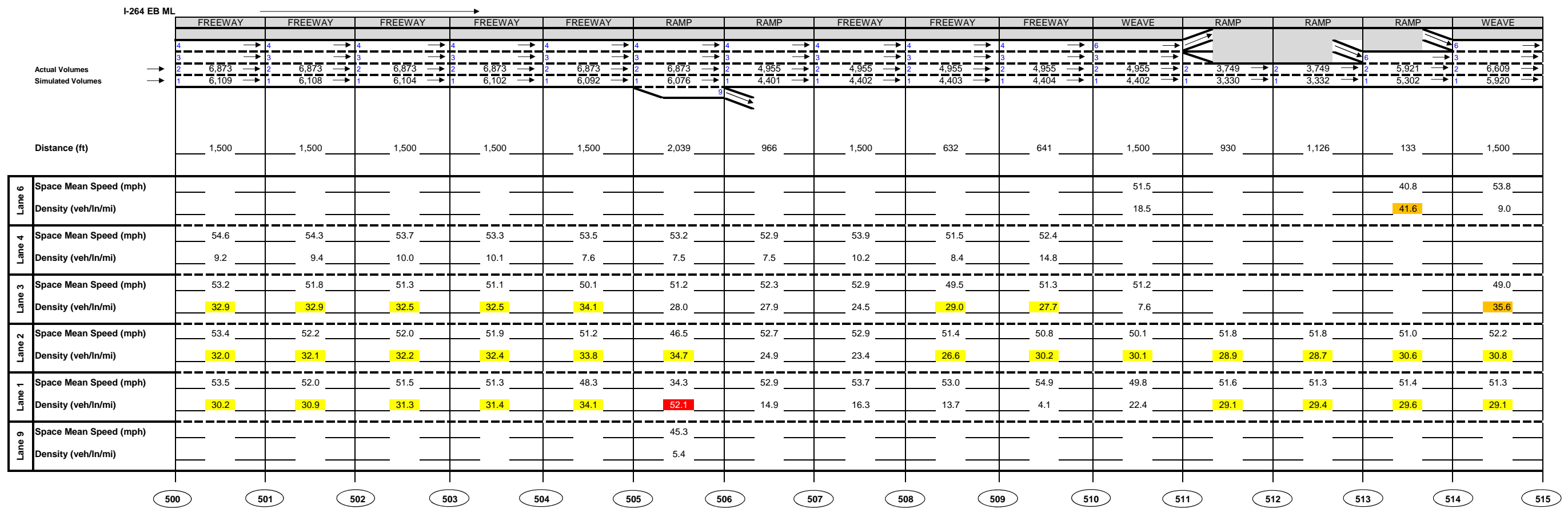
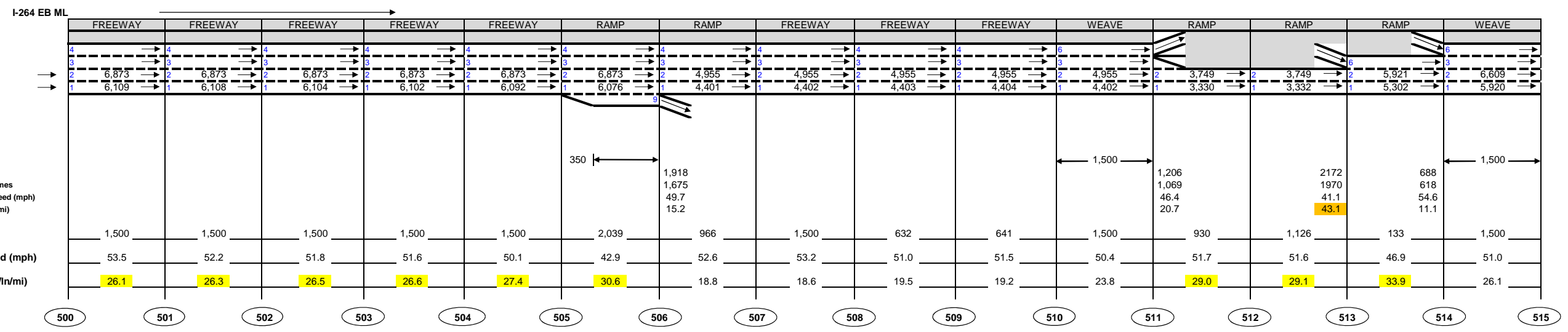
NOTE: numbers in chart are provided for illustrative purposes only

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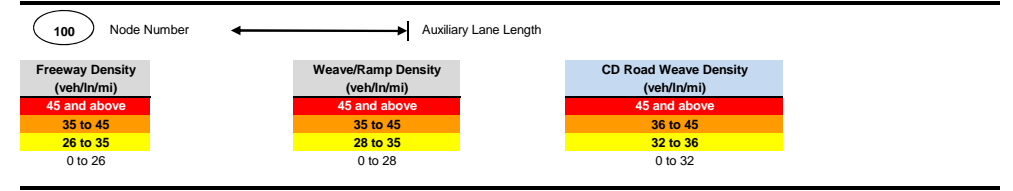
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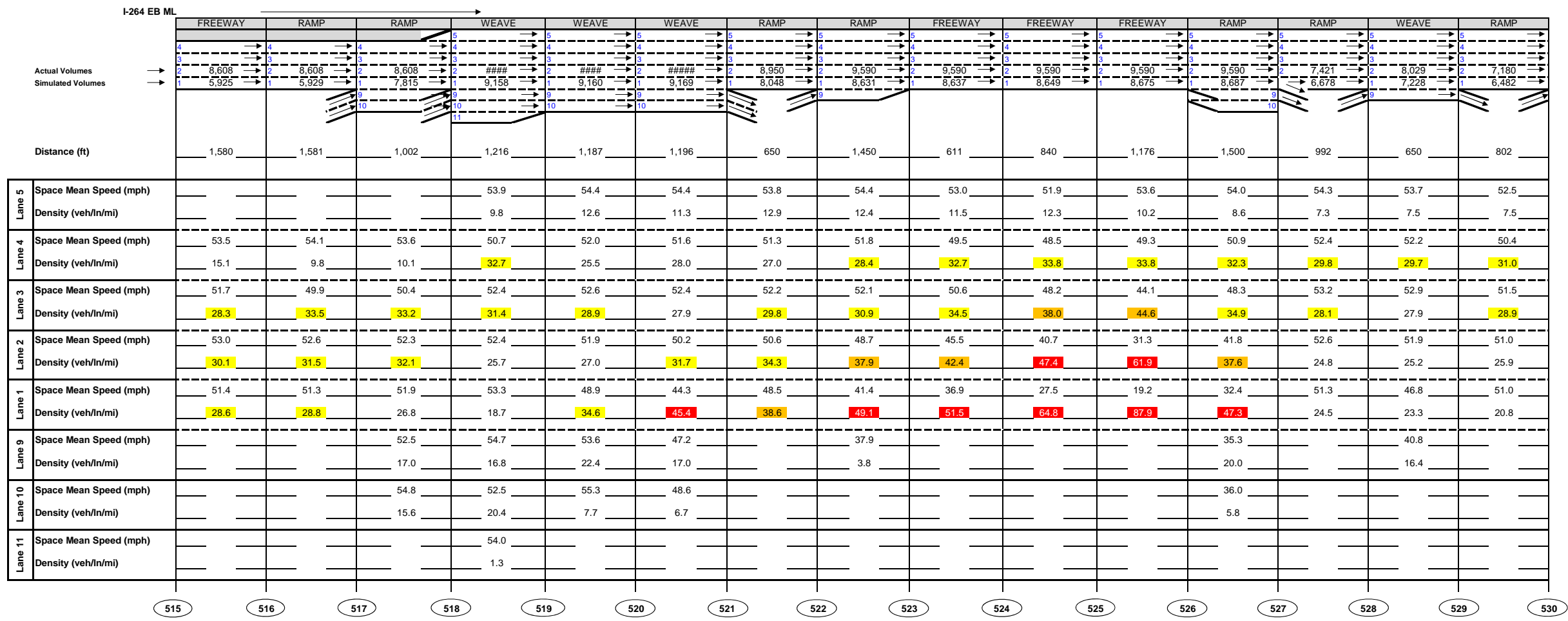
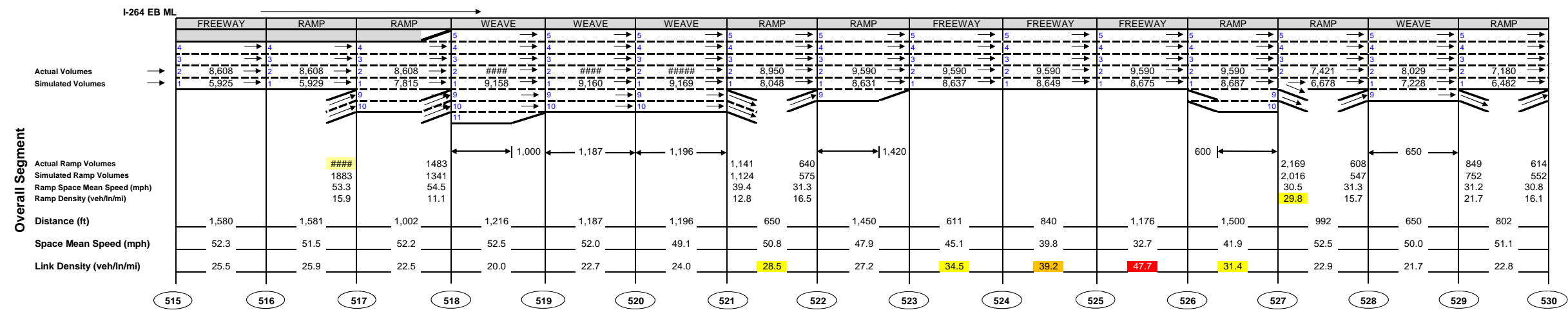


NOTE: numbers in chart are provided for illustrative purposes only

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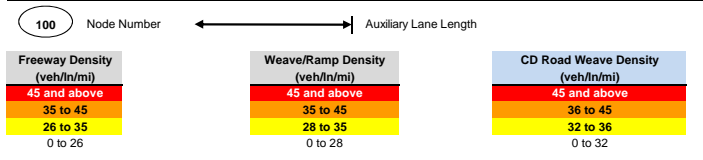


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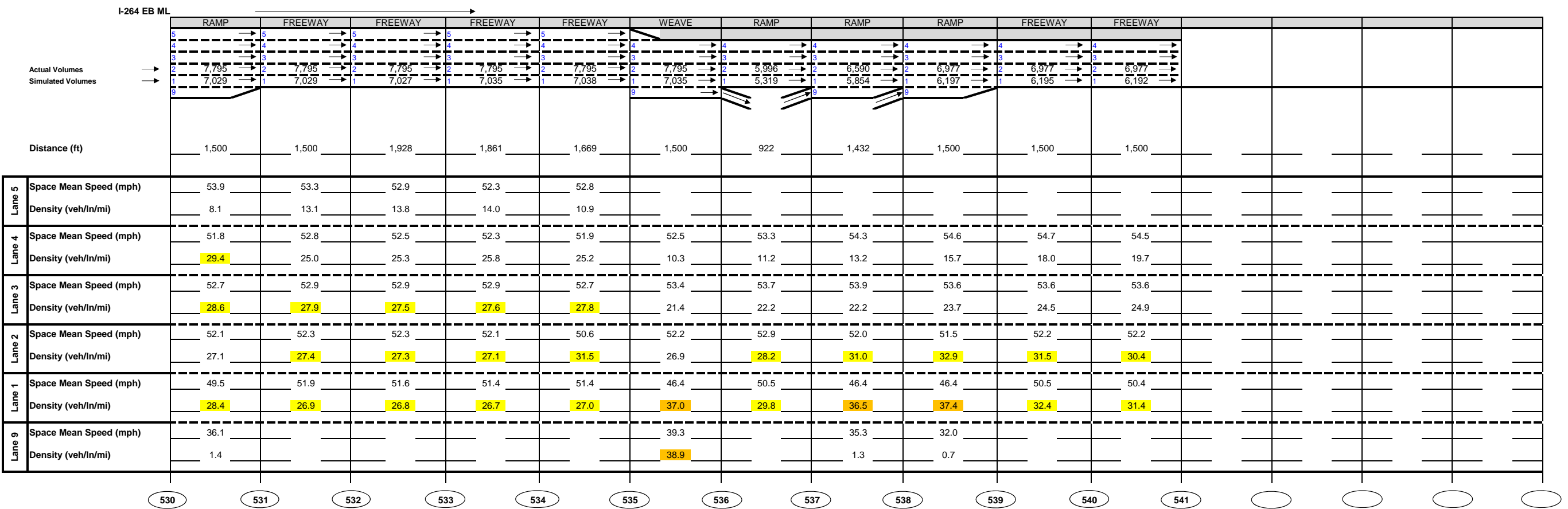
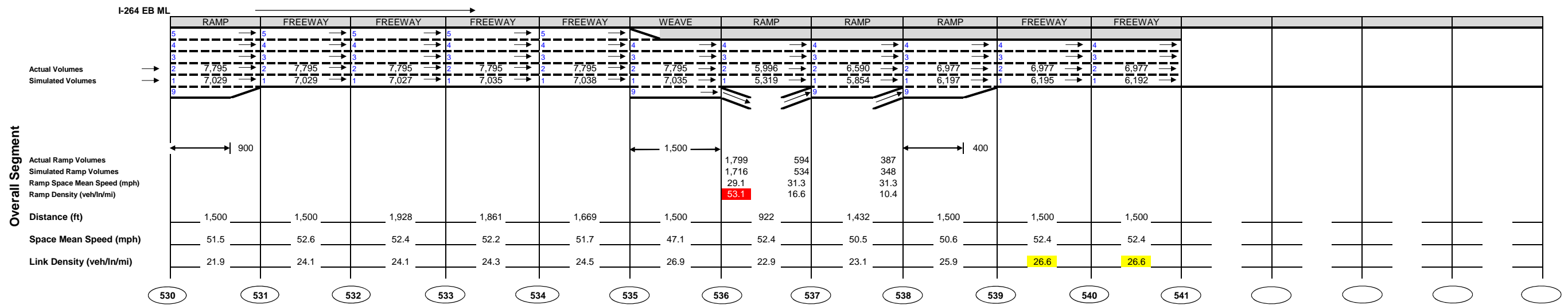
NOTE: numbers in chart are provided for illustrative purposes only

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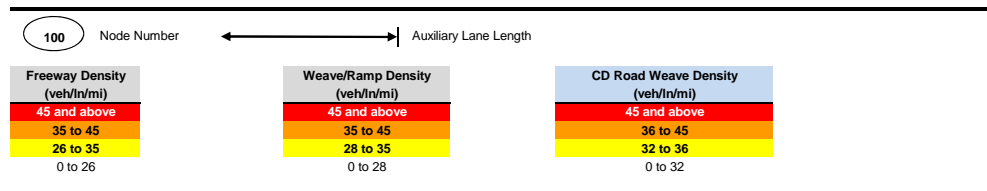
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Overall Segment

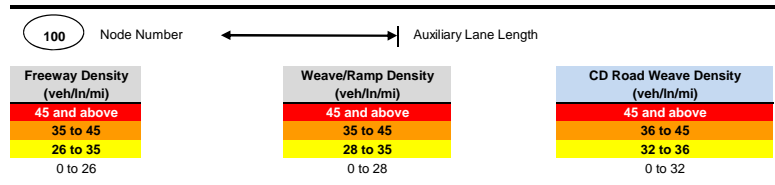
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,402	6,402	6,402	6,402	6,402	6,402	6,402	6,402	3,766	5,616	4,999	7,416	7,416	7,416
Simulated Volumes	5,761	5,771	5,780	5,790	5,799	5,811	3,444	5,079	4,534	6,355	6,363	6,366	6,368	
Actual Ramp Volumes							1,200	2,636	1,850	617	2,417		550	
Simulated Ramp Volumes							2,374	1,625	562	1,808				
Ramp Space Mean Speed (mph)							28.8	29.0	30.7	15.2				
Ramp Density (veh/ln/mi)							41.1	50.5	16.5	107.4				
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)	54.1	53.0	52.7	52.5	51.7	45.6	53.0	45.8	28.0	33.8	49.8	50.2	50.4	
Link Density (veh/ln/mi)	24.3	24.5	24.7	24.8	25.3	24.9	19.5	24.9	48.7	50.2	38.3	38.1	37.9	

Lane Detail

	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 4														
Space Mean Speed (mph)	54.0	52.8	52.3	52.0	52.7									
Density (veh/ln/mi)	24.3	24.4	24.4	24.4	19.7									
Lane 3														
Space Mean Speed (mph)	54.1	53.2	53.0	52.8	53.1	53.4	53.6	53.2	50.5	45.6	49.5	50.5	50.6	
Density (veh/ln/mi)	24.3	24.6	24.9	25.1	23.4	15.5	15.8	18.0	24.0	39.0	39.9	39.3	39.2	
Lane 2														
Space Mean Speed (mph)	54.2	53.3	53.1	53.0	51.5	52.5	54.0	50.5	39.7	39.3	49.7	50.1	50.4	
Density (veh/ln/mi)	24.4	24.6	25.0	25.3	29.4	19.7	20.4	28.7	43.0	48.1	37.6	37.1	36.9	
Lane 1														
Space Mean Speed (mph)	54.0	52.8	52.3	52.1	50.0	47.4	51.7	41.3	14.8	26.2	50.1	49.8	50.2	
Density (veh/ln/mi)	24.1	24.3	24.3	24.3	28.5	29.3	22.3	38.6	78.9	72.2	37.5	37.8	37.5	
Lane 9														
Space Mean Speed (mph)							38.9		39.4		15.8			
Density (veh/ln/mi)							40.9		14.4		9.7			
Lane 10														
Space Mean Speed (mph)							44.2							
Density (veh/ln/mi)							14.2							

NOTE: numbers in chart are provided for illustrative purposes only

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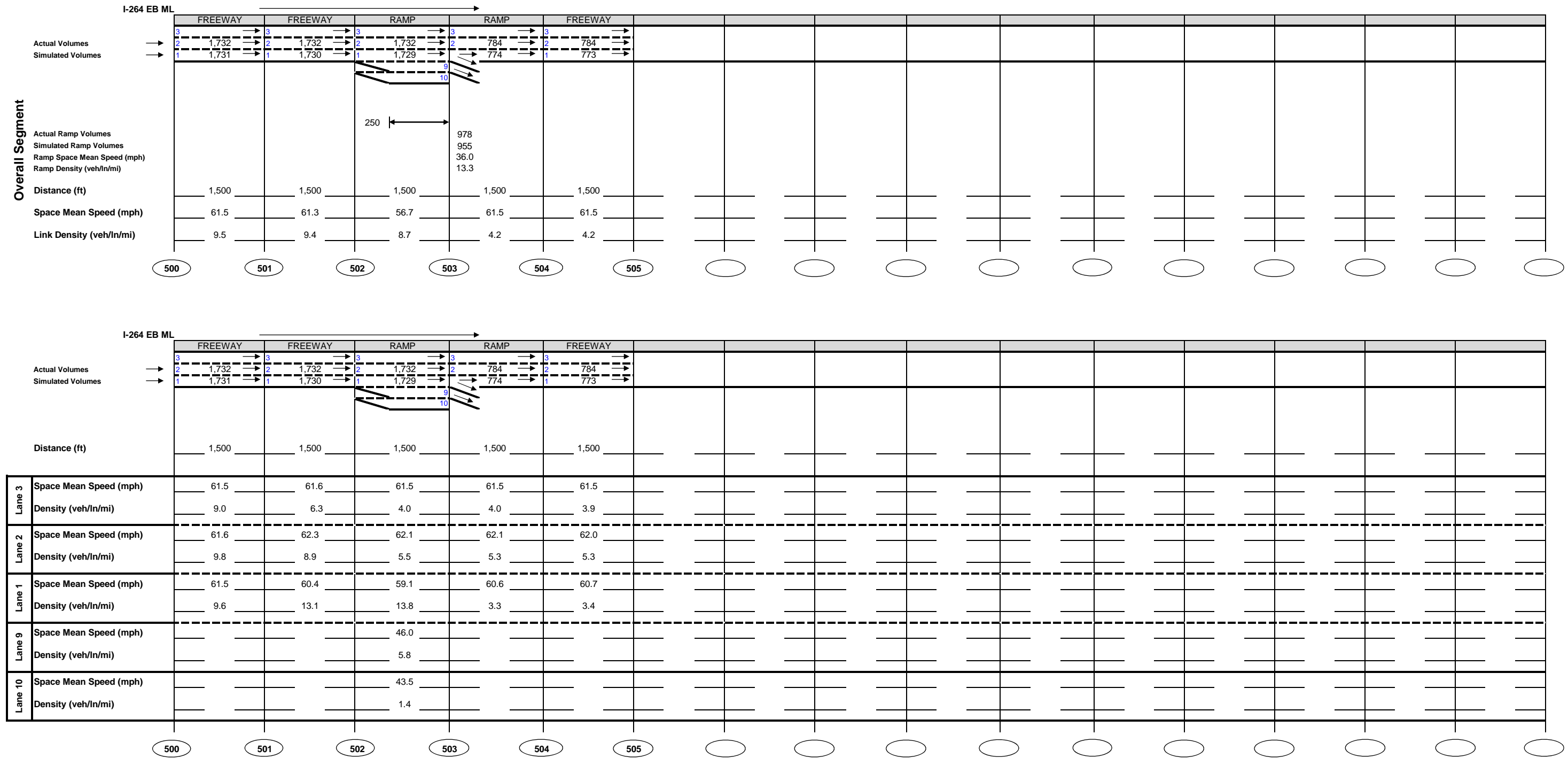


This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



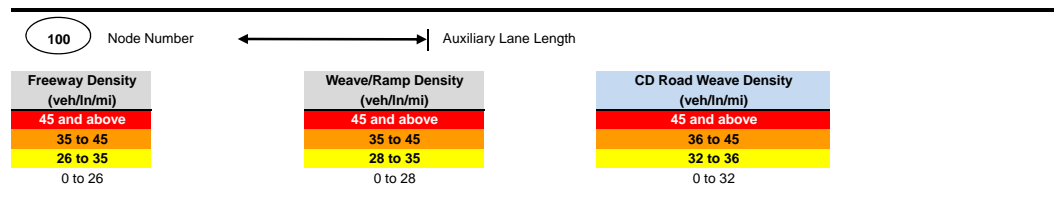
PM No Build Alternative - Link Descriptions

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	29.5	D	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	28.3	D
EB I-264 ML to EB I-264 CD (Diverge)	505,506	34.1	D	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	25.1	C
EB I-264 CD to SB Military Hwy (Diverge)	552,553	15.4	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	11.0	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	13.9	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	24.3	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	24.0	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	29.9	D
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	20.7	C	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	57.1	F
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	6.0	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	25.1	C
EB I-64 to WB I-264 CD (Merge)	759,760	8.0	A	WB I-264 CD to NB Newtown Road (Diverge)	752,753	22.6	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	9.4	A	NB Newtown Rd to WB I-264 CD (Merge)	754,755	24.3	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	9.7	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	80.6	F
SB Military Hwy to WB I-264 CD (Merge)	764,765	10.9	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	12.0	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	29.9	D
WB I-264 West of Military Hwy (Freeway)	734,735	12.9	B	EB I-264 to NB/SB Witchduck Rd (Diverge)	521,522	31.5	D
I-64/I-264 Interchange				NB/SB Witchduck Rd & I-264 EB (Merge)	522,523	28.0	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	20.7	C	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	48.8	F
EB I-264 ML to WB I-64 (Diverge)	510,511	26.4	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	72.2	F
EB I-264 CD to EB I-64 (Diverge)	557,558	20.6	C	WB I-264 to Witchduck Rd (Diverge)	719,720	69.7	F
EB/WB I-64 & EB I-264 CD (Weave)	559,560	15.8	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	57.1	F
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	18.3	B	Independence Boulevard Interchange			
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	28.3	D	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	48.8	F
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	80.6	F	EB I-264 to SB Independence Blvd (Diverge)	526,527	34.3	D
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	68.5	F	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	23.3	C
WB I-264 ML to EB I-64 (Diverge)	728,729	65.6	F	NB Independence Blvd to EB I-264 (Merge)	530,531	23.5	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	25.1	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	26.0	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	19.4	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	31.6	D
EB I-64 to WB I-264 CD (Merge)	759,760	8.0	A	WB I-264 to NB Independence Blvd (Diverge)	712,713	42.0	E
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	6.0	A	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	50.5	F
EB I-64 North of I-264 (Freeway)	301,302	47.0	F	SB Independence Blvd to WB I-264 (Merge)	716,717	63.7	F
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	34.0	D	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	72.2	F
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	57.0	F	Rosemont Road Interchange			
EB I-64 South of I-264 (Freeway)	312,313	38.8	E	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	26.0	C
WB I-64 South of I-264 (Freeway)	101,102	26.6	D	EB I-264 to Rosemont Rd (Diverge)	535,536	28.8	D
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.8	C	SB Rosemont Rd to EB I-264 (Merge)	537,538	24.8	C
WB I-64 to I-264 EB (Diverge)	104,105	27.4	C	NB Rosemont Rd to EB I-264 (Merge)	538,539	27.8	C
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	23.9	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	28.6	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	30.8	D	WB I-264 East of Rosemont Rd (Freeway)	700,701	28.1	D
WB I-64 North of I-264 (Freeway)	110,111	30.7	D	WB I-264 to Rosemont Rd (Diverge)	702,703	27.8	C
				NB Rosemont Rd to WB I-264 (Merge)	704,705	23.3	C
				SB Rosemont Rd to WB I-264 (Merge)	705,706	27.5	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	31.6	D



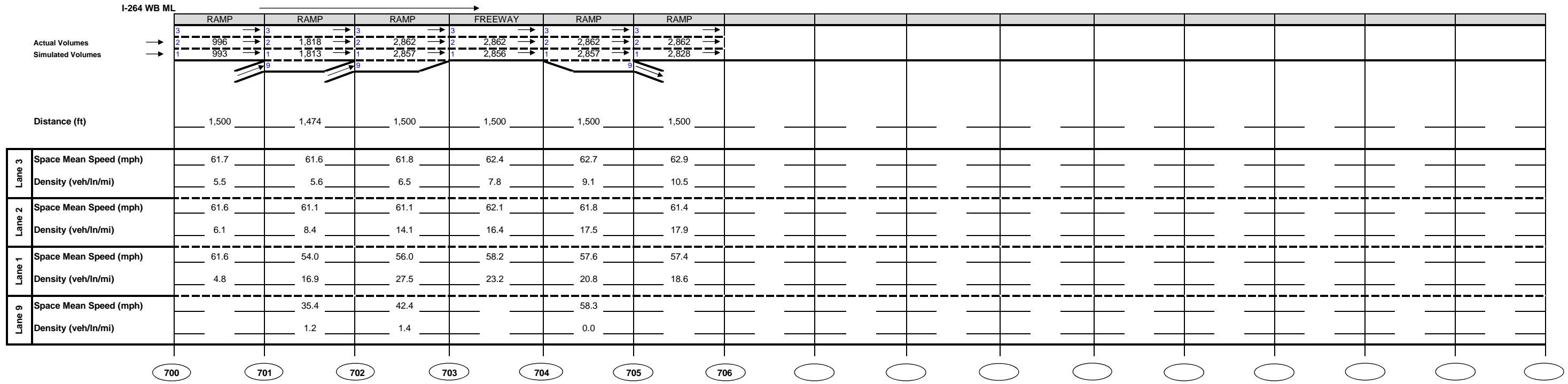
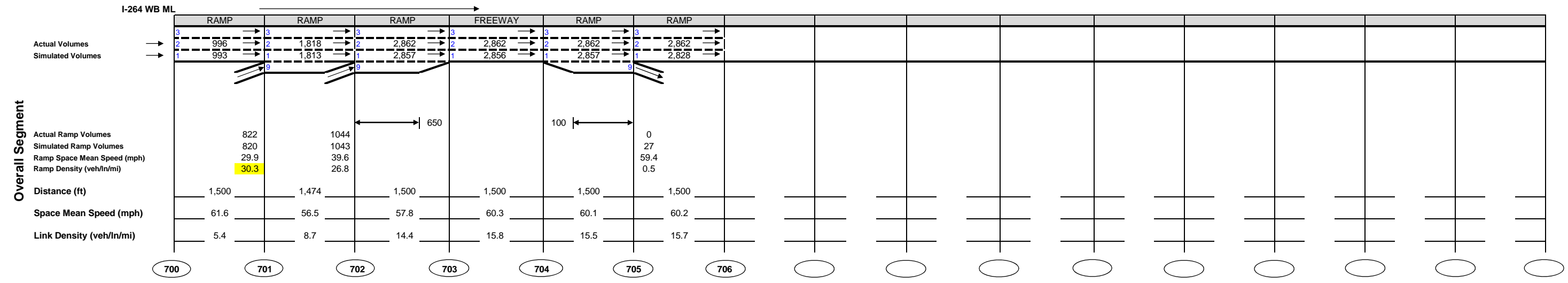
NOTE: numbers in chart are provided for illustrative purposes only

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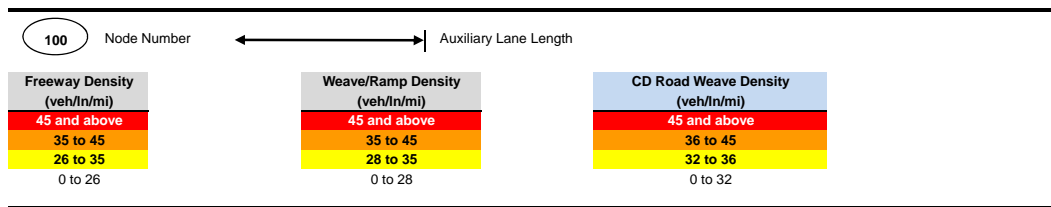
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I-264 EB ML

	500	501	502	503	504	505										
Actual Volumes	3	3	3	3	3	3										
Simulated Volumes	1	1	1	1	1	1										
Actual Ramp Volumes				1,502												
Simulated Ramp Volumes				1,501												
Ramp Space Mean Speed (mph)				35.0												
Ramp Density (veh/ln/mi)				21.4												
Distance (ft)	1,500	1,500	1,500	1,500	1,500											
Space Mean Speed (mph)	61.2	60.8	55.0	61.3	61.2											
Link Density (veh/ln/mi)	14.1	14.0	13.2	5.7	5.7											

I-264 EB ML

	500	501	502	503	504	505										
Actual Volumes	3	3	3	3	3	3										
Simulated Volumes	1	1	1	1	1	1										
Distance (ft)	1,500	1,500	1,500	1,500	1,500											
Lane 3																
Space Mean Speed (mph)	61.2	61.3	61.2	61.2	61.2	61.1										
Density (veh/ln/mi)	13.8	9.7	5.7	5.7	5.7											
Lane 2																
Space Mean Speed (mph)	61.4	62.0	61.8	61.9	61.7											
Density (veh/ln/mi)	14.4	13.6	8.1	7.4	7.2											
Lane 1																
Space Mean Speed (mph)	61.2	59.6	57.2	60.3	60.5											
Density (veh/ln/mi)	14.1	18.7	21.0	4.1	4.3											
Lane 9																
Space Mean Speed (mph)			43.8													
Density (veh/ln/mi)			9.4													
Lane 10																
Space Mean Speed (mph)			41.1													
Density (veh/ln/mi)			2.2													

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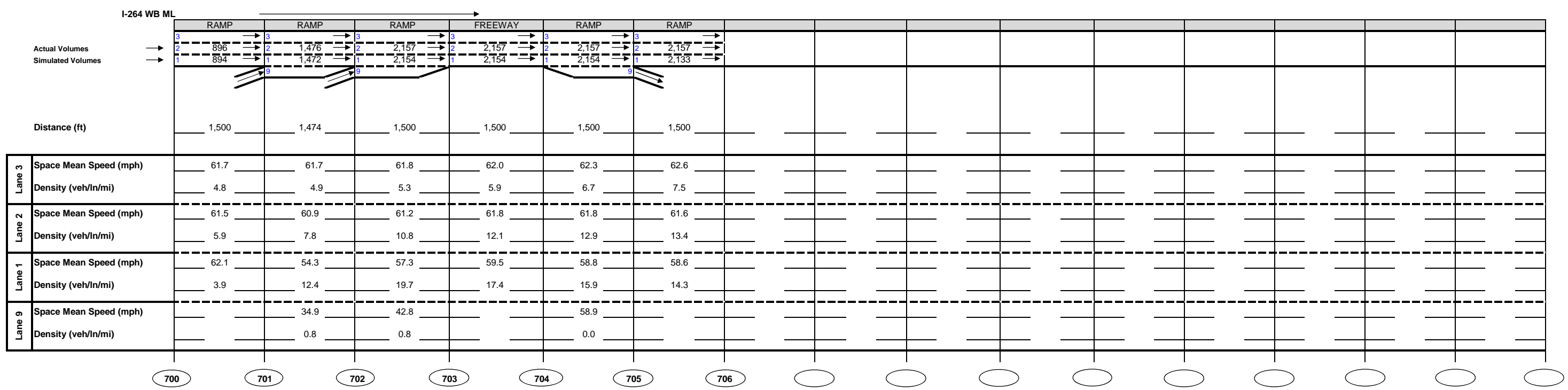
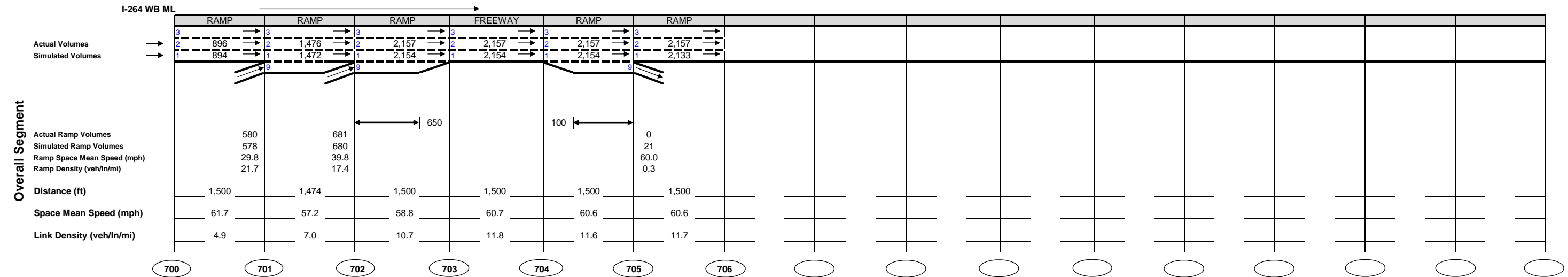
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100 Node Number Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

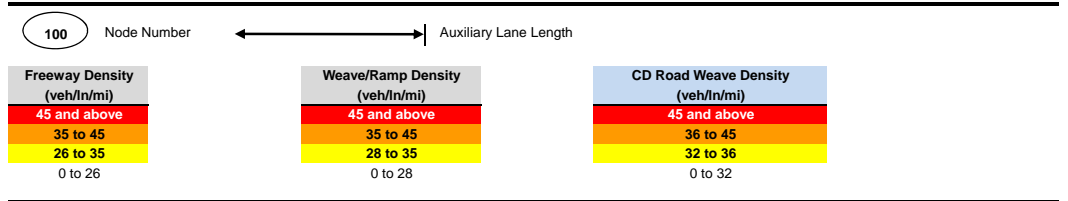
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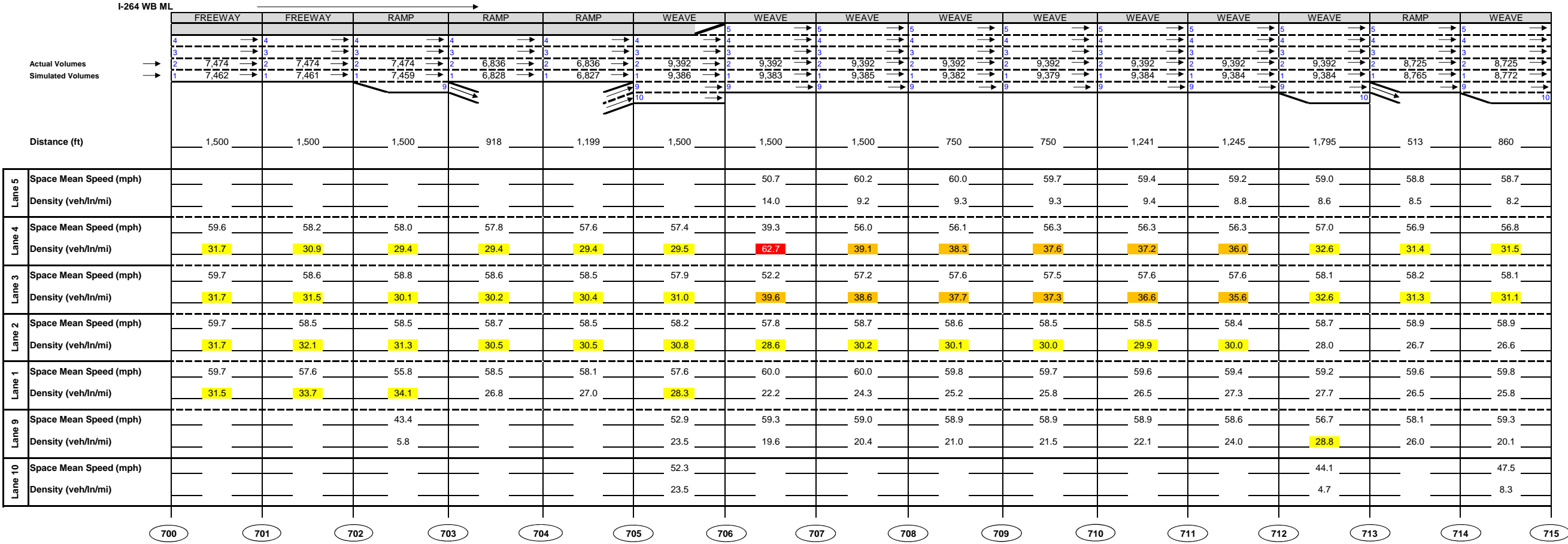
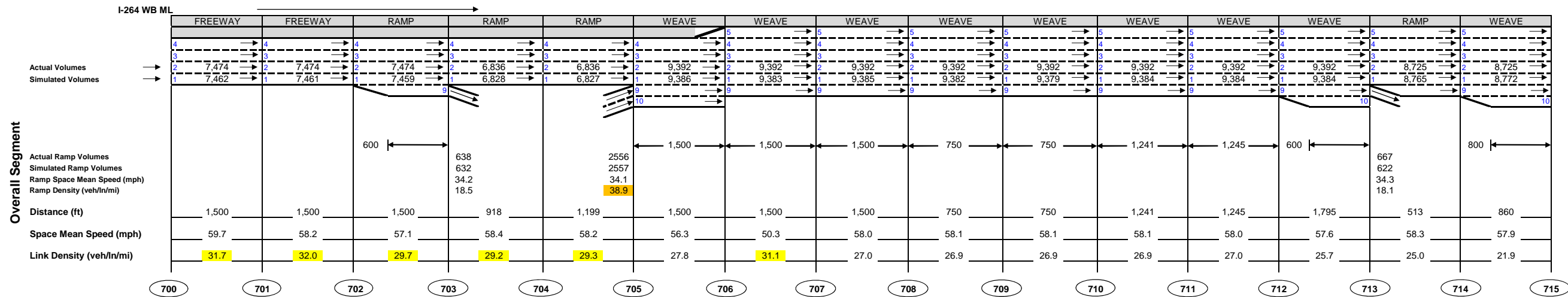


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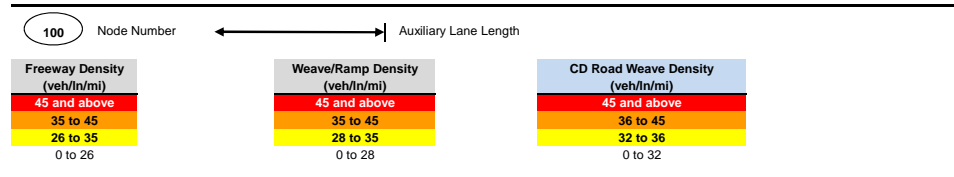
AM and PM No Build Alternative - Birdneck Road Interchange Link Descriptions

Interchange	Link	AM Density	AM LOS	Interchange	Link	PM Density	PM LOS
Birdneck Road Interchange				Birdneck Road Interchange			
EB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	500,501	9.5	A	EB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	500,501	14.1	B
EB I-264 to Birdneck Rd (Diverge)	502,503	8.7	A	EB I-264 to Birdneck Rd (Diverge)	502,503	13.2	B
EB I-264 between Birdneck Rd and Parks Ave (Freeway)	503,504	4.2	A	EB I-264 between Birdneck Rd and Parks Ave (Freeway)	503,504	5.7	A
WB I-264 between Birdneck Rd and Parks Ave (Freeway)	700,701	5.4	A	WB I-264 between Birdneck Rd and Parks Ave (Freeway)	700,701	4.9	A
NB Birdneck Rd to WB I-264 (Merge)	701,702	8.7	A	NB Birdneck Rd to WB I-264 (Merge)	701,702	7.0	A
SB Birdneck Rd to WB I-264 (Merge)	702,703	14.4	B	SB Birdneck Rd to WB I-264 (Merge)	702,703	10.7	B
WB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	703,704	15.8	B	WB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	703,704	11.8	B



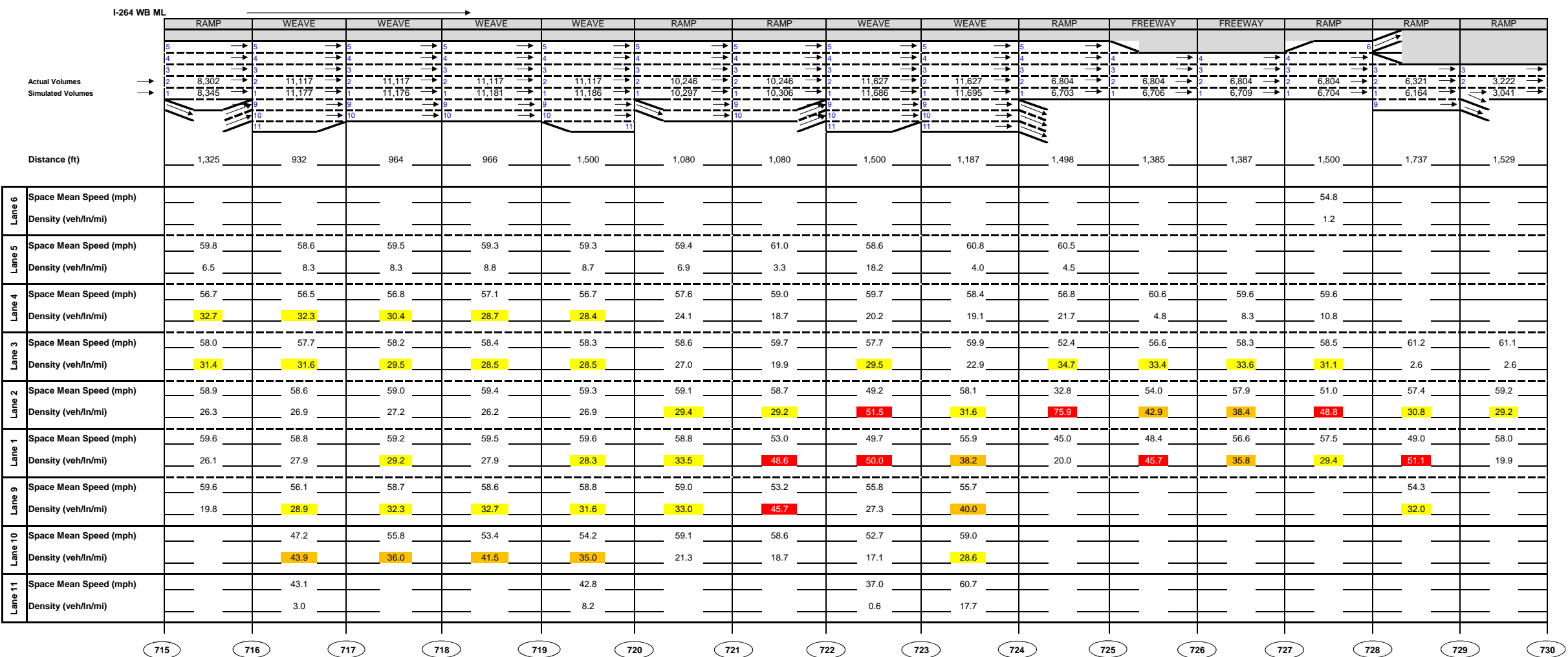
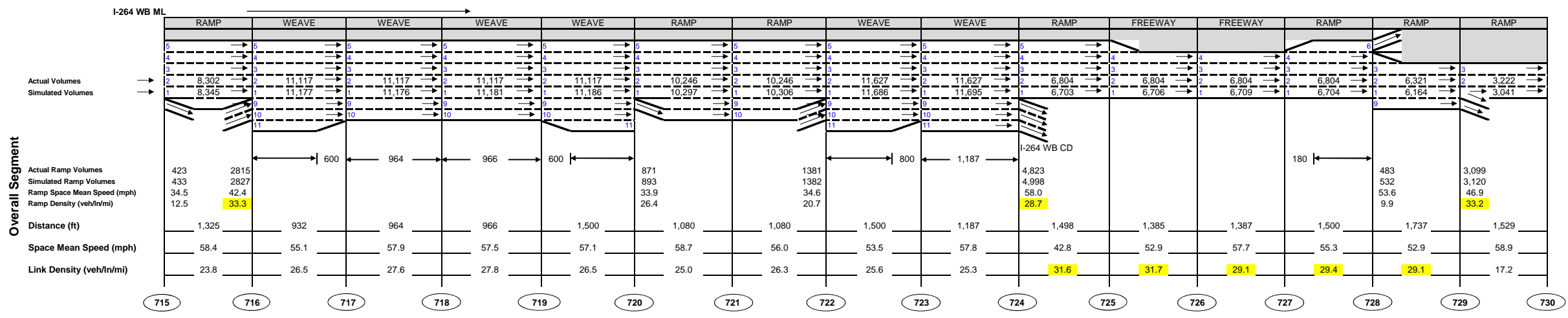
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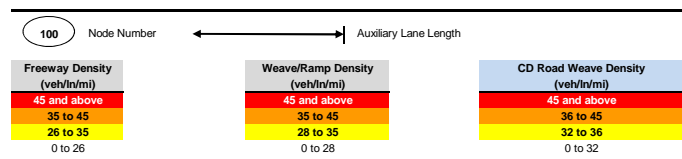
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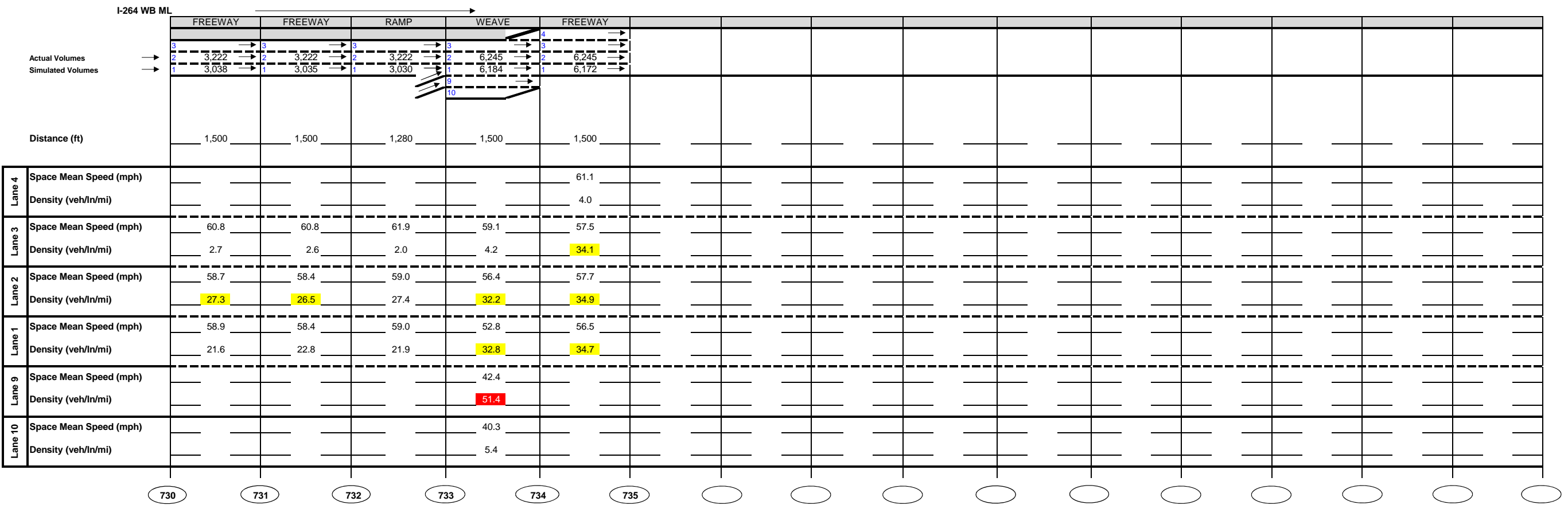
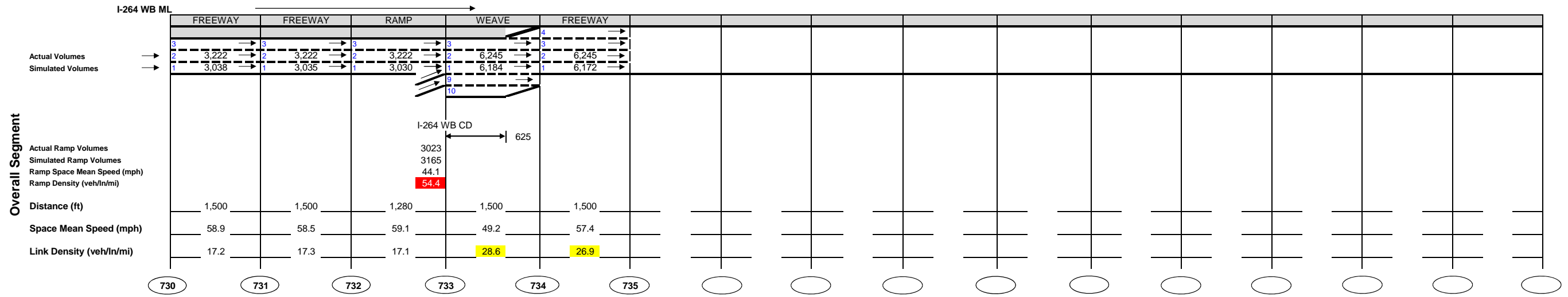


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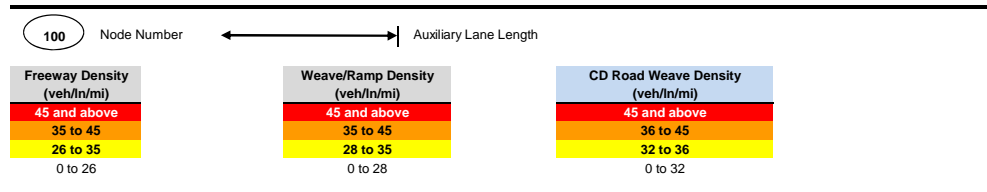


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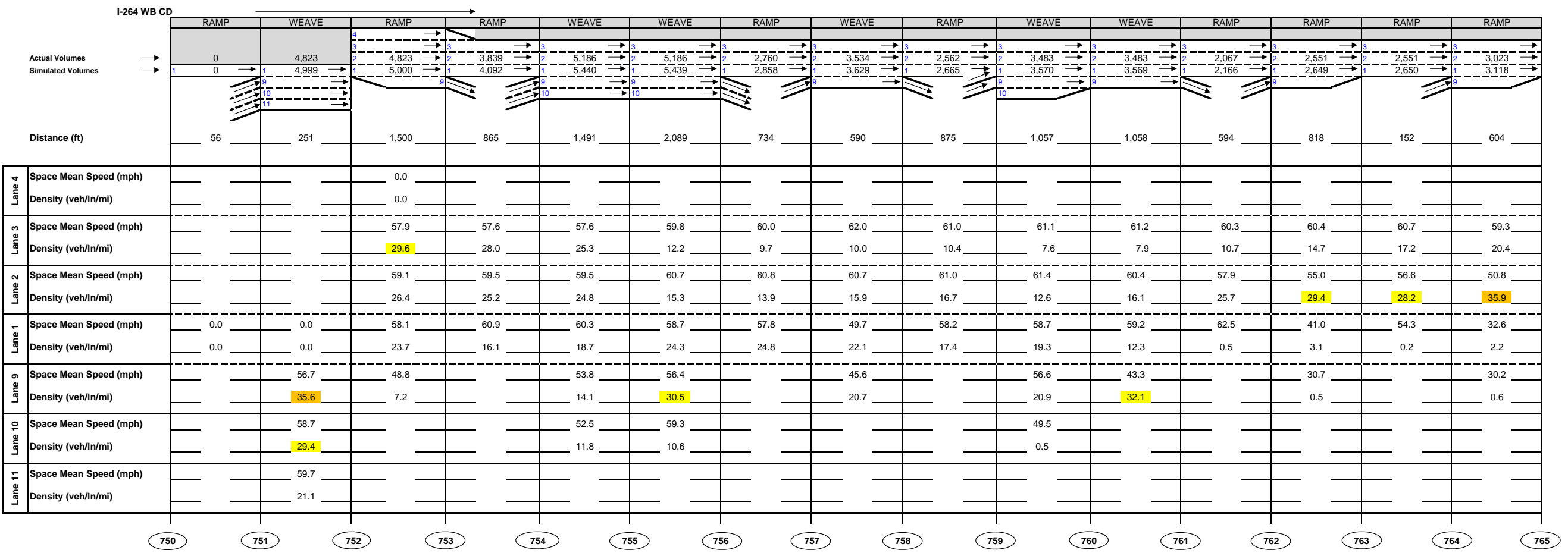
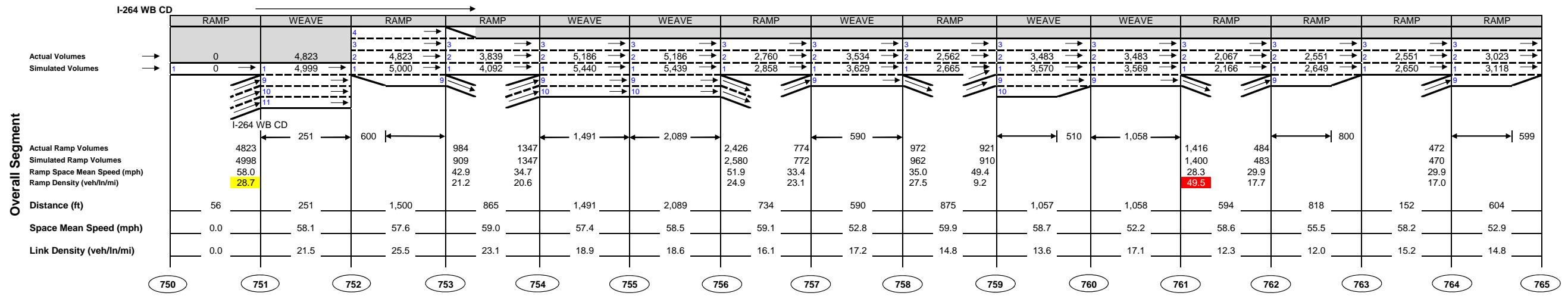
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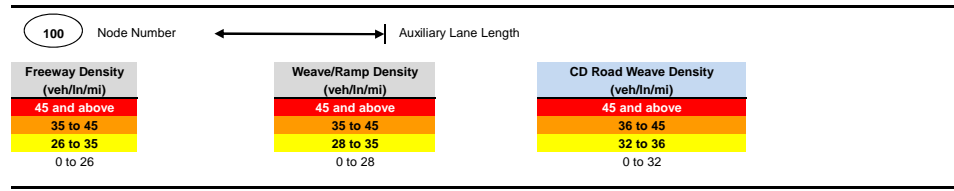
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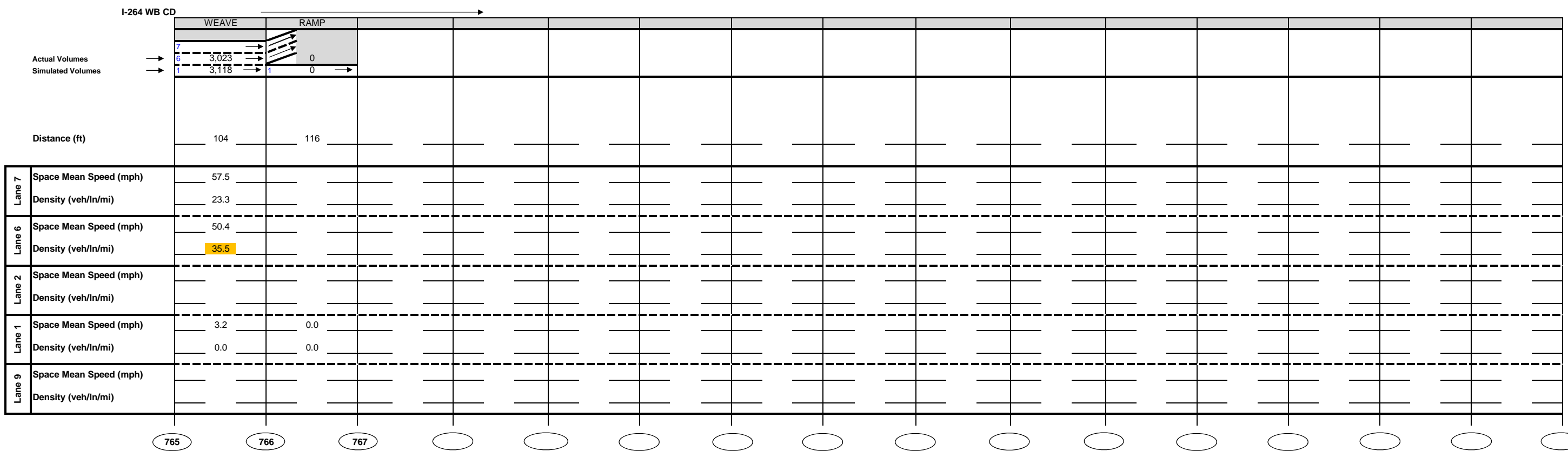
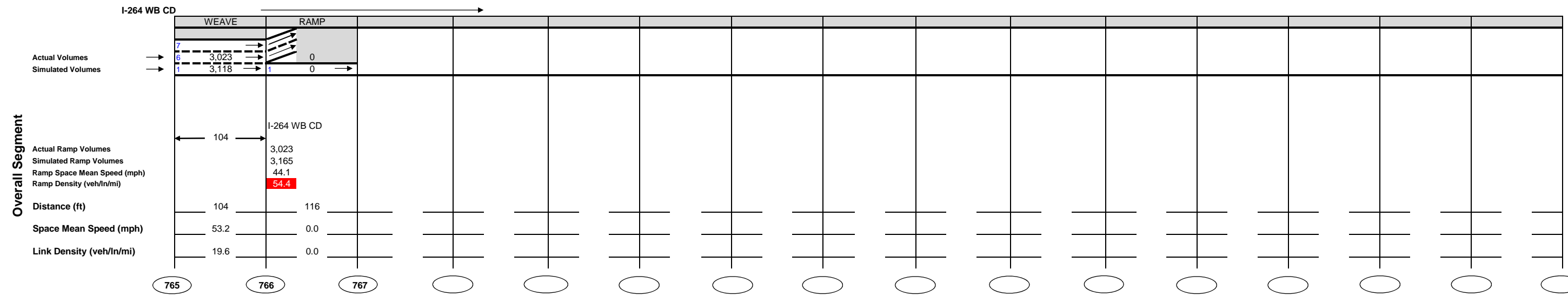


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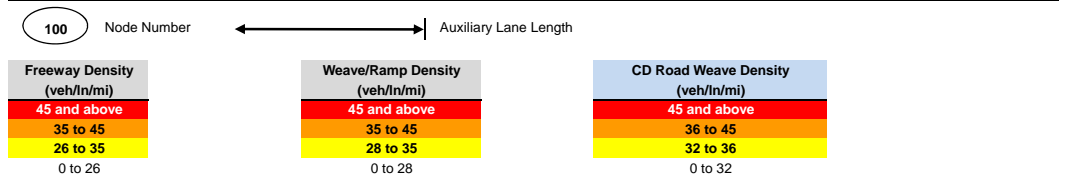


This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



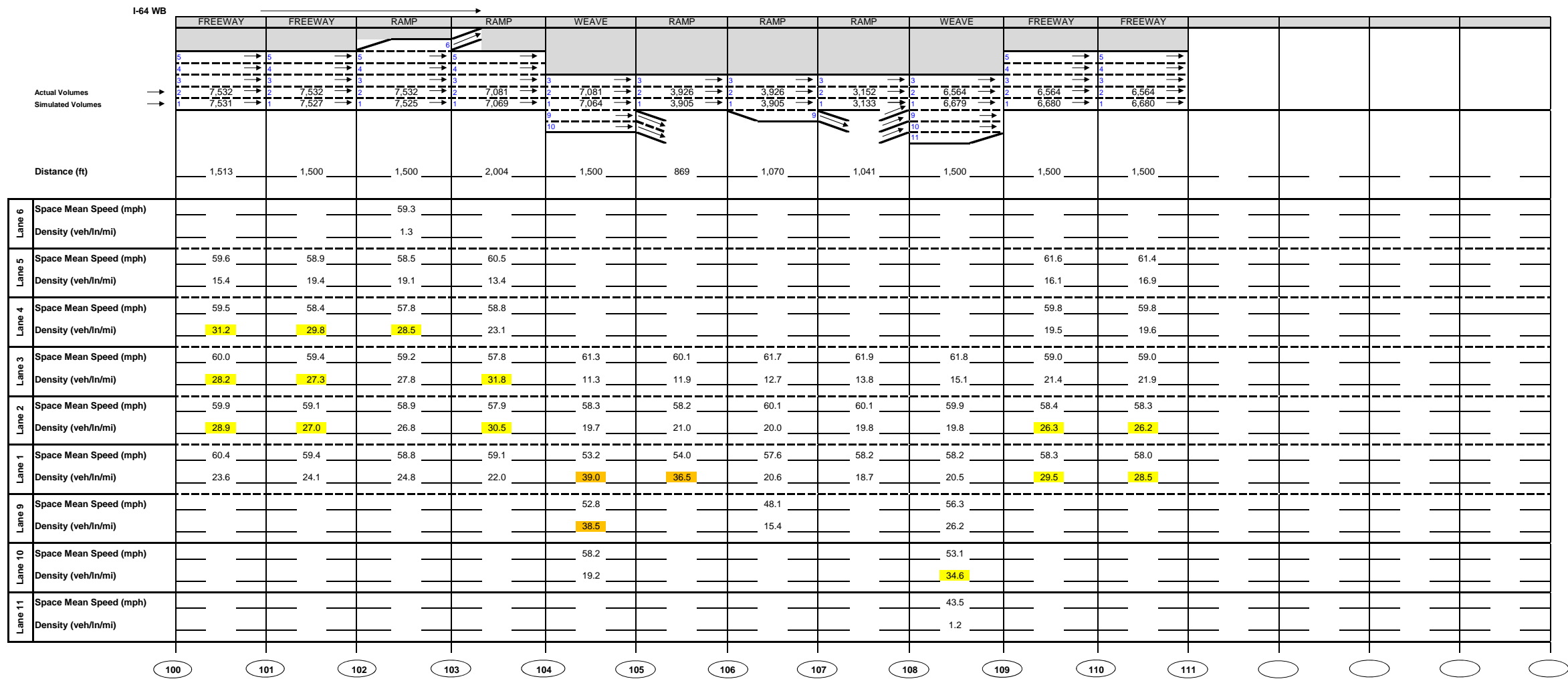
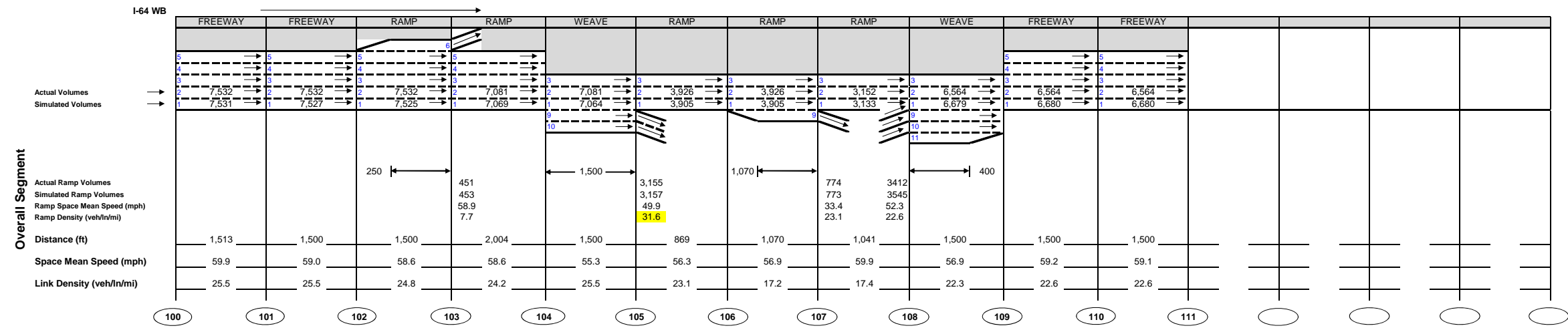
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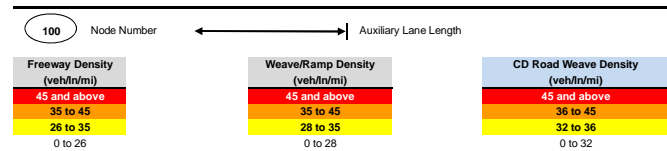
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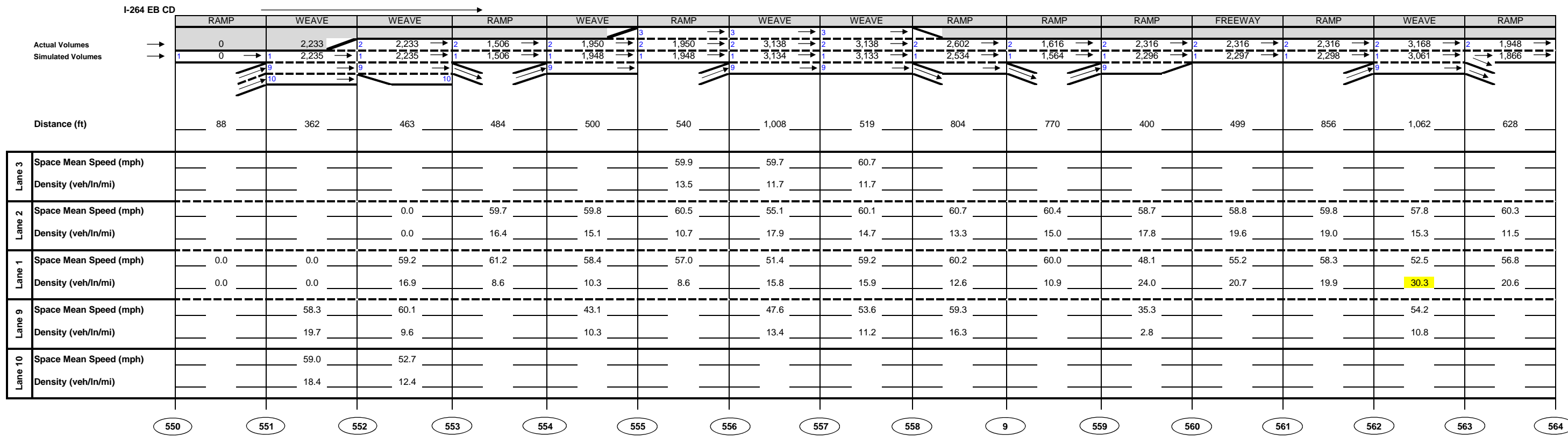
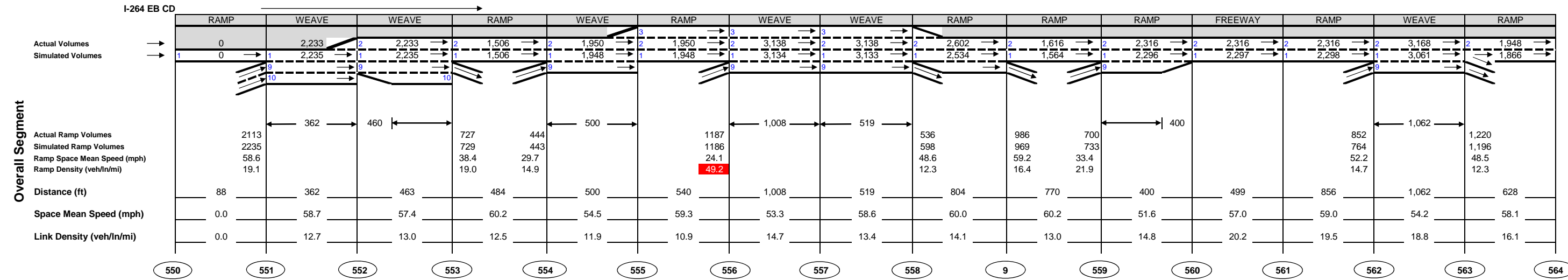


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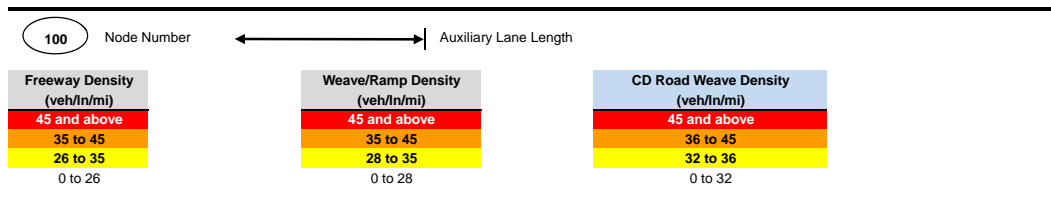


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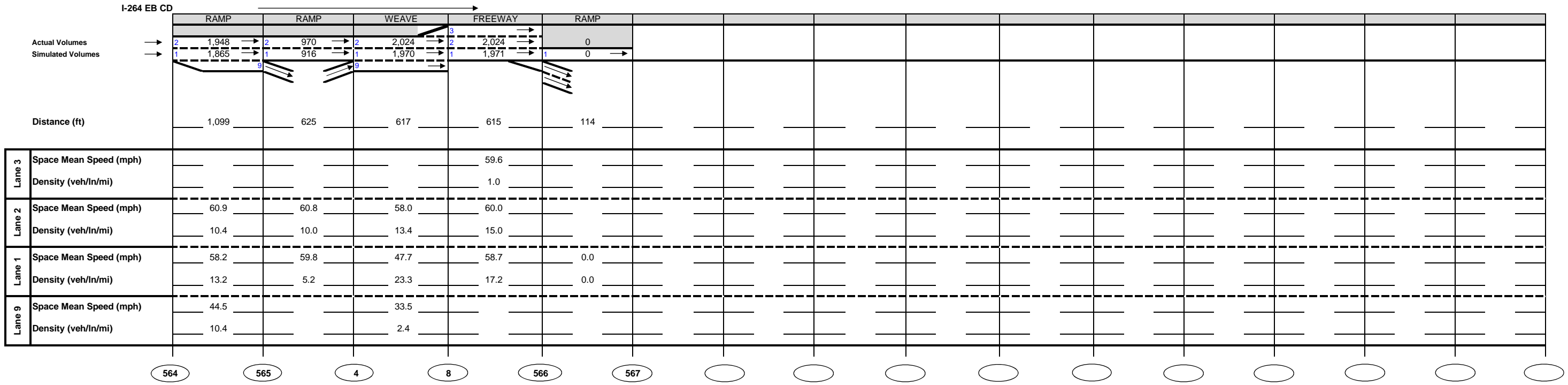
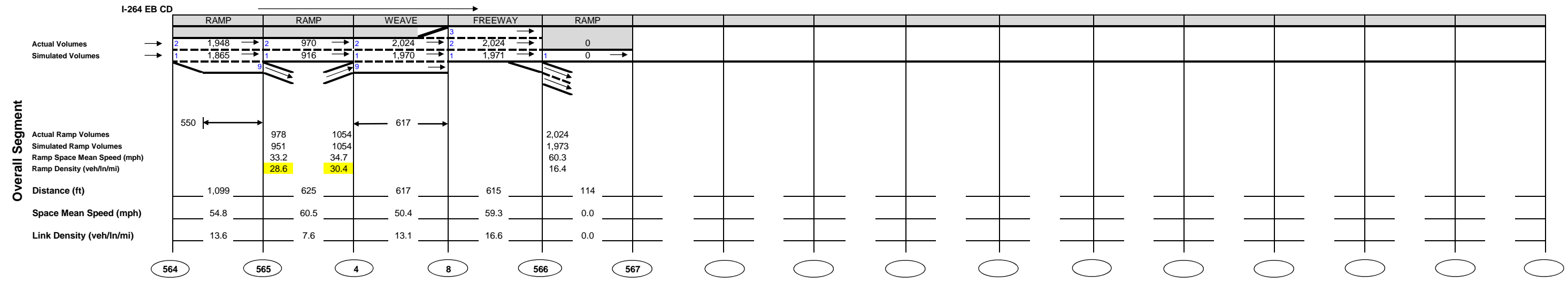
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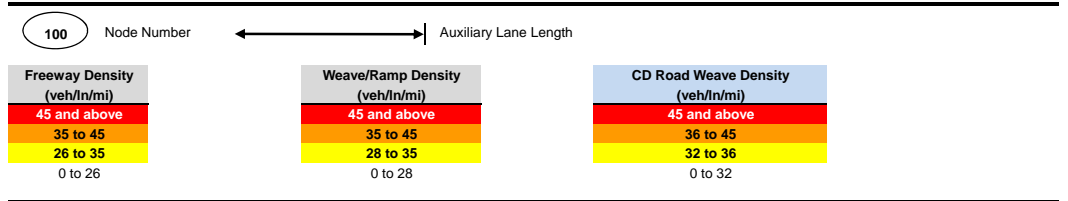
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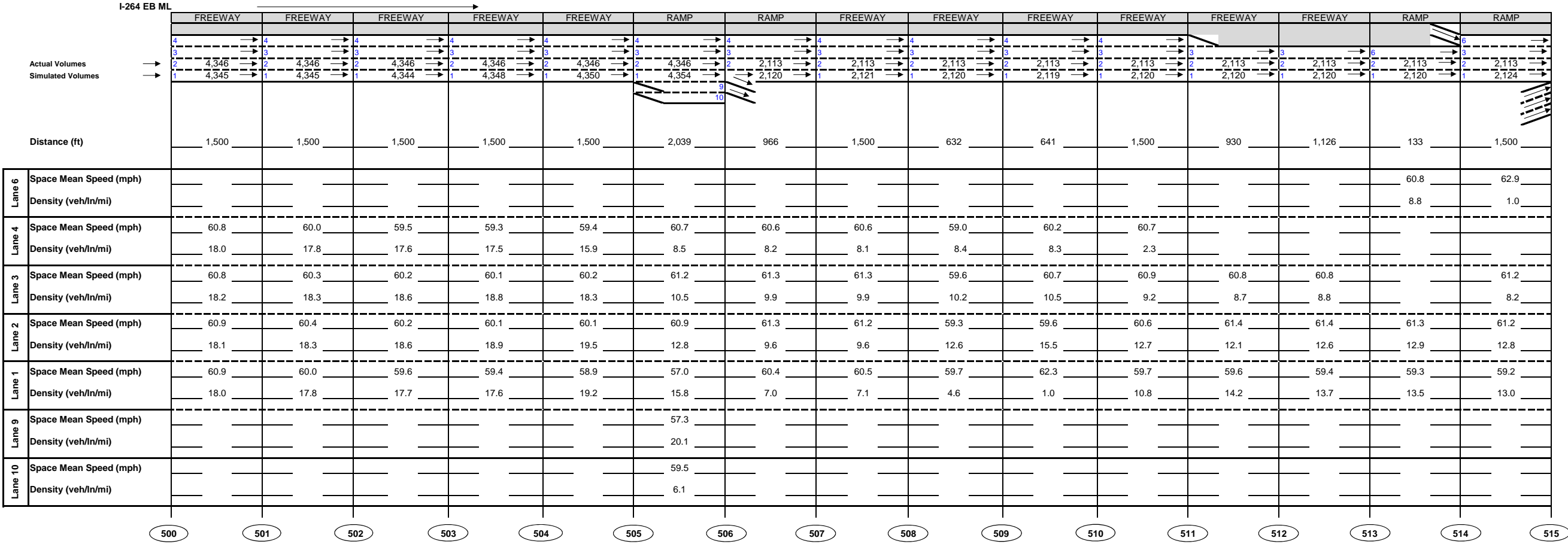
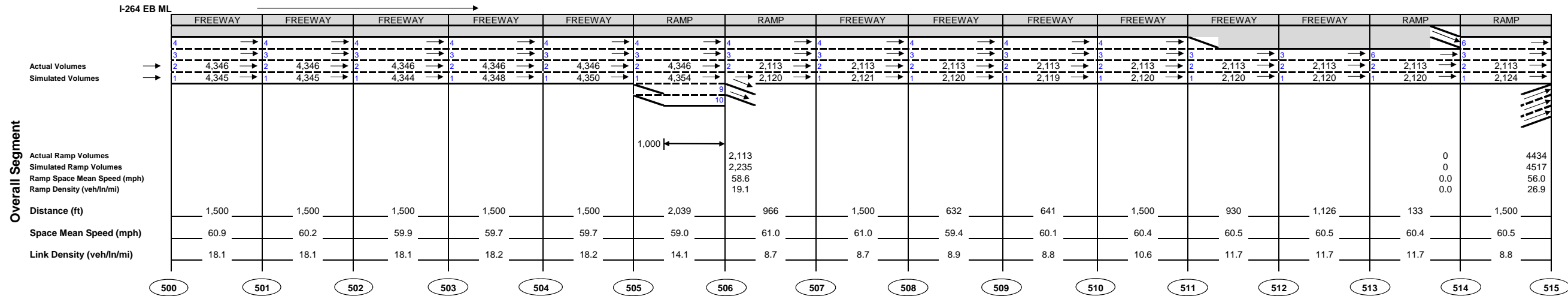
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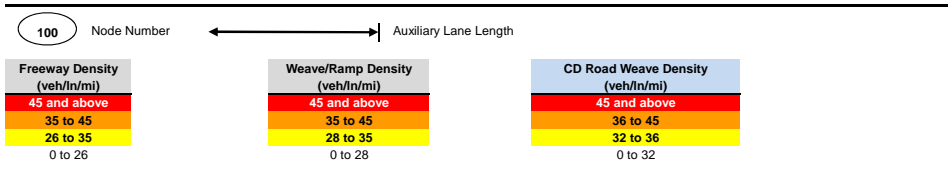
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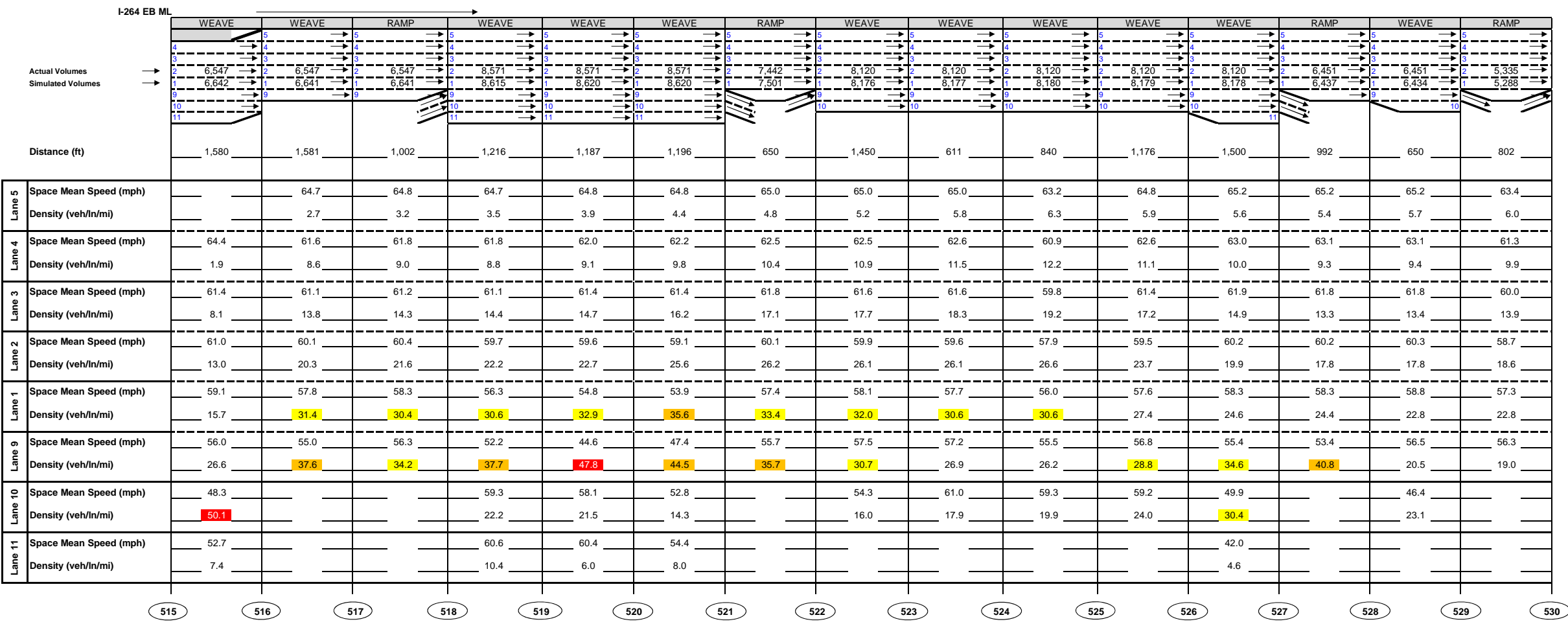
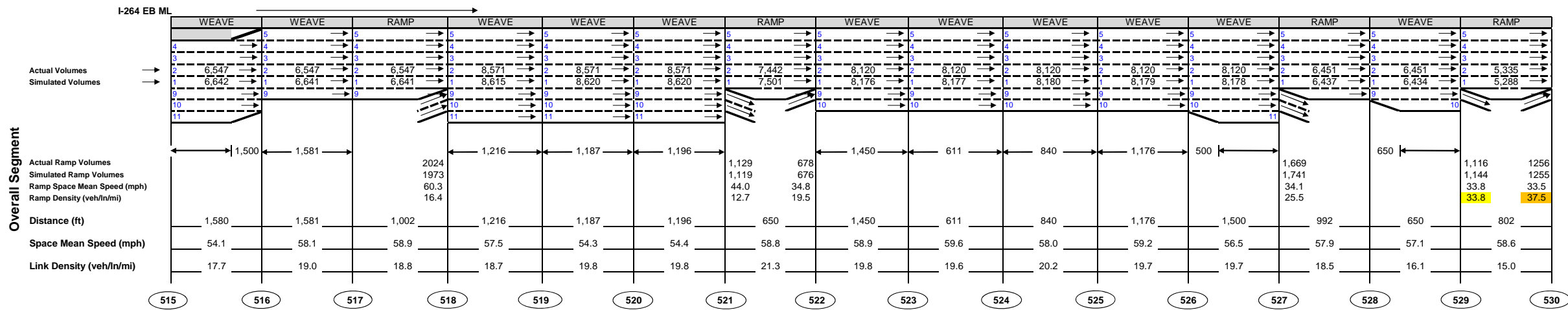
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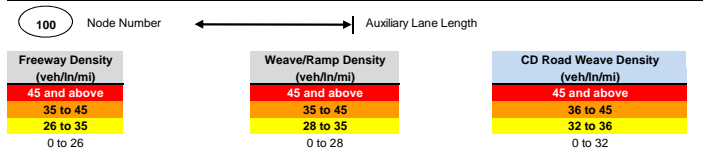
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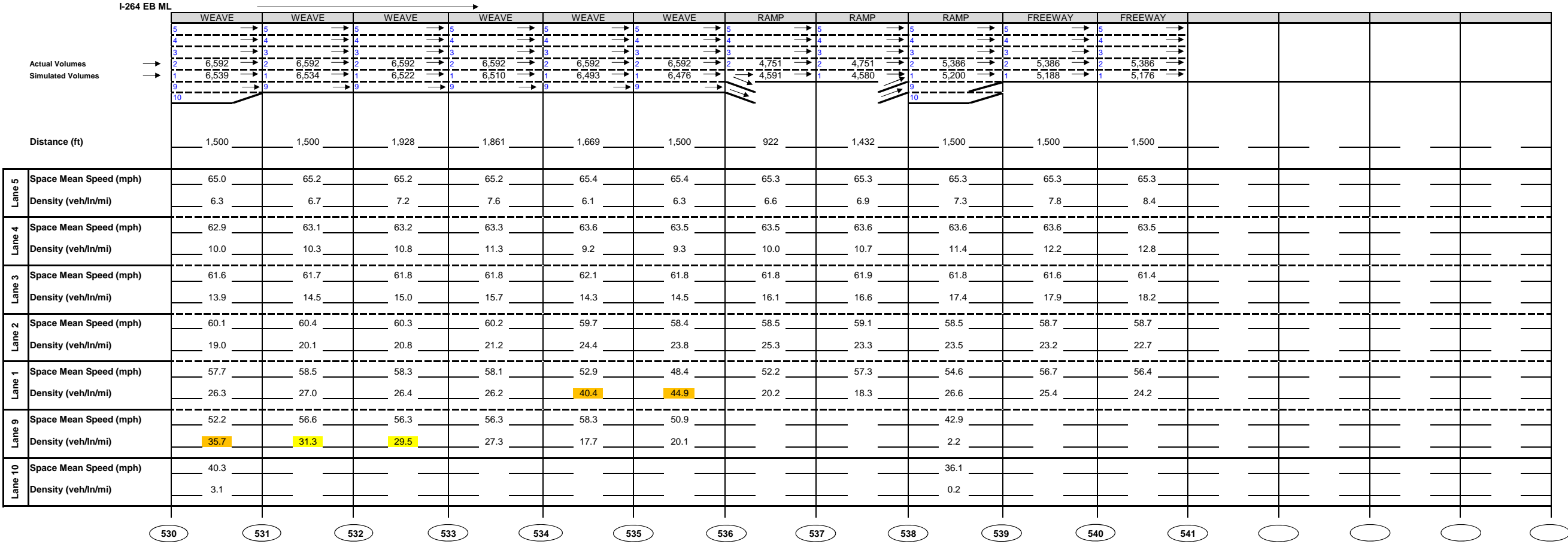
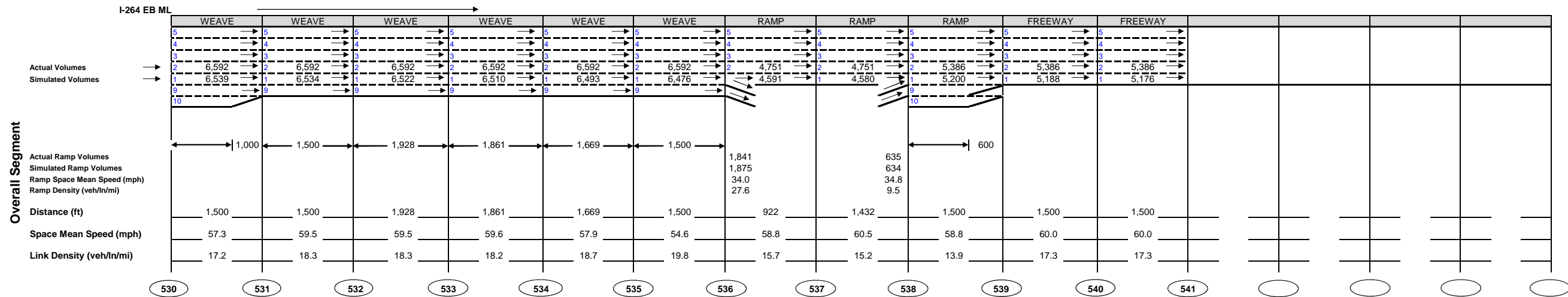
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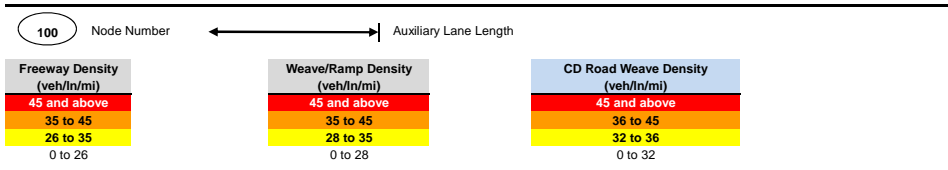
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This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



Overall Segment	I-64 EB												
	300-301	301-302	302-303	303-304	304-305	305-306	306-307	307-308	308-309	309-310	310-311	311-312	312-313
Actual Volumes	6,683	6,683	6,683	6,683	6,683	6,683	6,683	4,603	3,903	7,538	7,538	7,538	7,538
Simulated Volumes	6,681	6,686	6,689	6,696	6,699	6,713	6,713	4,648	3,919	7,634	7,630	7,628	7,623
Actual Ramp Volumes						1,500	3,052	1,330	700	1,500			
Simulated Ramp Volumes						1,500	3,034	1,330	732	1,500			
Ramp Space Mean Speed (mph)							47.2		33.6				
Ramp Density (veh/ln/mi)							21.4		21.8				
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500
Space Mean Speed (mph)	60.6	59.7	59.4	59.2	57.0	46.2	58.5	55.3	59.3	57.4	58.8	58.7	58.6
Link Density (veh/ln/mi)	22.3	22.4	22.5	22.6	23.5	29.1	21.0	21.0	22.0	26.6	26.0	26.0	26.0

Overall Segment	I-64 EB													
	300-301	301-302	302-303	303-304	304-305	305-306	306-307	307-308	308-309	309-310	310-311	311-312	312-313	
Actual Volumes	6,683	6,683	6,683	6,683	6,683	6,683	6,683	4,603	3,903	7,538	7,538	7,538	7,538	
Simulated Volumes	6,681	6,686	6,689	6,696	6,699	6,713	6,713	4,648	3,919	7,634	7,630	7,628	7,623	
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 5	Space Mean Speed (mph)	60.6	59.5	58.9	58.6	59.2					59.9	59.8	59.6	
Lane 5	Density (veh/ln/mi)	22.3	22.2	22.2	22.1	18.2					21.4	22.4	23.2	
Lane 4	Space Mean Speed (mph)	60.6	59.9	59.7	59.6	58.9					59.7	59.5	59.5	
Lane 4	Density (veh/ln/mi)	22.4	22.6	22.9	23.1	24.0					24.2	24.6	25.1	
Lane 3	Space Mean Speed (mph)	60.6	59.8	59.6	59.5	51.7	57.2	60.2	60.2	60.1	60.0	58.6	58.6	58.5
Lane 3	Density (veh/ln/mi)	22.3	22.3	22.4	22.6	34.1	18.5	19.3	18.5	19.5	20.3	25.2	25.0	24.8
Lane 2	Space Mean Speed (mph)	60.6	59.9	59.7	59.5	59.1	50.5	58.8	59.0	59.8	59.7	59.1	58.9	58.7
Lane 2	Density (veh/ln/mi)	22.3	22.5	22.9	23.2	23.9	28.3	23.1	23.0	23.4	23.9	29.2	29.1	28.8
Lane 1	Space Mean Speed (mph)	60.5	59.4	58.9	58.7	59.4	36.2	56.7	53.5	58.1	58.0	57.0	57.0	57.0
Lane 1	Density (veh/ln/mi)	22.3	22.3	22.3	22.1	17.3	58.7	20.5	27.1	23.2	26.0	29.9	28.9	28.1
Lane 9	Space Mean Speed (mph)						51.1		47.5		56.4			
Lane 9	Density (veh/ln/mi)						24.4		15.5		30.2			
Lane 10	Space Mean Speed (mph)						55.5			54.6				
Lane 10	Density (veh/ln/mi)						15.3			32.5				

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100 Node Number ← Auxiliary Lane Length

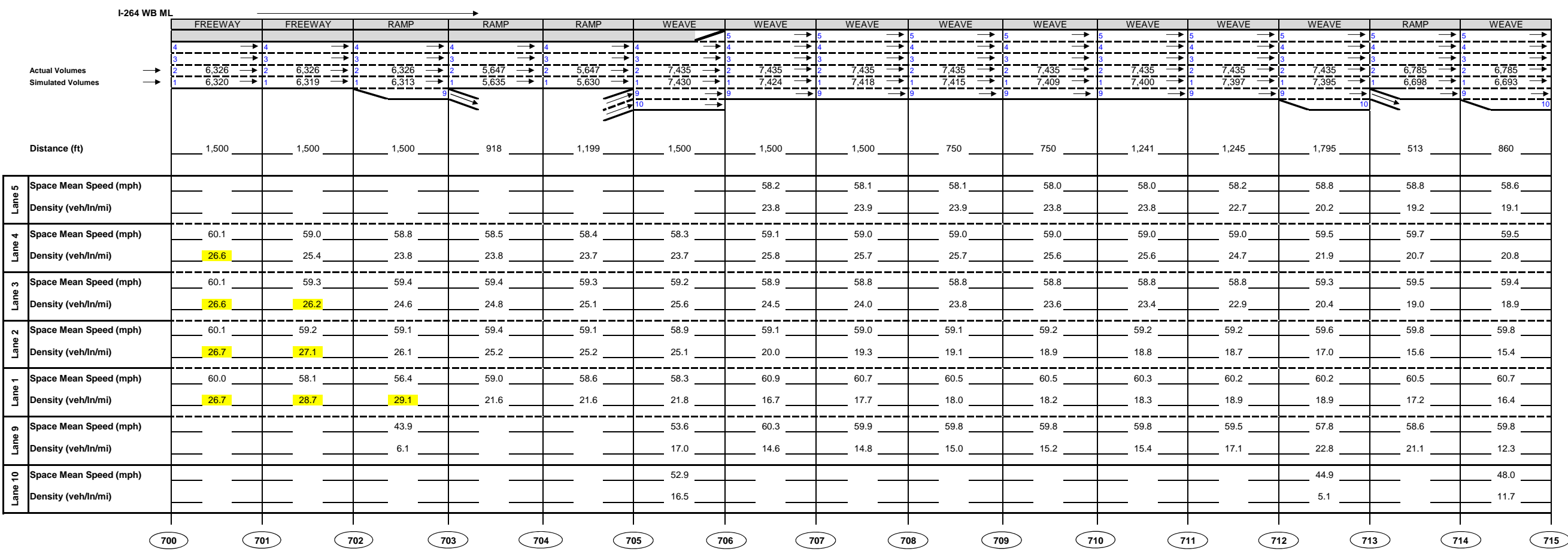
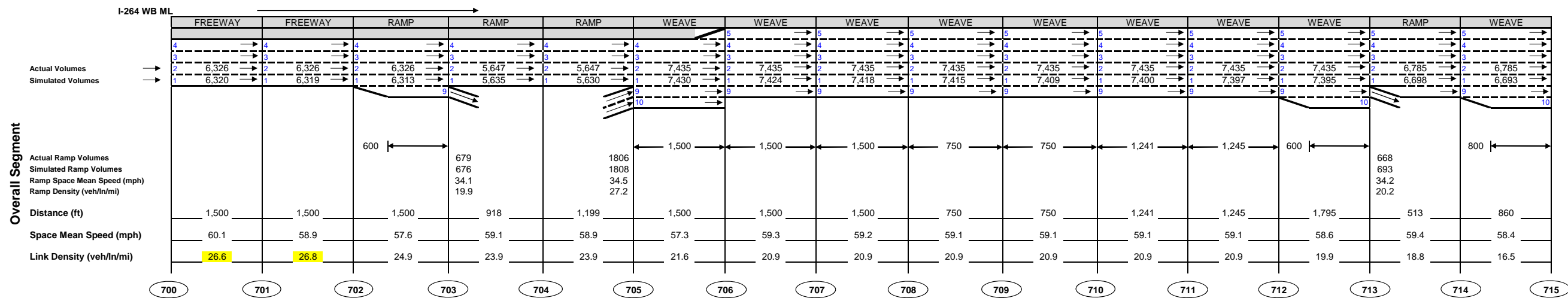
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



AM Build Preferred Alternative - Link Descriptions

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	18.1	C	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.8	A
EB I-264 ML to EB I-264 CD (Diverge)	505,506	14.1	B	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	18.6	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	13.0	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	13.6	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	11.9	A	EB I-264 CD to EB I-264 ML (Merge)	517,518	18.8	B
NB Military Hwy to EB I-264 CD (Merge)	556,557	14.7	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.8	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.7	A	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.3	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.2	B	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.6	B
EB I-64 to WB I-264 CD (Merge)	759,760	13.6	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.5	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	17.1	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	18.9	B
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	12.0	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	29.1	D
SB Military Hwy to WB I-264 CD (Merge)	764,765	14.8	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	28.6	D	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.8	C
WB I-264 West of Military Hwy (Freeway)	734,735	26.9	D	EB I-264 to NB/SB Witchduck Rd (Diverge)	521,522	21.3	C
I-64/I-264 Interchange				NB/SB Witchduck Rd & I-264 EB (Merge)	522,523	19.8	B
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.7	A	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.7	C
EB I-264 ML to WB I-64 (Diverge)	510,511	10.6	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.8	D
EB I-264 CD to EB I-64 (Diverge)	557,558	13.4	B	WB I-264 to Witchduck Rd (Diverge)	719,720	26.5	C
EB/WB I-64 & EB I-264 CD (Weave)	559,560	14.8	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.3	C
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	19.5	B	Independence Boulevard Interchange			
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.8	A	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.7	C
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	29.1	D	EB I-264 to SB Independence Blvd (Diverge)	526,527	19.7	B
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	29.4	D	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	16.1	B
WB I-264 ML to EB I-64 (Diverge)	728,729	29.1	D	NB Independence Blvd to EB I-264 (Merge)	530,531	17.2	B
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.6	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.2	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	17.2	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	27.0	D
EB I-64 to WB I-264 CD (Merge)	759,760	13.6	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	25.7	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.2	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	21.9	C
EB I-64 North of I-264 (Freeway)	301,302	22.4	C	SB Independence Blvd to WB I-264 (Merge)	716,717	26.5	C
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	21.0	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.8	D
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	26.6	C	Rosemont Road Interchange			
EB I-64 South of I-264 (Freeway)	312,313	26.0	D	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.2	C
WB I-64 South of I-264 (Freeway)	101,102	25.5	C	EB I-264 to Rosemont Rd (Diverge)	535,536	19.8	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.8	C	SB Rosemont Rd to EB I-264 (Merge)	537,538	15.2	B
WB I-64 to I-264 EB (Diverge)	104,105	25.5	C	NB Rosemont Rd to EB I-264 (Merge)	538,539	13.9	B
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	17.2	B	EB I-264 East of Rosemont Rd (Freeway)	540,541	17.3	B
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	22.3	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	31.7	D
WB I-64 North of I-264 (Freeway)	110,111	22.6	C	WB I-264 to Rosemont Rd (Diverge)	702,703	29.7	D
				NB Rosemont Rd to WB I-264 (Merge)	704,705	29.3	D
				SB Rosemont Rd to WB I-264 (Merge)	705,706	27.8	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	27.0	D



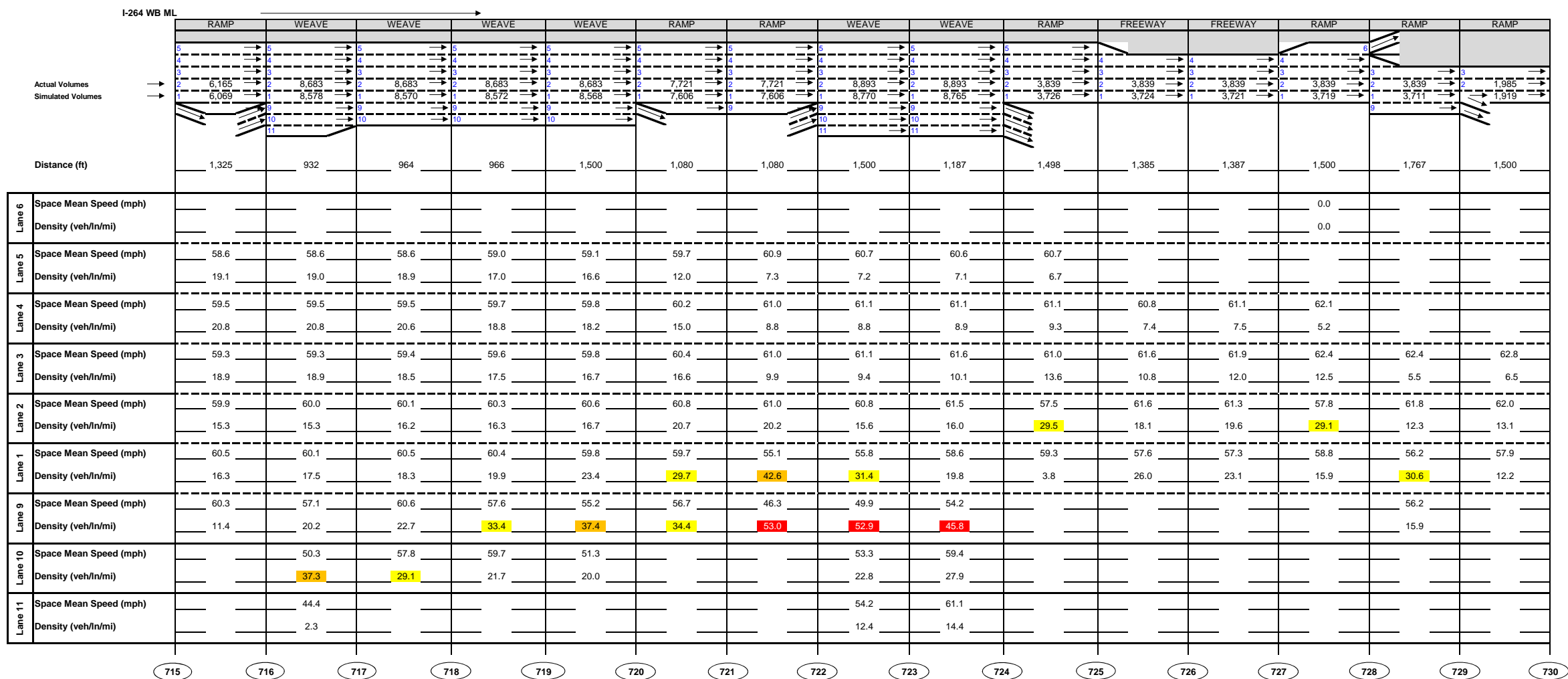
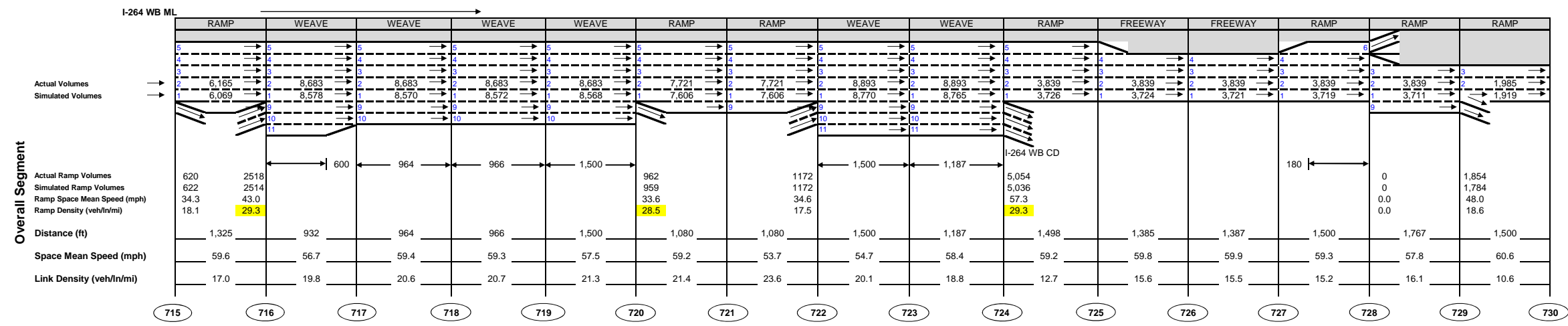
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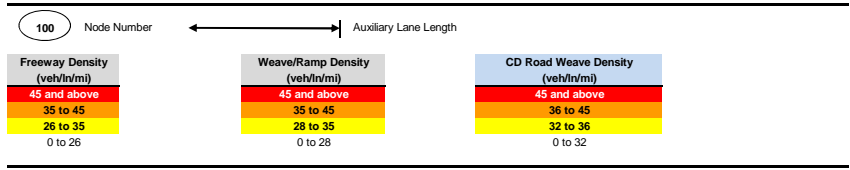


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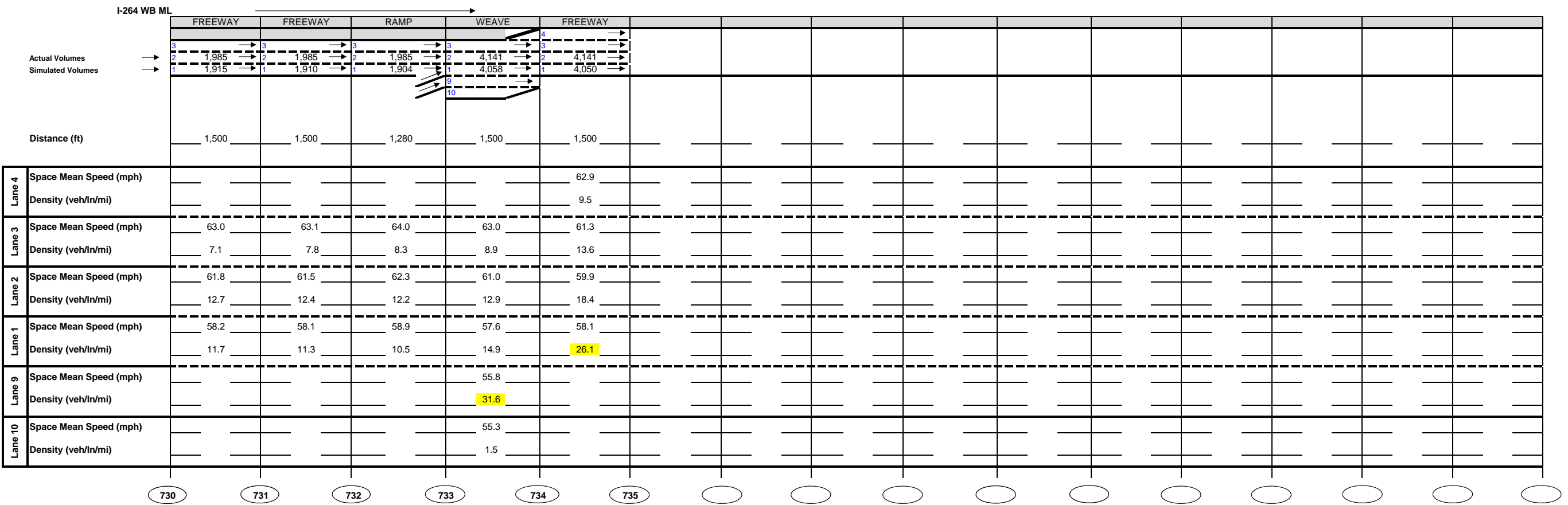
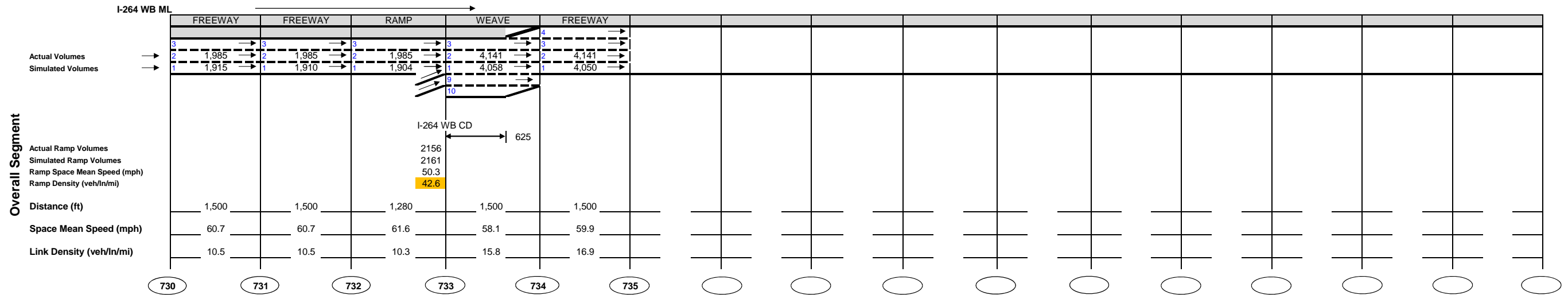




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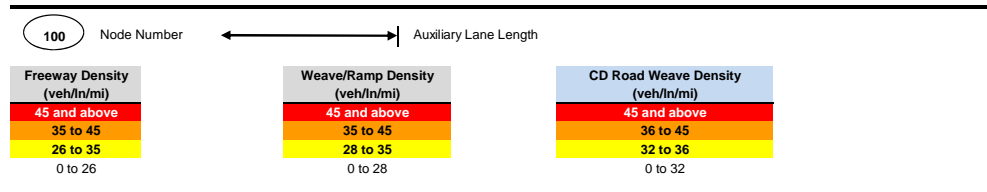


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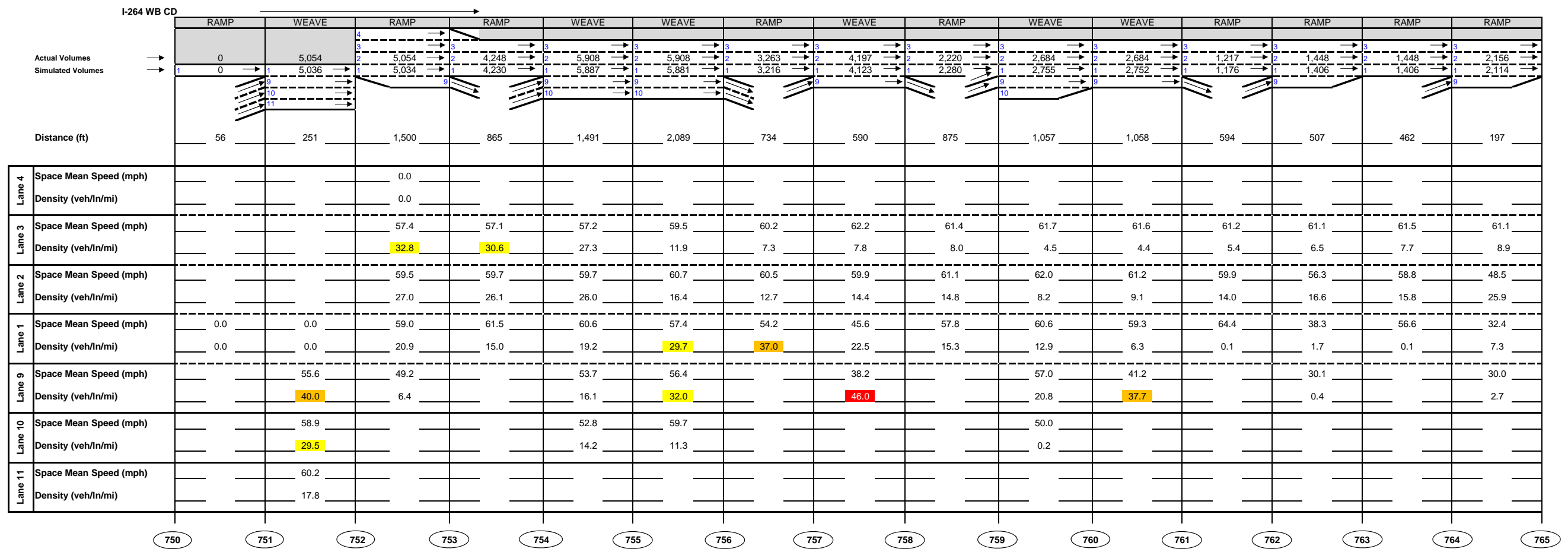
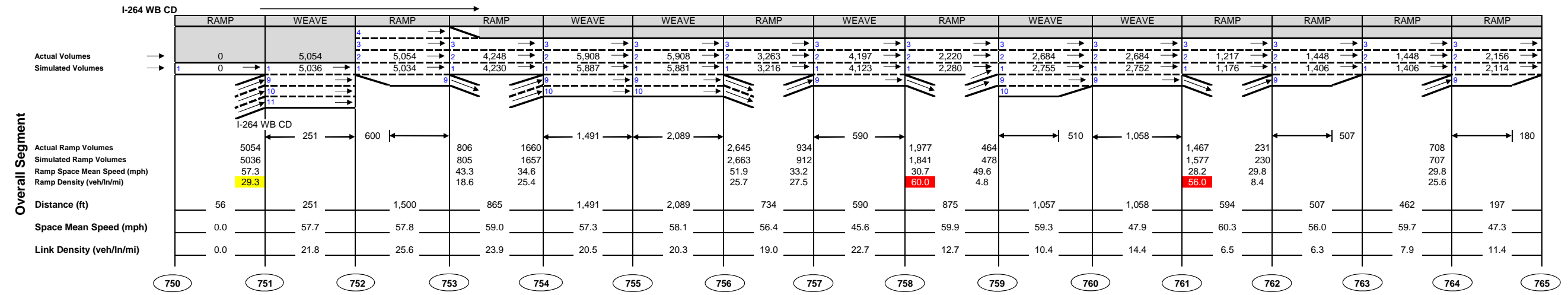
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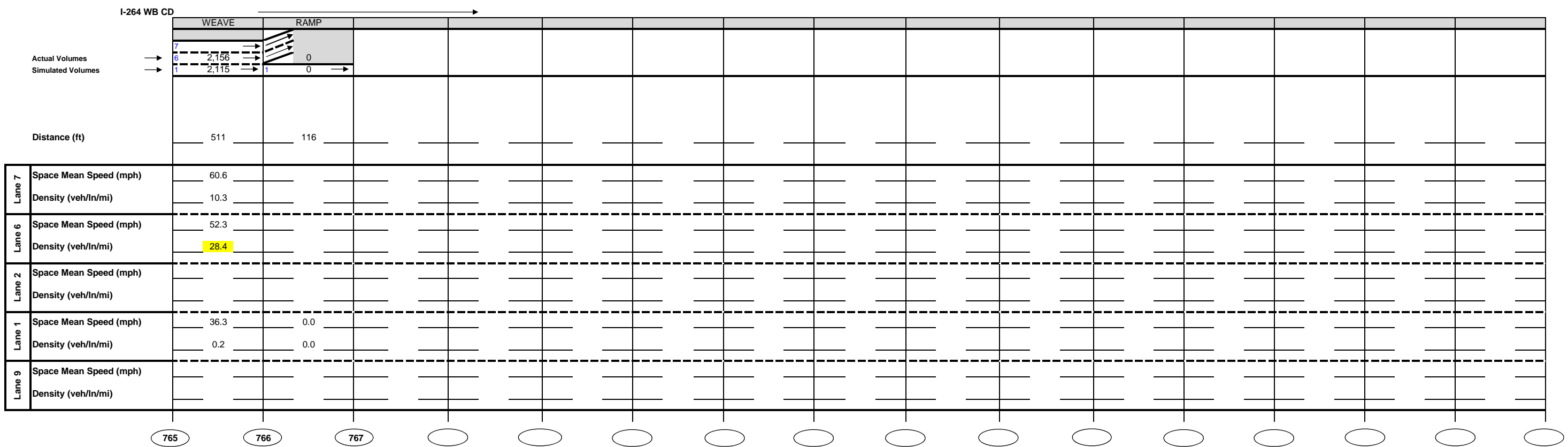
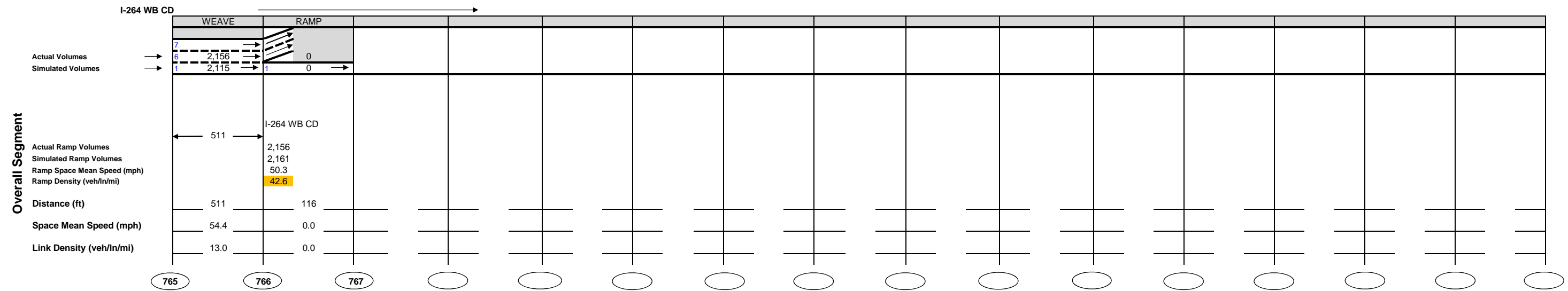


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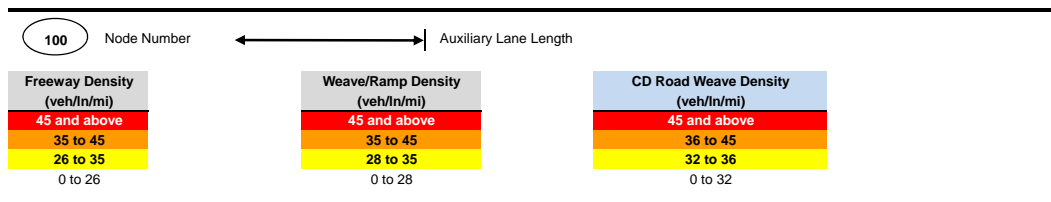


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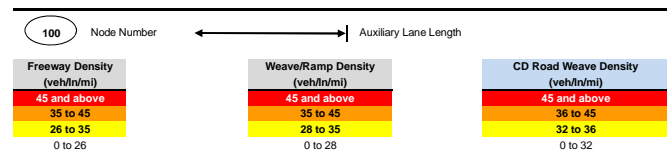


Overall Segment	I-64 WB											
	100	101	102	103	104	105	106	107	108	109	110	111
Actual Volumes	7,887	7,887	7,887	7,887	7,887	4,470	4,470	3,536	7,742	7,742	7,742	
Simulated Volumes	7,881	7,881	7,878	7,875	7,874	4,423	4,417	3,499	7,723	7,708	7,693	
Actual Ramp Volumes			250	0	1,500	3,417	1,070	934	4206	400		
Simulated Ramp Volumes				0		3,444		914	4236			
Ramp Space Mean Speed (mph)				0.0		46.4		33.1	50.2			
Ramp Density (veh/ln/mi)				0.0		37.1		27.6	28.1			
Distance (ft)	1,513	1,500	1,500	2,004	1,500	869	1,070	1,041	1,500	1,500	1,500	
Space Mean Speed (mph)	60.2	59.0	58.7	58.1	52.1	55.3	56.5	59.5	51.9	58.7	58.5	
Link Density (veh/ln/mi)	26.5	26.7	26.0	27.1	30.3	26.7	19.6	19.6	28.3	26.3	26.3	

Lane	I-64 WB											
	100	101	102	103	104	105	106	107	108	109	110	111
Distance (ft)	1,513	1,500	1,500	2,004	1,500	869	1,070	1,041	1,500	1,500	1,500	
Lane 6												
Space Mean Speed (mph)			0.0									
Density (veh/ln/mi)			0.0									
Lane 5												
Space Mean Speed (mph)	60.1	58.8	58.3	58.6						60.0	59.9	
Density (veh/ln/mi)	26.6	26.6	26.6	22.4						19.8	20.6	
Lane 4												
Space Mean Speed (mph)	60.1	59.1	59.0	59.1						59.3	59.3	
Density (veh/ln/mi)	26.6	26.7	26.9	25.9						23.4	23.3	
Lane 3												
Space Mean Speed (mph)	60.2	59.3	59.0	57.3	59.6	58.6	60.2	60.3	60.2	59.2	59.0	
Density (veh/ln/mi)	26.5	26.8	27.2	32.6	16.2	16.2	16.5	17.5	18.8	25.1	25.8	
Lane 2												
Space Mean Speed (mph)	60.1	59.2	59.0	57.5	57.6	57.7	59.9	59.8	59.3	58.1	58.0	
Density (veh/ln/mi)	26.5	26.8	27.1	31.7	23.4	24.4	22.9	23.4	23.7	30.7	30.2	
Lane 1												
Space Mean Speed (mph)	60.1	58.8	58.2	58.6	50.1	52.5	57.8	58.5	57.6	57.4	57.3	
Density (veh/ln/mi)	26.5	26.5	26.5	22.9	43.2	39.3	20.3	17.9	22.8	32.6	31.7	
Lane 9												
Space Mean Speed (mph)					46.4		47.5		53.0			
Density (veh/ln/mi)					48.8		18.4		32.1			
Lane 10												
Space Mean Speed (mph)					56.8				43.1			
Density (veh/ln/mi)					21.6				47.5			
Lane 11												
Space Mean Speed (mph)									31.1			
Density (veh/ln/mi)									4.1			

NOTE: numbers in chart are provided for illustrative purposes only

LEGEND



This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).

I-264 EB CD

	RAMP	WEAVE	WEAVE	RAMP	WEAVE	RAMP	WEAVE	WEAVE	RAMP	RAMP	RAMP	FREEWAY	RAMP	WEAVE	RAMP
Actual Volumes	0	3,328	3,328	2,234	3,127	3,127	4,012	4,012	3,060	1,499	2,052	2,052	2,052	2,735	1,725
Simulated Volumes	0	3,267	3,267	2,177	3,069	3,069	3,954	3,955	2,968	1,390	1,922	1,921	1,921	2,604	1,626
Actual Ramp Volumes	3328			1,094	893	885	959	519	952	1,561	553			1,062	1,010
Simulated Ramp Volumes	3269			1,090	893	883	959	519	988	1,577	531			683	979
Ramp Space Mean Speed (mph)	54.3			34.9	29.6	24.4			47.6	57.3	33.8			52.4	47.8
Ramp Density (veh/ln/mi)	30.1			31.3	30.2	36.2			20.7	27.5	15.7			13.0	20.5
Distance (ft)	89	362	449	497	500	587	959	519	804	770	400	499	856	1,062	628
Space Mean Speed (mph)	0.0	55.7	54.8	59.5	52.9	59.1	55.1	57.1	58.5	60.5	53.1	58.2	59.8	56.5	59.9
Link Density (veh/ln/mi)	0.0	19.6	20.0	18.3	19.4	17.3	17.9	17.3	16.9	11.5	12.1	16.5	16.1	15.4	13.6

I-264 EB CD

	RAMP	WEAVE	WEAVE	RAMP	WEAVE	RAMP	WEAVE	WEAVE	RAMP	RAMP	RAMP	FREEWAY	RAMP	WEAVE	RAMP
Actual Volumes	0	3,328	3,328	2,234	3,127	3,127	4,012	4,012	3,060	1,499	2,052	2,052	2,052	2,735	1,725
Simulated Volumes	0	3,267	3,267	2,177	3,069	3,069	3,954	3,955	2,968	1,390	1,922	1,921	1,921	2,604	1,626
Distance (ft)	89	362	449	497	500	587	959	519	804	770	400	499	856	1,062	628
Lane 3															
Space Mean Speed (mph)						59.9	60.6	60.9							
Density (veh/ln/mi)						16.8	11.0	10.2							
Lane 2															
Space Mean Speed (mph)			0.0	59.1	59.6	60.4	58.4	60.2	60.9	60.7	59.5	59.7	60.4	60.2	61.2
Density (veh/ln/mi)			0.0	22.8	20.5	17.4	18.9	14.1	11.5	13.1	15.1	16.2	15.5	11.3	9.4
Lane 1															
Space Mean Speed (mph)	0.0	0.0	57.1	60.0	57.8	57.0	54.0	57.0	60.3	60.3	49.9	56.8	59.3	58.2	59.3
Density (veh/ln/mi)	0.0	0.0	24.2	13.9	17.0	17.8	22.4	26.2	11.5	9.9	19.1	16.8	16.6	16.8	17.7
Lane 9															
Space Mean Speed (mph)		54.9	57.9		42.1		50.1	52.7	56.7		35.5				
Density (veh/ln/mi)		30.0	15.9		20.5		19.4	18.8	27.7		2.0				18.0
Lane 10															
Space Mean Speed (mph)		56.6	49.4												
Density (veh/ln/mi)		28.7	19.6												

NOTE: numbers in chart are provided for illustrative purposes only

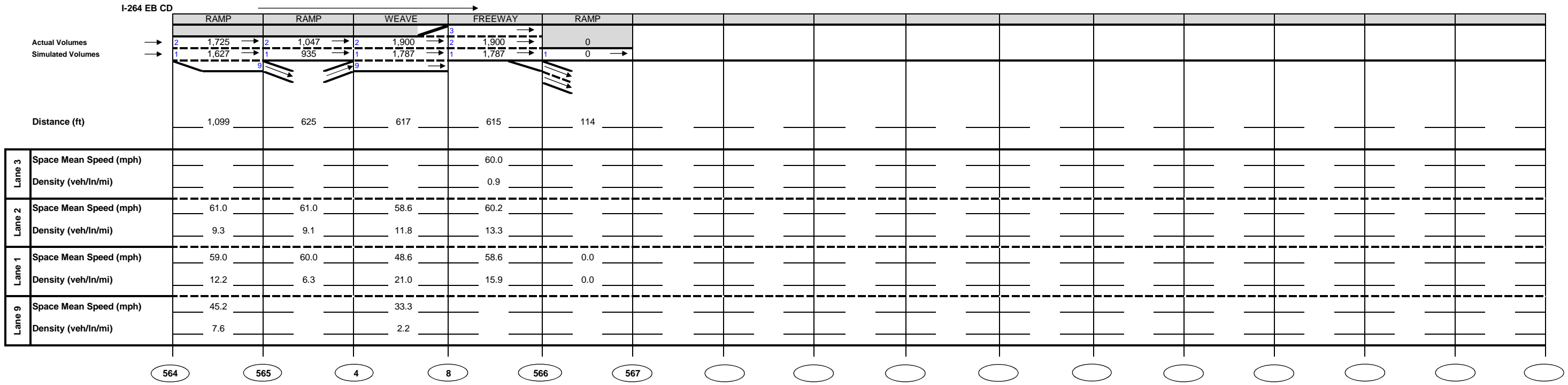
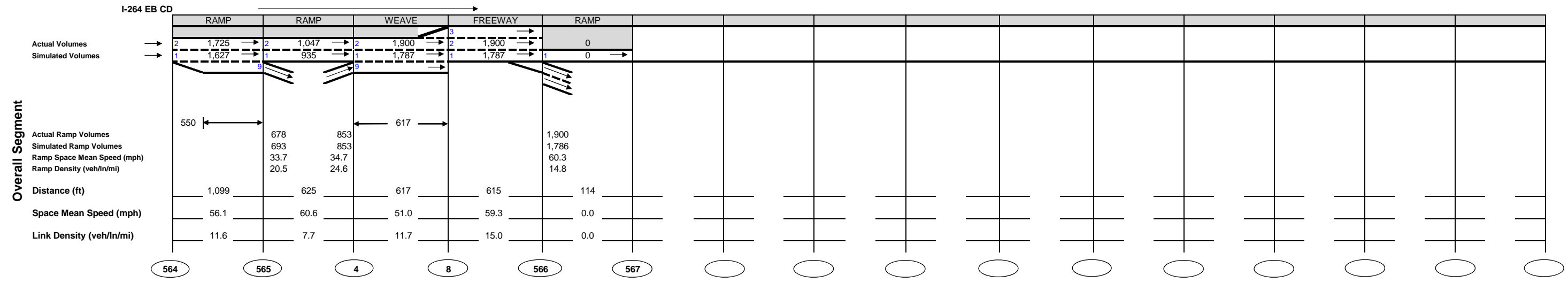
LEGEND

100 Node Number Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

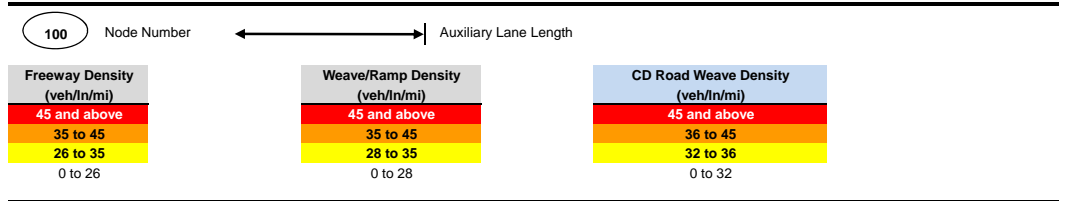
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NOTE: numbers in chart are provided for illustrative purposes only

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I-264 EB ML

	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	
Actual Volumes	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	
Simulated Volumes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Actual Ramp Volumes							3,328							624	4669	
Simulated Ramp Volumes							3,269							624	4737	
Ramp Space Mean Speed (mph)							54.3							61.0	56.2	
Ramp Density (veh/ln/mi)							30.1							11.2	28.1	
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Space Mean Speed (mph)	59.4	58.1	57.7	57.4	56.0	53.8	59.7	59.6	58.0	57.6	57.1	58.2	58.0	57.9	59.0	
Link Density (veh/ln/mi)	29.4	29.7	29.9	30.0	30.8	24.5	15.2	15.2	15.6	15.7	19.2	20.8	20.8	20.8	18.0	
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

I-264 EB ML

	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	
Actual Volumes	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	
Simulated Volumes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Lane 6																
Space Mean Speed (mph)														59.2	60.6	
Density (veh/ln/mi)														4.5	7.9	
Lane 4																
Space Mean Speed (mph)	60.3	59.9	59.1	58.5	59.5	59.4	58.9	58.8	57.0	57.7	58.7					
Density (veh/ln/mi)	13.0	13.3	14.2	14.3	8.0	7.6	7.7	7.7	8.0	7.9	2.1					
Lane 3																
Space Mean Speed (mph)	59.1	57.5	57.1	56.9	54.2	59.3	59.6	59.3	57.6	58.0	58.4	58.2	59.1		61.0	
Density (veh/ln/mi)	36.5	36.5	35.6	35.5	39.9	20.9	18.7	18.5	18.9	20.2	11.8	7.6	5.9		13.2	
Lane 2																
Space Mean Speed (mph)	59.4	58.2	57.9	57.8	57.2	56.7	60.2	60.1	58.2	56.9	57.1	58.8	58.5	58.2	59.2	
Density (veh/ln/mi)	35.2	35.4	35.7	35.9	38.3	26.8	19.3	19.2	23.7	30.8	27.3	26.1	28.3	29.9	24.4	
Lane 1																
Space Mean Speed (mph)	59.5	57.9	57.4	57.1	55.8	48.7	59.7	59.8	59.0	61.1	56.2	57.6	57.3	57.3	57.3	
Density (veh/ln/mi)	33.1	33.6	34.1	34.4	37.0	31.6	14.8	15.3	11.8	4.0	22.2	28.5	28.2	28.1	26.4	
Lane 9																
Space Mean Speed (mph)						50.7										
Density (veh/ln/mi)						32.2										
Lane 10																
Space Mean Speed (mph)						56.3										
Density (veh/ln/mi)						9.0										
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

NOTE: numbers in chart are provided for illustrative purposes only

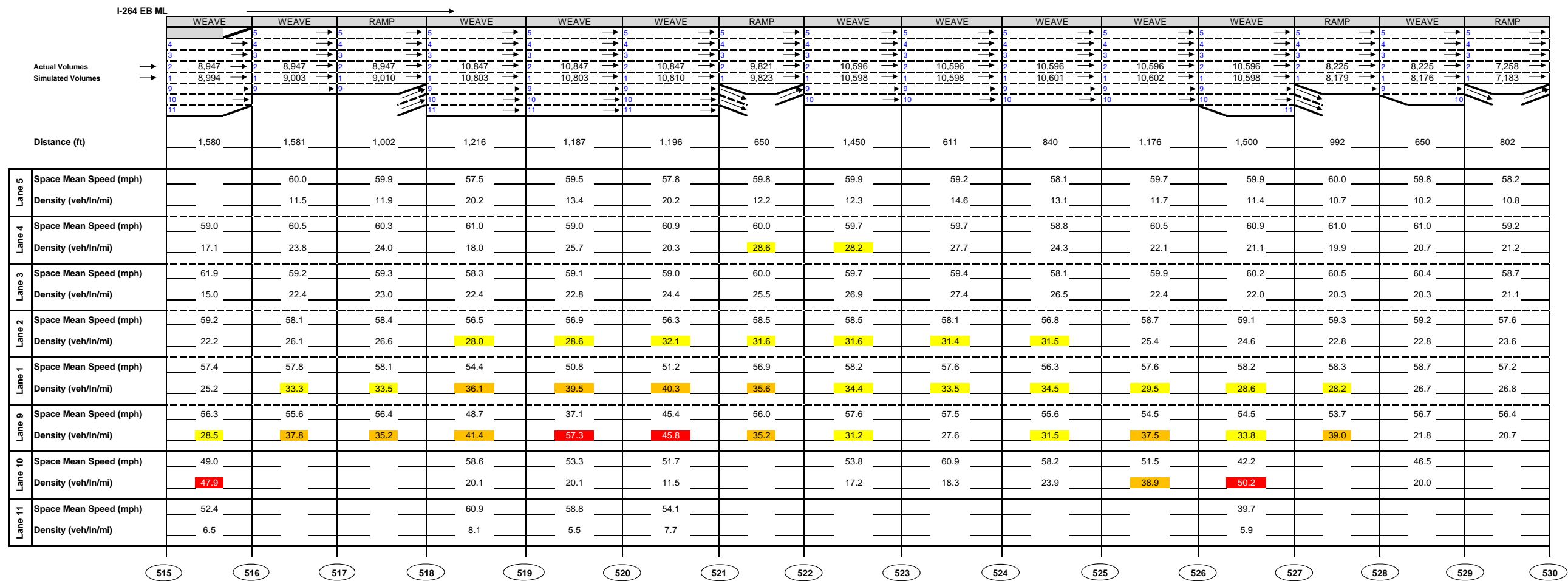
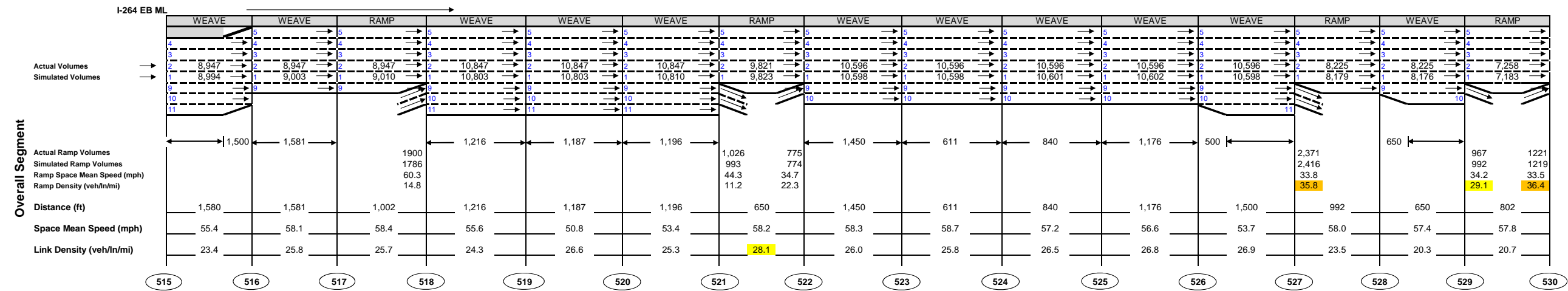
LEGEND

100 Node Number ← Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

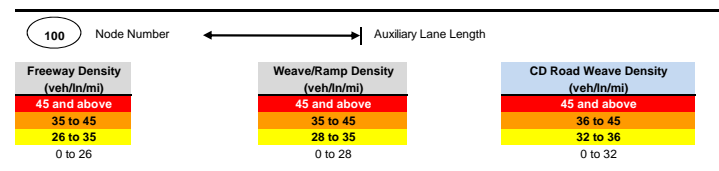
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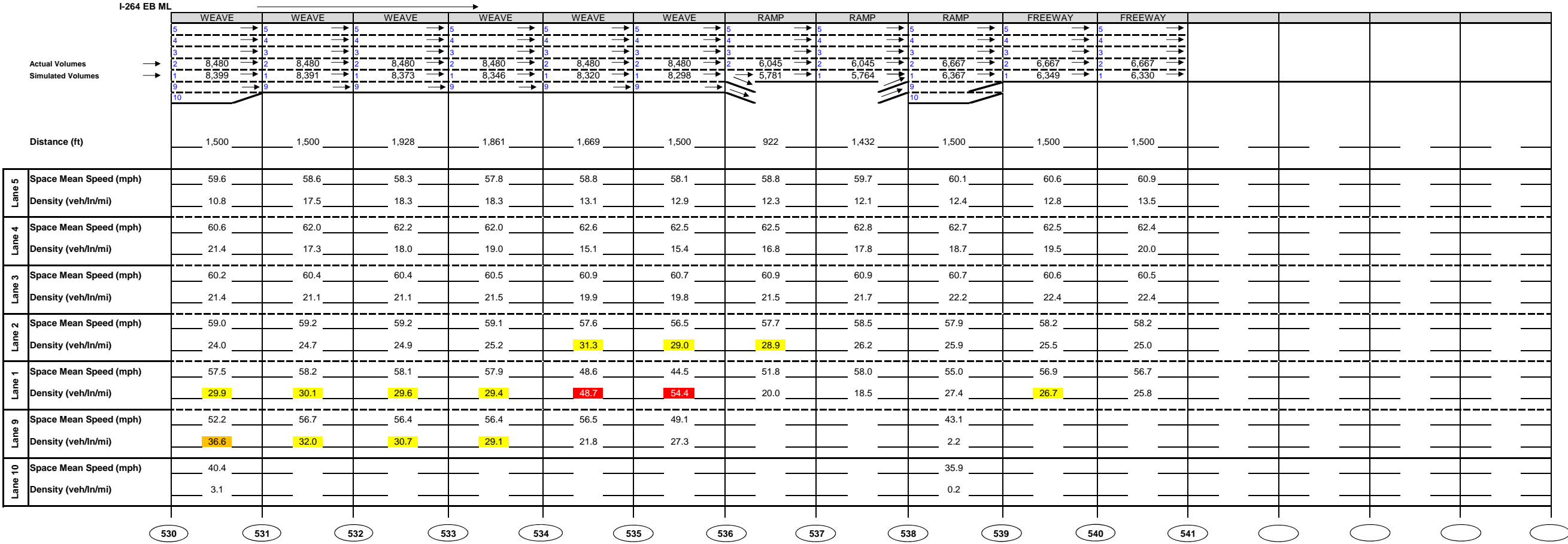
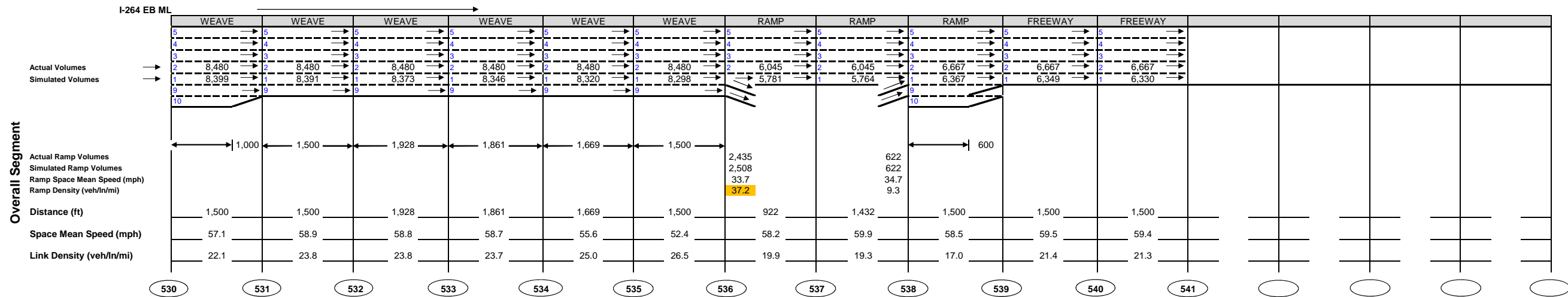


NOTE: numbers in chart are provided for illustrative purposes only

LEGEND

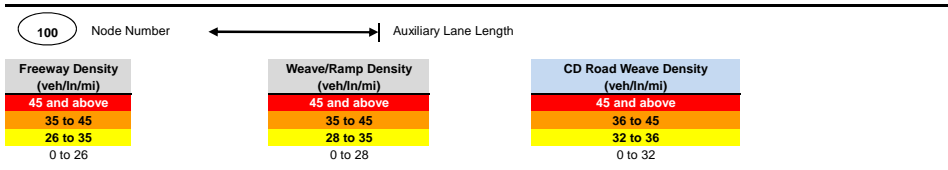


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NOTE: numbers in chart are provided for illustrative purposes only

LEGEND



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Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,142	6,142	6,142	6,142	6,142	6,142	6,142	3,743	5,720	5,167	7,973	7,973	7,973	7,973
Simulated Volumes	6,150	6,156	6,162	6,169	6,180	6,196	3,771	5,816	5,085	7,852	7,848	7,844	7,835	
Actual Ramp Volumes						1,500	2,399	1,330	553	2,806				
Simulated Ramp Volumes							2,429	1,977	530	2,766				
Ramp Space Mean Speed (mph)							47.9	32.1	34.1	46.9				
Ramp Density (veh/ln/mi)							16.9	57.3	15.6	29.5				
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)	60.7	59.9	59.6	59.4	58.1		49.0	58.9	53.2	58.6	57.9	58.7	58.6	58.6
Link Density (veh/ln/mi)	20.5	20.6	20.7	20.8	21.2		25.3	21.4	26.4	29.0	27.1	26.7	26.8	26.8

Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,142	6,142	6,142	6,142	6,142	6,142	6,142	3,743	5,720	5,167	7,973	7,973	7,973	7,973
Simulated Volumes	6,150	6,156	6,162	6,169	6,180	6,196	3,771	5,816	5,085	7,852	7,848	7,844	7,835	
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 5	Space Mean Speed (mph)	60.6	59.6	59.1	58.9	59.4					59.7	59.4	59.2	
Lane 5	Density (veh/ln/mi)	20.5	20.3	20.1	19.9	16.8					26.0	27.2	28.0	
Lane 4	Space Mean Speed (mph)	60.7	60.1	59.9	59.8	59.6					58.8	58.6	58.6	
Lane 4	Density (veh/ln/mi)	20.4	20.6	21.1	21.4	21.9					29.3	28.9	28.5	
Lane 3	Space Mean Speed (mph)	60.7	60.0	59.8	59.7	54.5	58.0	60.4	59.9	60.1	60.0	57.2	57.3	57.4
Lane 3	Density (veh/ln/mi)	20.5	20.6	20.9	21.1	30.9	17.0	18.6	19.9	22.4	24.0	27.6	26.0	25.3
Lane 2	Space Mean Speed (mph)	60.6	59.9	59.8	59.7	59.8	53.3	59.3	57.6	59.2	59.1	60.3	60.0	59.8
Lane 2	Density (veh/ln/mi)	20.6	20.8	21.1	21.2	21.4	26.3	23.8	28.9	30.2	30.1	26.8	27.8	28.0
Lane 1	Space Mean Speed (mph)	60.7	59.7	59.1	58.9	59.6	40.7	57.1	49.5	57.0	57.1	57.6	57.6	57.6
Lane 1	Density (veh/ln/mi)	20.6	20.4	20.3	20.3	15.2	51.7	21.6	43.3	34.2	31.1	24.0	24.0	24.1
Lane 9	Space Mean Speed (mph)						53.4		45.2		58.0			
Lane 9	Density (veh/ln/mi)						19.8		13.4		25.0			
Lane 10	Space Mean Speed (mph)						56.2				55.4			
Lane 10	Density (veh/ln/mi)						11.5				25.4			

NOTE: numbers in chart are provided for illustrative purposes only

LEGEND

100 Node Number ← Auxiliary Lane Length

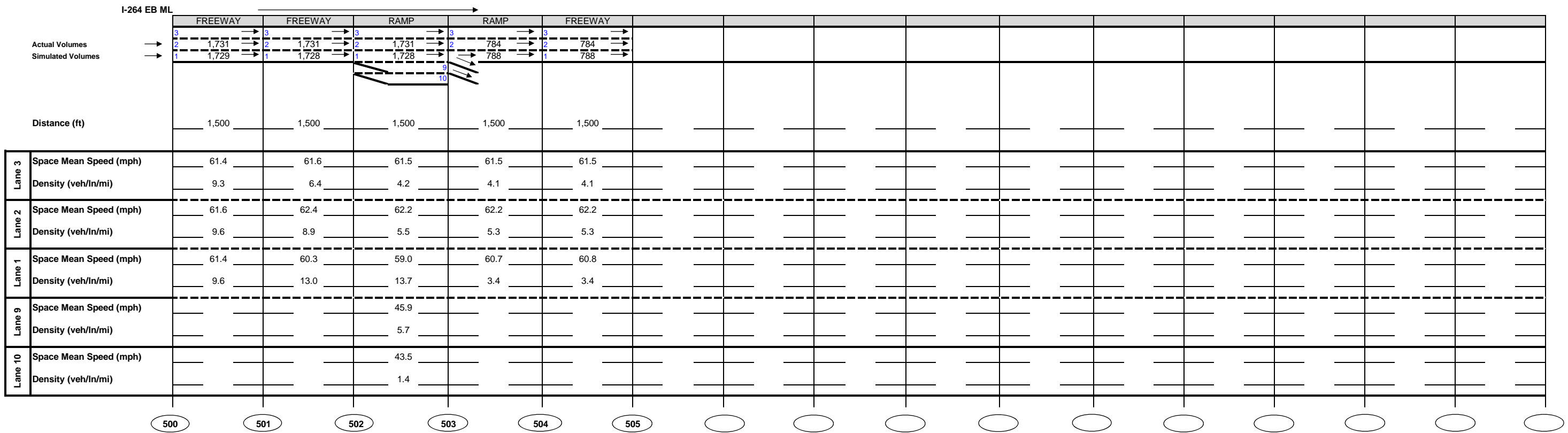
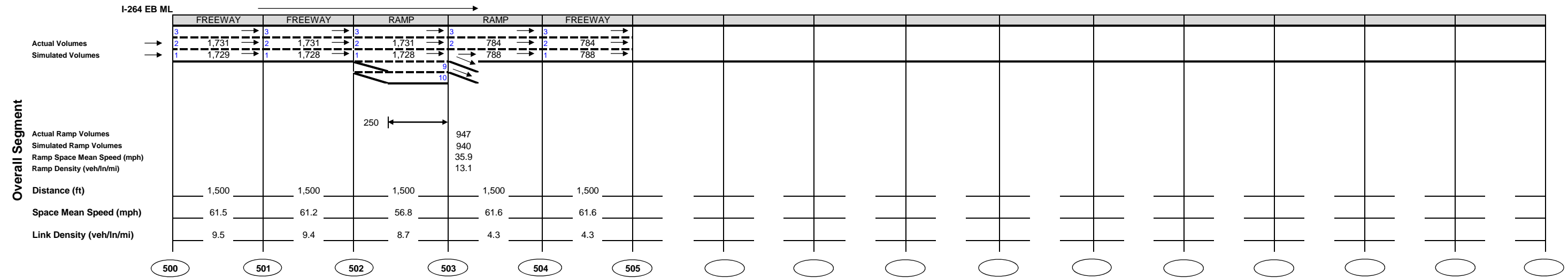
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



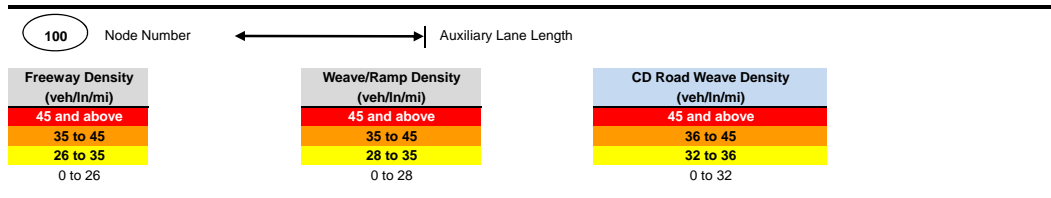
PM Build Preferred Alternative - Link Descriptions

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	29.9	D	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	18.0	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	24.5	C	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	20.3	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	20.0	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	11.6	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	19.4	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	25.7	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	17.9	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.3	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.2	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.8	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.5	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.3	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.4	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.6	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	14.4	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	20.5	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	6.3	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.5	B
SB Military Hwy to WB I-264 CD (Merge)	764,765	11.4	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	15.8	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.3	C
WB I-264 West of Military Hwy (Freeway)	734,735	16.9	B	EB I-264 to NB/SB Witchduck Rd (Diverge)	521,522	28.1	D
I-64/I-264 Interchange				NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	26.0	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.2	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.8	D
EB I-264 ML to WB I-64 (Diverge)	510,511	19.2	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.7	C
EB I-264 CD to EB I-64 (Diverge)	557,558	17.3	B	WB I-264 to Witchduck Rd (Diverge)	719,720	21.3	C
EB/WB I-64 & EB I-264 CD (Weave)	559,560	12.1	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.8	C
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	16.1	B	Independence Boulevard Interchange			
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	18.0	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.8	D
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.5	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	26.9	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	15.2	B	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	20.3	C
WB I-264 ML to EB I-64 (Diverge)	728,729	16.1	B	NB Independence Blvd to EB I-264 (Merge)	530,531	22.1	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.3	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.7	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	22.7	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.9	C
EB I-64 to WB I-264 CD (Merge)	759,760	10.4	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	19.9	B
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.5	A	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	16.5	B
EB I-64 North of I-264 (Freeway)	301,302	20.6	C	SB Independence Blvd to WB I-264 (Merge)	716,717	19.8	B
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	26.4	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.7	C
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	27.1	C	Rosemont Road Interchange			
EB I-64 South of I-264 (Freeway)	312,313	26.8	D	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.7	C
WB I-64 South of I-264 (Freeway)	101,102	26.7	D	EB I-264 to Rosemont Rd (Diverge)	535,536	26.5	C
WB I-64 to I-64 WB HOV (Diverge)	102,103	26.0	C	SB Rosemont Rd to EB I-264 (Merge)	537,538	19.3	B
WB I-64 to I-264 EB (Diverge)	104,105	30.3	D	NB Rosemont Rd to EB I-264 (Merge)	538,539	17.0	B
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	19.6	B	EB I-264 East of Rosemont Rd (Freeway)	540,541	21.3	C
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	28.3	D	WB I-264 East of Rosemont Rd (Freeway)	700,701	26.6	D
WB I-64 North of I-264 (Freeway)	110,111	26.3	D	WB I-264 to Rosemont Rd (Diverge)	702,703	24.9	C
				NB Rosemont Rd to WB I-264 (Merge)	704,705	23.9	C
				SB Rosemont Rd to WB I-264 (Merge)	705,706	21.6	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.9	C



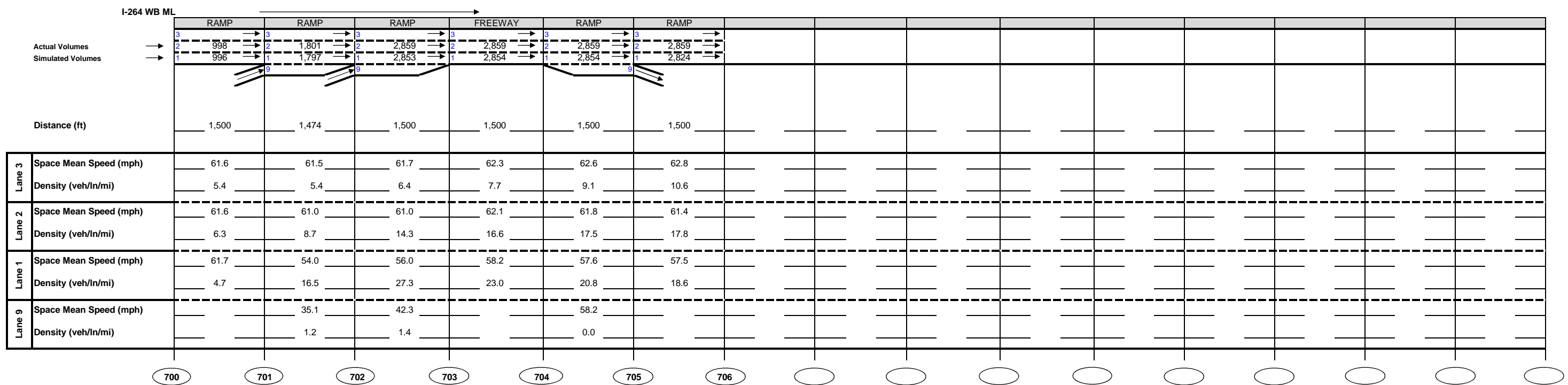
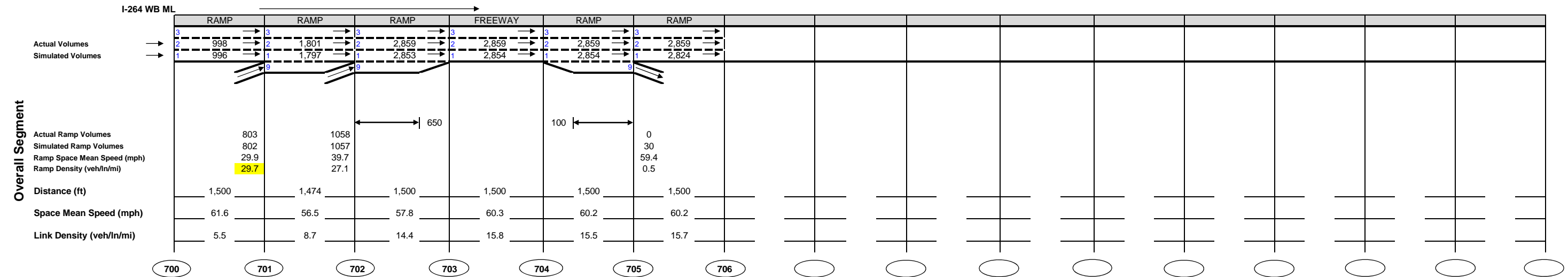
NOTE: numbers in chart are provided for illustrative purposes only

LEGEND



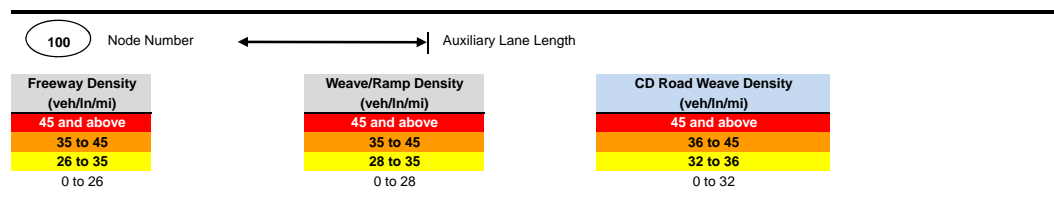
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I-264 EB ML

	500	501	502	503	504	505									
Actual Volumes	3	3	3	3	3	3									
Simulated Volumes	1	1	1	1	1	1									
Actual Ramp Volumes				1,513											
Simulated Ramp Volumes				1,497											
Ramp Space Mean Speed (mph)				35.0											
Ramp Density (veh/ln/mi)				21.4											
Distance (ft)	1,500	1,500	1,500	1,500	1,500										
Space Mean Speed (mph)	61.2	60.8	54.9	61.3	61.3										
Link Density (veh/ln/mi)	14.1	14.1	13.3	5.8	5.8										

I-264 EB ML

	500	501	502	503	504	505									
Actual Volumes	3	3	3	3	3	3									
Simulated Volumes	1	1	1	1	1	1									
Distance (ft)	1,500	1,500	1,500	1,500	1,500										
Lane 3															
Space Mean Speed (mph)	61.1	61.3	61.3	61.3	61.3	61.2									
Density (veh/ln/mi)	14.0	9.8	5.8	5.8	5.8	5.7									
Lane 2															
Space Mean Speed (mph)	61.4	62.0	61.7	62.0	61.8										
Density (veh/ln/mi)	14.3	13.6	8.2	7.4	7.3										
Lane 1															
Space Mean Speed (mph)	61.1	59.5	57.0	60.2	60.4										
Density (veh/ln/mi)	14.2	18.8	21.0	4.2	4.3										
Lane 9															
Space Mean Speed (mph)			43.6												
Density (veh/ln/mi)			9.4												
Lane 10															
Space Mean Speed (mph)			41.0												
Density (veh/ln/mi)			2.2												

NOTE: numbers in chart are provided for illustrative purposes only

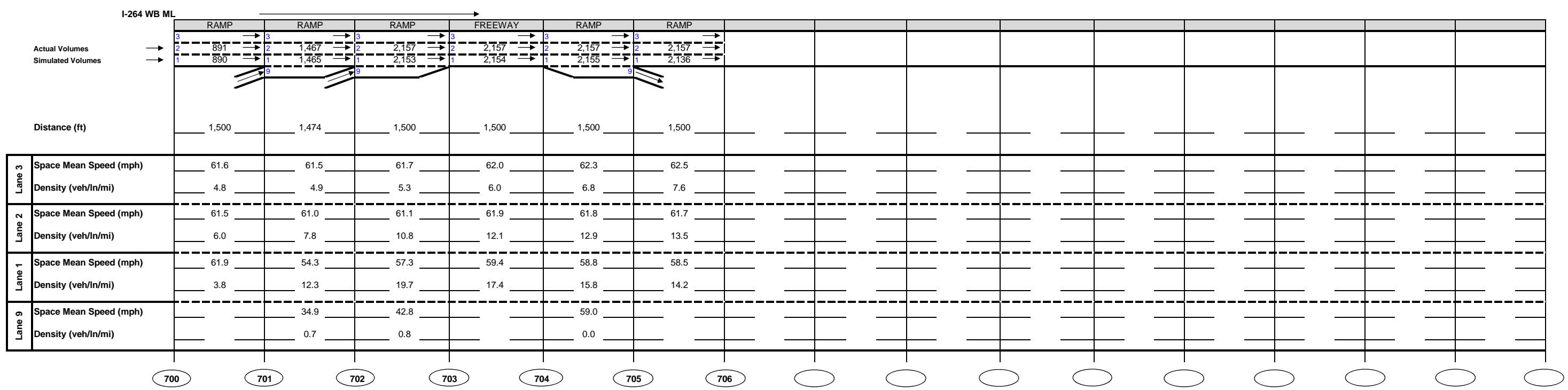
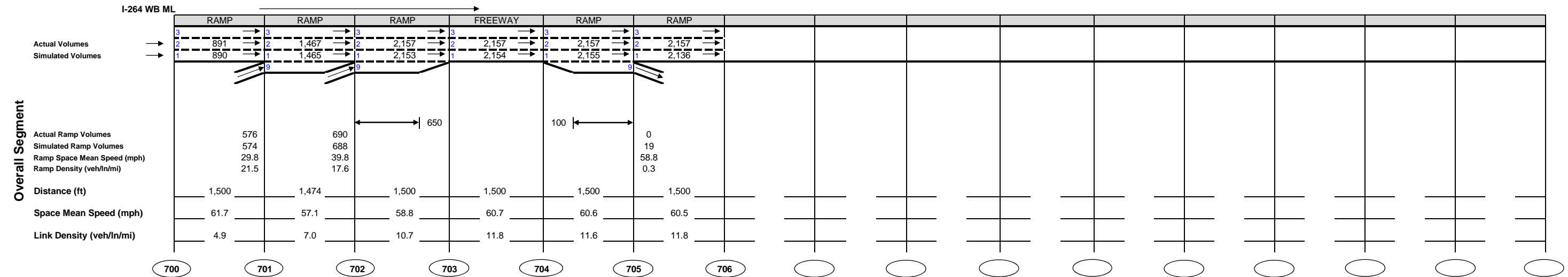
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100 Node Number Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

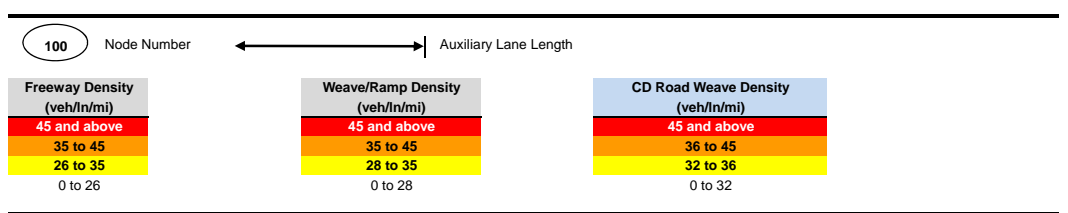
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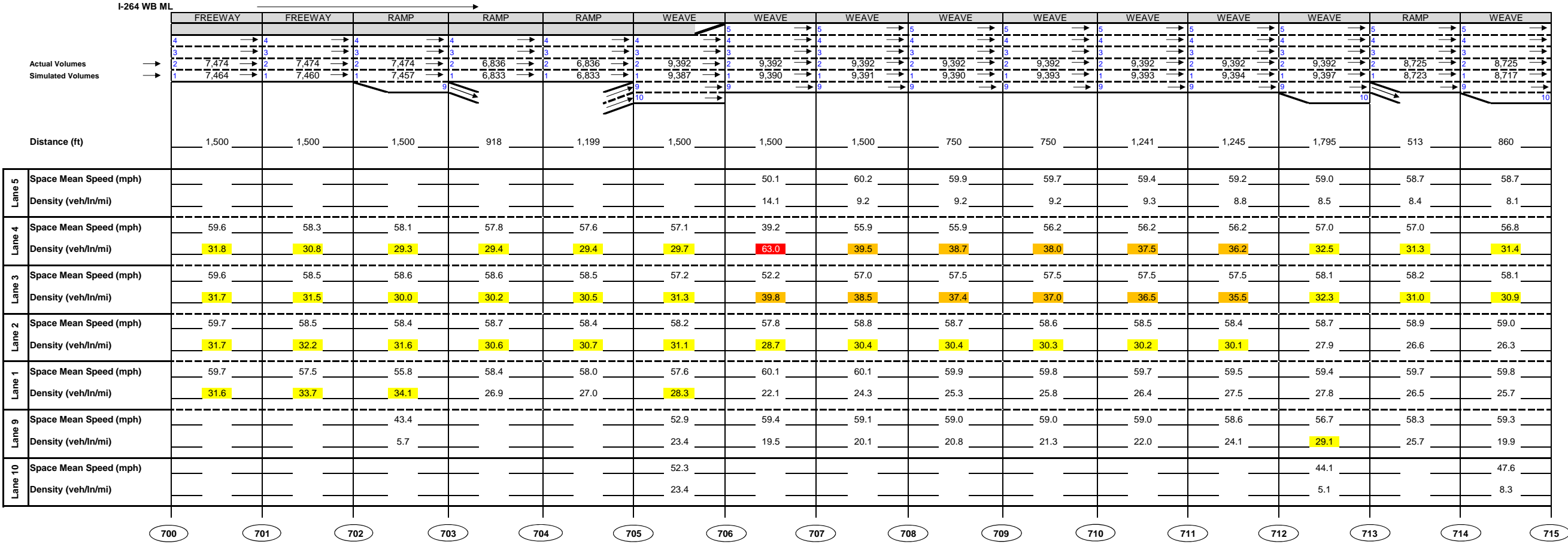
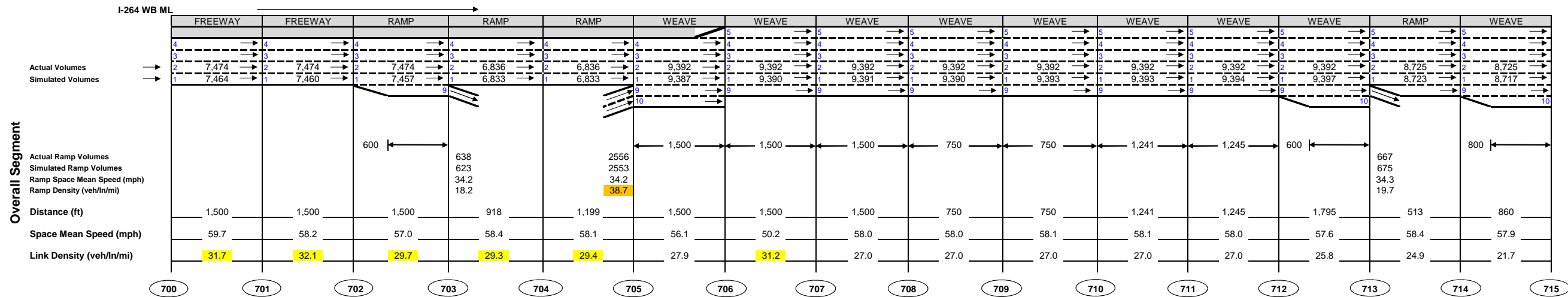


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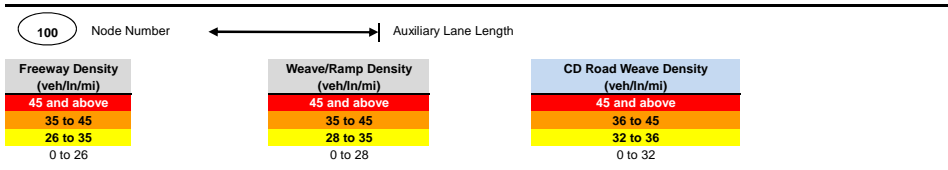
AM and PM Build Preferred Alternative - Birdneck Road Interchange Link Descriptions

Interchange	Link	AM Density	AM LOS	Interchange	Link	PM Density	PM LOS
Birdneck Road Interchange				Birdneck Road Interchange			
EB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	500,501	9.5	A	EB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	500,501	14.1	B
EB I-264 to Birdneck Rd (Diverge)	502,503	8.7	A	EB I-264 to Birdneck Rd (Diverge)	502,503	13.3	B
EB I-264 between Birdneck Rd and Parks Ave (Freeway)	503,504	4.2	A	EB I-264 between Birdneck Rd and Parks Ave (Freeway)	503,504	5.8	A
WB I-264 between Birdneck Rd and Parks Ave (Freeway)	700,701	5.4	A	WB I-264 between Birdneck Rd and Parks Ave (Freeway)	700,701	4.9	A
NB Birdneck Rd to WB I-264 (Merge)	701,702	8.7	A	NB Birdneck Rd to WB I-264 (Merge)	701,702	7.0	A
SB Birdneck Rd to WB I-264 (Merge)	702,703	14.4	B	SB Birdneck Rd to WB I-264 (Merge)	702,703	14.7	B
WB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	703,704	15.8	B	WB I-264 between First Colonial Rd and Birdneck Rd (Freeway)	703,704	11.8	B



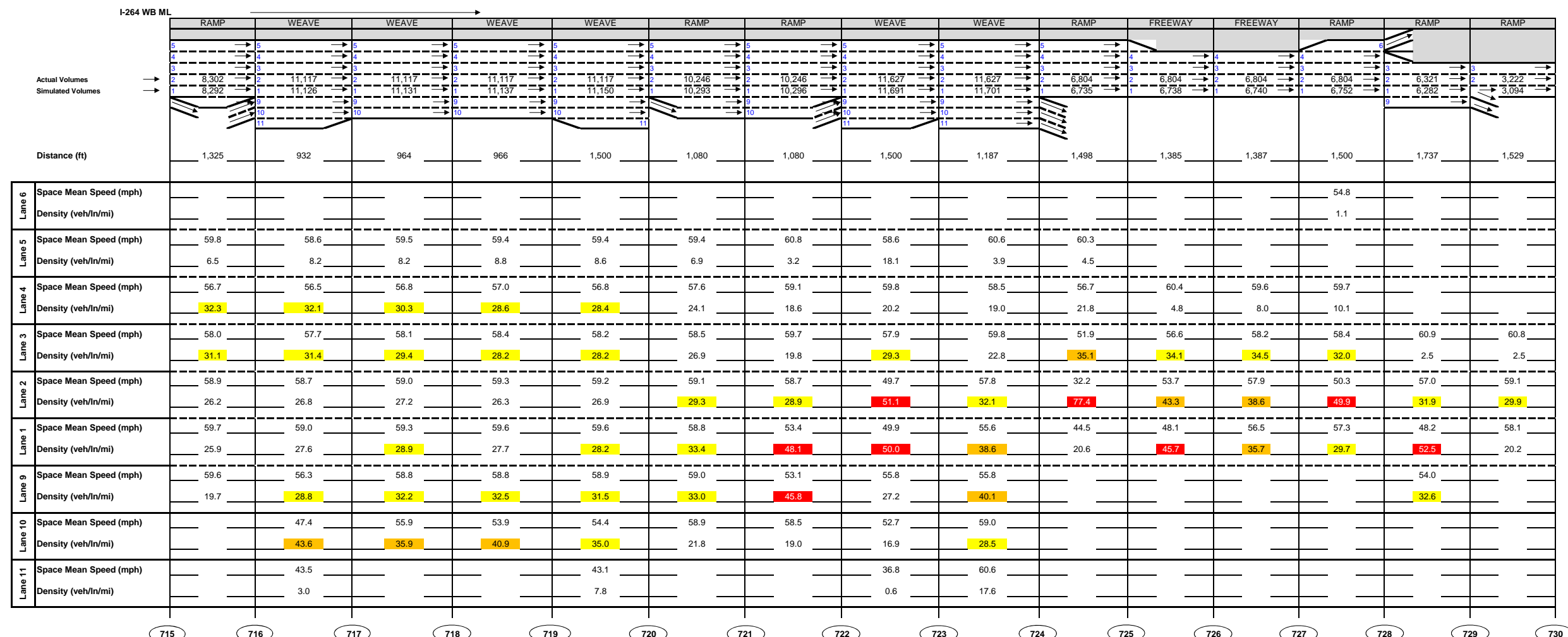
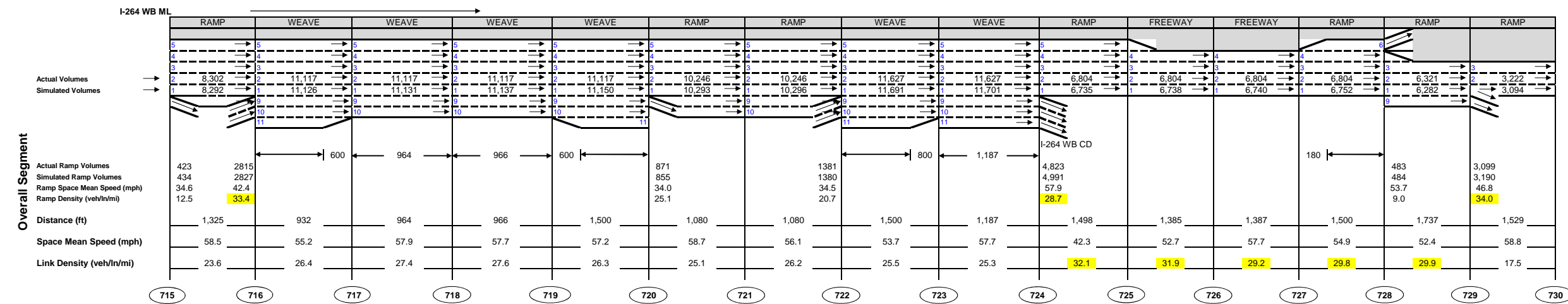
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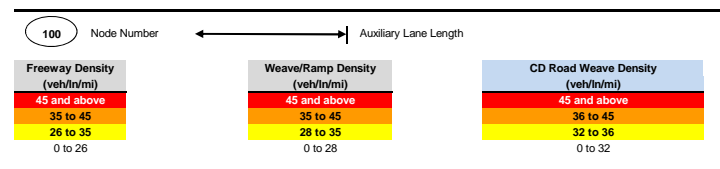
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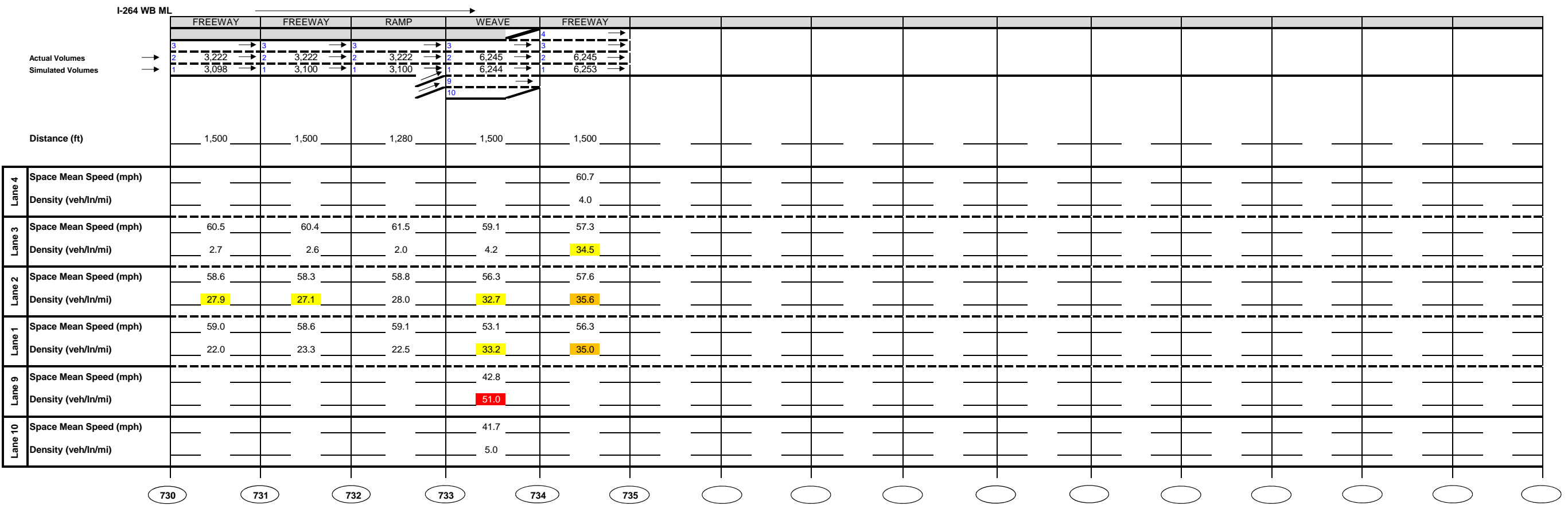
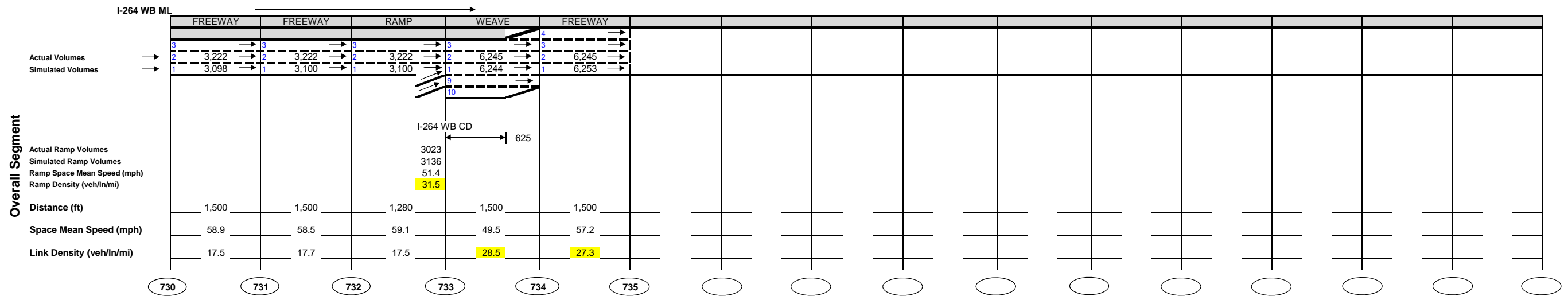


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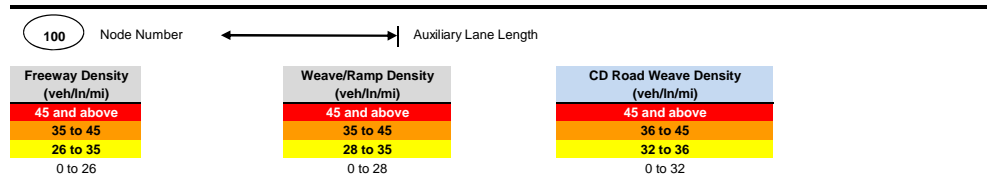


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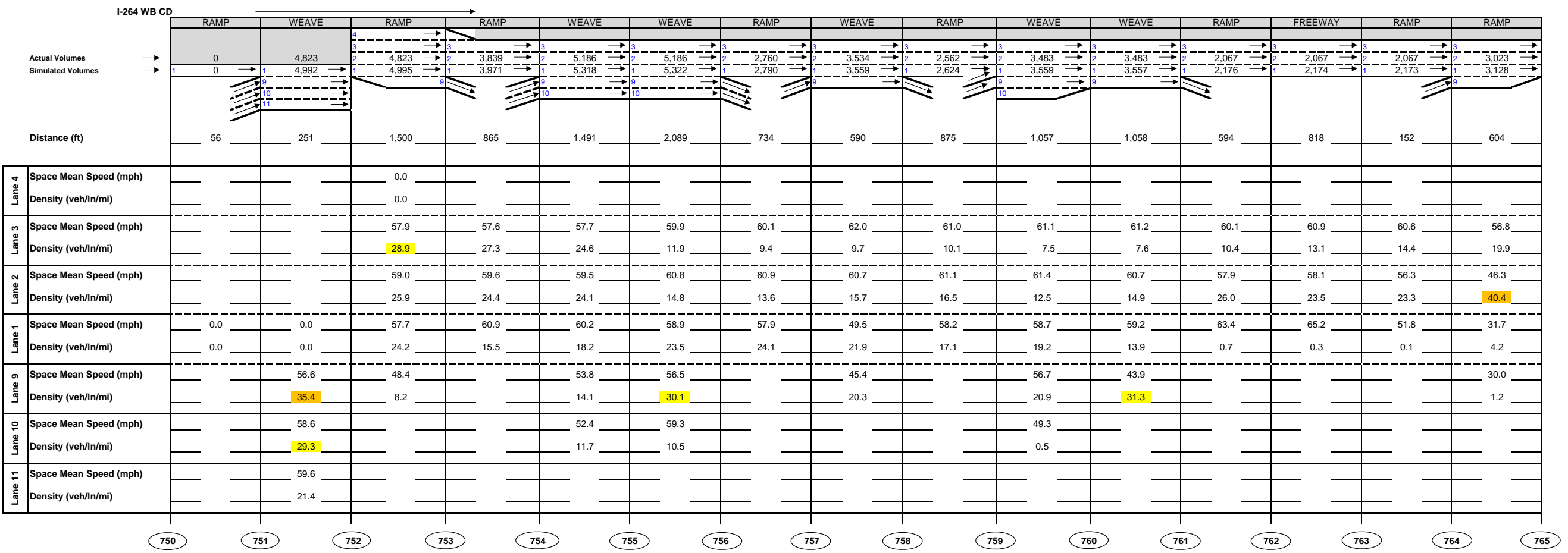
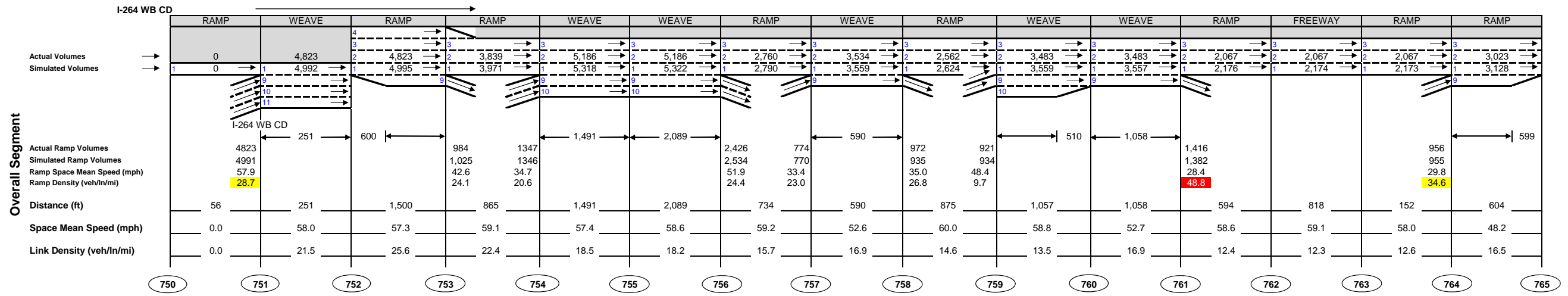
NOTE: numbers in chart are provided for illustrative purposes only

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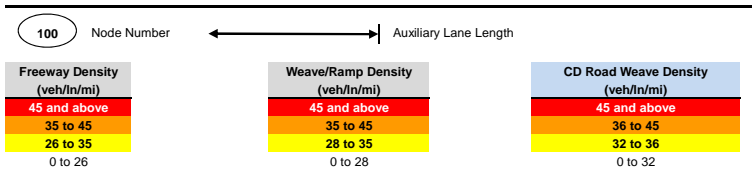
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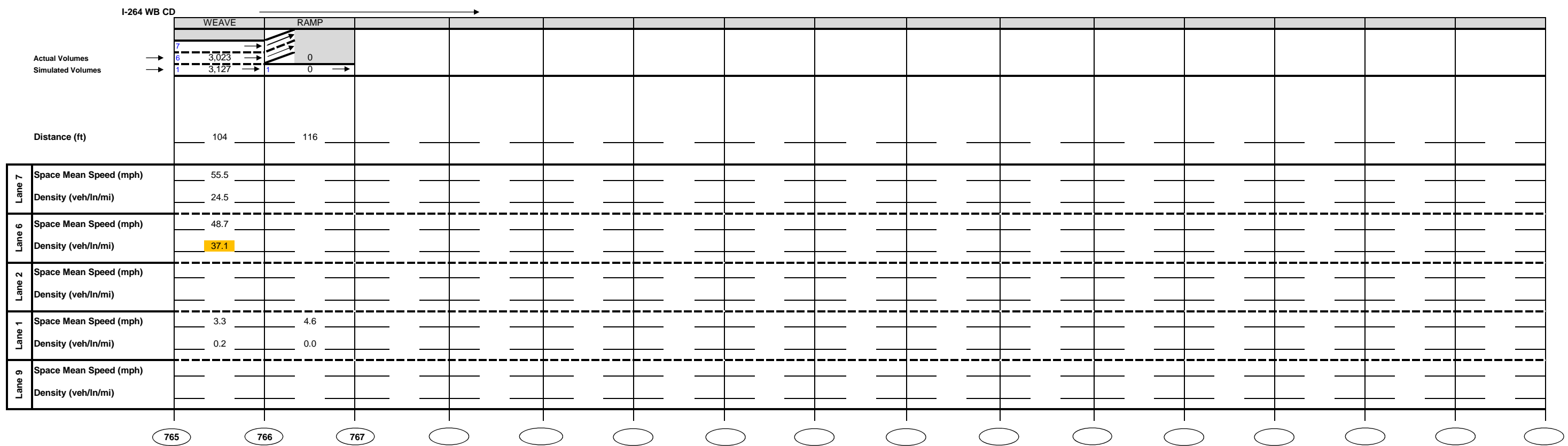
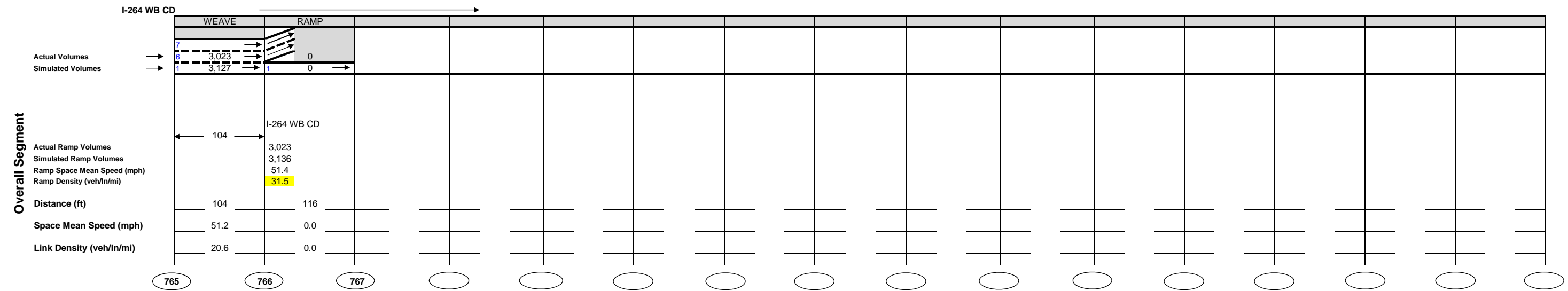
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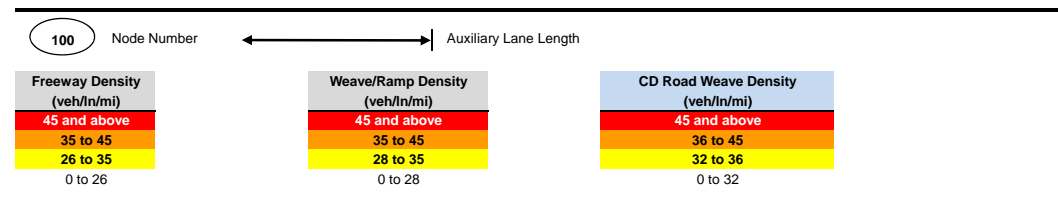
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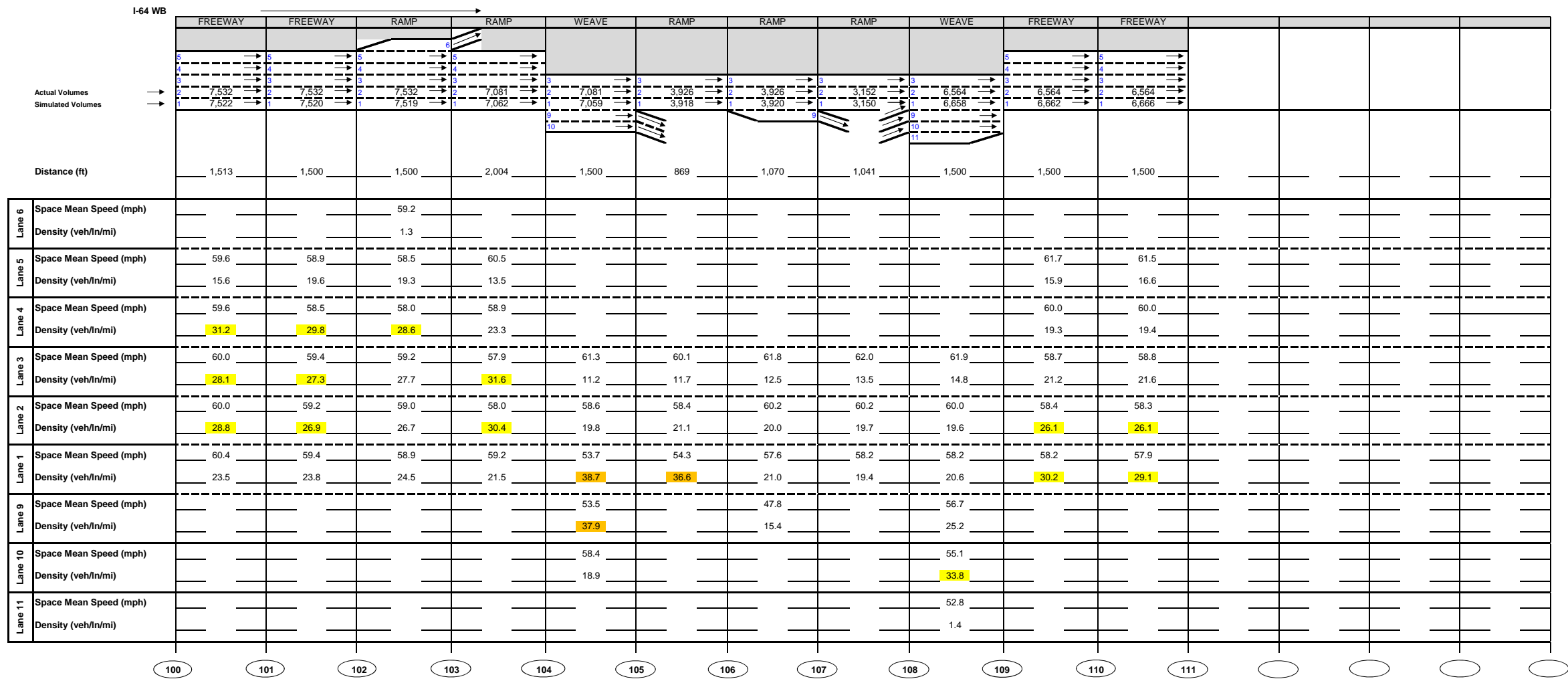
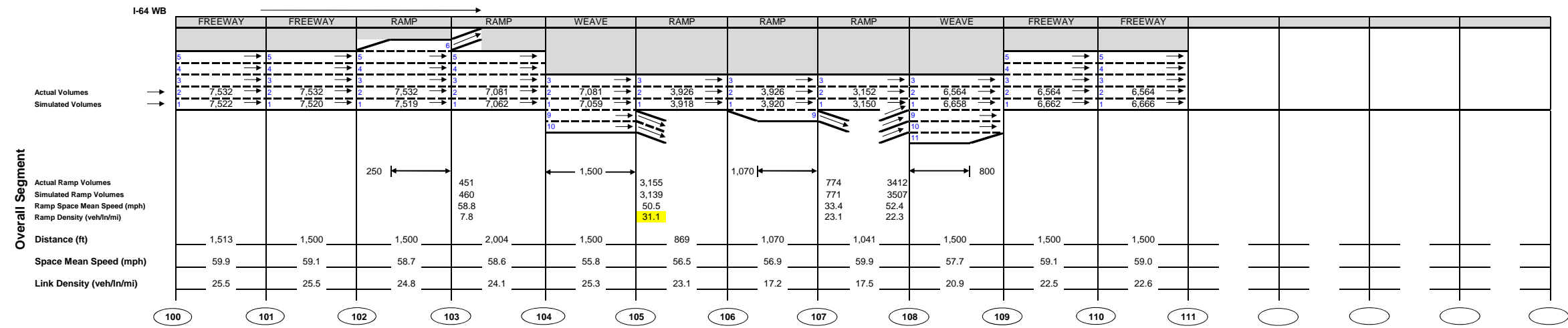
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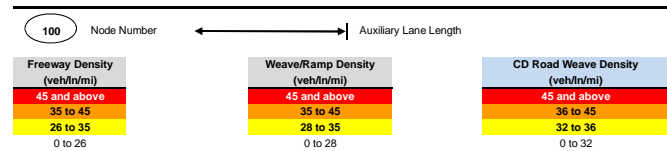
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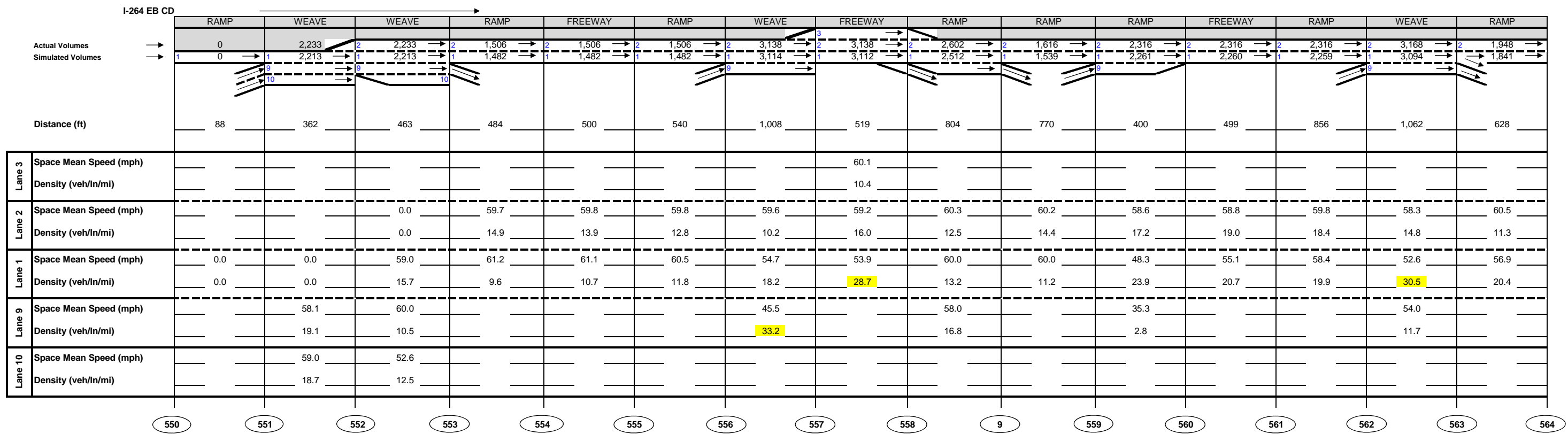
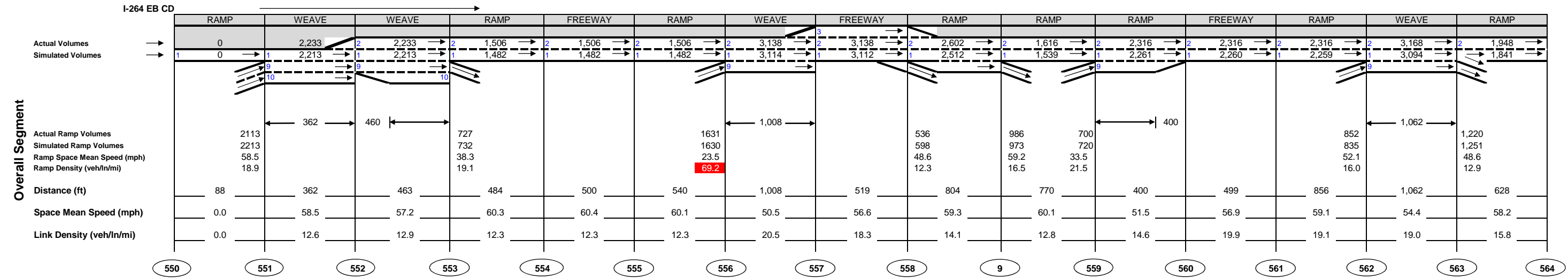


NOTE: numbers in chart are provided for illustrative purposes only

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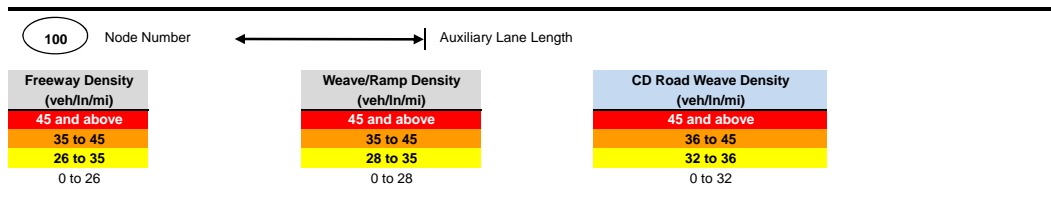


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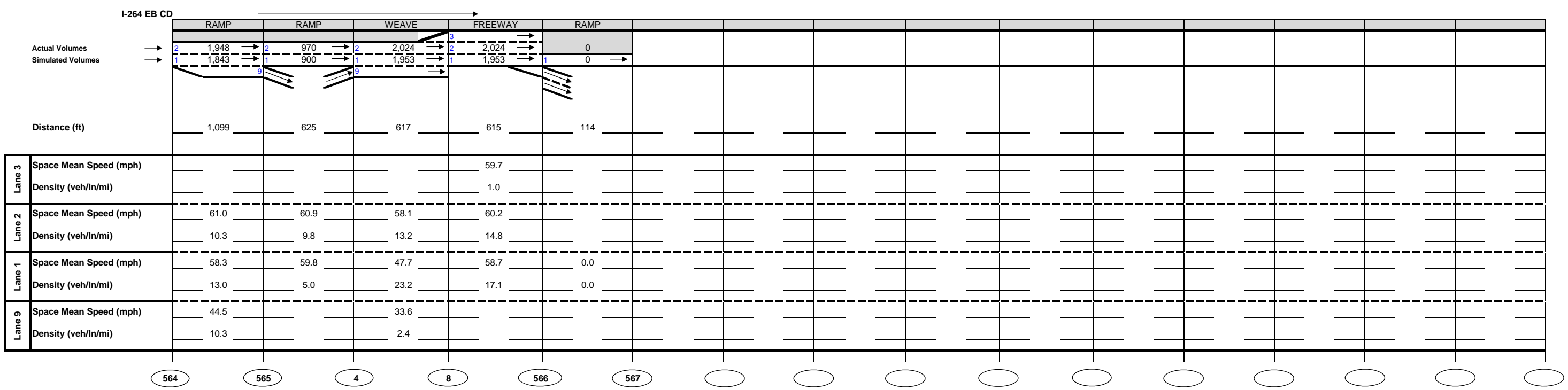
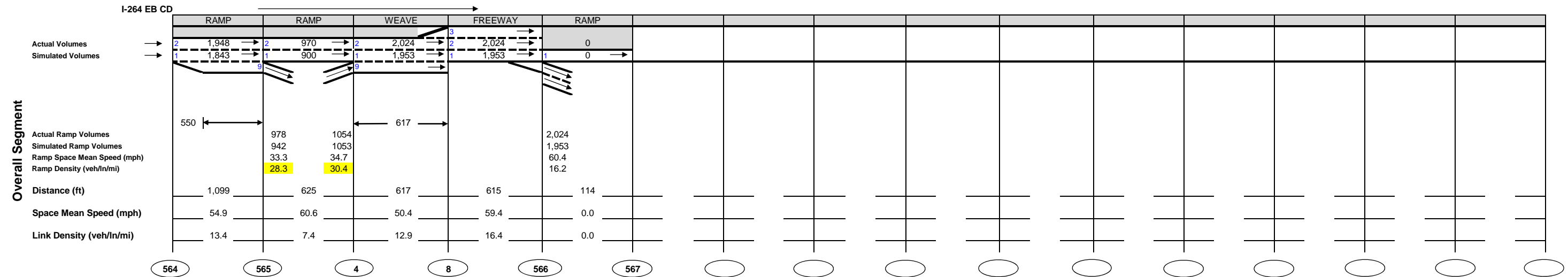
NOTE: numbers in chart are provided for illustrative purposes only

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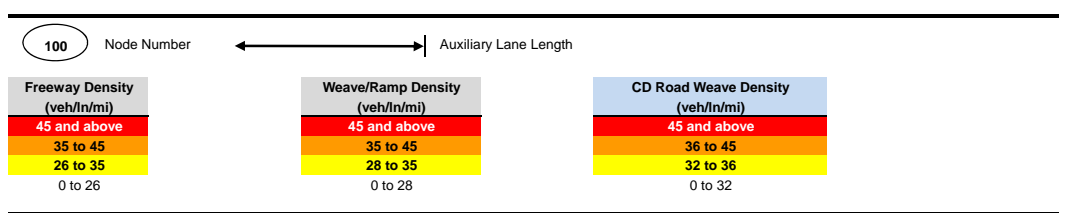
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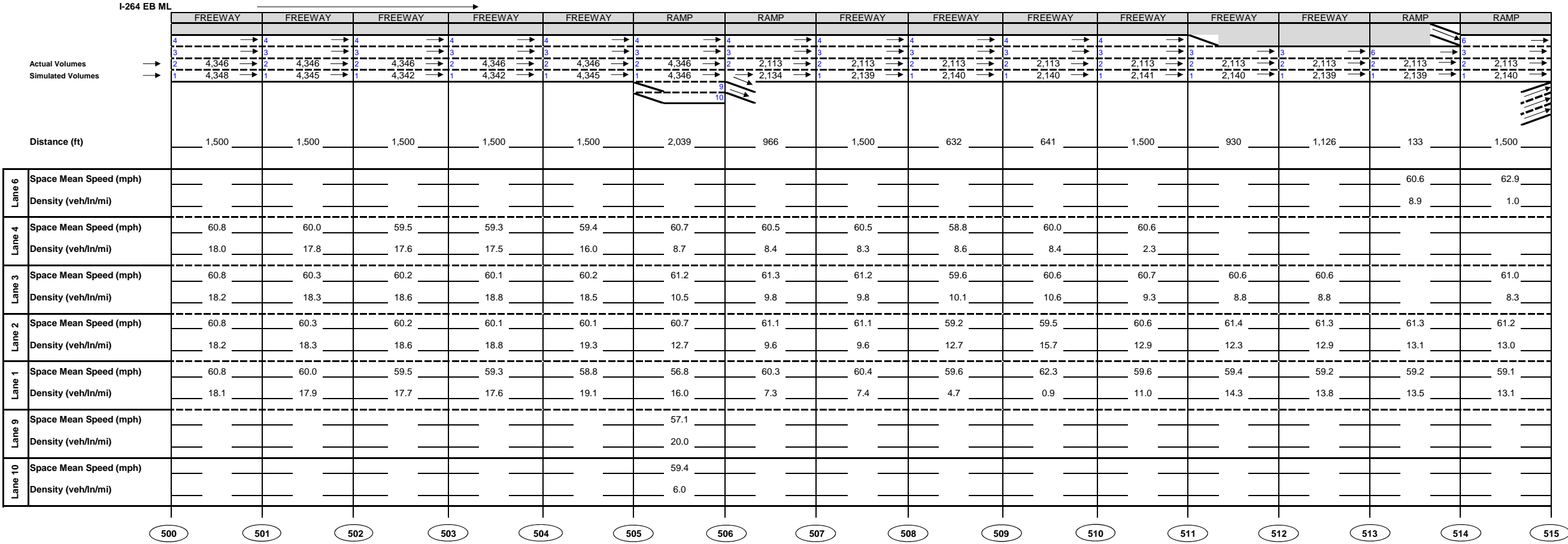
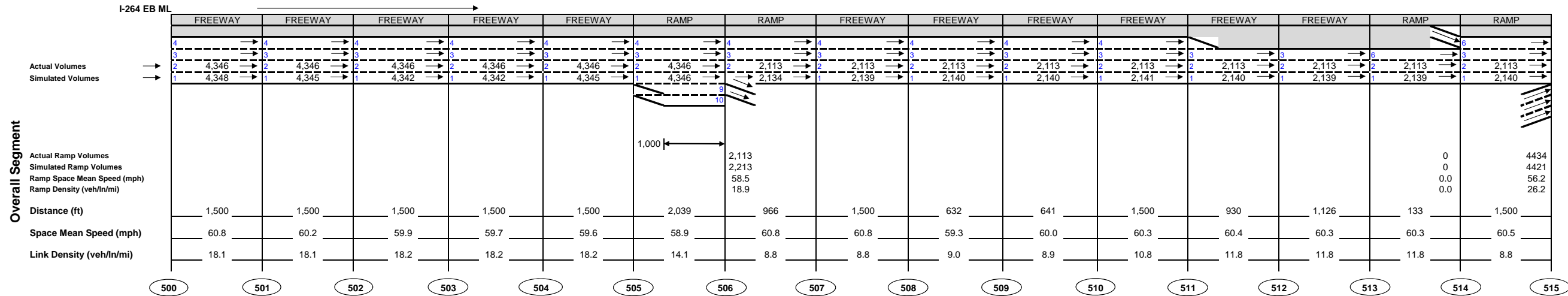
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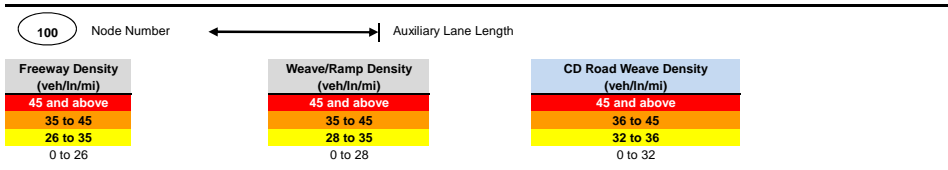
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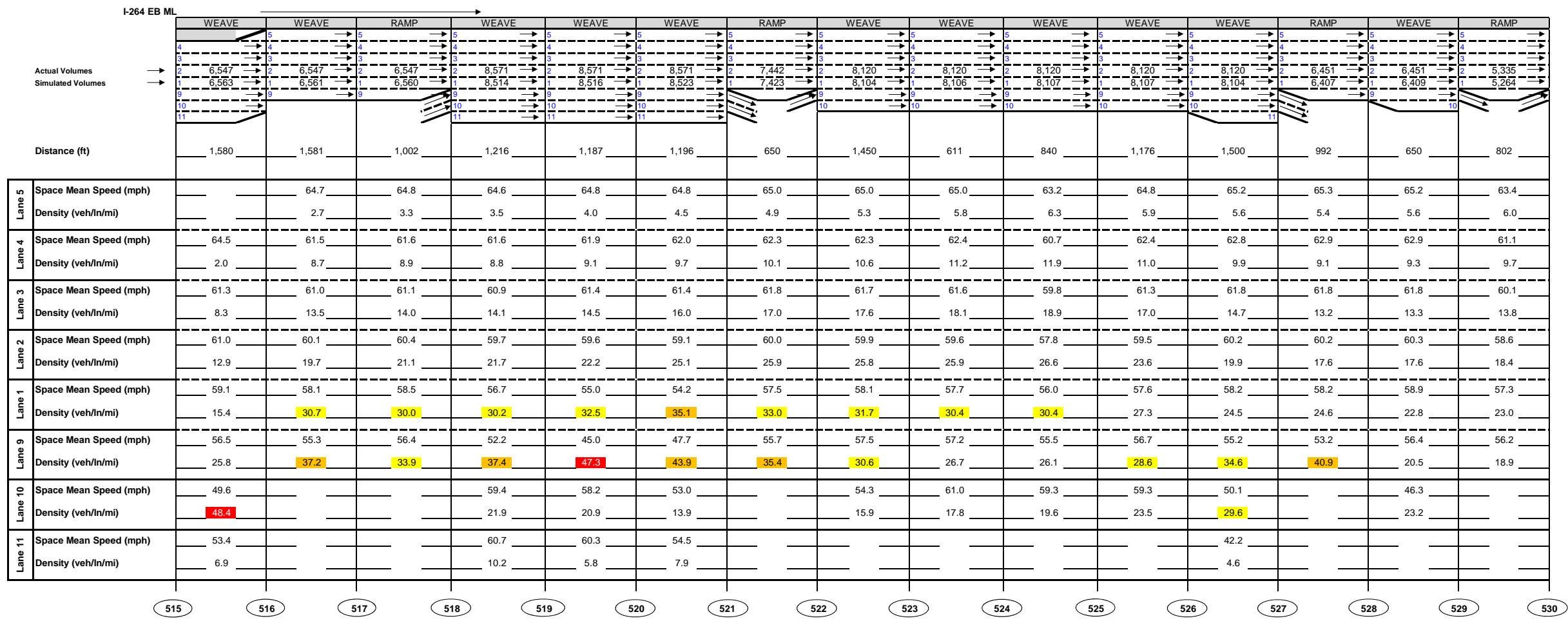
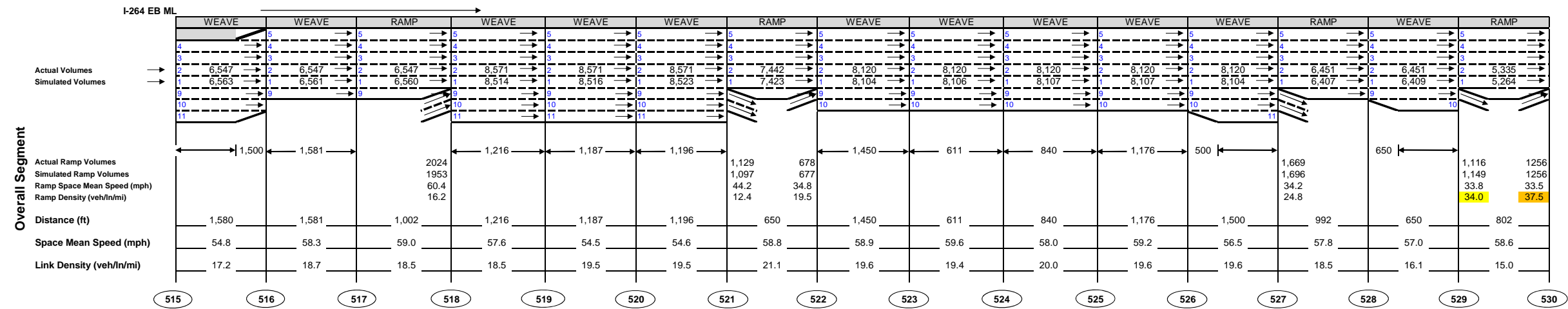
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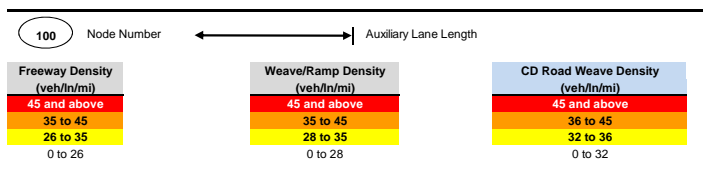
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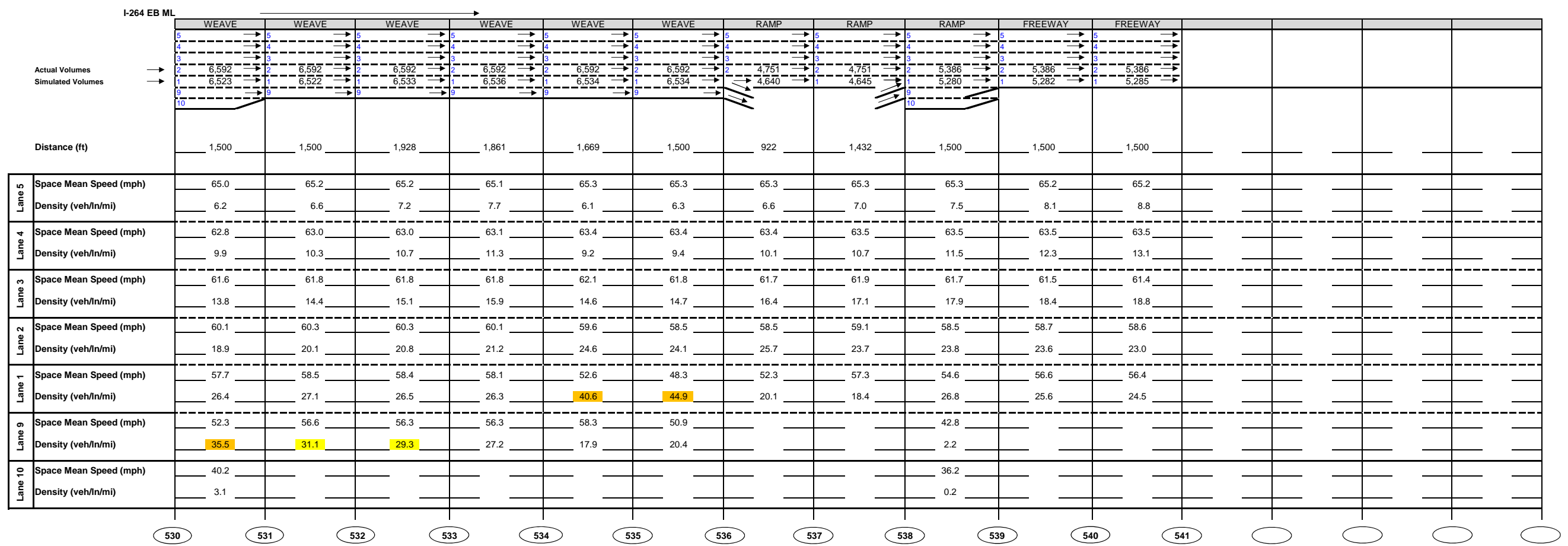
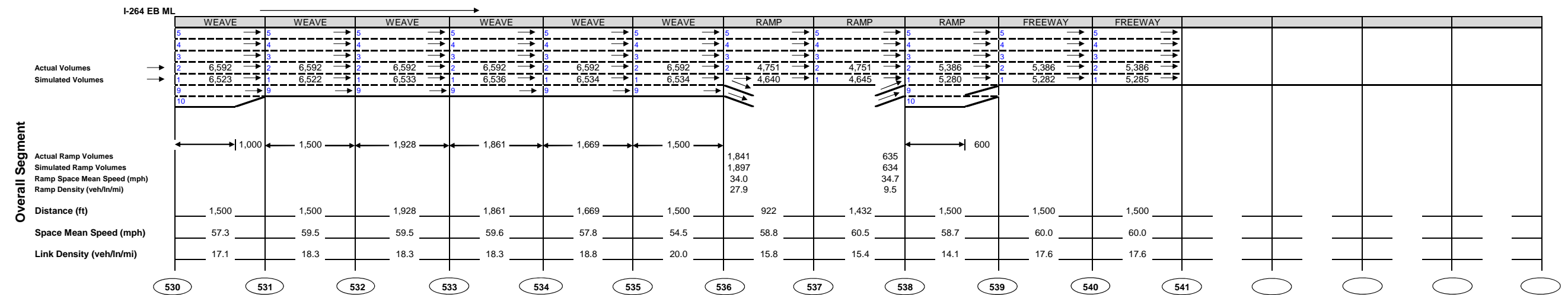
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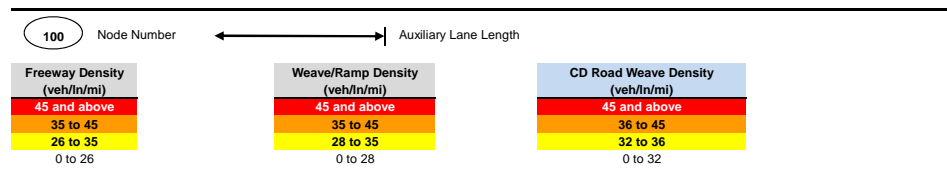
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This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683
Simulated Volumes	6,681	6,688	6,692	6,695	6,703	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708
Actual Ramp Volumes							1,500							
Simulated Ramp Volumes							3,052							
Ramp Space Mean Speed (mph)							47.9							
Ramp Density (veh/ln/mi)							21.2							
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)	60.6	59.7	59.4	59.3	56.2	51.3	59.4	55.4	59.3	57.3	58.7	58.6	58.6	
Link Density (veh/ln/mi)	22.3	22.4	22.5	22.6	23.8	26.1	20.6	20.8	21.9	26.9	26.3	26.3	26.4	

Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683
Simulated Volumes	6,681	6,688	6,692	6,695	6,703	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 5	Space Mean Speed (mph)	60.6	59.5	59.0	59.0	60.1					60.2	60.0	59.9	
Lane 5	Density (veh/ln/mi)	22.3	22.3	22.2	21.0	14.6					21.0	22.1	23.0	
Lane 4	Space Mean Speed (mph)	60.6	59.9	59.7	59.7	58.9					59.6	59.5	59.5	
Lane 4	Density (veh/ln/mi)	22.3	22.6	23.0	23.3	24.1					24.2	24.6	24.9	
Lane 3	Space Mean Speed (mph)	60.6	59.8	59.6	59.1	50.7	58.5	60.7	60.5	60.5	60.3	58.4	58.3	58.3
Lane 3	Density (veh/ln/mi)	22.2	22.1	22.4	24.6	44.6	17.7	17.8	17.5	18.7	19.7	25.3	25.3	25.2
Lane 2	Space Mean Speed (mph)	60.6	59.9	59.7	59.7	59.3	55.2	59.9	59.2	59.9	59.7	59.0	58.7	58.6
Lane 2	Density (veh/ln/mi)	22.4	22.6	22.9	23.2	23.2	26.6	23.4	23.2	23.5	24.0	30.2	30.1	29.7
Lane 1	Space Mean Speed (mph)	60.5	59.4	58.9	58.9	60.5	43.8	57.5	53.2	57.8	57.7	56.9	56.8	56.9
Lane 1	Density (veh/ln/mi)	22.3	22.2	22.2	20.8	12.7	47.3	20.4	27.3	23.5	26.2	30.5	29.6	29.0
Lane 9	Space Mean Speed (mph)						53.8		47.6		56.4			
Lane 9	Density (veh/ln/mi)						23.8		15.1		31.1			
Lane 10	Space Mean Speed (mph)						56.0				54.4			
Lane 10	Density (veh/ln/mi)						15.2				33.3			

NOTE: numbers in chart are provided for illustrative purposes only

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100 Node Number ← Auxiliary Lane Length

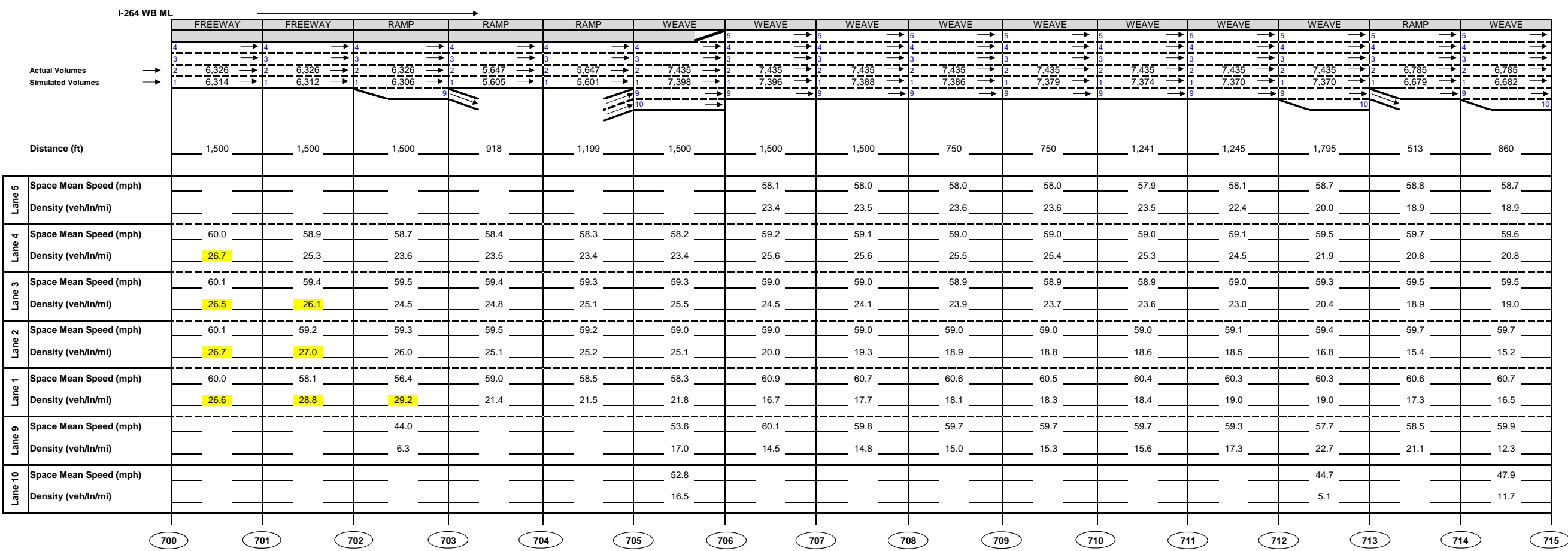
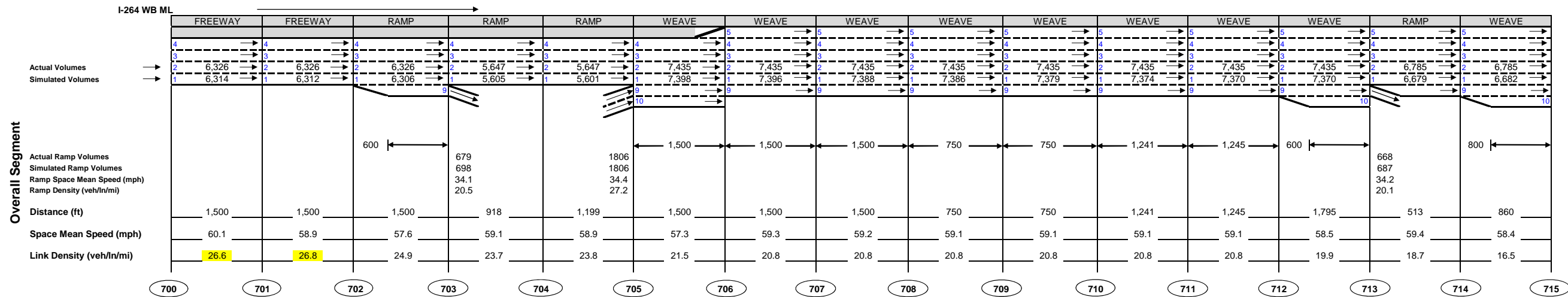
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



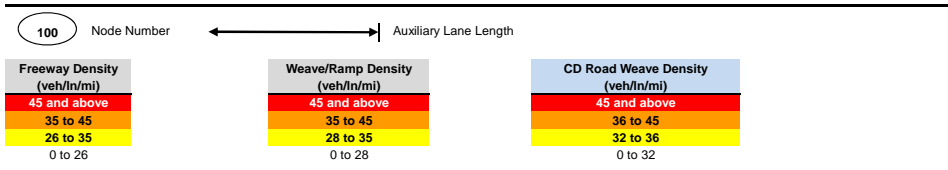
Military Highway Interchange Diverging Diamond Build Alternative - Link Descriptions (AM Peak Hour)

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	18.2	C	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.8	A
EB I-264 ML to EB I-264 CD (Diverge)	505,506	14.1	B	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	18.2	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	12.9	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	13.4	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	12.3	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	18.5	B
NB Military Hwy to EB I-264 CD (Merge)	556,557	20.5	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.5	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.8	A	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.3	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.5	B	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.2	B
EB I-64 to WB I-264 CD (Merge)	759,760	13.5	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.6	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	16.9	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	18.5	B
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	12.3	B	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	29.2	D
SB Military Hwy to WB I-264 CD (Merge)	764,765	16.5	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	28.5	D	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.5	C
WB I-264 West of Military Hwy (Freeway)	734,735	27.3	D	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	19.6	B
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.6	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.8	A	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.6	D
EB I-264 ML to WB I-64 (Diverge)	510,511	10.8	B	WB I-264 to Witchduck Rd (Diverge)	719,720	26.3	C
EB I-264 CD to EB I-64 (Diverge)	557,558	18.3	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.3	C
EB/WB I-64 & EB I-264 CD (Weave)	559,560	14.6	B	Independence Boulevard Interchange			
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	19.1	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.6	C
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.8	A	EB I-264 to SB Independence Blvd (Diverge)	526,527	19.6	B
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	29.2	D	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	16.1	B
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	29.8	D	NB Independence Blvd to EB I-264 (Merge)	530,531	17.1	B
WB I-264 ML to EB I-64 (Diverge)	728,729	29.9	D	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.3	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.2	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	27.0	D
EB/WB I-64 & WB I-264 CD (Weave)	757,758	16.9	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	25.8	C
EB I-64 to WB I-264 CD (Merge)	759,760	13.5	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	21.7	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.5	B	SB Independence Blvd to WB I-264 (Merge)	716,717	26.4	C
EB I-64 North of I-264 (Freeway)	301,302	22.4	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.6	D
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	20.8	C	Rosemont Road Interchange			
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	26.9	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.3	C
EB I-64 South of I-264 (Freeway)	312,313	26.4	D	EB I-264 to Rosemont Rd (Diverge)	535,536	20.0	B
WB I-64 South of I-264 (Freeway)	101,102	25.5	C	SB Rosemont Rd to EB I-264 (Merge)	537,538	15.4	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.8	C	NB Rosemont Rd to EB I-264 (Merge)	538,539	14.1	B
WB I-64 to I-264 EB (Diverge)	104,105	25.3	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	17.6	B
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	17.2	B	WB I-264 East of Rosemont Rd (Freeway)	700,701	31.7	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	20.9	C	WB I-264 to Rosemont Rd (Diverge)	702,703	29.7	D
WB I-64 North of I-264 (Freeway)	110,111	22.6	C	NB Rosemont Rd to WB I-264 (Merge)	704,705	29.4	D
				SB Rosemont Rd to WB I-264 (Merge)	705,706	27.9	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	27.0	D



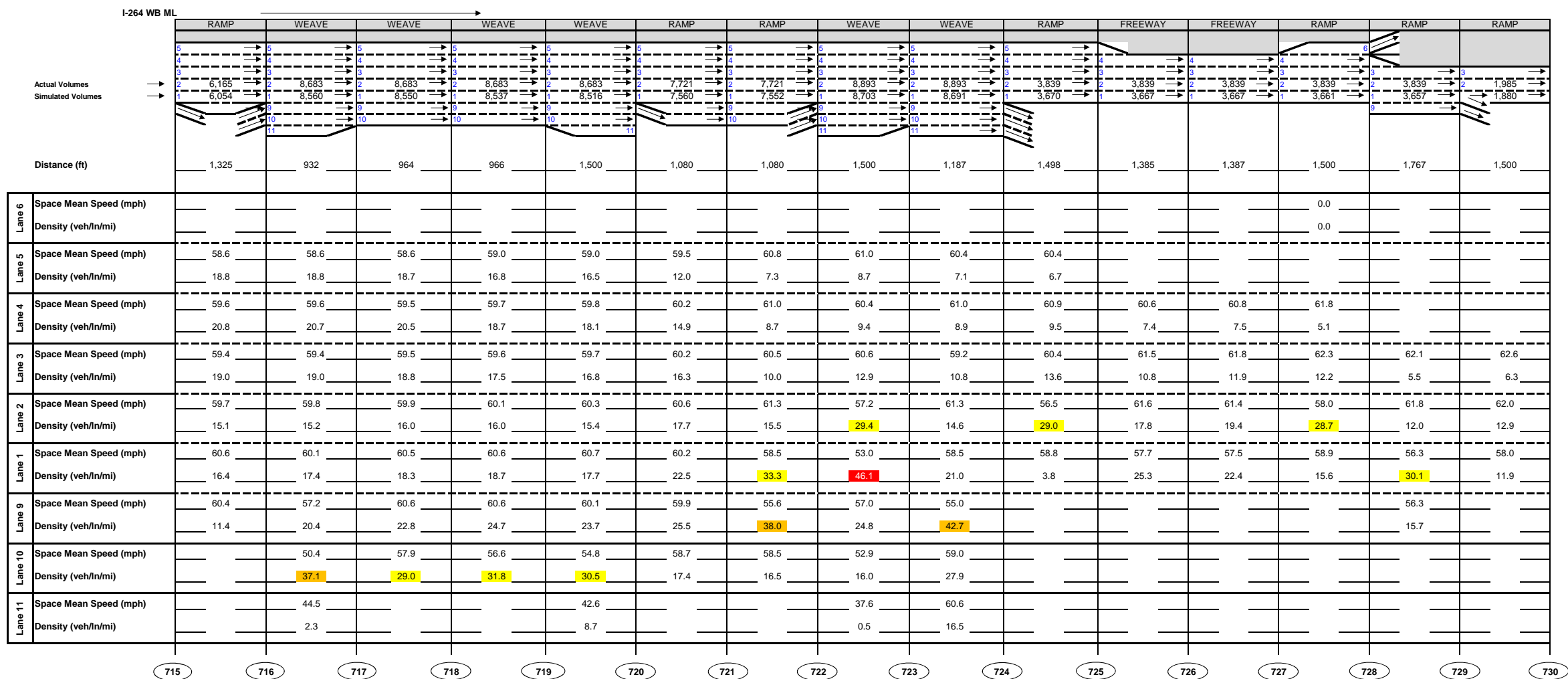
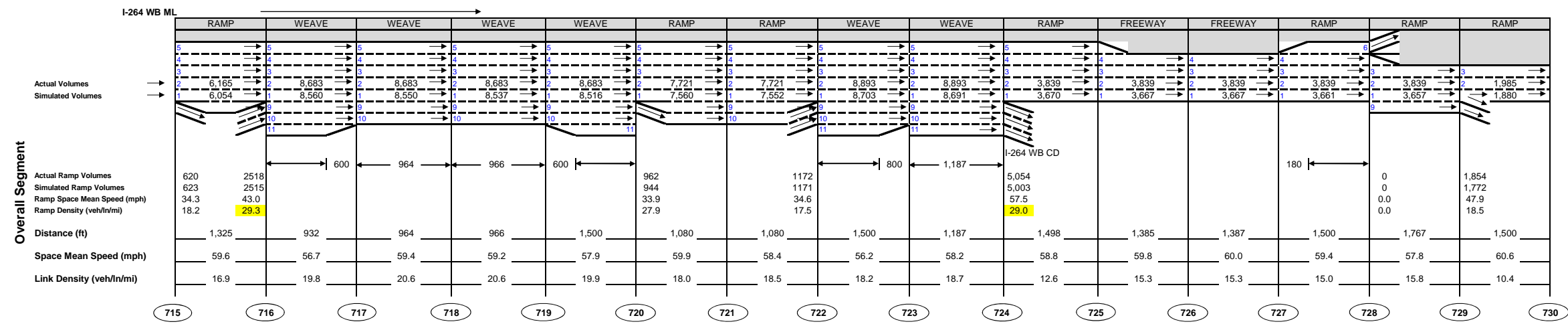
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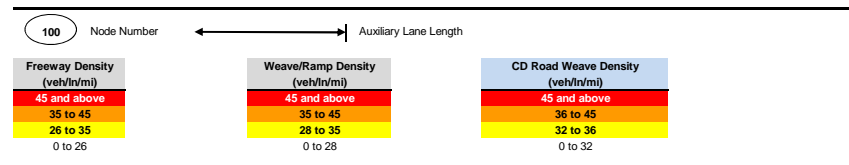
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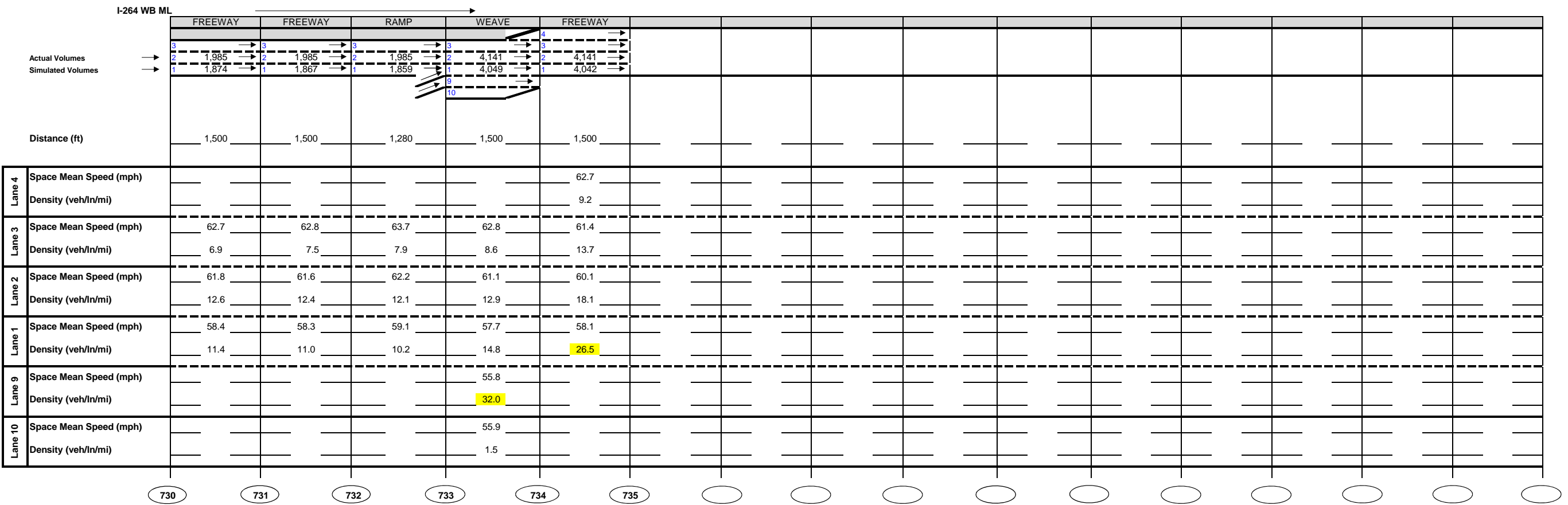
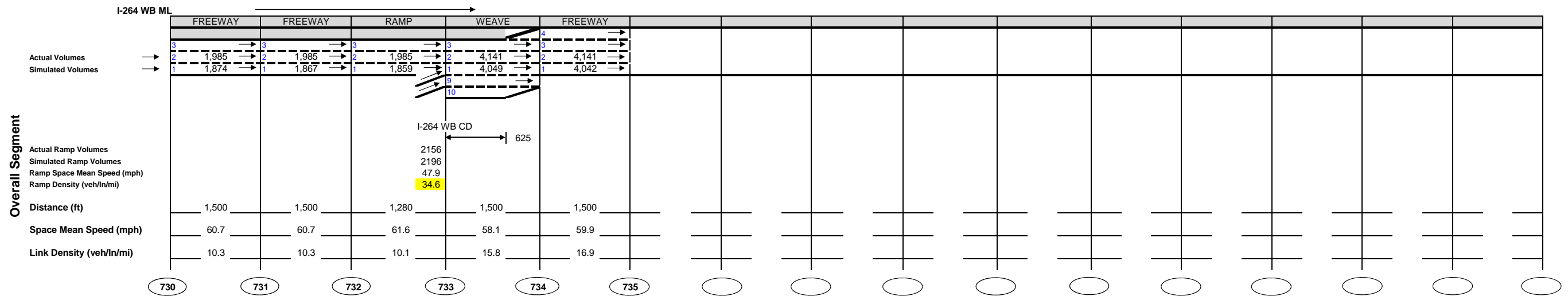


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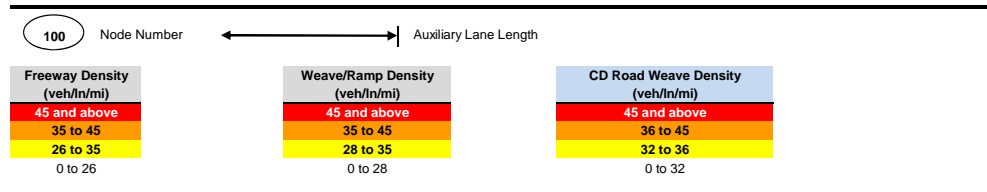


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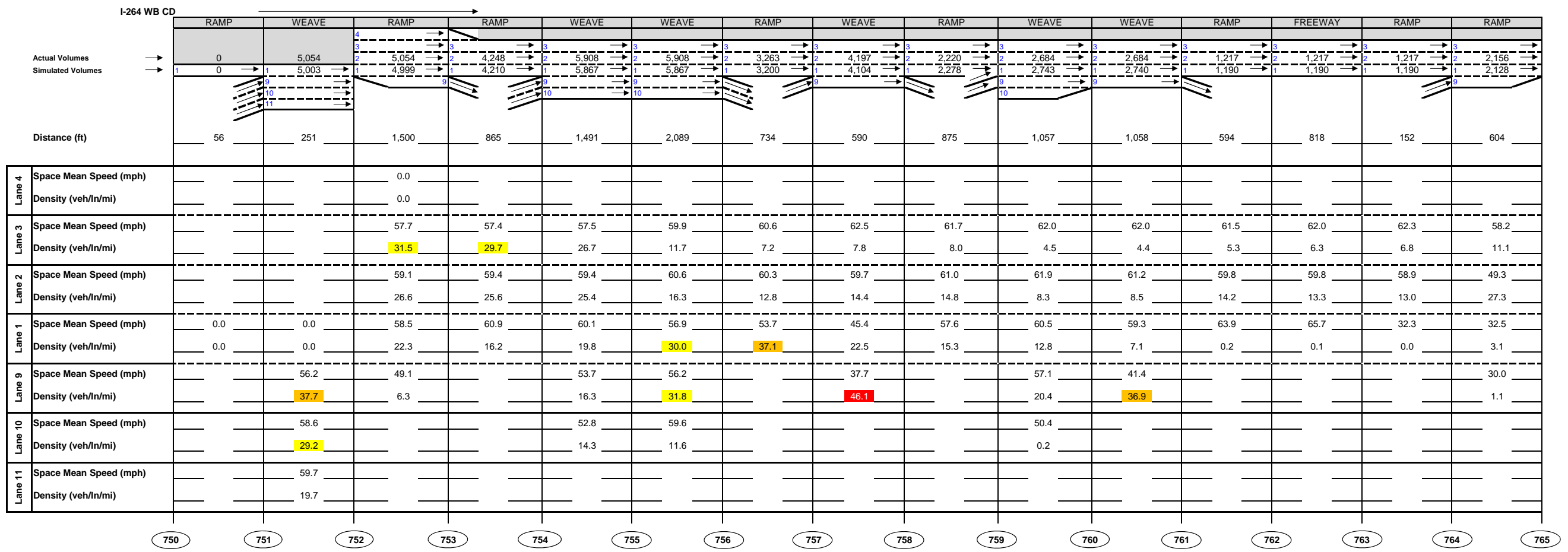
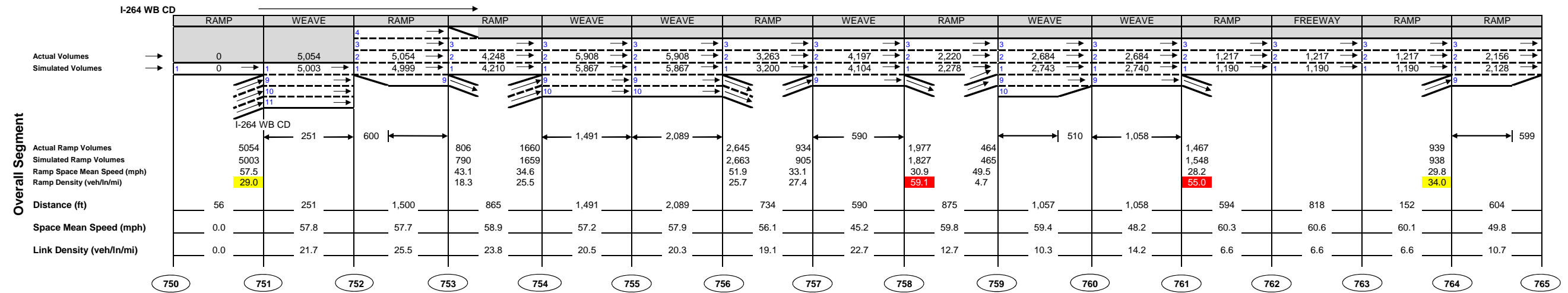
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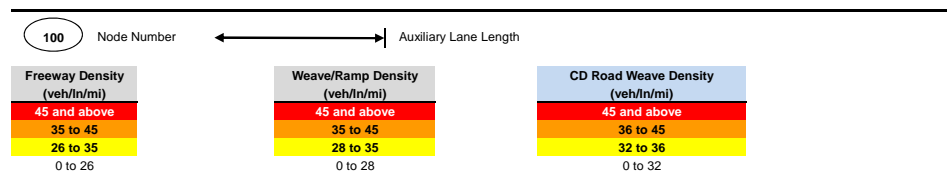
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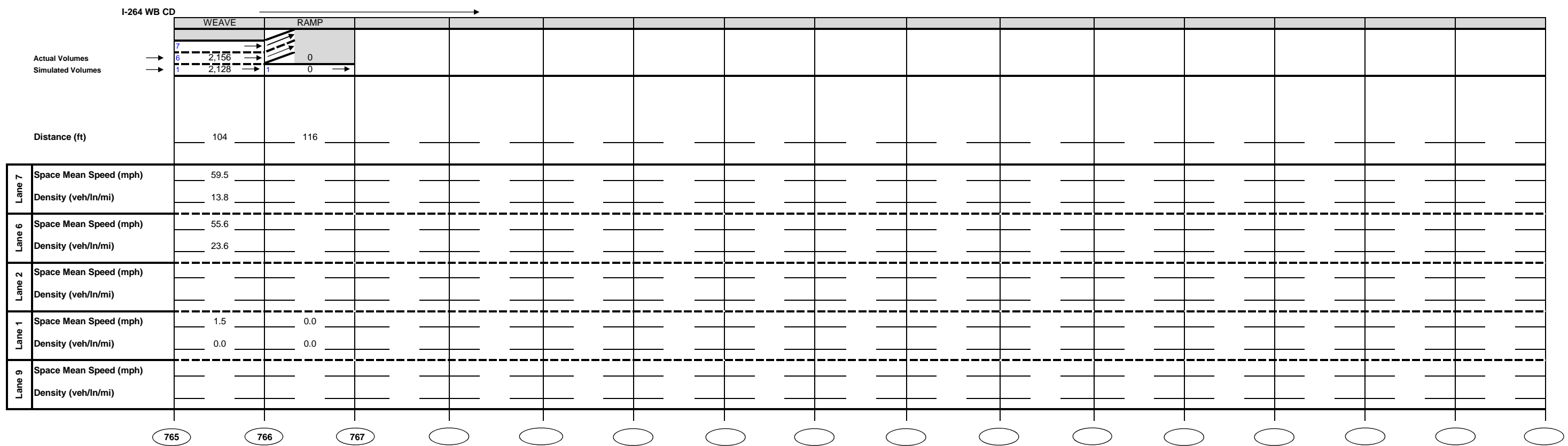
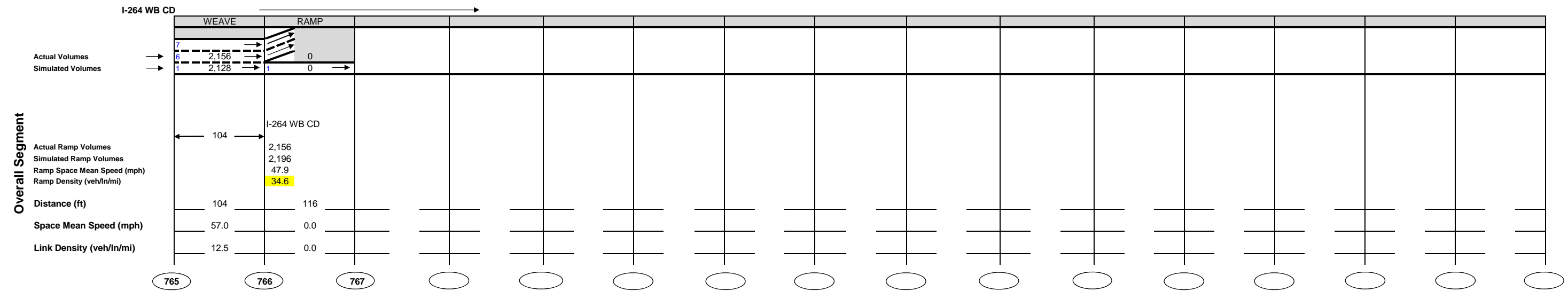
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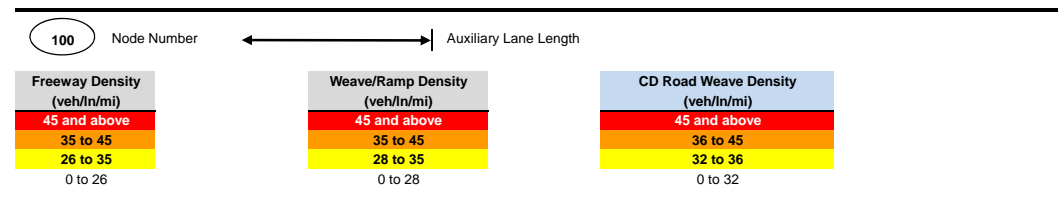
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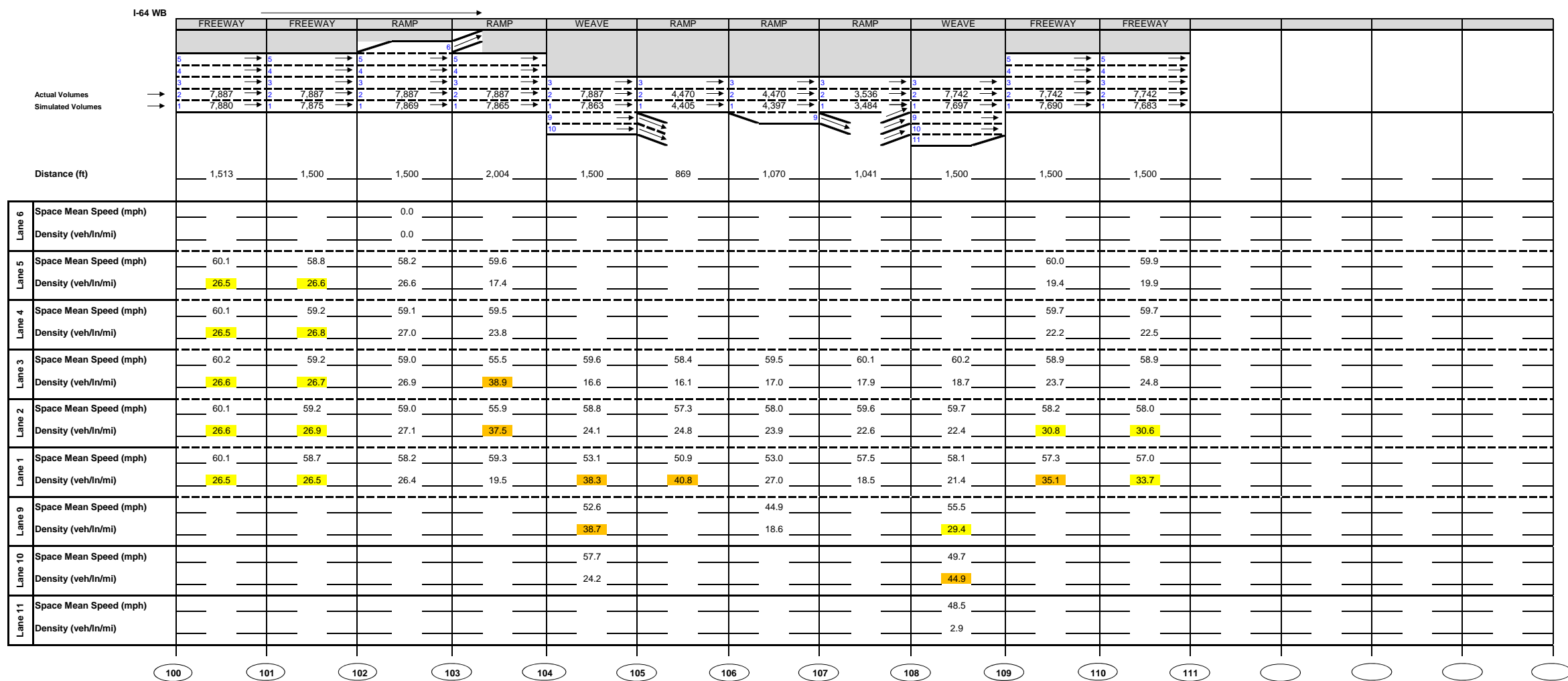
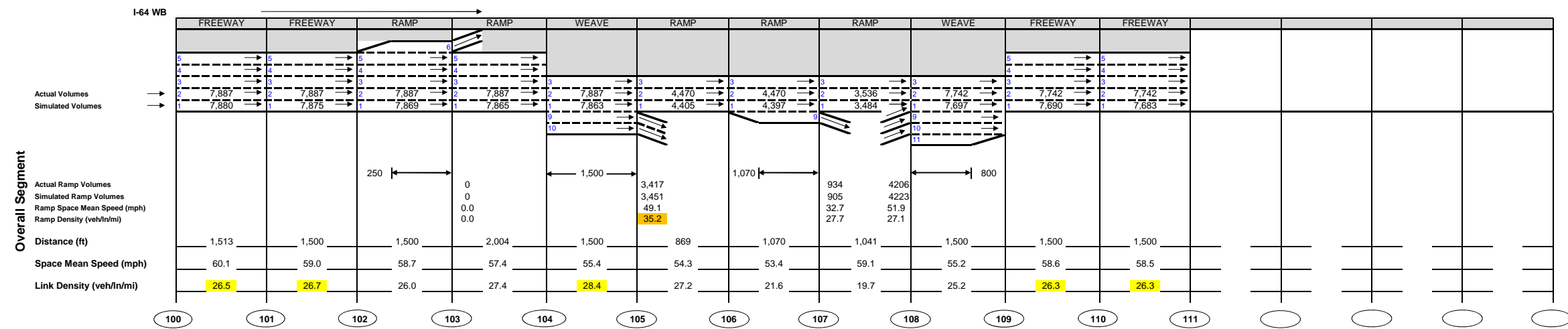
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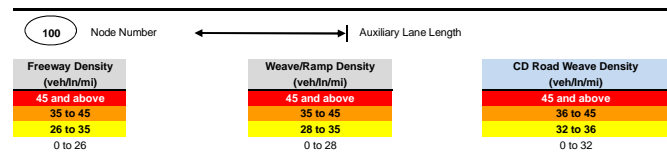
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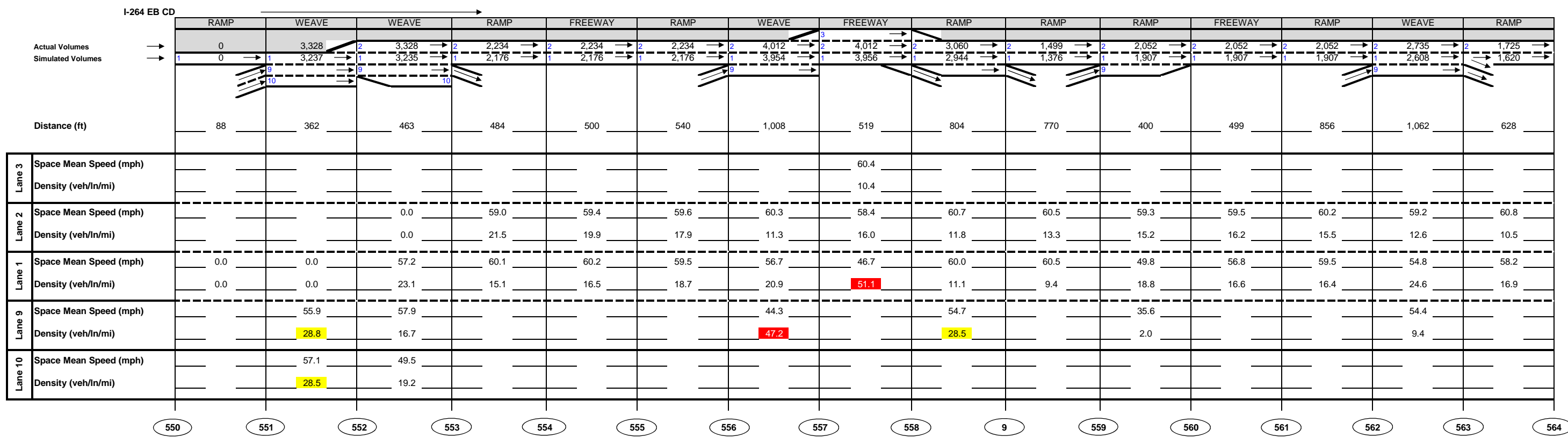
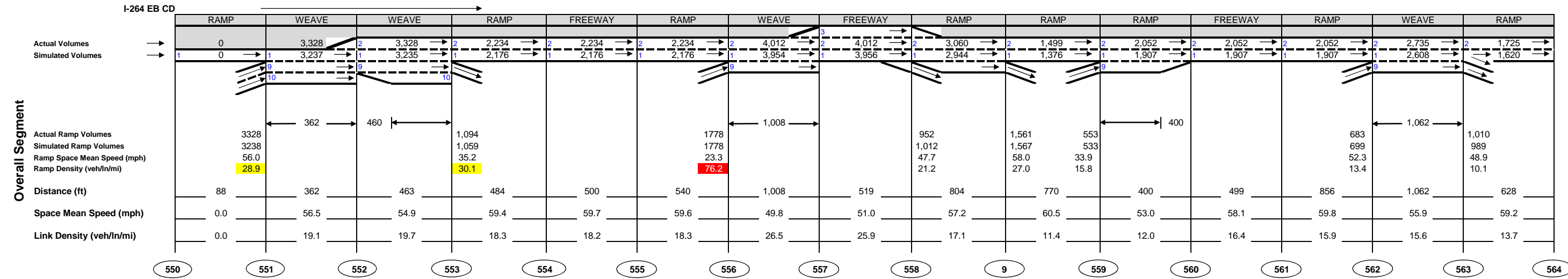


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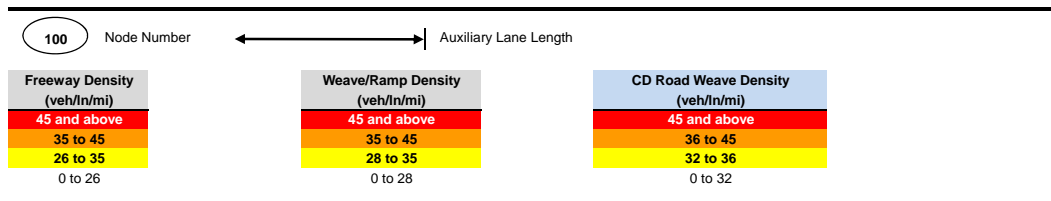


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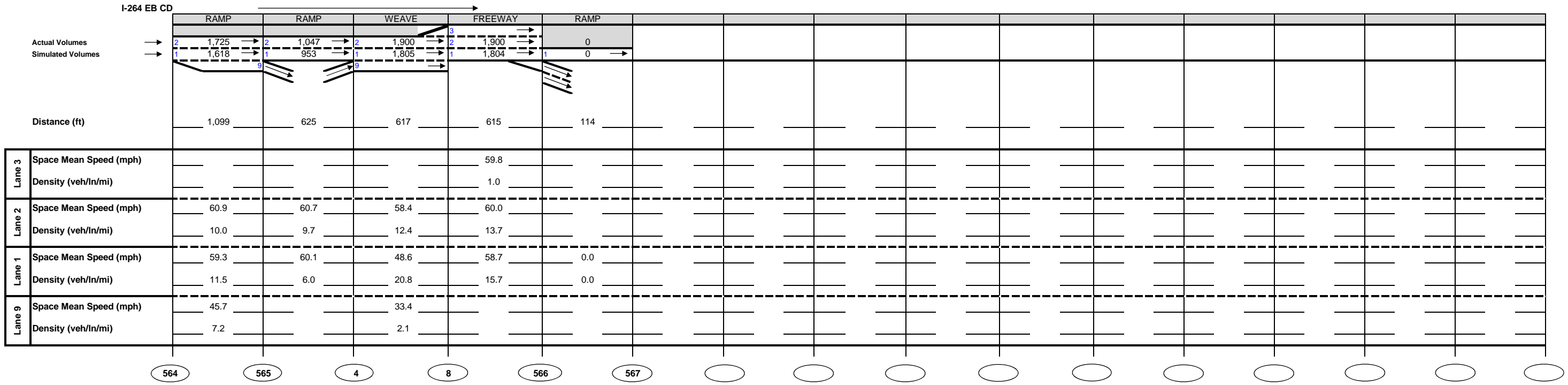
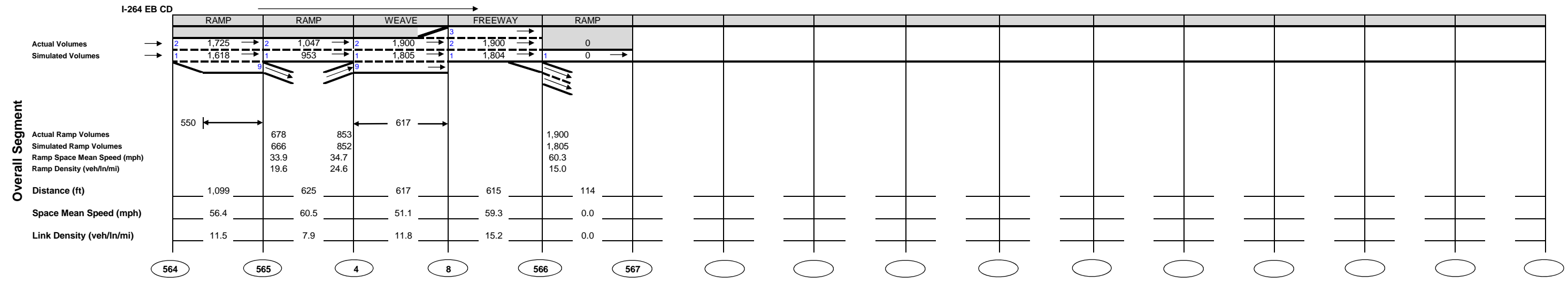
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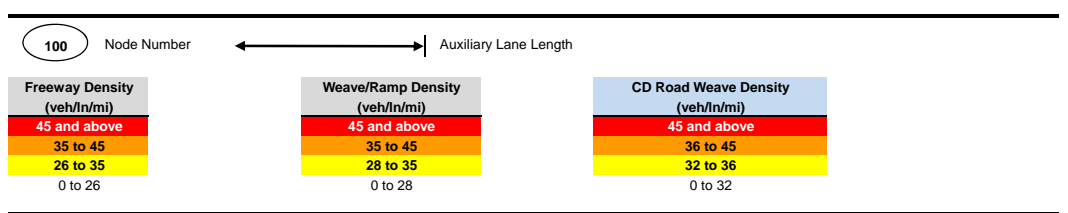
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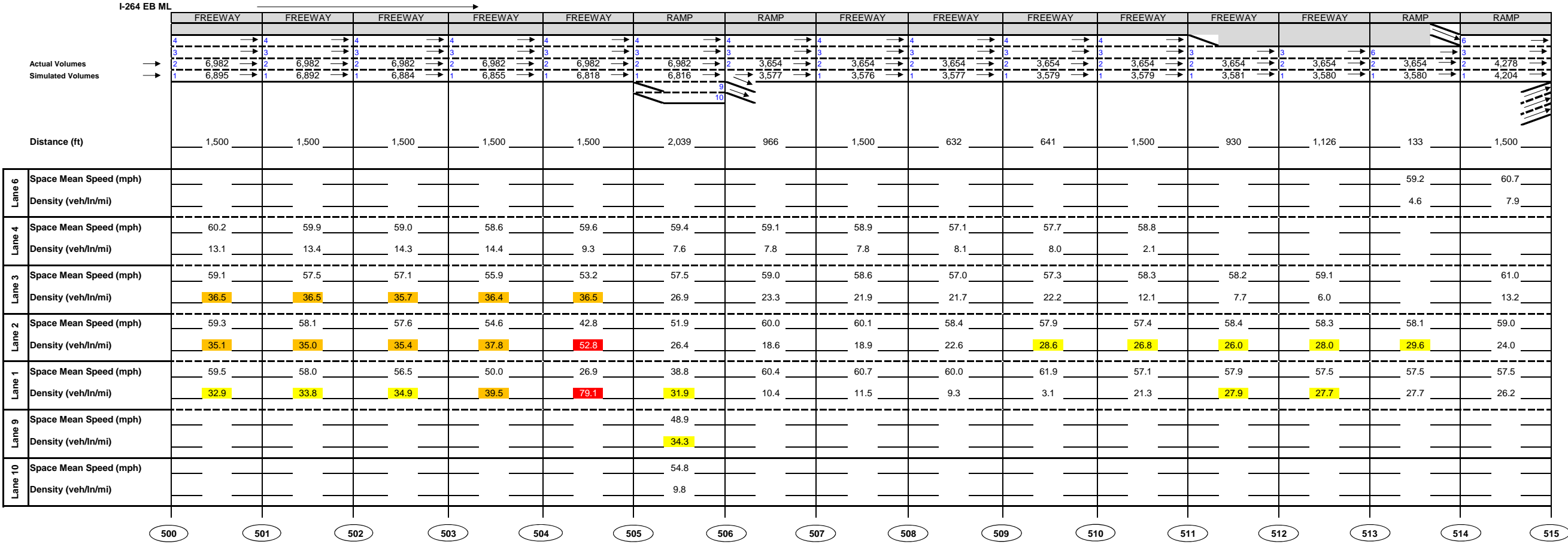
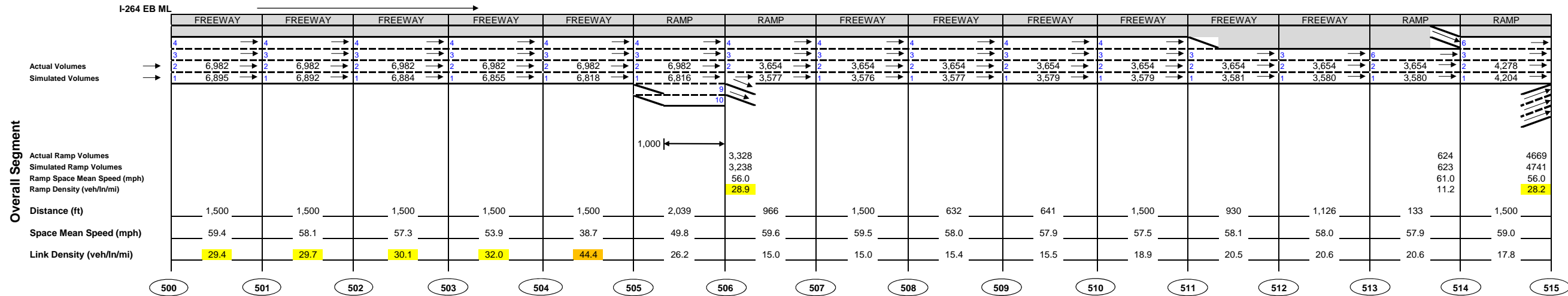
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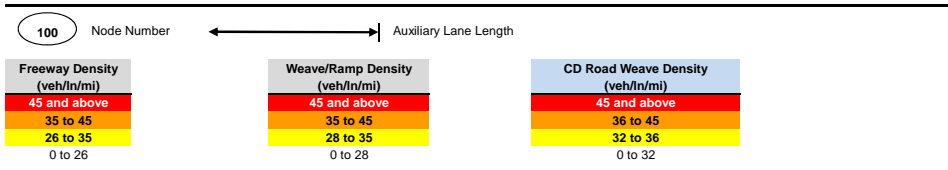
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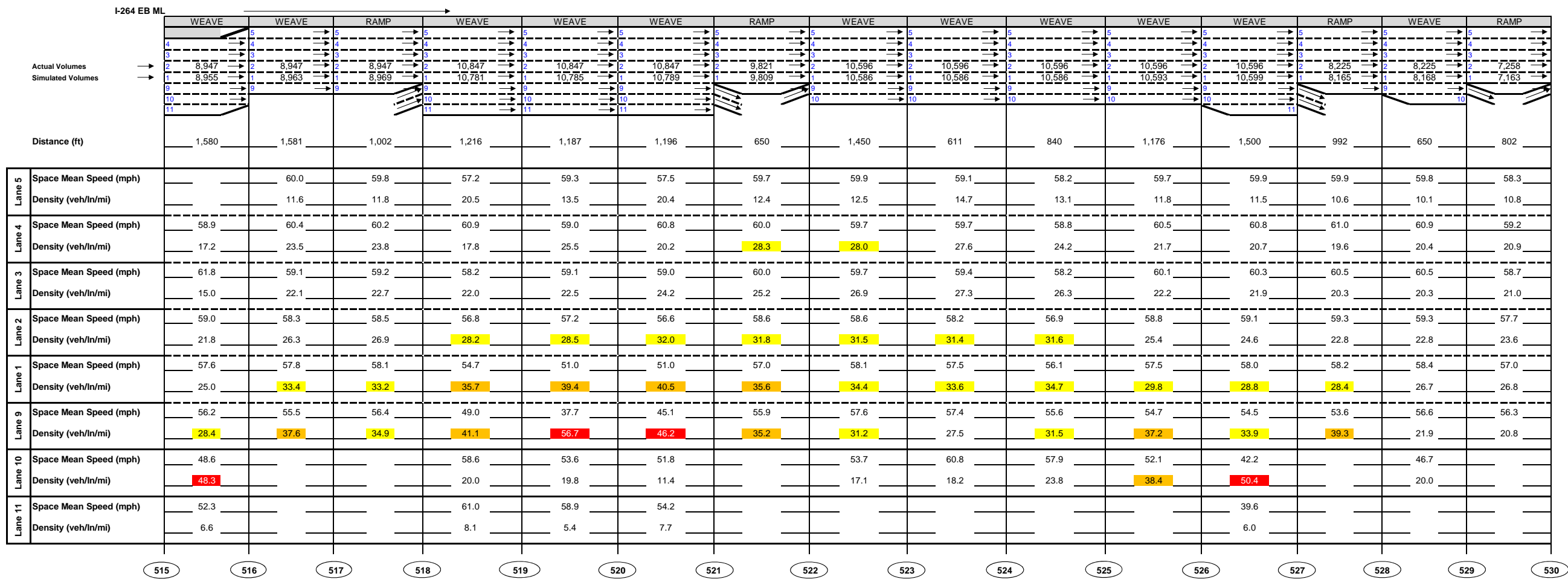
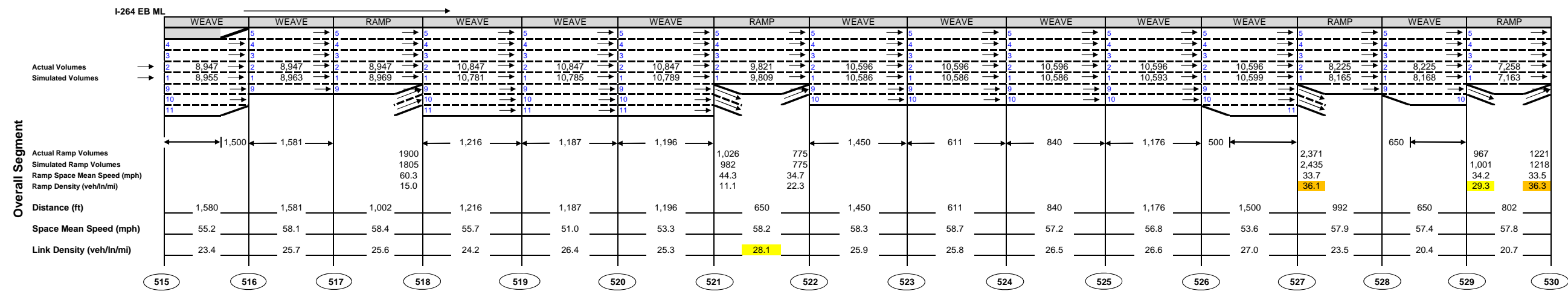
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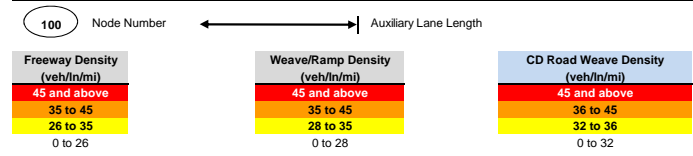
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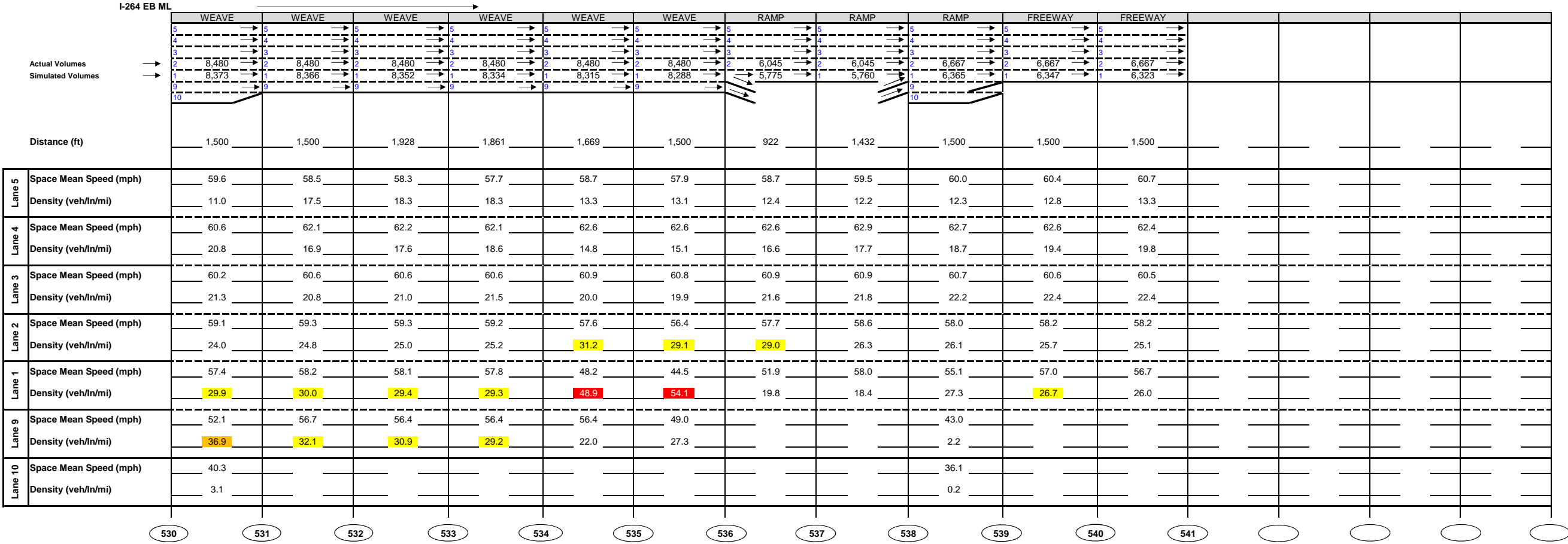
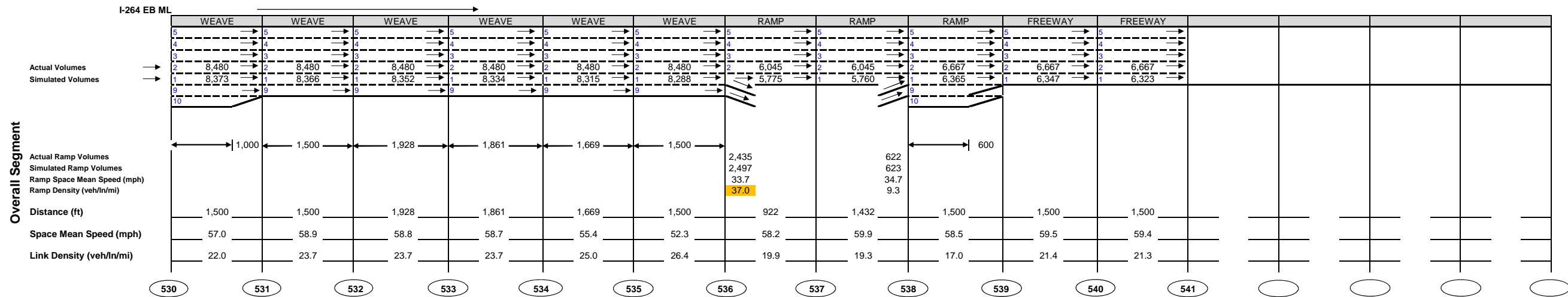
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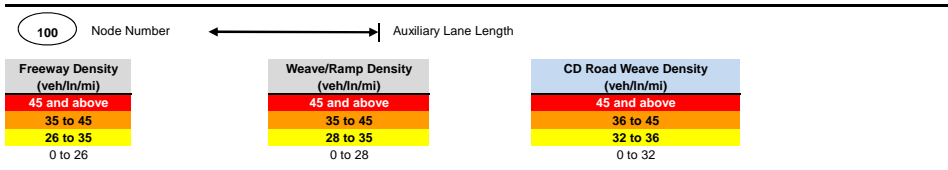
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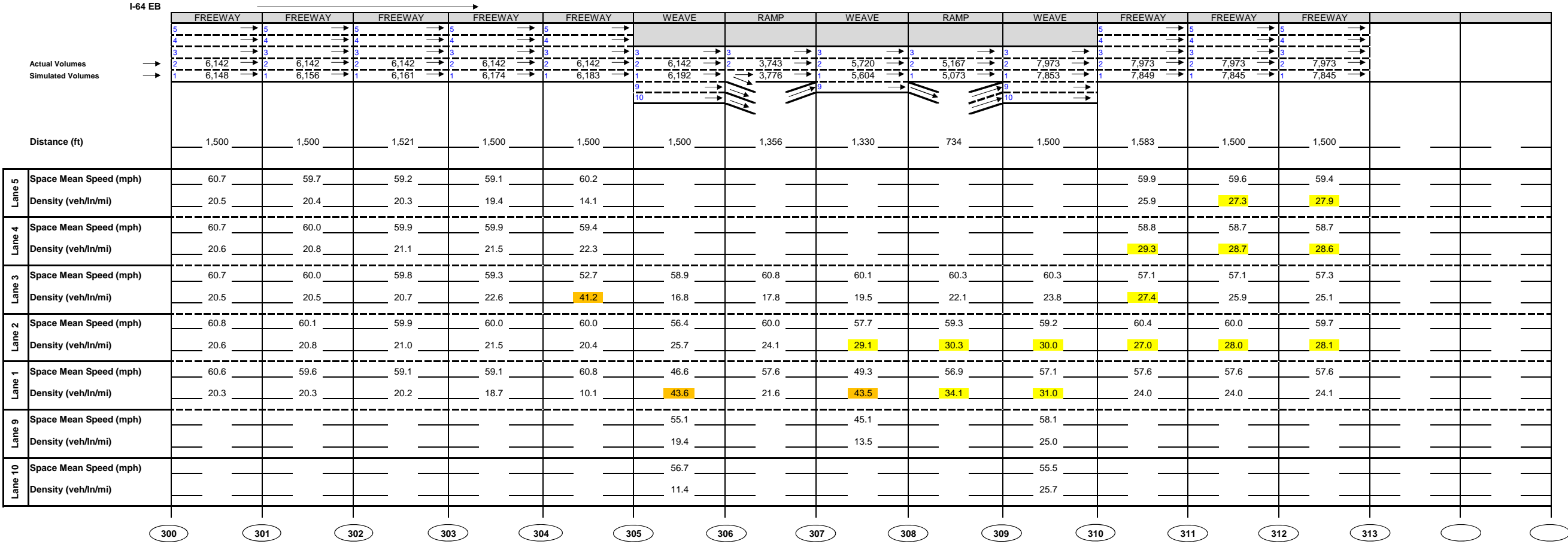
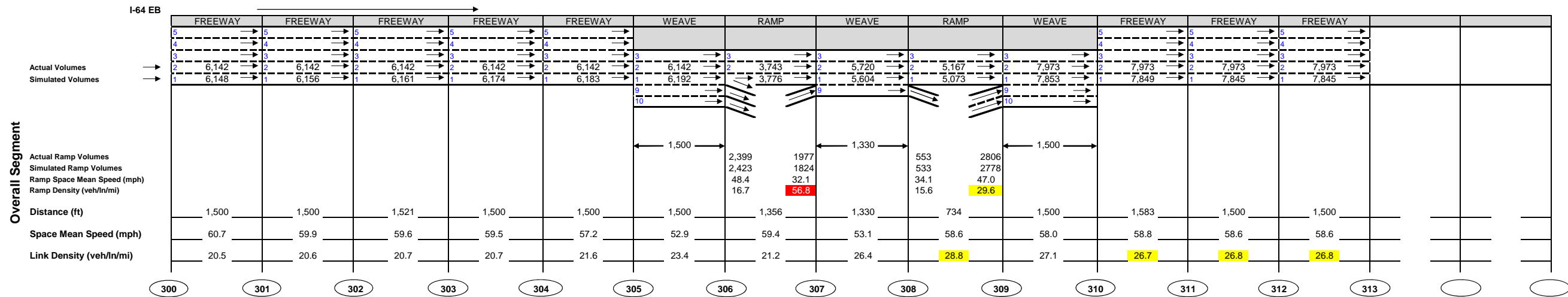
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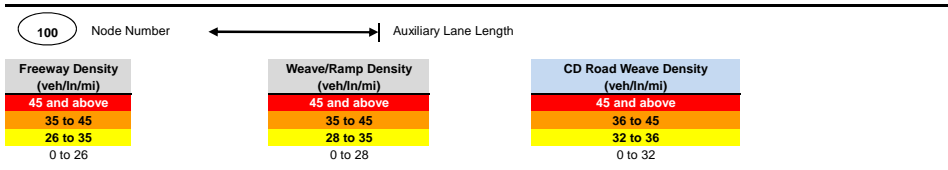
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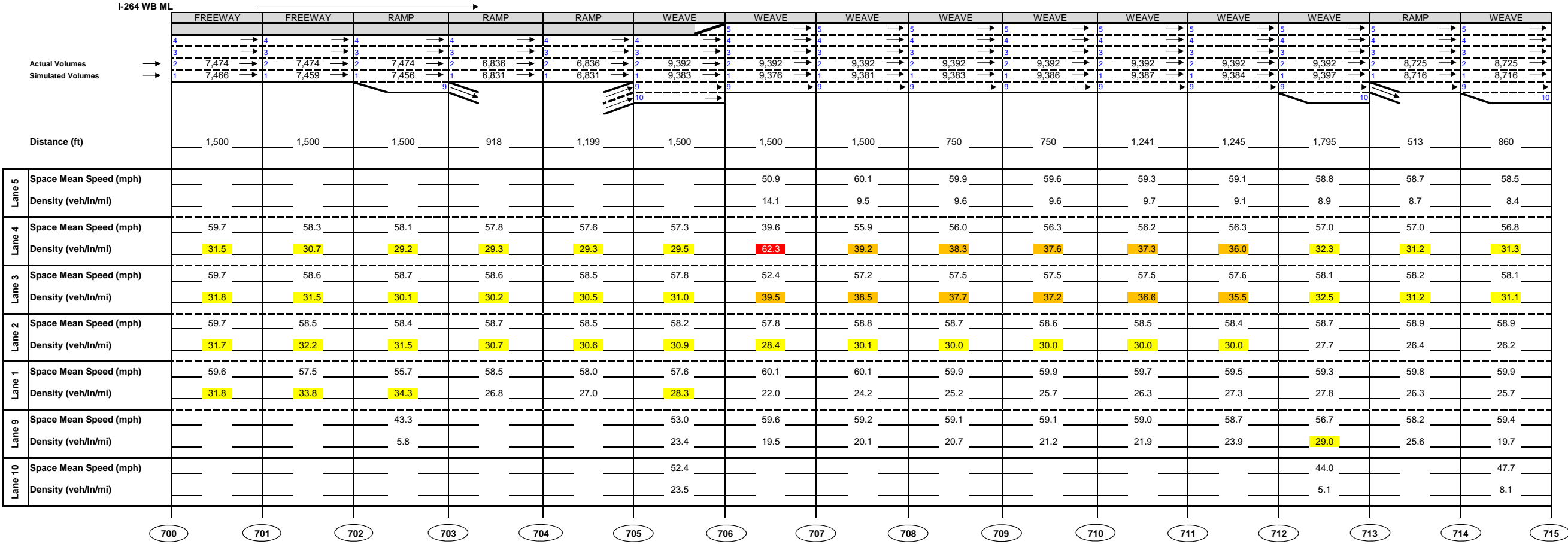
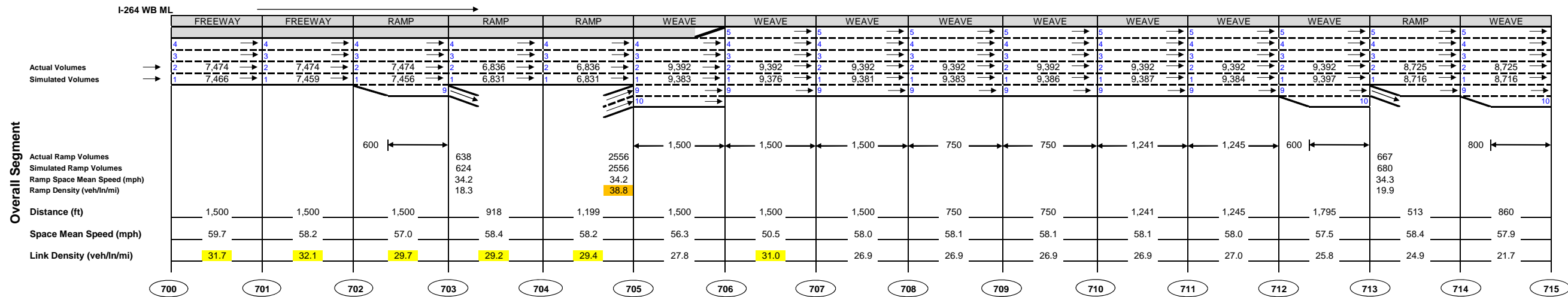


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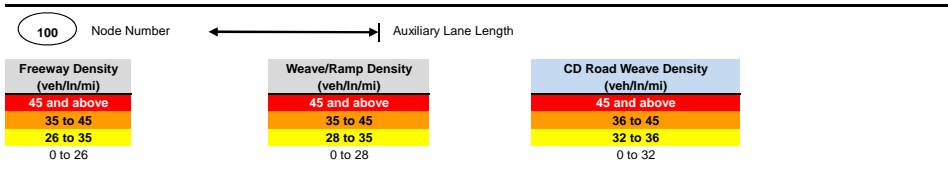
Military Highway Interchange Diverging Diamond Alternative - Link Descriptions (PM Peak Hour)

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	30.1	D	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.8	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	26.2	C	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	20.3	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	19.7	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	11.5	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	18.2	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	25.6	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	26.5	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.3	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.0	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.7	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.3	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.3	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.3	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.5	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	14.2	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	20.5	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	6.6	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.3	B
SB Military Hwy to WB I-264 CD (Merge)	764,765	10.7	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	15.8	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.3	C
WB I-264 West of Military Hwy (Freeway)	734,735	16.9	B	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	25.9	C
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.6	D
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.0	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.6	C
EB I-264 ML to WB I-64 (Diverge)	510,511	18.9	B	WB I-264 to Witchduck Rd (Diverge)	719,720	19.9	B
EB I-264 CD to EB I-64 (Diverge)	557,558	25.9	C	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.7	C
EB/WB I-64 & EB I-264 CD (Weave)	559,560	12.0	A	Independence Boulevard Interchange			
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	15.9	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.6	D
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.8	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	27.0	C
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.3	B	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	20.4	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	15.0	B	NB Independence Blvd to EB I-264 (Merge)	530,531	22.0	C
WB I-264 ML to EB I-64 (Diverge)	728,729	15.8	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.7	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.3	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.8	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	22.7	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	19.9	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.3	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	16.5	B
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.3	A	SB Independence Blvd to WB I-264 (Merge)	716,717	19.8	B
EB I-64 North of I-264 (Freeway)	301,302	20.6	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.6	C
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	26.4	C	Rosemont Road Interchange			
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	27.1	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.7	C
EB I-64 South of I-264 (Freeway)	312,313	26.8	D	EB I-264 to Rosemont Rd (Diverge)	535,536	26.4	C
WB I-64 South of I-264 (Freeway)	101,102	26.7	D	SB Rosemont Rd to EB I-264 (Merge)	537,538	19.3	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	26.0	C	NB Rosemont Rd to EB I-264 (Merge)	538,539	17.0	B
WB I-64 to I-264 EB (Diverge)	104,105	28.4	D	EB I-264 East of Rosemont Rd (Freeway)	540,541	21.3	C
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	21.6	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	26.6	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	25.2	C	WB I-264 to Rosemont Rd (Diverge)	702,703	24.9	C
WB I-64 North of I-264 (Freeway)	110,111	26.3	D	NB Rosemont Rd to WB I-264 (Merge)	704,705	23.8	C
				SB Rosemont Rd to WB I-264 (Merge)	705,706	21.5	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.8	C



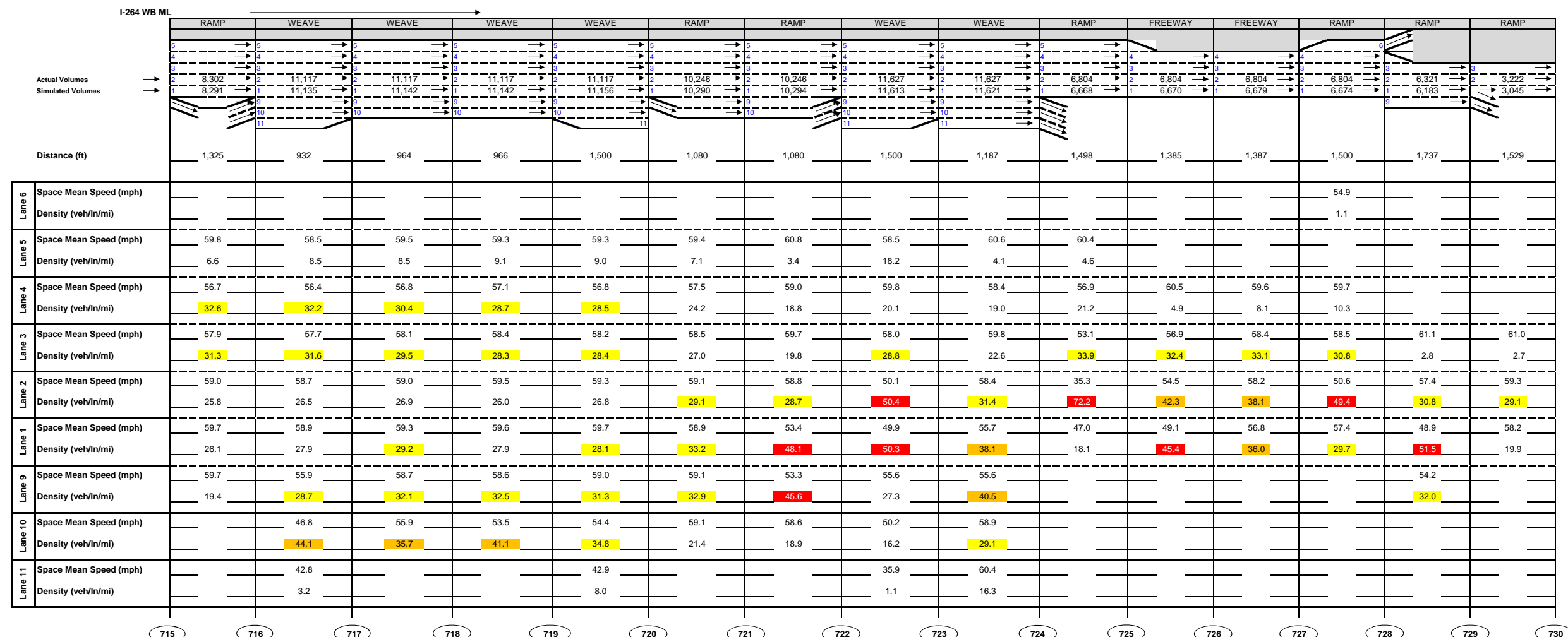
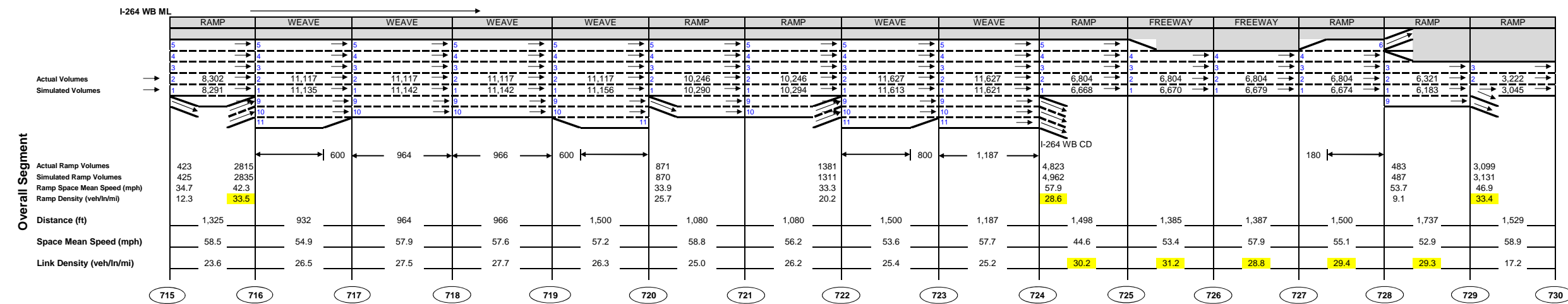
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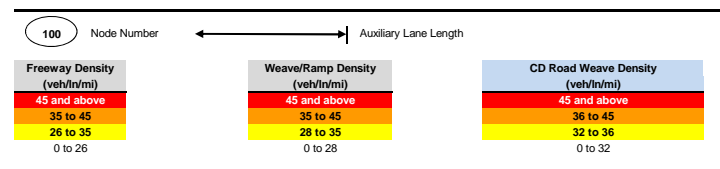
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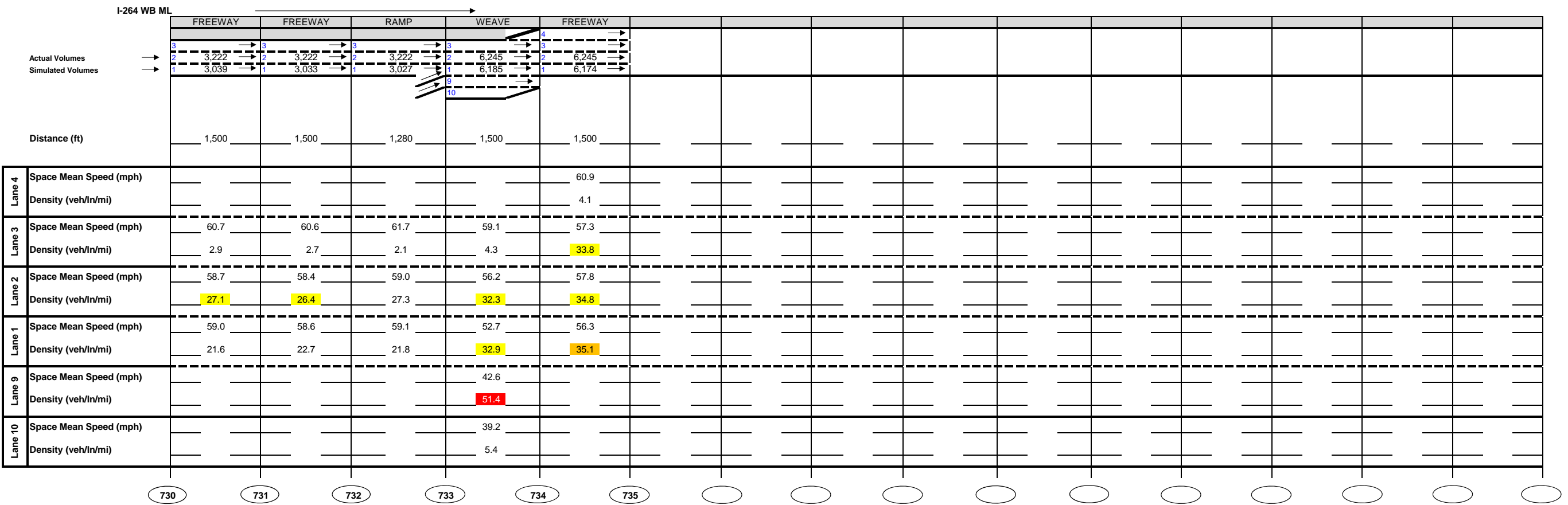
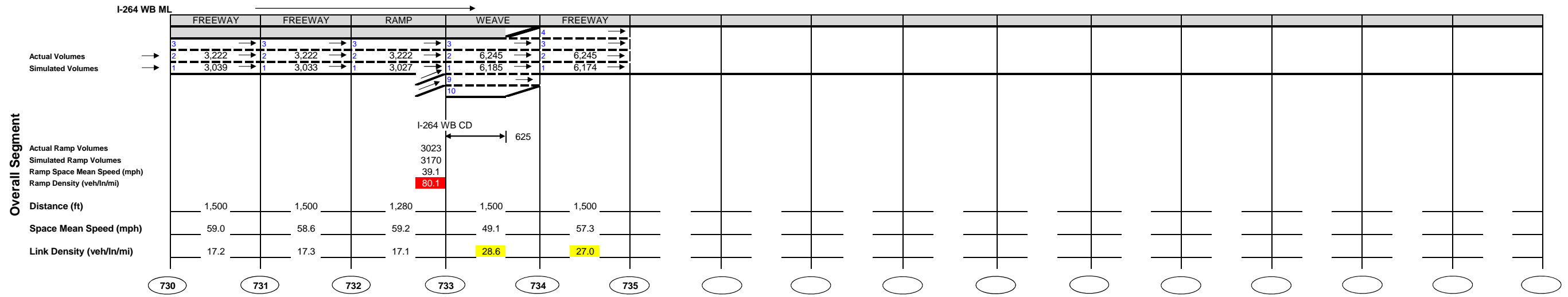


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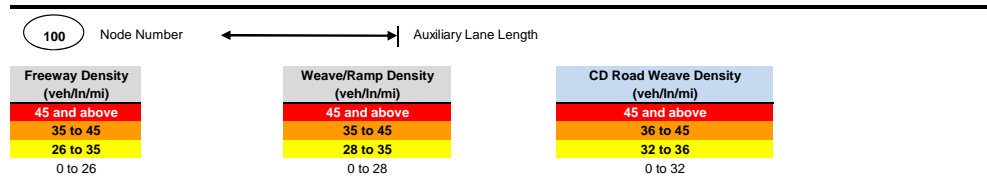


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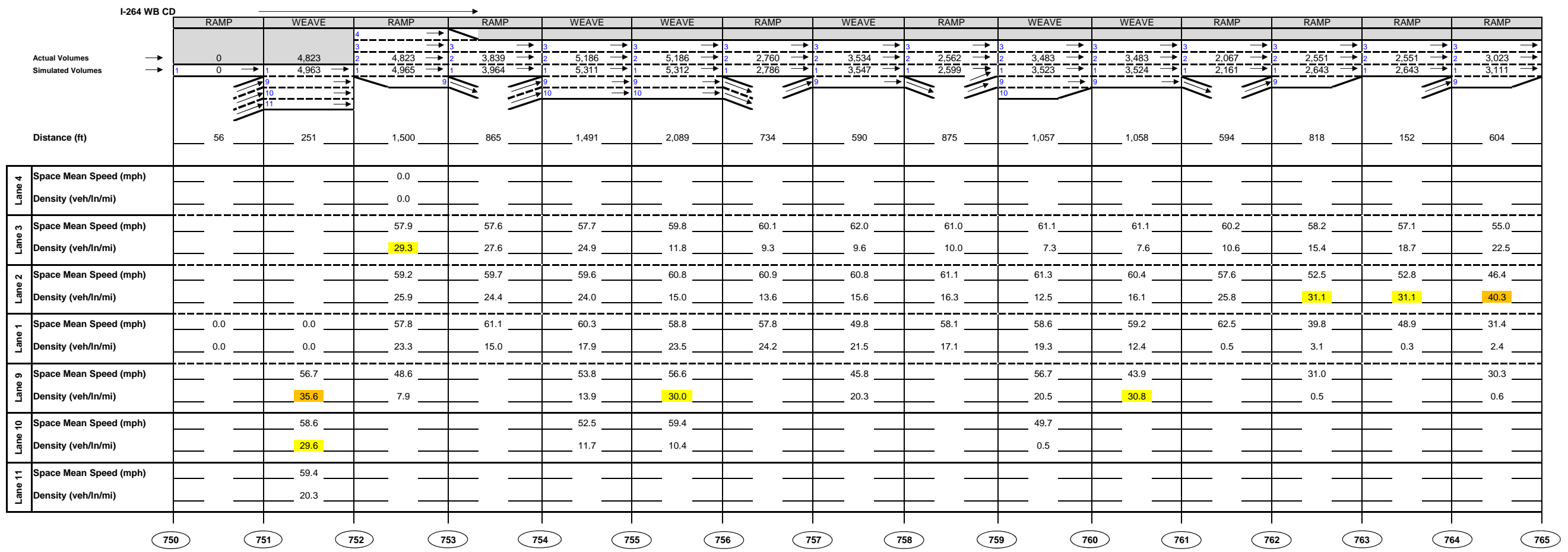
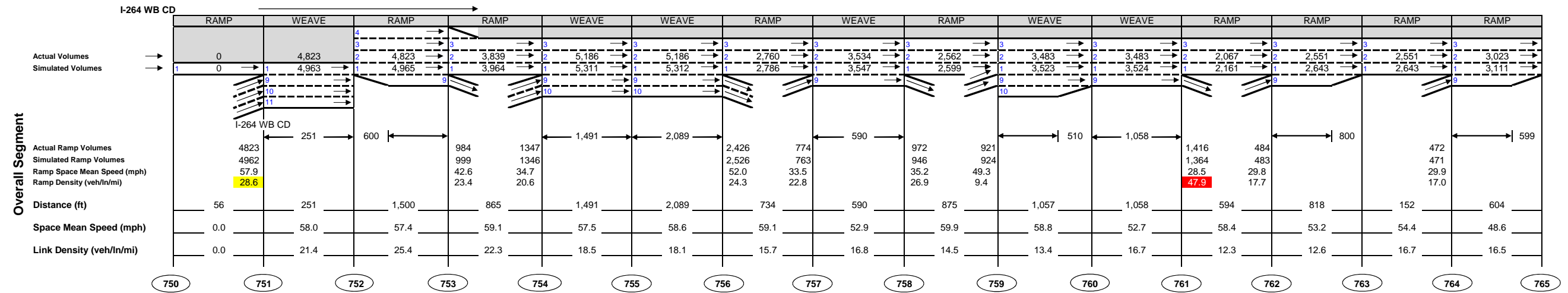
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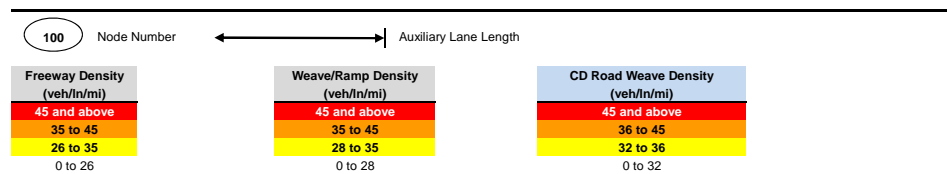
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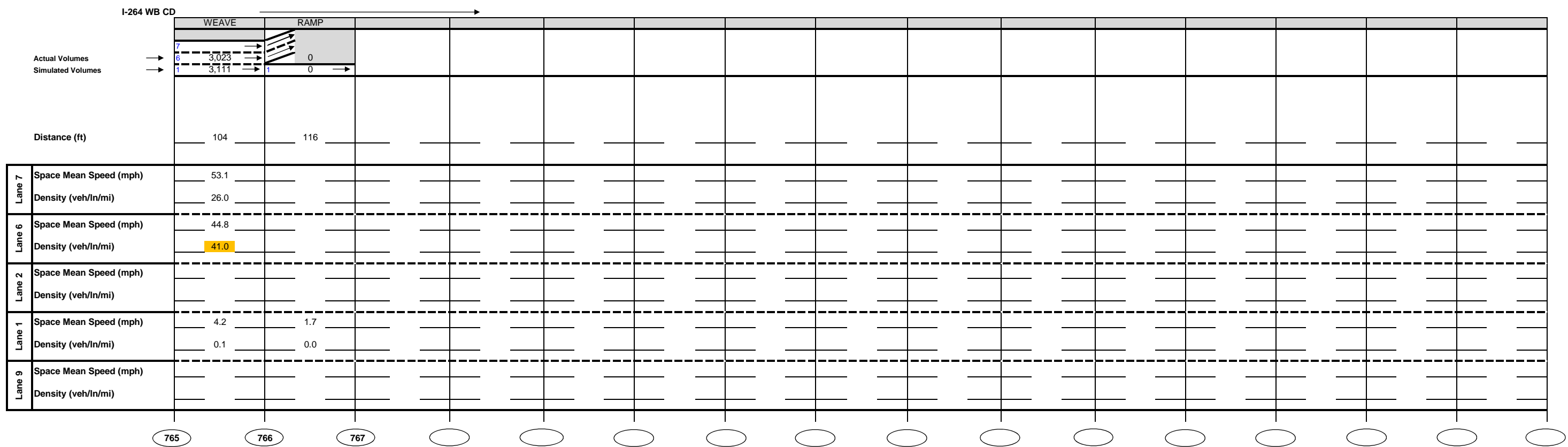
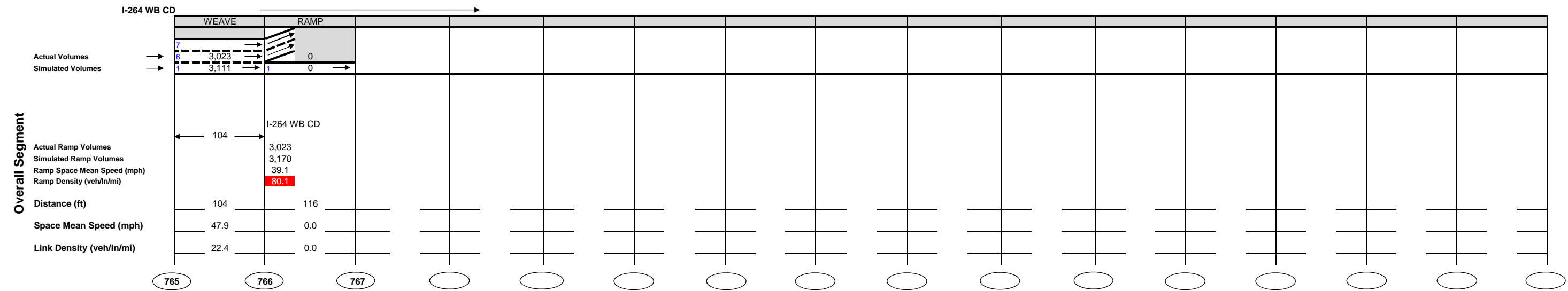


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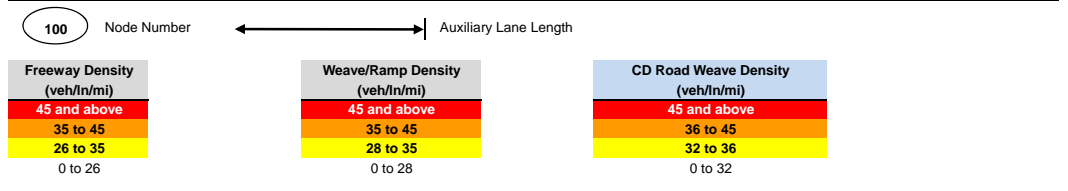


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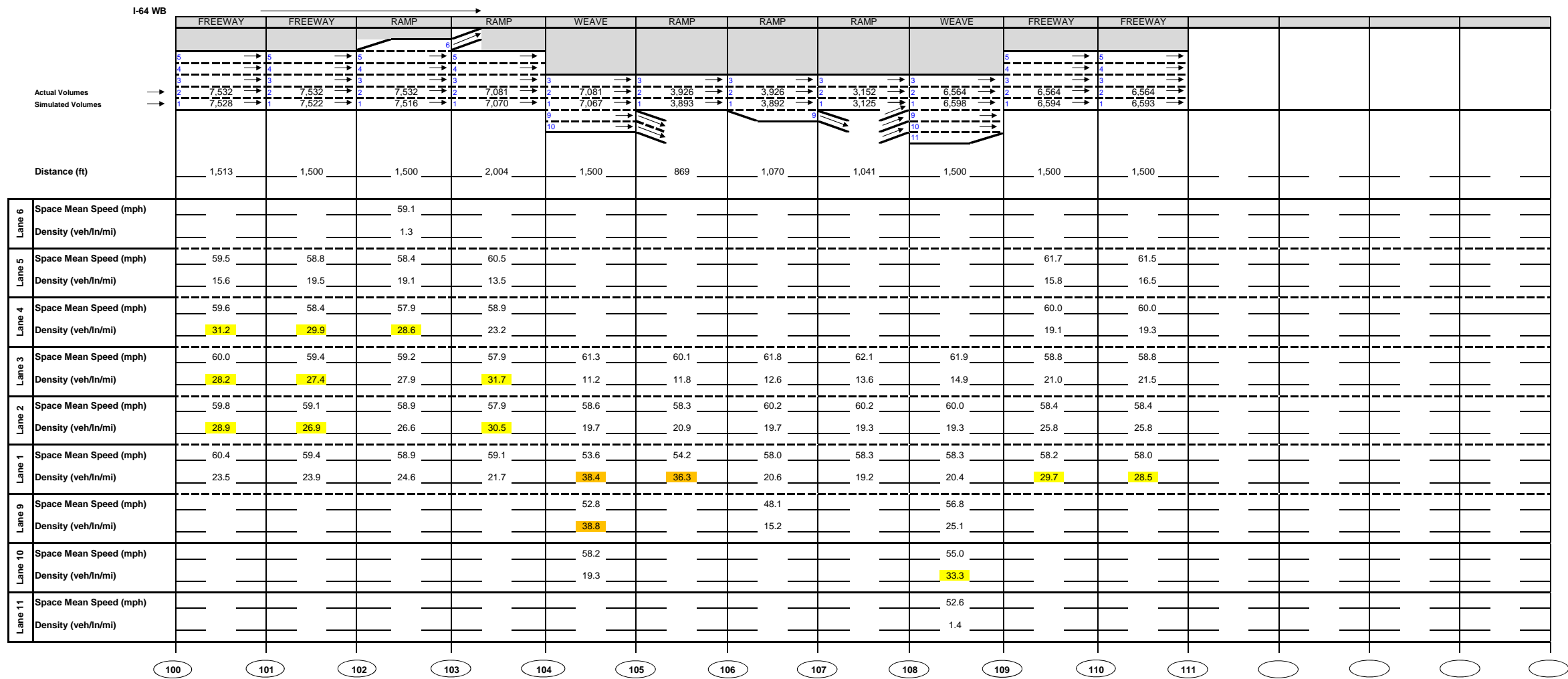
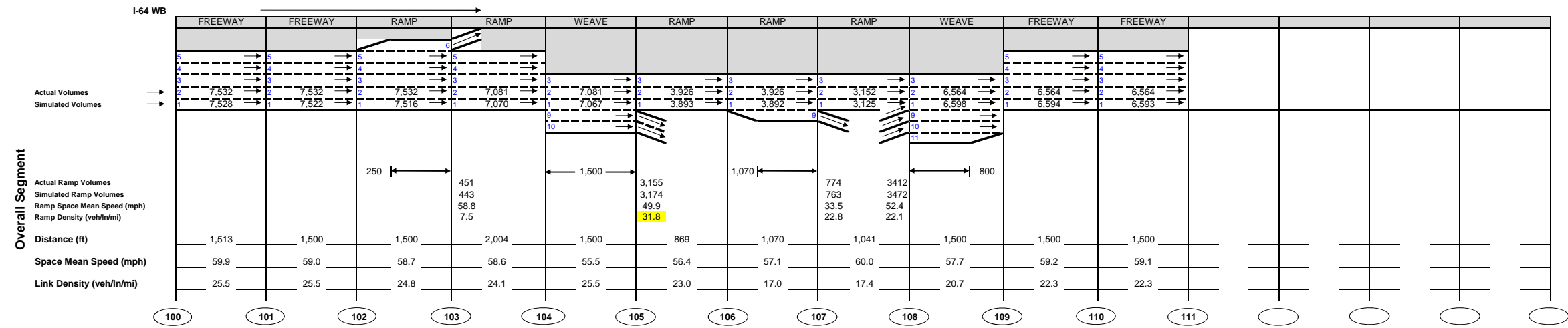
NOTE: numbers in chart are provided for illustrative purposes only

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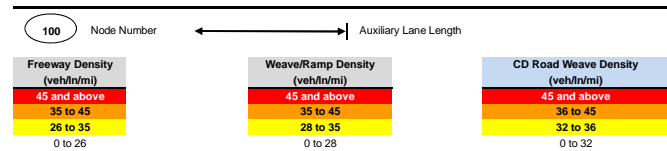
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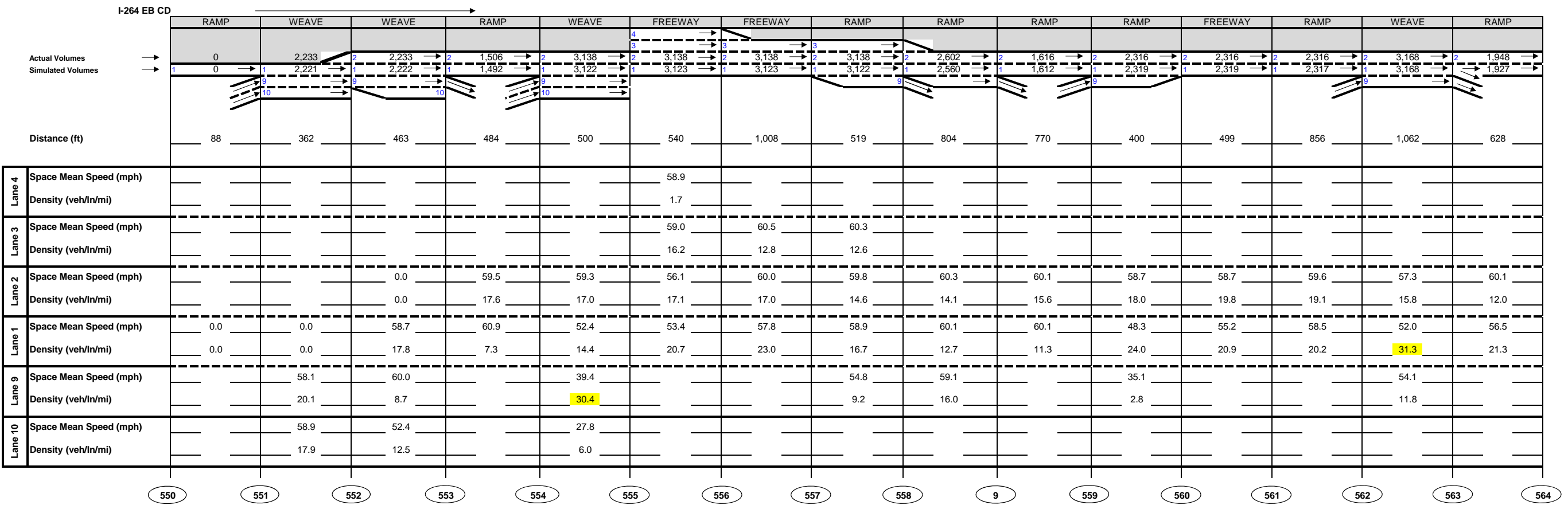
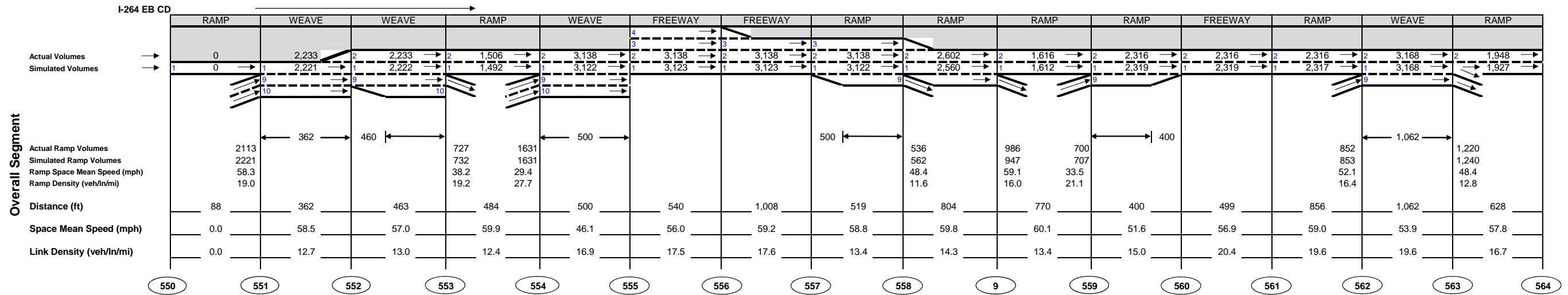


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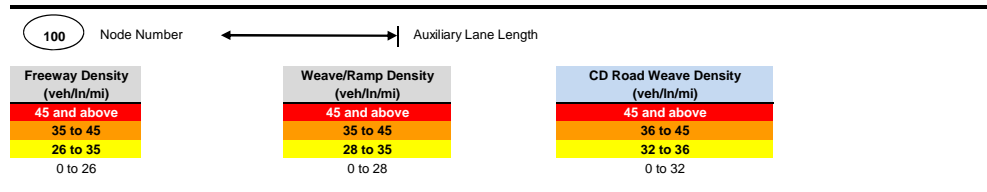


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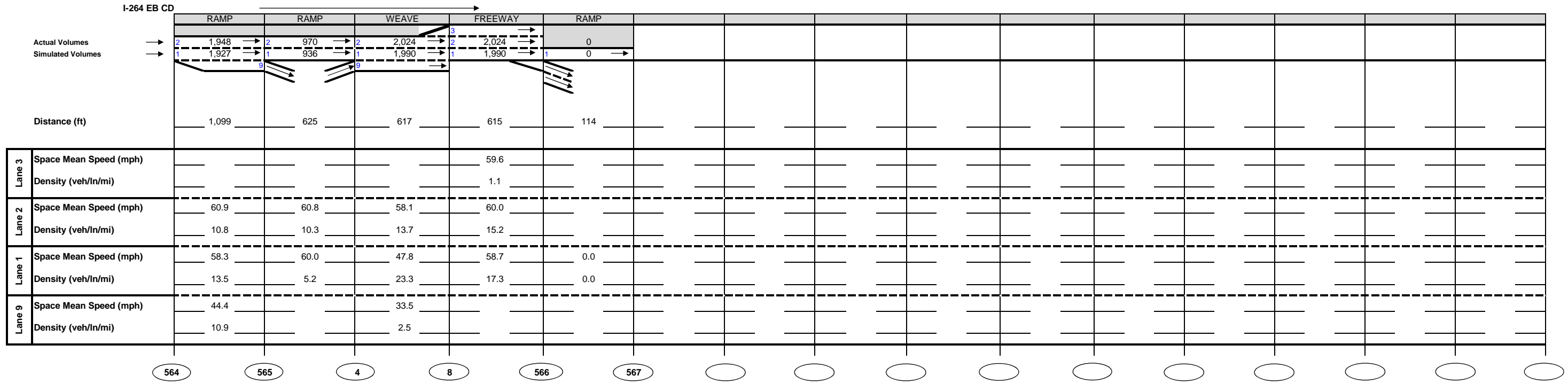
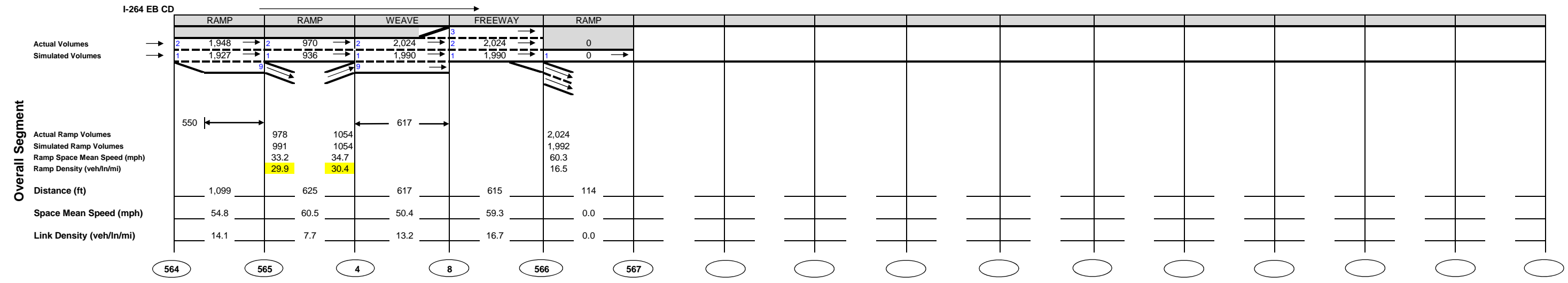
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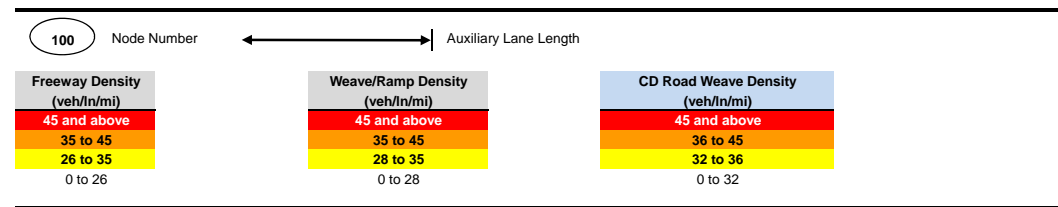
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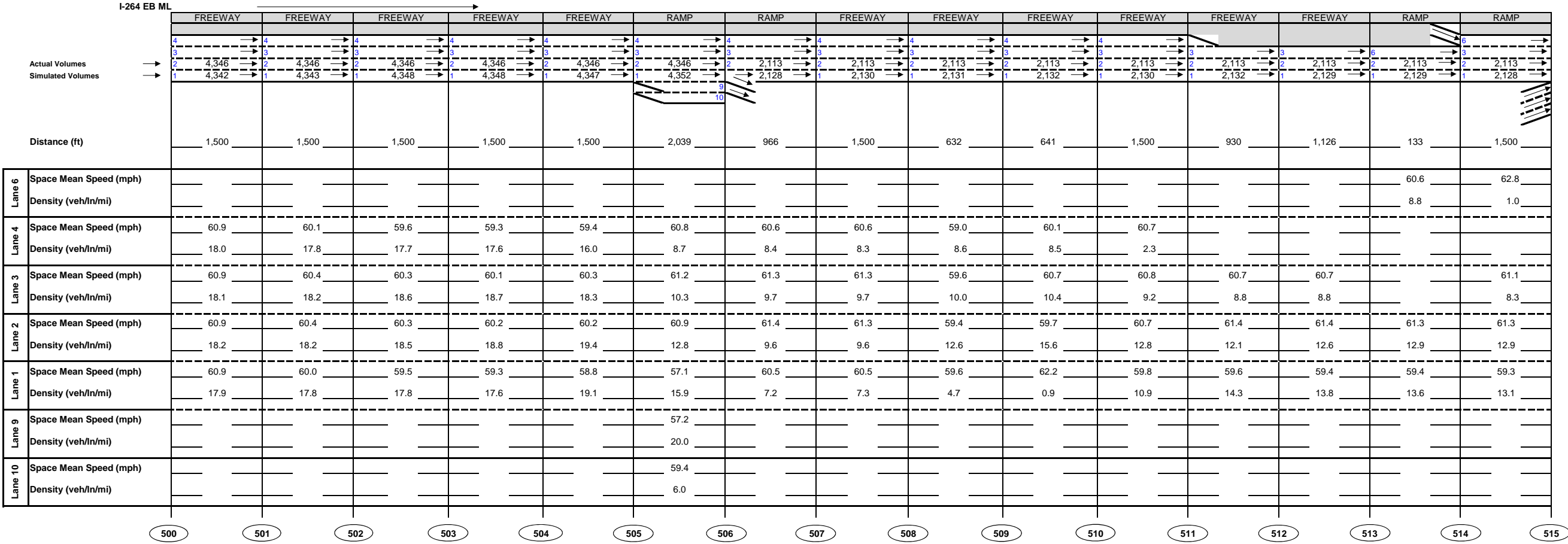
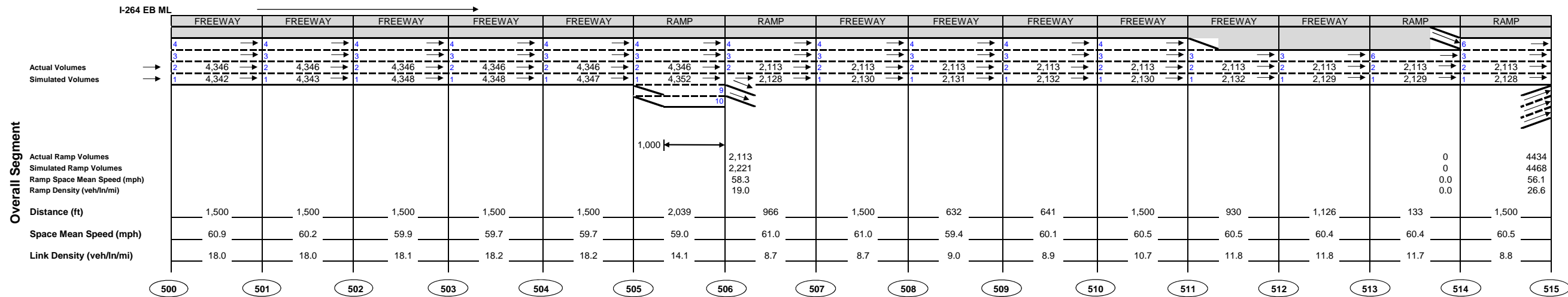
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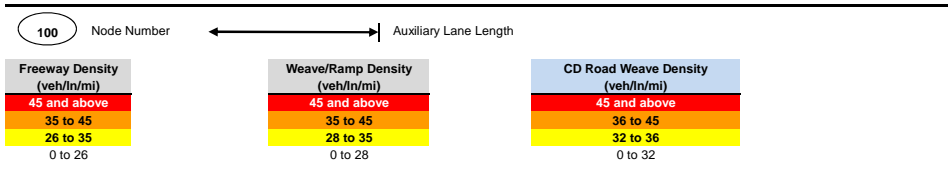
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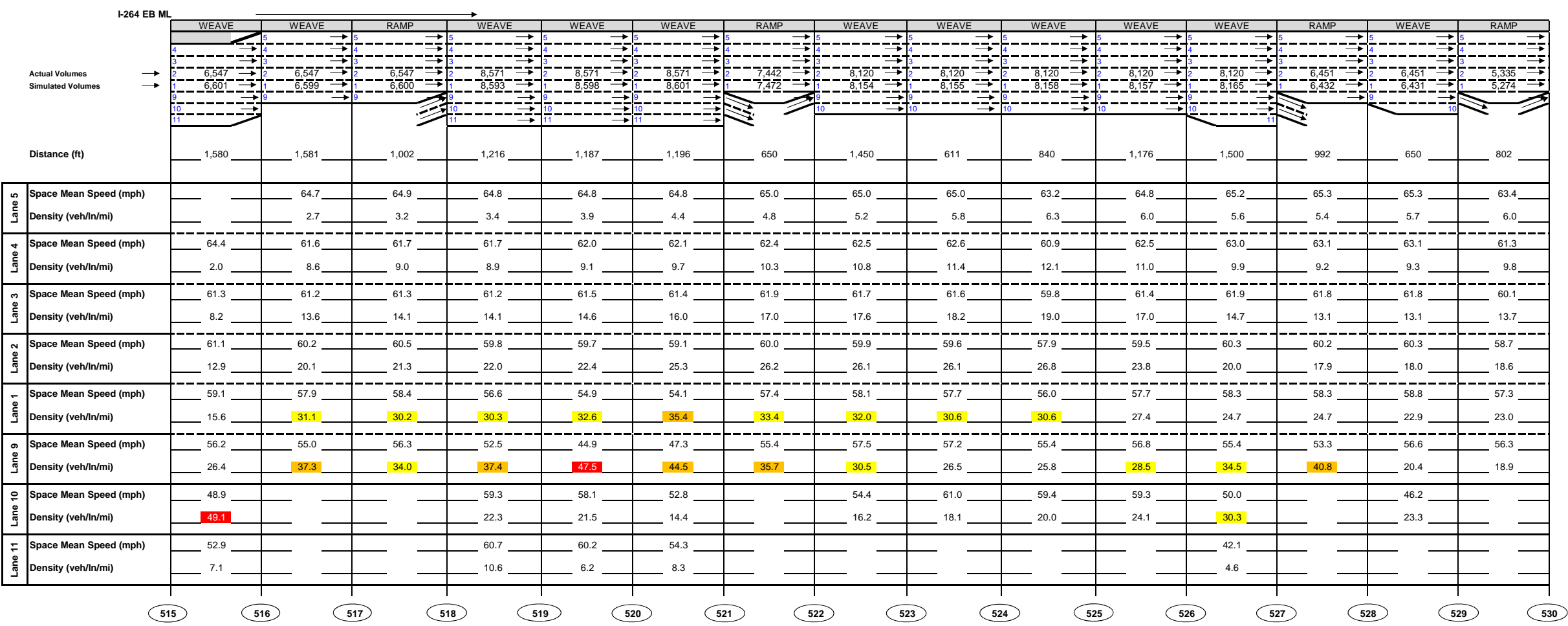
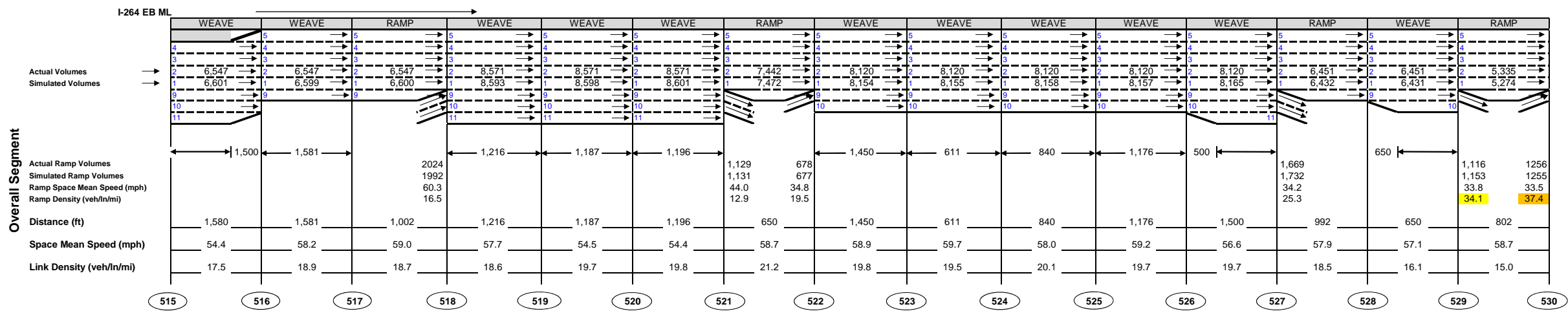


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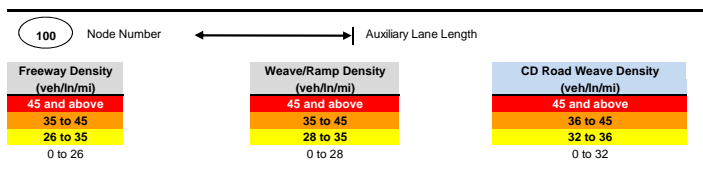


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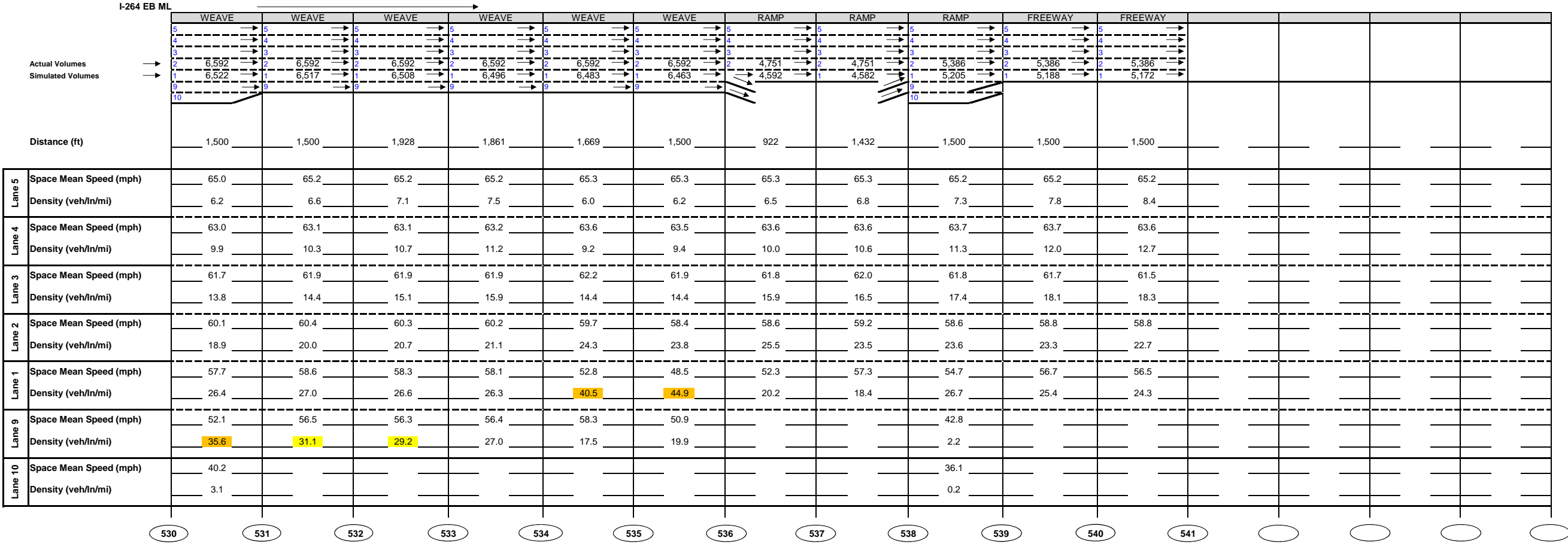
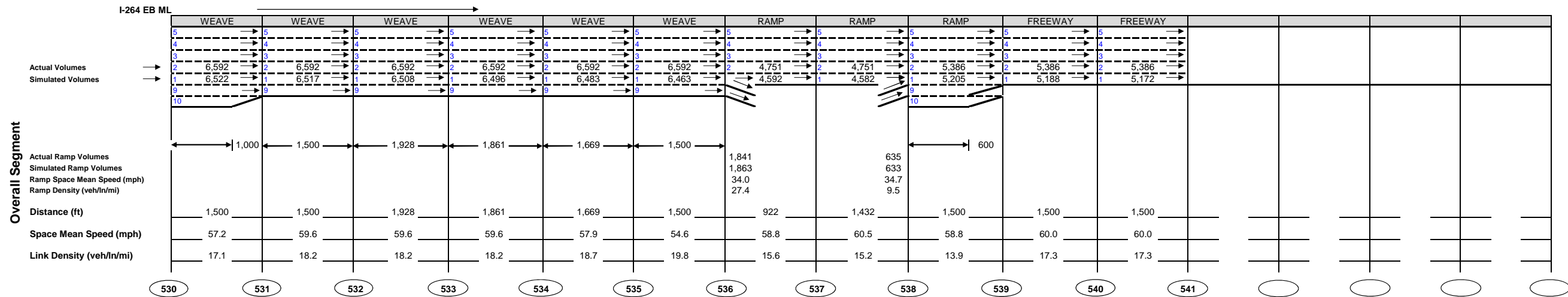
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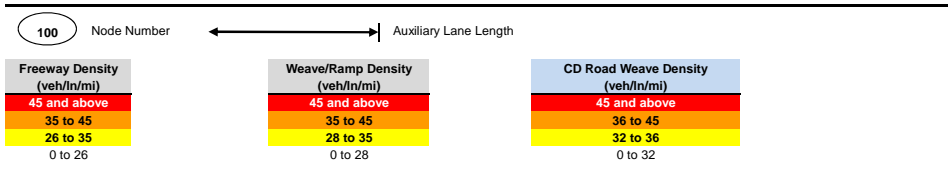
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This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	4,603	3,903	7,538	7,538	7,538	7,538
Simulated Volumes	6,684	6,687	6,689	6,695	6,699	6,710	3,646	4,598	3,894	7,580	7,573	7,571	7,565	
Actual Ramp Volumes						1,500	3,052	972	1,330	700	3,635			
Simulated Ramp Volumes							3,069	946		707	3,690			
Ramp Space Mean Speed (mph)							47.9	33.1		33.7	45.5			
Ramp Density (veh/ln/mi)							21.4	28.6		21.0	40.5			
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)	60.6	59.7	59.4	59.3	56.3	51.6	59.5	55.5	59.4	57.4	58.8	58.7	58.7	
Link Density (veh/ln/mi)	22.3	22.4	22.5	22.6	23.8	26.0	20.4	20.7	21.9	26.4	25.8	25.8	25.8	

Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,683	6,683	6,683	6,683	6,683	6,683	6,683	6,683	4,603	3,903	7,538	7,538	7,538	7,538
Simulated Volumes	6,684	6,687	6,689	6,695	6,699	6,710	3,646	4,598	3,894	7,580	7,573	7,571	7,565	
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 5	Space Mean Speed (mph)	60.6	59.5	59.0	59.0	60.2					60.3	60.1	60.0	
Lane 5	Density (veh/ln/mi)	22.1	22.0	22.0	20.9	14.4					20.9	22.1	22.9	
Lane 4	Space Mean Speed (mph)	60.6	59.9	59.7	59.6	58.9					59.7	59.6	59.5	
Lane 4	Density (veh/ln/mi)	22.4	22.6	22.8	23.2	23.9					24.2	24.4	24.8	
Lane 3	Space Mean Speed (mph)	60.6	59.8	59.6	59.1	50.8	58.7	60.9	60.5	60.6	60.5	58.4	58.3	58.4
Lane 3	Density (veh/ln/mi)	22.3	22.3	22.5	24.6	44.6	17.4	17.7	17.5	18.7	19.6	24.9	24.6	24.4
Lane 2	Space Mean Speed (mph)	60.6	59.9	59.7	59.7	59.3	55.5	60.0	59.2	60.0	59.8	59.0	58.8	58.7
Lane 2	Density (veh/ln/mi)	22.5	22.7	23.1	23.5	23.3	26.4	23.2	23.1	23.4	24.0	29.1	29.2	28.9
Lane 1	Space Mean Speed (mph)	60.5	59.4	58.9	58.9	60.4	44.1	57.6	53.3	57.9	57.8	57.1	57.0	57.0
Lane 1	Density (veh/ln/mi)	22.4	22.3	22.1	20.8	12.8	47.3	20.3	27.3	23.4	25.9	29.7	28.7	28.0
Lane 9	Space Mean Speed (mph)						54.0		47.7		56.4			
Lane 9	Density (veh/ln/mi)						23.8		14.9		30.0			
Lane 10	Space Mean Speed (mph)						56.0				54.6			
Lane 10	Density (veh/ln/mi)						15.2				32.4			

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100 Node Number ← Auxiliary Lane Length

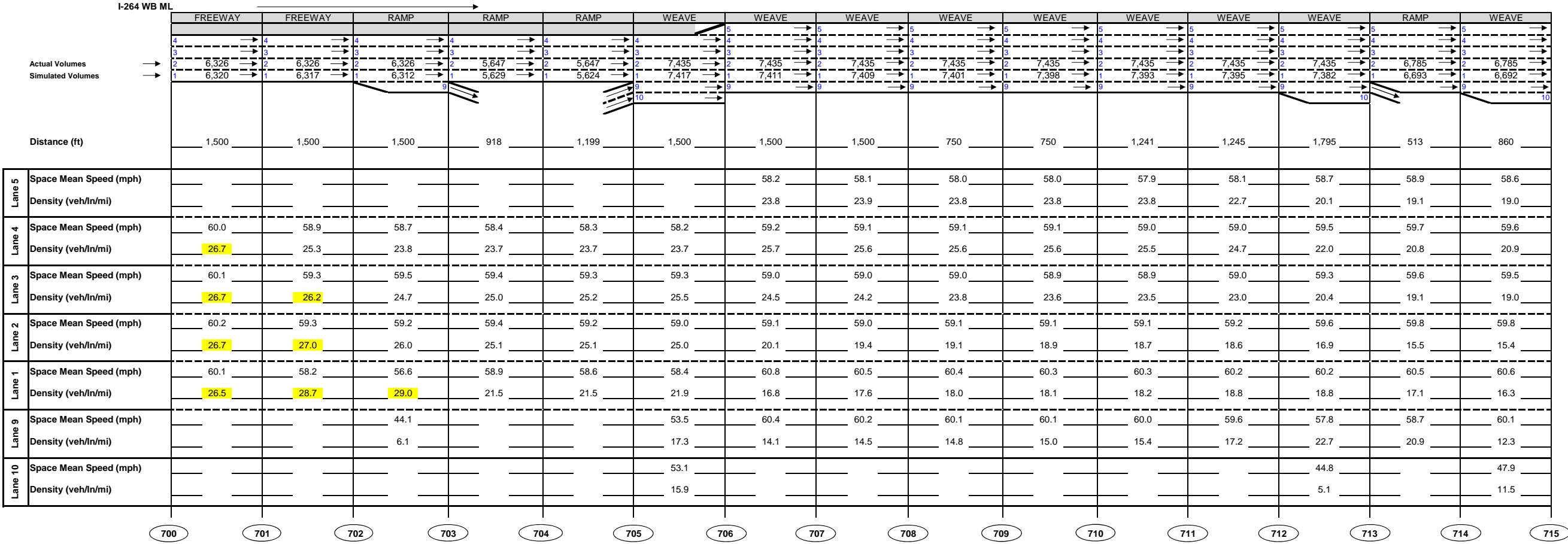
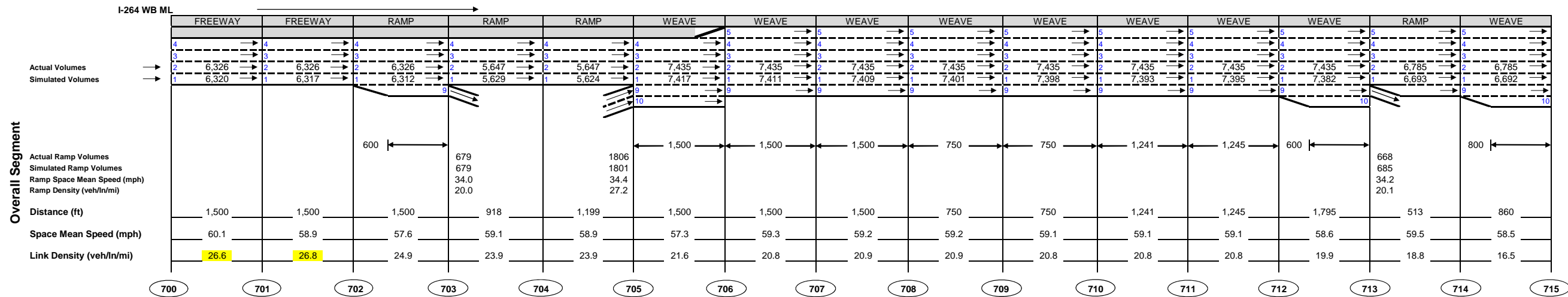
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



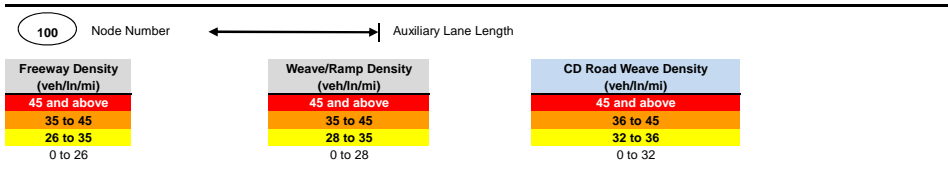
Military Highway Interchange Modified Partial Cloverleaf Alternative - Link Descriptions (AM Peak Hour)

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	18.1	C	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	18.1	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	14.1	B	NB/SB Newtown Rd & EB I-264 CD (Diverge)	564,565	14.1	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	13.0	B	NB/SB Newtown Rd to EB I-264 CD (Merge)	4,8	13.2	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	16.9	B	EB I-264 CD to EB I-264 ML (Merge)	518,519	18.6	B
NB Military Hwy to EB I-264 CD (Merge)	556,557	17.6	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	519,520	19.7	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.7	A	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.2	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.2	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.4	C
EB I-64 to WB I-264 CD (Merge)	759,760	13.4	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	18.5	B
WB I-264 CD to NB Military Hwy (Diverge)	760,761	16.7	B	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	28.8	D
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	12.6	B	Witchduck Road Interchange			
SB Military Hwy to WB I-264 CD (Merge)	764,765	16.5	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	519,520	19.7	C
WB I-264 CD to WB I-264 ML (Merge)	733,734	28.6	D	EB I-264 to SB Witchduck Rd (Diverge)	520,521	19.8	B
WB I-264 West of Military Hwy (Freeway)	734,735	27.0	D	NB/SB Witchduck Rd to EB I-264 (Merge)	522,523	19.8	B
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.7	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.7	A	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.7	D
EB I-264 CD to EB I-64 (Diverge)	557,558	13.4	B	WB I-264 to Witchduck Rd (Diverge)	719,720	26.3	C
EB I-64 to EB I-264 CD (Merge)	559,560	15.0	B	NB/SB Witchduck Rd to WB I-264 (Merge)	722,723	25.4	C
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	562,563	19.6	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.2	C
EB/WB I-64 to EB I-264 ML (Merge)	515,516	17.5	B	Independence Boulevard Interchange			
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	28.8	D	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.7	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	29.4	D	EB I-264 to SB Independence Blvd (Diverge)	526,527	19.7	B
WB I-264 ML to EB I-64 (Diverge)	728,729	29.3	D	EB I-264 to NB Independence Blvd (Diverge)	528,529	16.1	B
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.1	B	NB/SB Independence Blvd to EB I-264 (Merge)	530,531	17.1	B
EB/WB I-64 & WB I-264 CD (Weave)	757,758	16.8	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.2	C
EB I-64 to WB I-264 CD (Merge)	759,760	13.4	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.9	D
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.2	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	25.8	C
EB I-64 North of I-264 (Freeway)	301,302	22.4	C	WB I-264 to SB Independence (Diverge)	714,715	21.7	C
EB I-64 to EB/WB I-264 (Diverge)	305,306	26.0	C	NB/SB Independence Blvd to WB I-264 (Merge)	716,717	26.5	C
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	20.7	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.7	D
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	26.4	C	Rosemont Road Interchange			
EB I-64 South of I-264 (Freeway)	312,313	25.8	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.2	C
WB I-64 South of I-264 (Freeway)	101,102	25.5	C	EB I-264 to Rosemont Rd (Diverge)	535,536	19.8	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.8	C	NB/SB Rosemont Rd to EB I-264 (Merge)	538,539	13.9	B
WB I-64 to I-264 EB (Diverge)	104,105	25.5	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	17.3	B
WB I-64 to WB I-264 CD (Diverge)	106,107	17.0	B	WB I-264 East of Rosemont Rd (Freeway)	700,701	31.7	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	20.7	C	WB I-264 to Rosemont Rd (Diverge)	702,703	29.7	D
WB I-64 North of I-264 (Freeway)	110,111	22.3	C	NB/SB Rosemont Rd to WB I-264 (Merge)	705,706	27.8	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.9	D



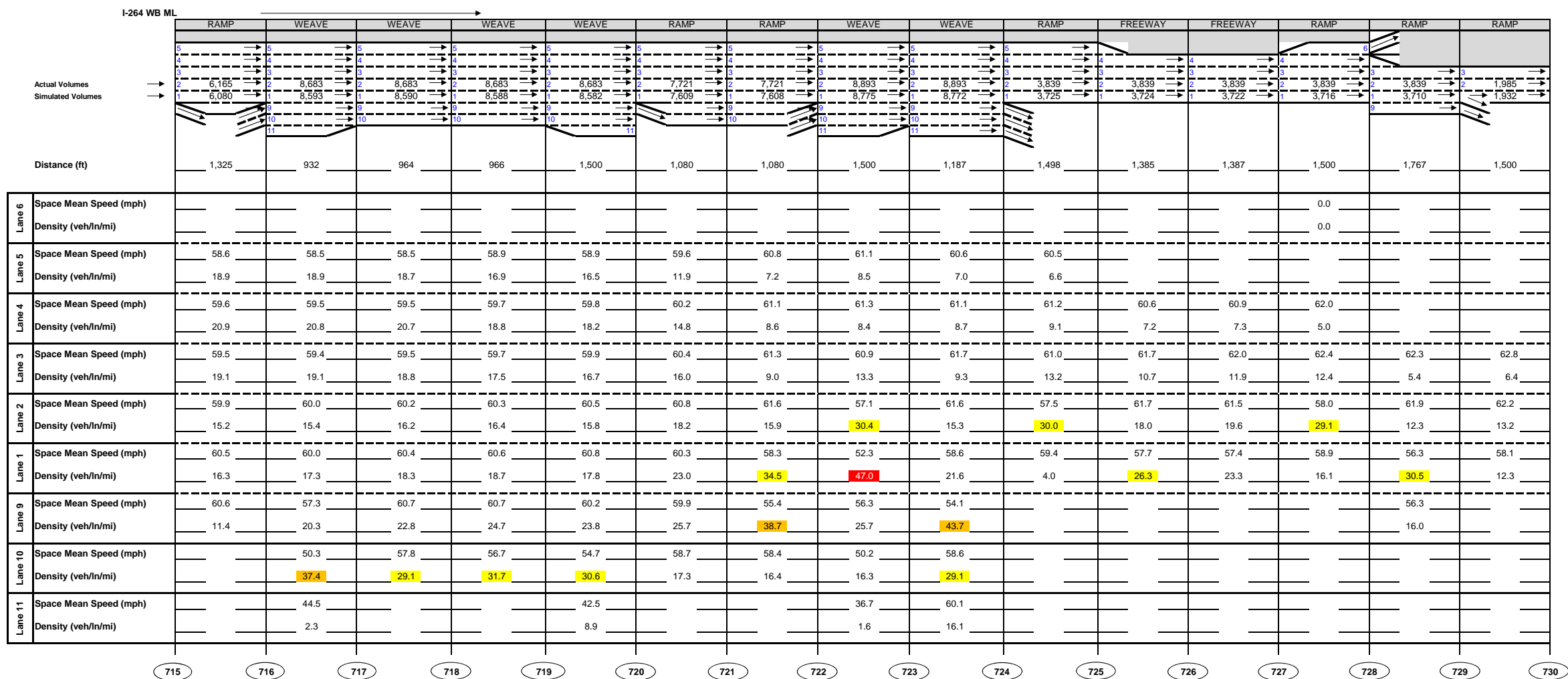
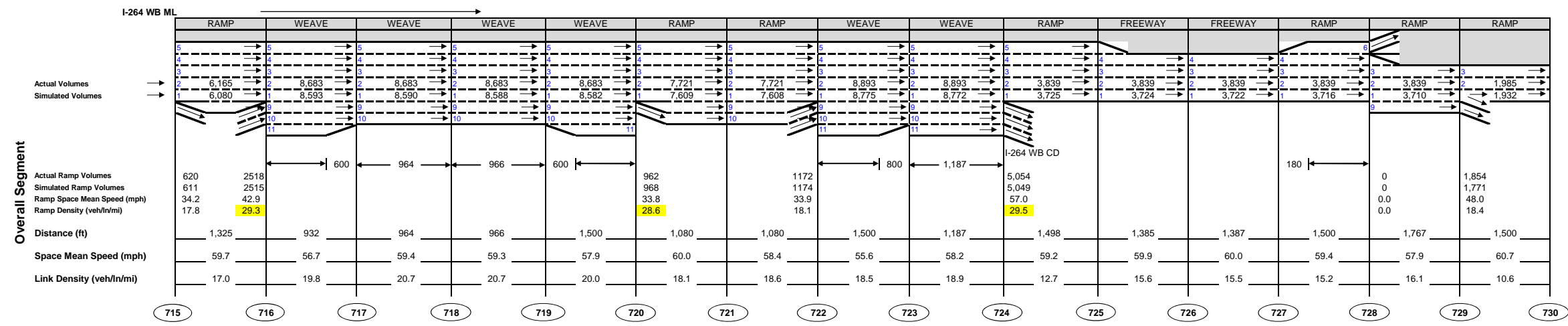
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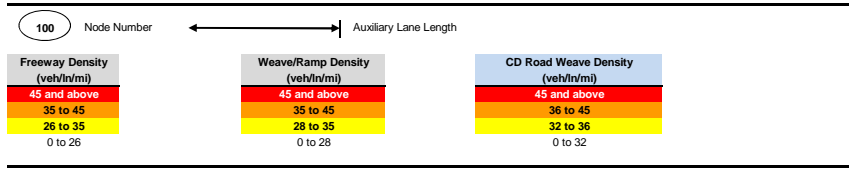


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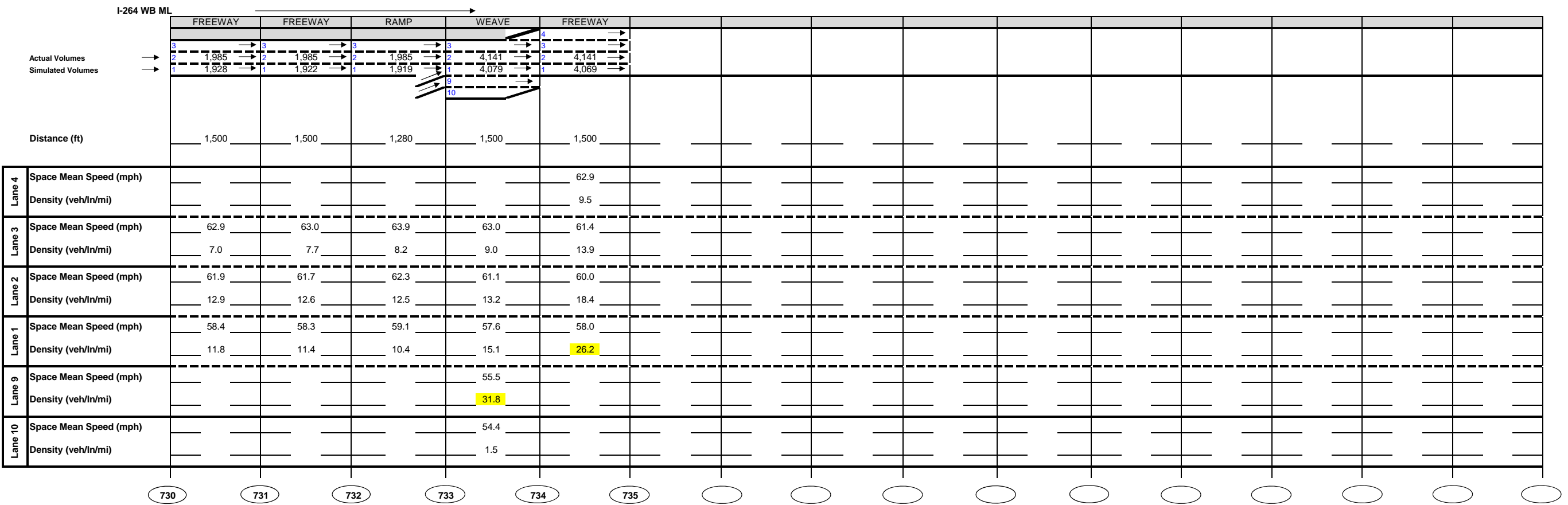
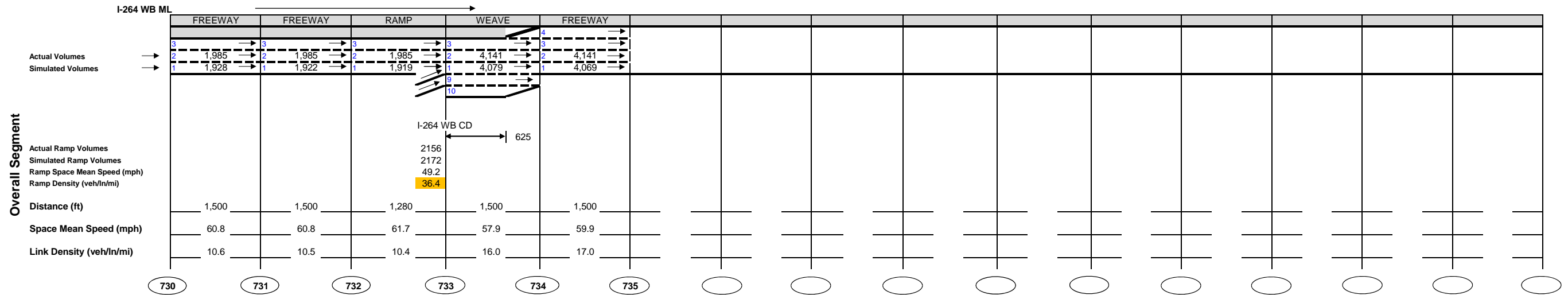




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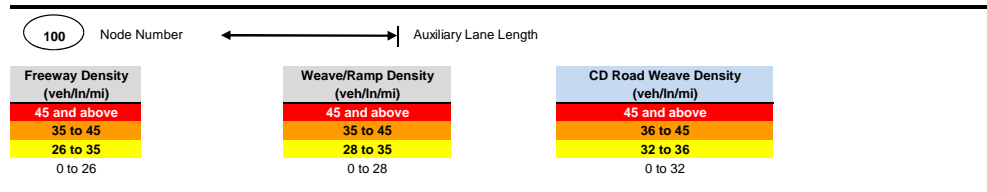


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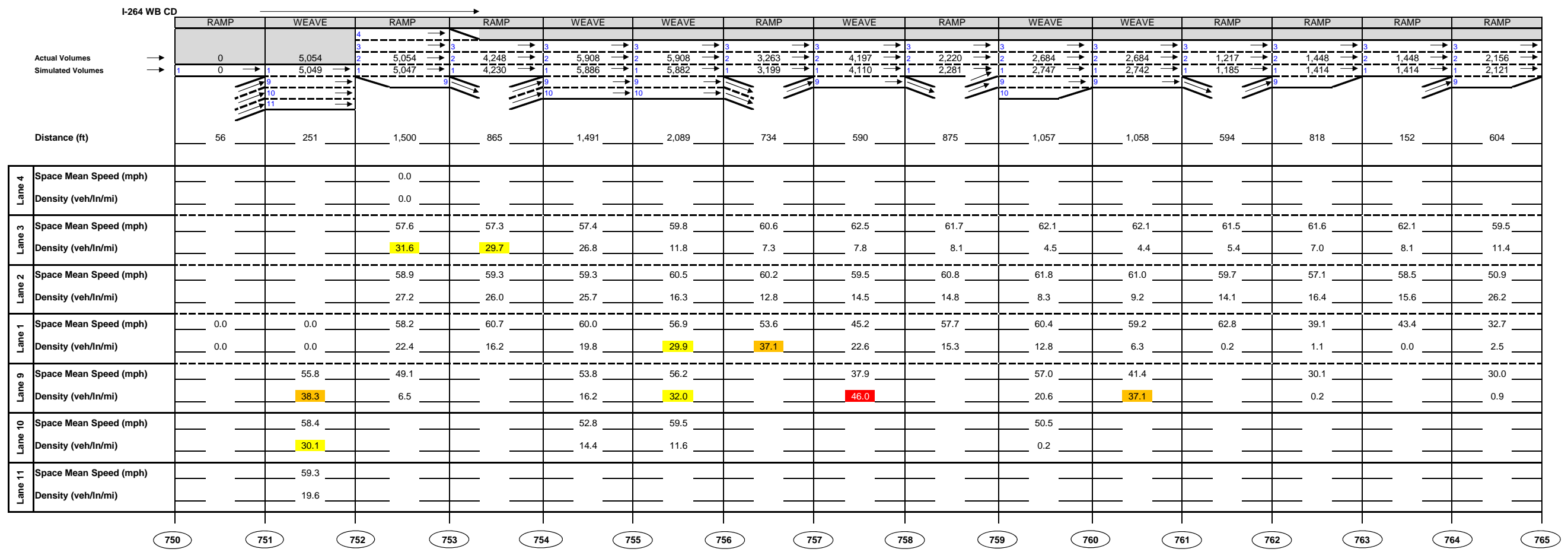
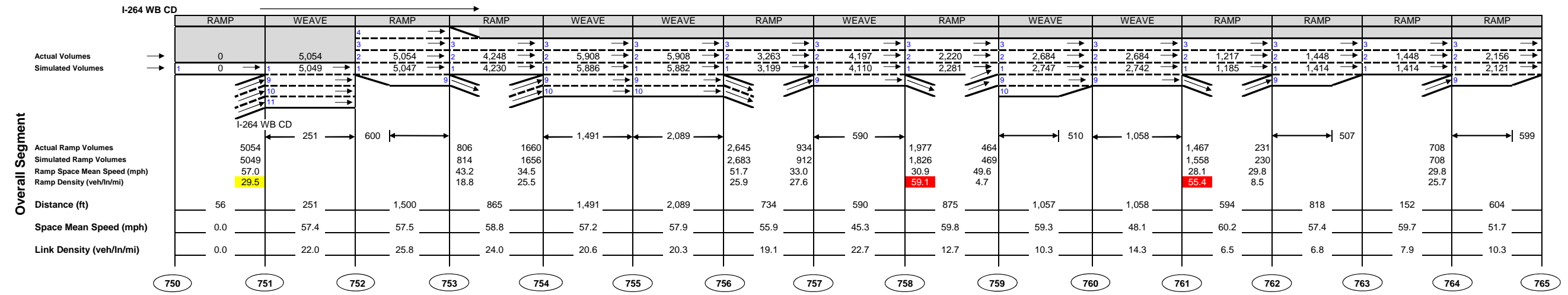
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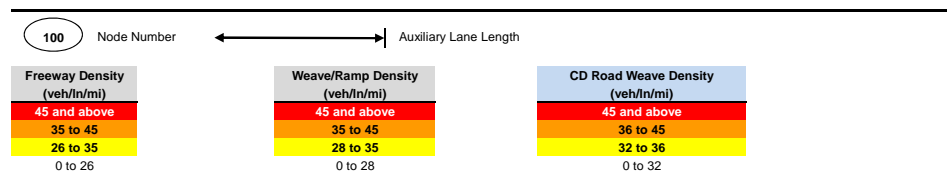
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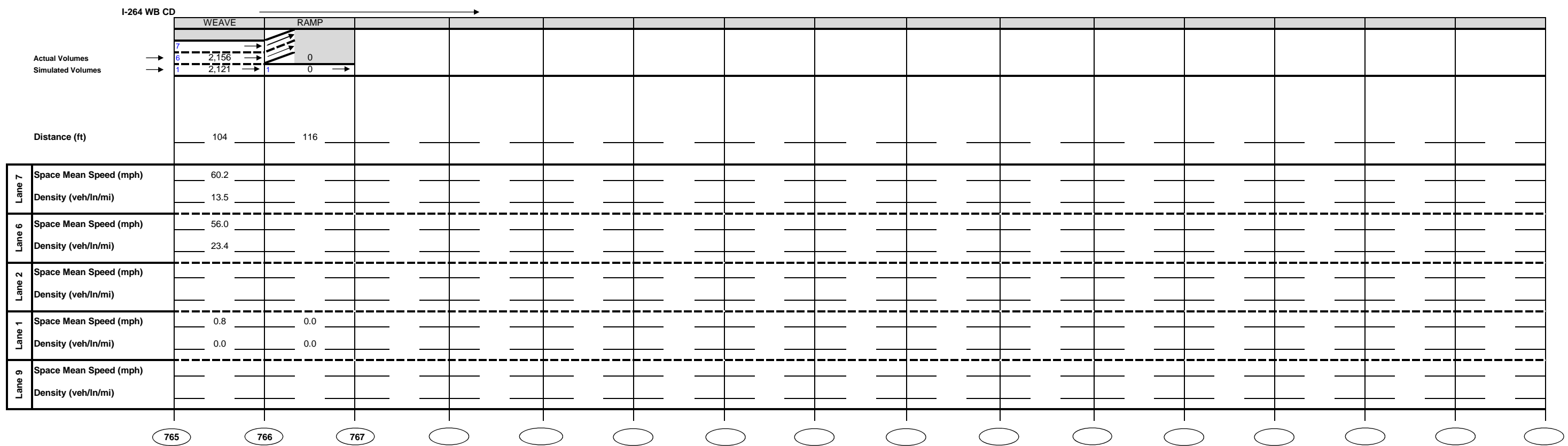
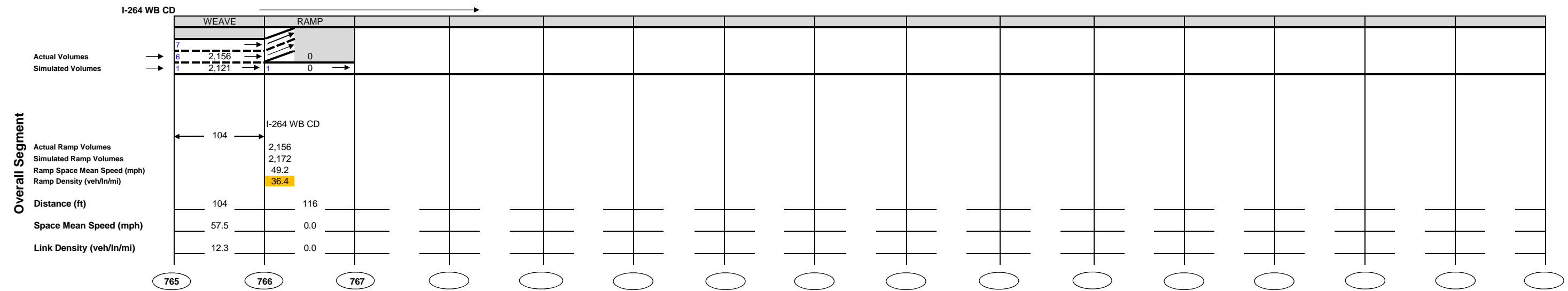


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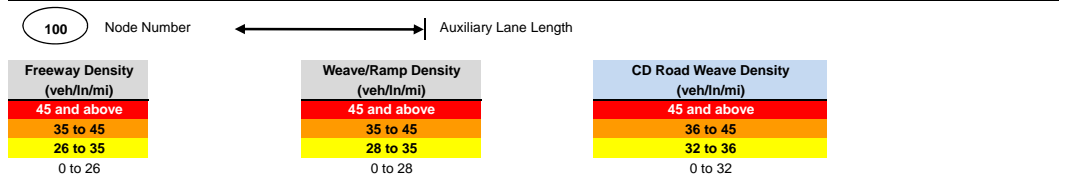


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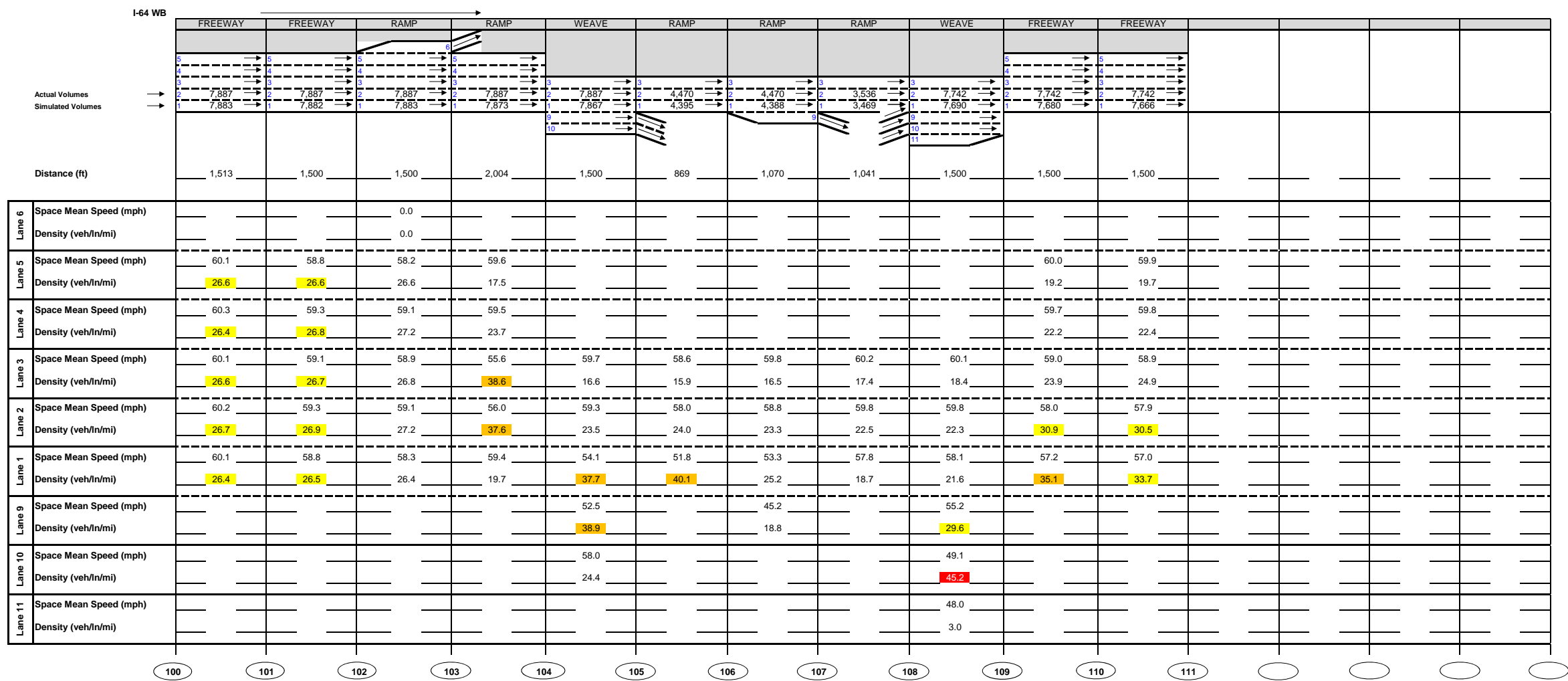
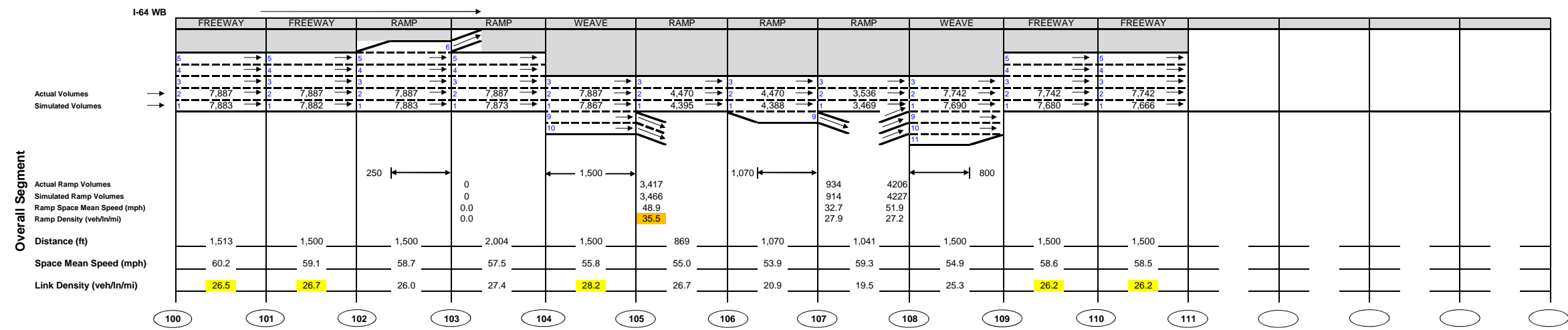
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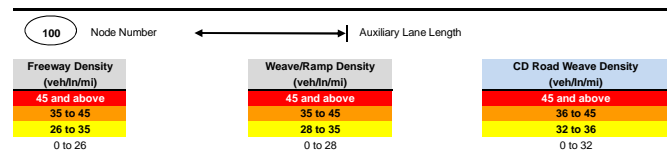
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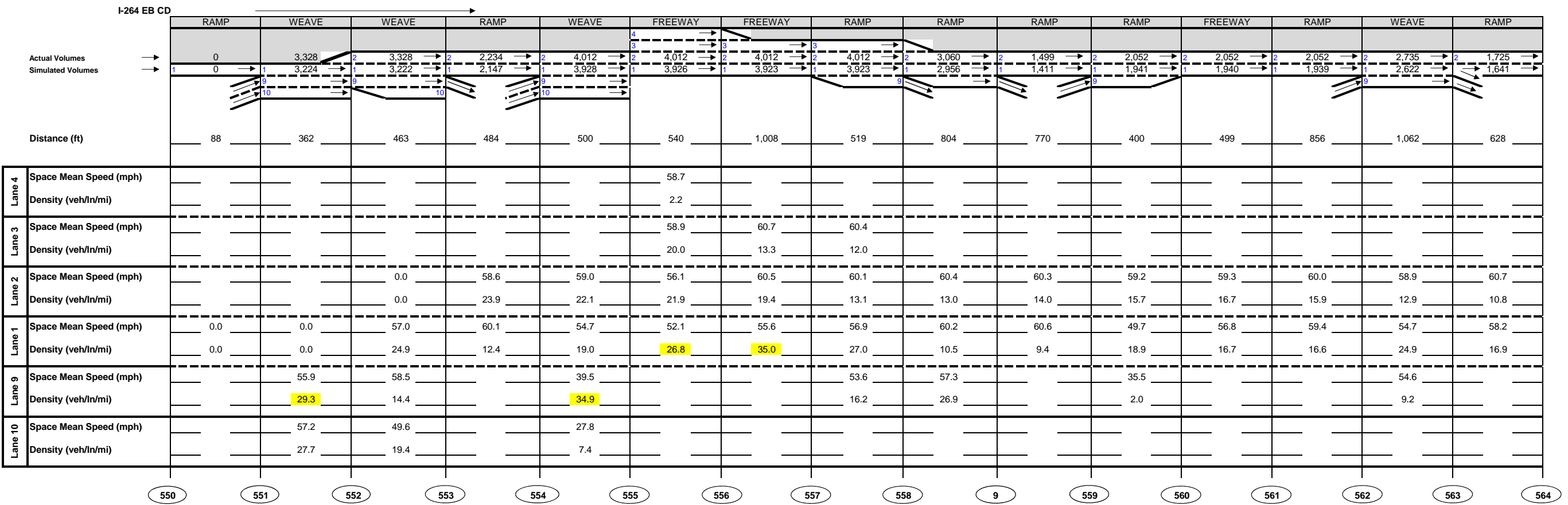
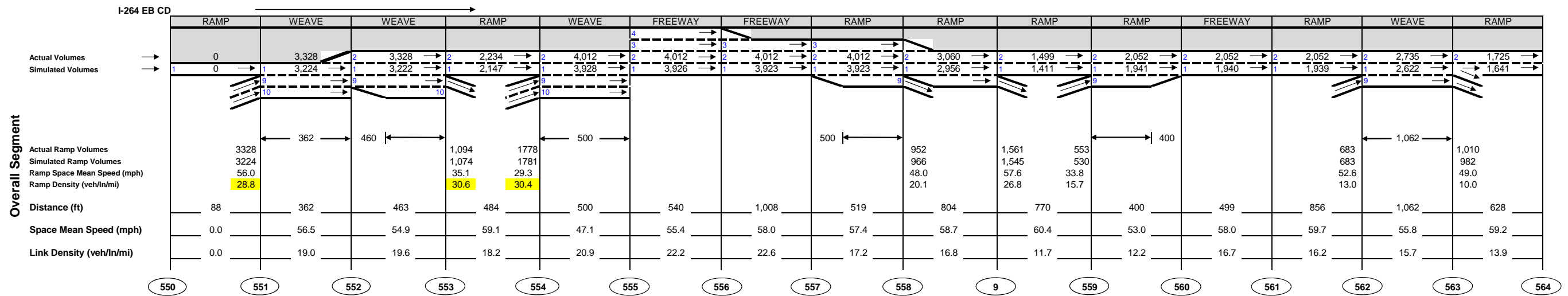


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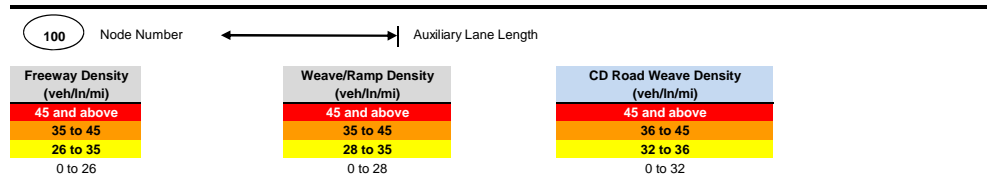


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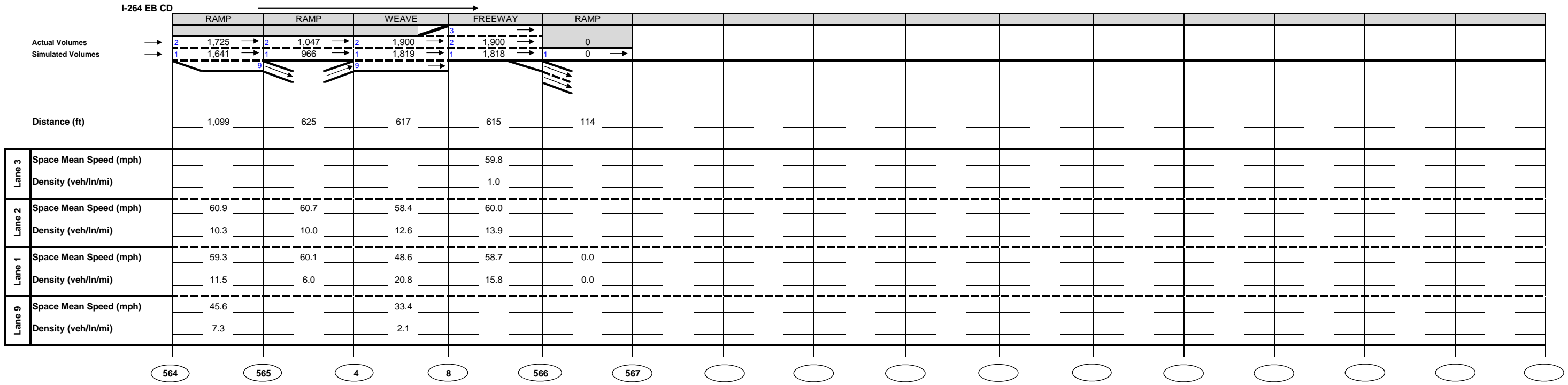
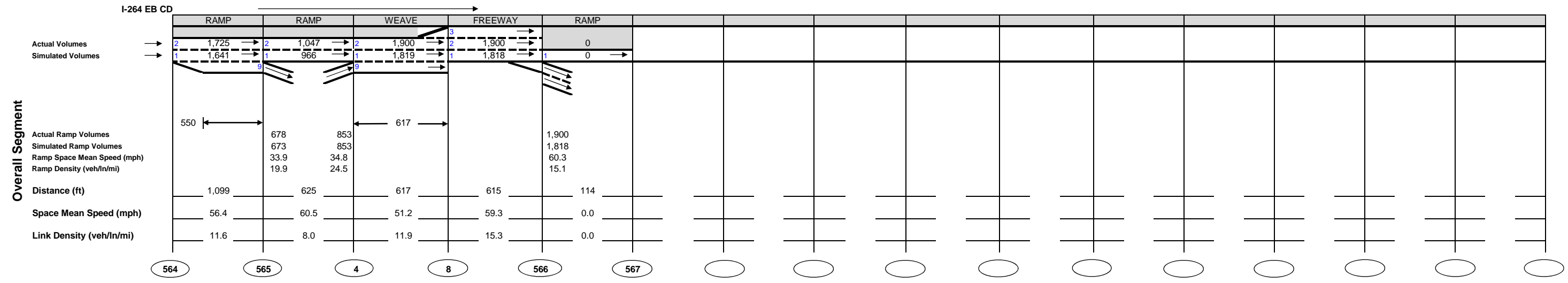
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I-264 EB ML

	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	
Actual Volumes	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	
Simulated Volumes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Actual Ramp Volumes							3,328							624	4669	
Simulated Ramp Volumes							3,224							624	4792	
Ramp Space Mean Speed (mph)							56.0							61.0	56.0	
Ramp Density (veh/ln/mi)							28.8							11.2	28.5	
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Space Mean Speed (mph)	59.4	58.1	57.3	52.1	37.0	49.6	59.6	59.6	58.0	57.9	57.4	58.1	58.1	57.9	59.0	
Link Density (veh/ln/mi)	29.4	29.6	30.0	33.2	46.6	26.3	15.1	15.1	15.5	15.5	19.0	20.6	20.7	20.7	17.9	
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

I-264 EB ML

	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	
Actual Volumes	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	
Simulated Volumes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Lane 6																
Space Mean Speed (mph)															59.3	60.7
Density (veh/ln/mi)															4.6	7.8
Lane 4																
Space Mean Speed (mph)	60.3	60.0	59.2	58.7	59.6	59.4	59.1	58.8	57.1	57.7	58.8					
Density (veh/ln/mi)	12.9	13.1	14.0	14.2	9.4	7.6	7.7	7.7	8.0	7.9	2.1					
Lane 3																
Space Mean Speed (mph)	59.1	57.5	57.0	55.4	51.5	57.3	59.0	58.7	57.1	57.4	58.2	58.3	59.2			61.0
Density (veh/ln/mi)	36.5	36.4	35.7	36.7	38.4	27.6	23.7	22.3	22.0	22.5	12.1	7.6	6.0			13.2
Lane 2																
Space Mean Speed (mph)	59.4	58.2	57.7	53.1	40.3	51.8	60.1	60.2	58.5	58.0	57.2	58.3	58.3	58.0	58.9	58.9
Density (veh/ln/mi)	35.0	35.2	35.6	39.0	55.6	26.3	18.6	18.9	22.7	28.6	27.0	26.3	28.1	29.8	24.3	24.3
Lane 1																
Space Mean Speed (mph)	59.6	58.0	56.7	46.3	25.5	38.5	60.5	60.8	60.0	61.9	57.0	57.9	57.6	57.6	57.5	57.5
Density (veh/ln/mi)	33.1	33.8	34.9	42.7	82.9	31.8	10.2	11.4	9.3	3.1	21.4	28.0	27.8	27.8	26.3	26.3
Lane 9																
Space Mean Speed (mph)							48.5									
Density (veh/ln/mi)							34.3									
Lane 10																
Space Mean Speed (mph)							54.5									
Density (veh/ln/mi)							9.8									
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

NOTE: numbers in chart are provided for illustrative purposes only

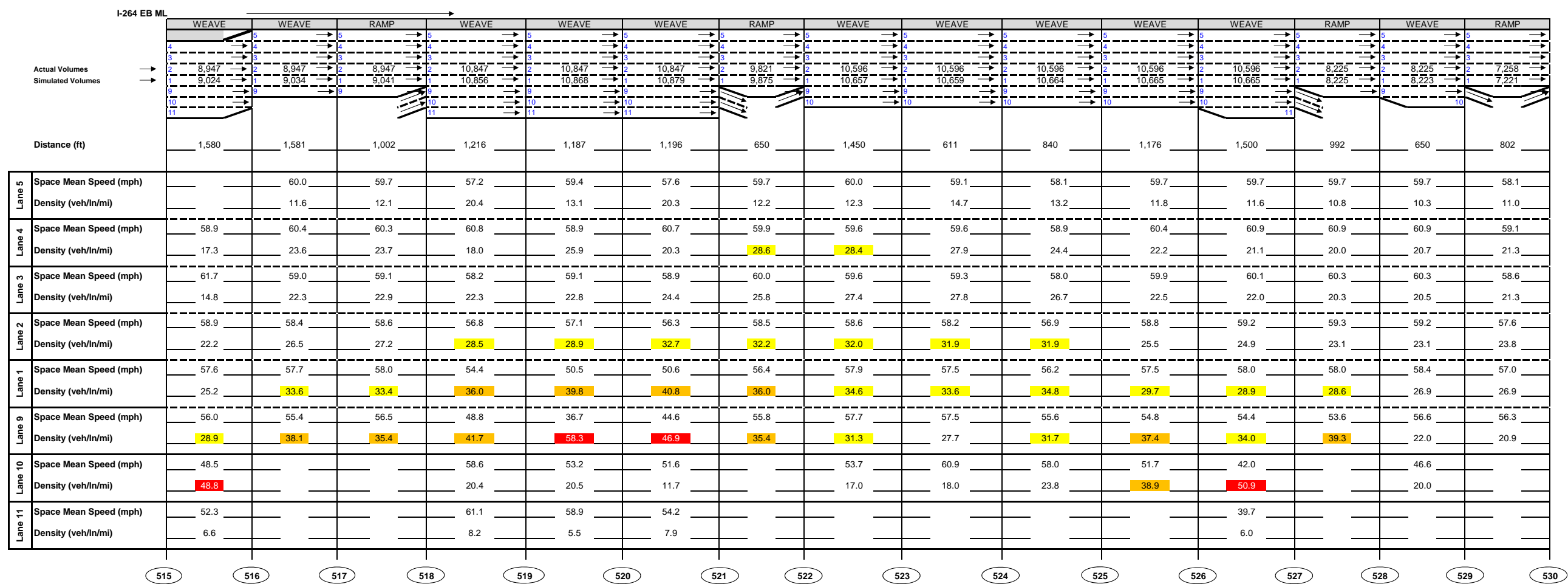
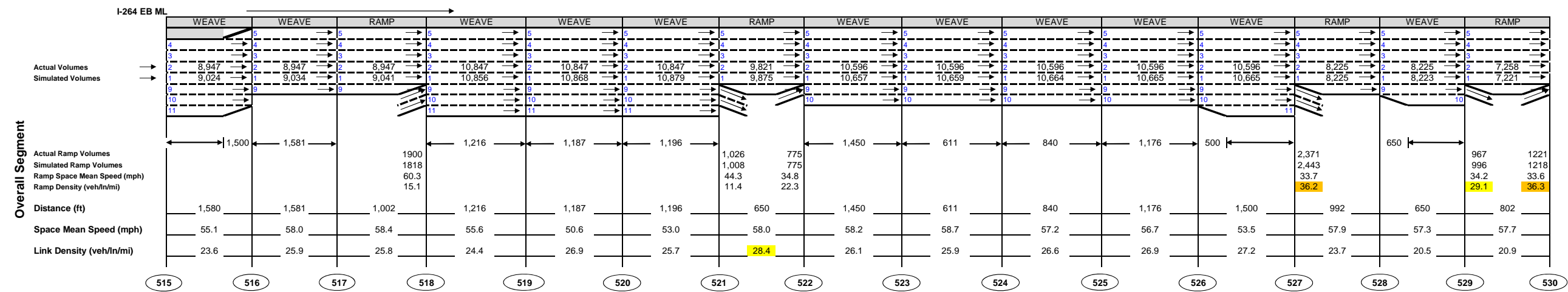
LEGEND

100 Node Number ← Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

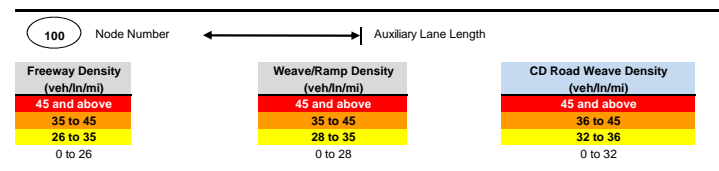
This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



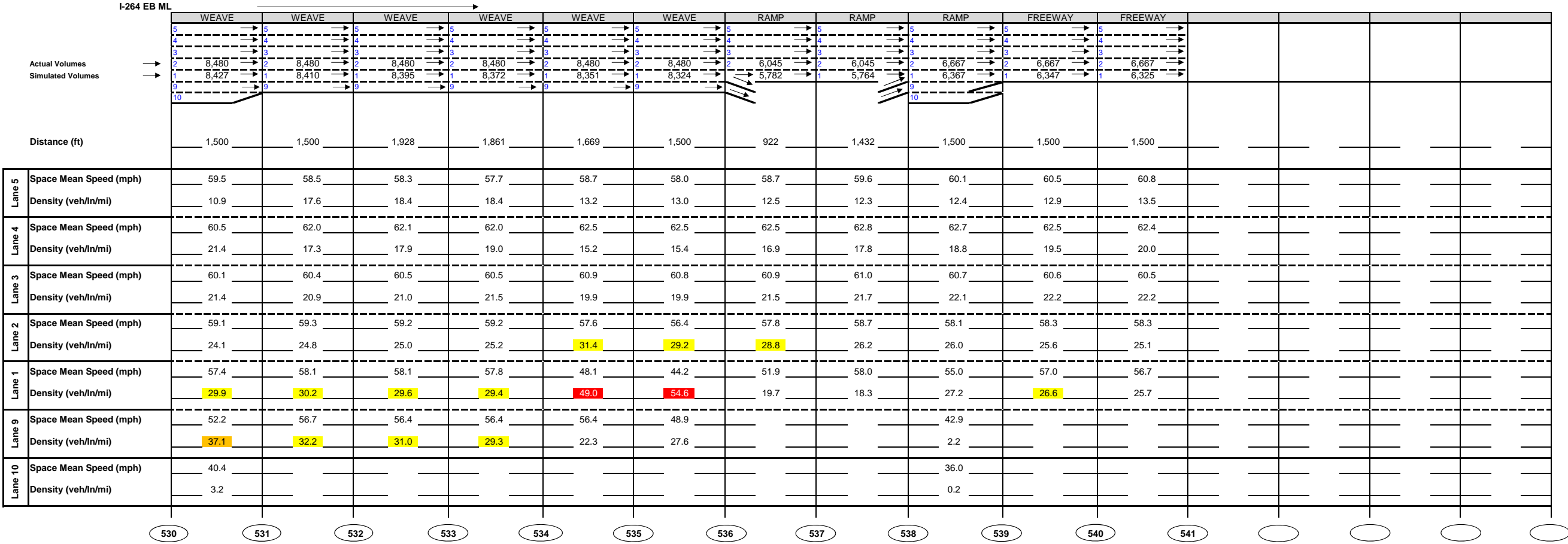
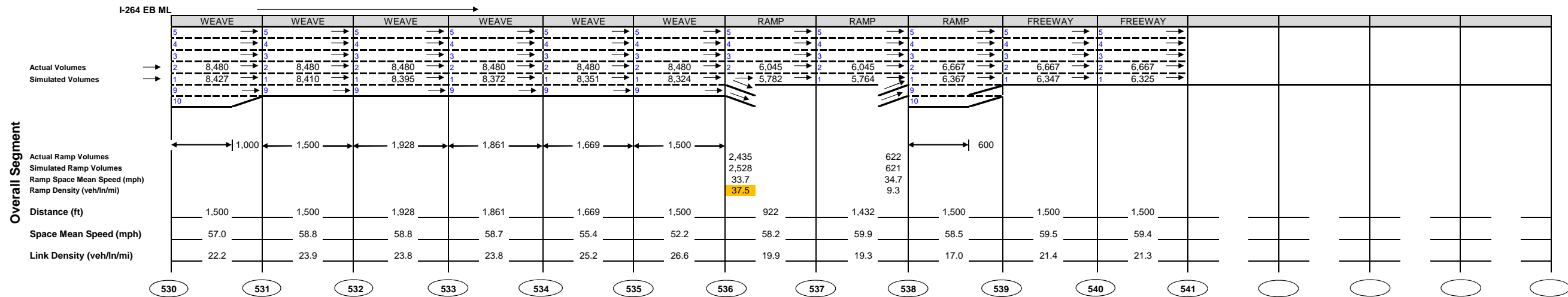


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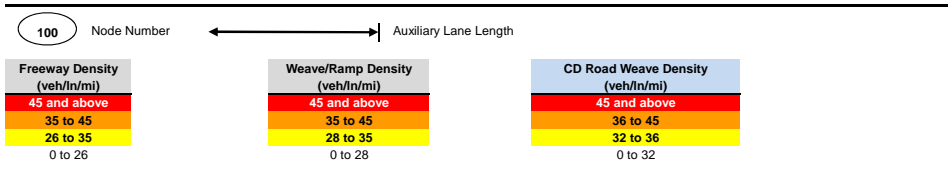


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This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,142	6,142	6,142	6,142	6,142	6,142	6,142	3,743	5,720	5,167	7,973	7,973	7,973	7,973
Simulated Volumes	6,144	6,142	6,152	6,157	6,169	6,186	3,751	5,581	5,051	7,778	7,772	7,769	7,767	
Actual Ramp Volumes						1,500	2,399	1,330	553	2,806				
Simulated Ramp Volumes							2,445	1,824	531	2,732				
Ramp Space Mean Speed (mph)							48.3	32.1	34.1	47.0				
Ramp Density (veh/ln/mi)							16.9	56.8	15.6	29.1				
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)	60.6	59.9	59.6	59.5	57.2	52.9	59.4	53.1	58.6	58.0	58.8	58.7	58.6	
Link Density (veh/ln/mi)	20.5	20.5	20.7	20.7	21.6	23.4	21.0	26.2	28.7	26.8	26.4	26.5	26.5	

Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,142	6,142	6,142	6,142	6,142	6,142	6,142	3,743	5,720	5,167	7,973	7,973	7,973	7,973
Simulated Volumes	6,144	6,142	6,152	6,157	6,169	6,186	3,751	5,581	5,051	7,778	7,772	7,769	7,767	
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 5	Space Mean Speed (mph)	60.6	59.6	59.1	59.1	60.1					59.8	59.6	59.4	
Lane 5	Density (veh/ln/mi)	20.6	20.4	20.2	19.2	14.0					25.6	26.9	27.7	
Lane 4	Space Mean Speed (mph)	60.7	60.0	59.9	59.9	59.4					58.9	58.7	58.7	
Lane 4	Density (veh/ln/mi)	20.5	20.8	21.0	21.3	22.3					29.1	28.5	28.3	
Lane 3	Space Mean Speed (mph)	60.7	60.0	59.8	59.4	52.6	58.8	60.8	60.2	60.3	60.2	57.1	57.1	57.2
Lane 3	Density (veh/ln/mi)	20.4	20.4	20.7	22.7	41.2	16.8	17.7	19.3	21.9	23.5	27.4	25.7	24.9
Lane 2	Space Mean Speed (mph)	60.7	60.0	59.8	59.9	60.0	56.4	60.1	57.7	59.3	59.2	60.5	60.1	59.8
Lane 2	Density (veh/ln/mi)	20.7	20.8	21.1	21.5	20.2	25.7	24.0	29.1	30.1	29.8	26.4	27.7	27.9
Lane 1	Space Mean Speed (mph)	60.6	59.6	59.1	59.1	60.9	46.5	57.6	49.4	56.9	57.0	57.7	57.7	57.7
Lane 1	Density (veh/ln/mi)	20.4	20.3	20.1	18.7	10.1	43.5	21.3	43.3	34.2	31.1	23.8	23.6	23.8
Lane 9	Space Mean Speed (mph)						55.0		45.1		58.1			
Lane 9	Density (veh/ln/mi)						19.5		13.4		24.5			
Lane 10	Space Mean Speed (mph)						56.6				55.6			
Lane 10	Density (veh/ln/mi)						11.4				25.2			

NOTE: numbers in chart are provided for illustrative purposes only

LEGEND

100 Node Number ← Auxiliary Lane Length

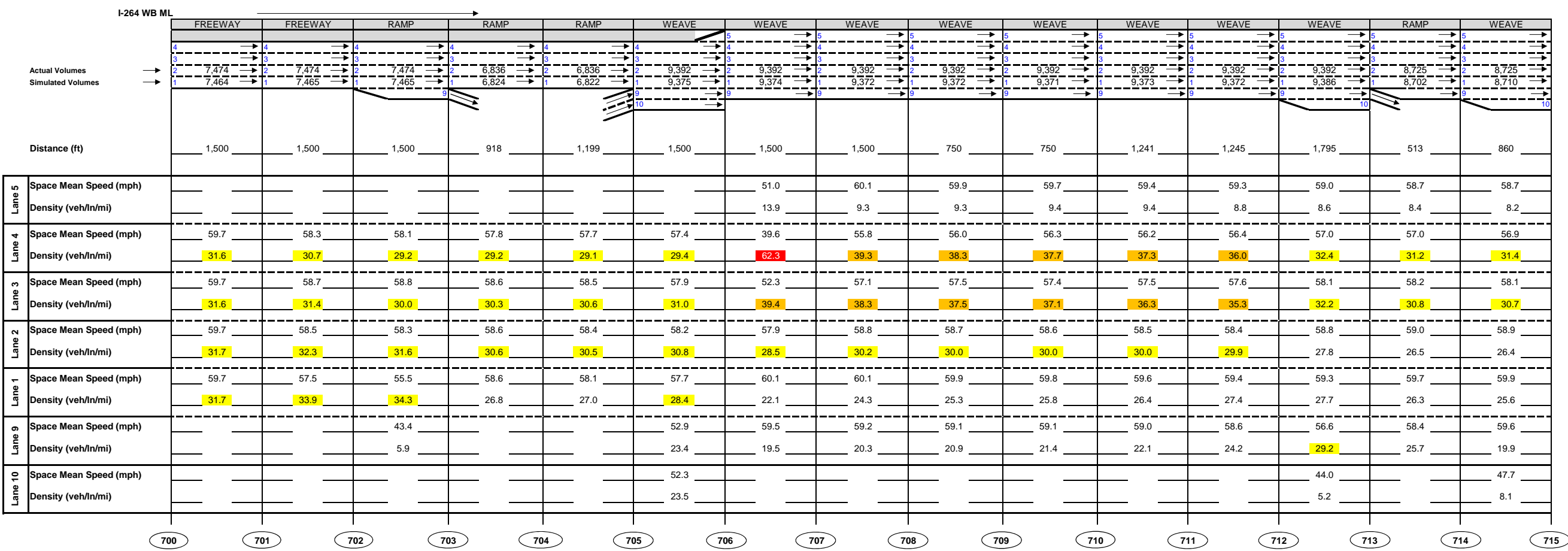
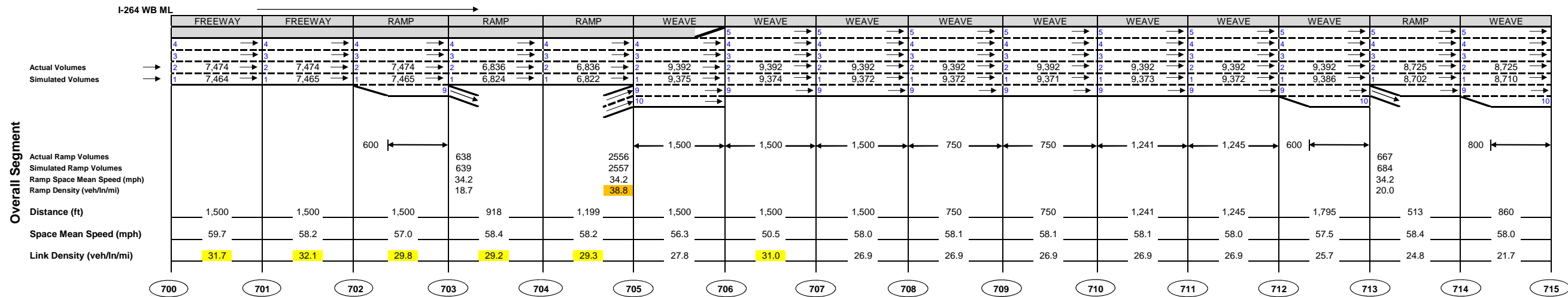
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



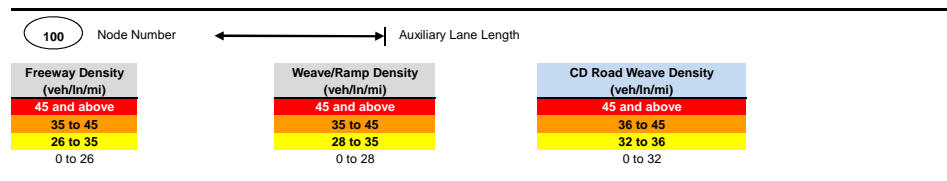
Military Highway Interchange Modified Partial Cloverleaf Alternative - Link Descriptions (PM Peak Hour)

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	30.0	D	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	20.3	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	26.3	C	NB/SB Newtown Rd & EB I-264 CD (Diverge)	564,565	11.6	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	19.6	B	NB/SB Newtown Rd to EB I-264 CD (Merge)	4,8	11.9	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	20.9	B	EB I-264 CD to EB I-264 ML (Merge)	518,519	24.4	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	22.6	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.7	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.1	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.9	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.6	A	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.8	C
EB I-64 to WB I-264 CD (Merge)	759,760	10.3	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	20.6	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	14.3	B	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.5	B
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	6.8	A	Witchduck Road Interchange			
SB Military Hwy to WB I-264 CD (Merge)	764,765	10.3	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	519,520	26.9	D
WB I-264 CD to WB I-264 ML (Merge)	733,734	16.0	B	EB I-264 to SB Witchduck Rd (Diverge)	520,521	25.7	C
WB I-264 West of Military Hwy (Freeway)	734,735	17.0	B	NB/SB Witchduck Rd to EB I-264 (Merge)	522,523	26.1	C
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)			
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.1	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.7	C
EB I-264 CD to EB I-64 (Diverge)	557,558	17.2	B	WB I-264 to Witchduck Rd (Diverge)	719,720	20.0	C
EB I-64 to EB I-264 CD (Merge)	559,560	12.2	B	NB/SB Witchduck Rd to WB I-264 (Merge)	722,723	26.3	C
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	562,563	15.7	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.9	C
EB/WB I-64 to EB I-264 ML (Merge)	515,516	23.6	C	Independence Boulevard Interchange			
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.5	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.9	D
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	15.2	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	27.2	C
WB I-264 ML to EB I-64 (Diverge)	728,729	16.1	B	EB I-264 to NB Independence Blvd (Diverge)	528,529	20.5	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.3	B	NB/SB Independence Blvd to EB I-264 (Merge)	530,531	22.2	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	22.7	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.8	C
EB I-64 to WB I-264 CD (Merge)	759,760	10.3	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.9	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.6	A	WB I-264 to NB Independence Blvd (Diverge)	712,713	19.9	B
EB I-64 North of I-264 (Freeway)	301,302	20.5	C	WB I-264 to SB Independence (Diverge)	714,715	16.5	B
EB I-64 to EB/WB I-264 (Diverge)	305,306	23.4	C	NB/SB Independence Blvd to WB I-264 (Merge)	716,717	19.8	B
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	26.2	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.7	C
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	26.8	C	Rosemont Road Interchange			
EB I-64 South of I-264 (Freeway)	312,313	26.5	D	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.8	C
WB I-64 South of I-264 (Freeway)	101,102	26.7	D	EB I-264 to Rosemont Rd (Diverge)	535,536	26.6	C
WB I-64 to I-64 WB HOV (Diverge)	102,103	26.0	C	NB/SB Rosemont Rd to EB I-264 (Merge)	538,539	17.0	B
WB I-64 to I-264 EB (Diverge)	104,105	28.2	D	EB I-264 East of Rosemont Rd (Freeway)	540,541	21.3	C
WB I-64 to WB I-264 CD (Diverge)	106,107	20.9	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	26.6	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	25.3	C	WB I-264 to Rosemont Rd (Diverge)	702,703	24.9	C
WB I-64 North of I-264 (Freeway)	110,111	26.2	D	NB/SB Rosemont Rd to WB I-264 (Merge)	705,706	21.6	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.9	C



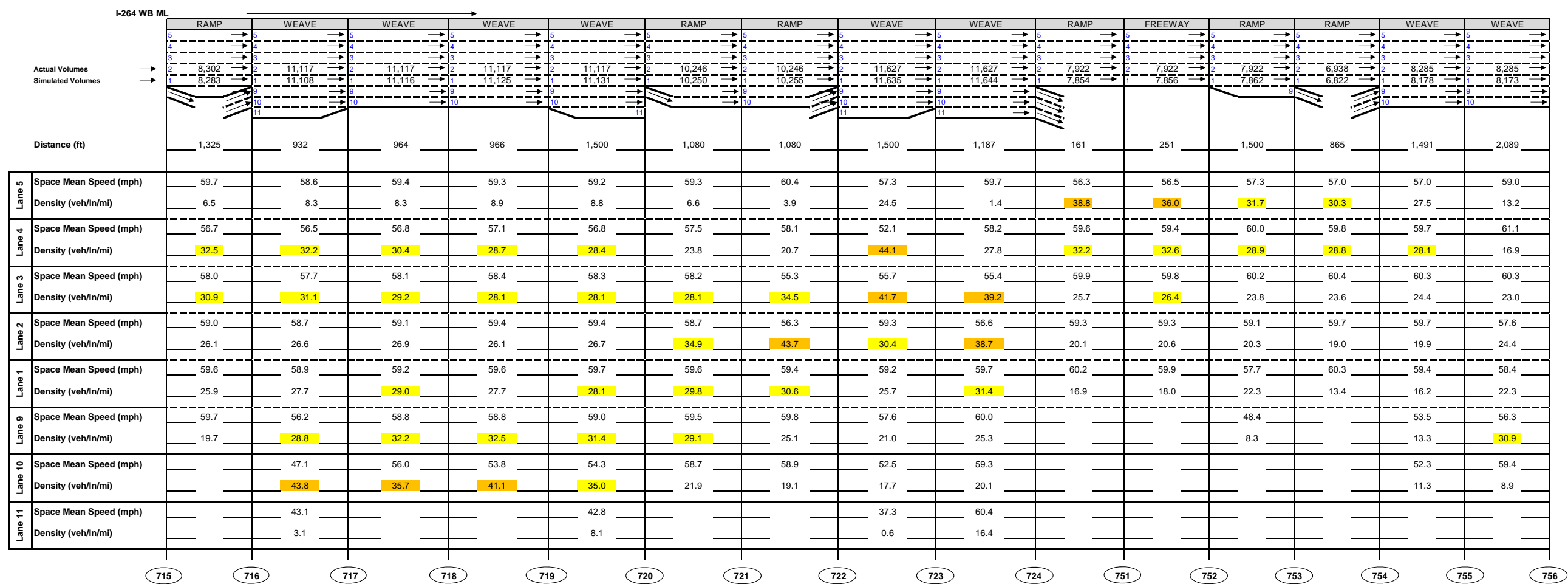
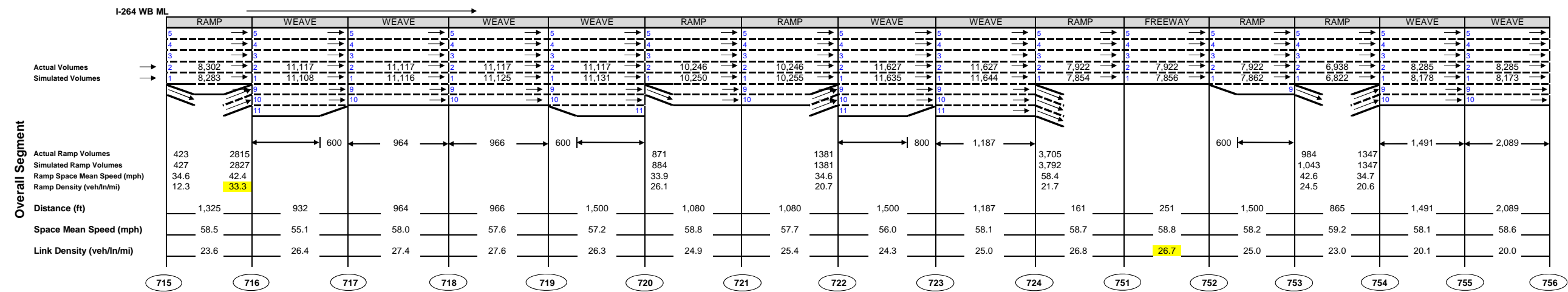
NOTE: numbers in chart are provided for illustrative purposes only

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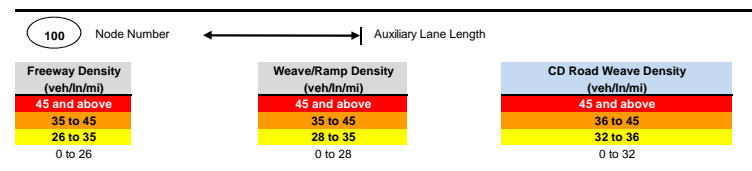
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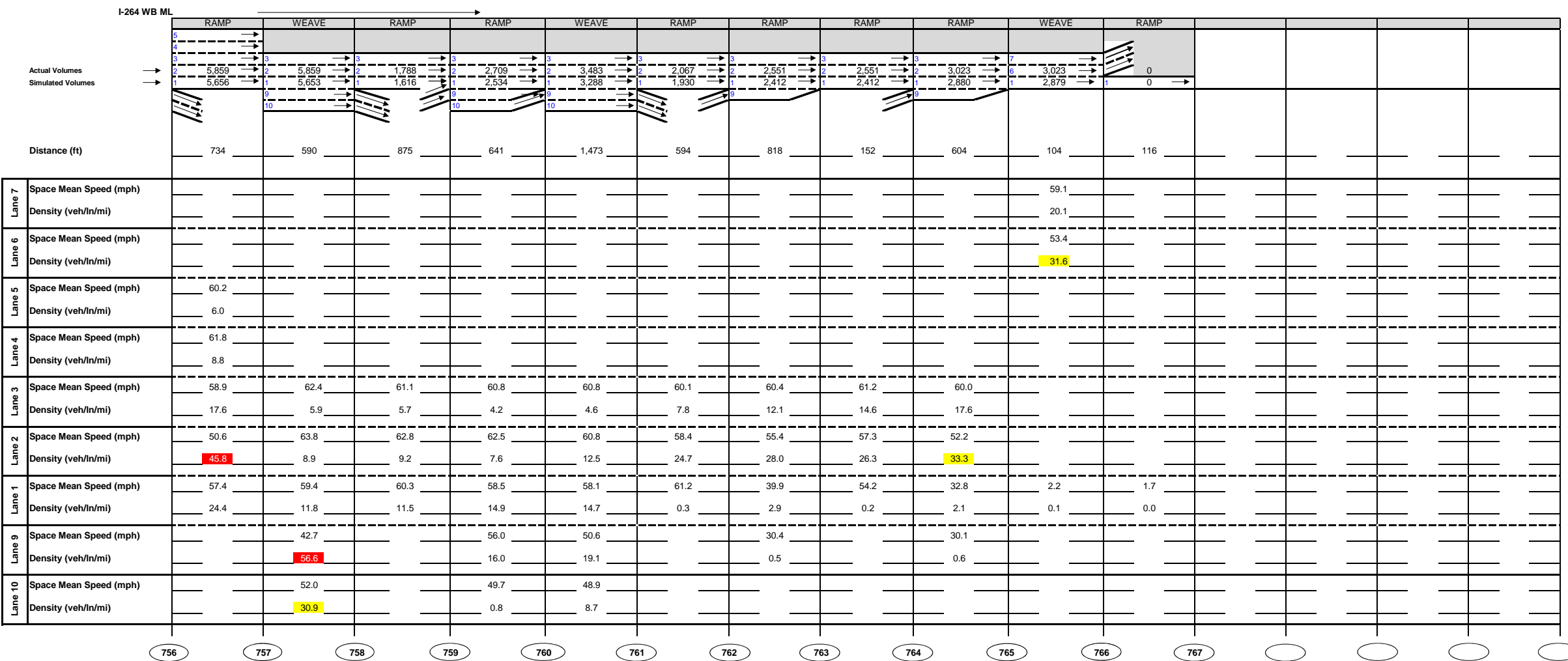
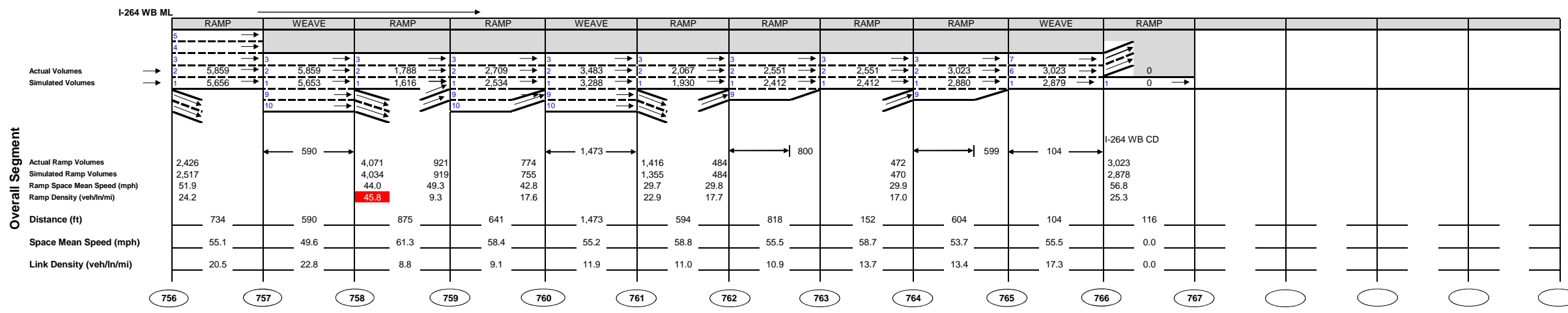
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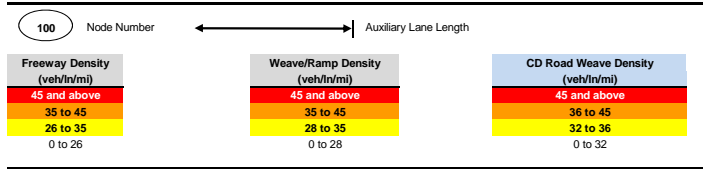
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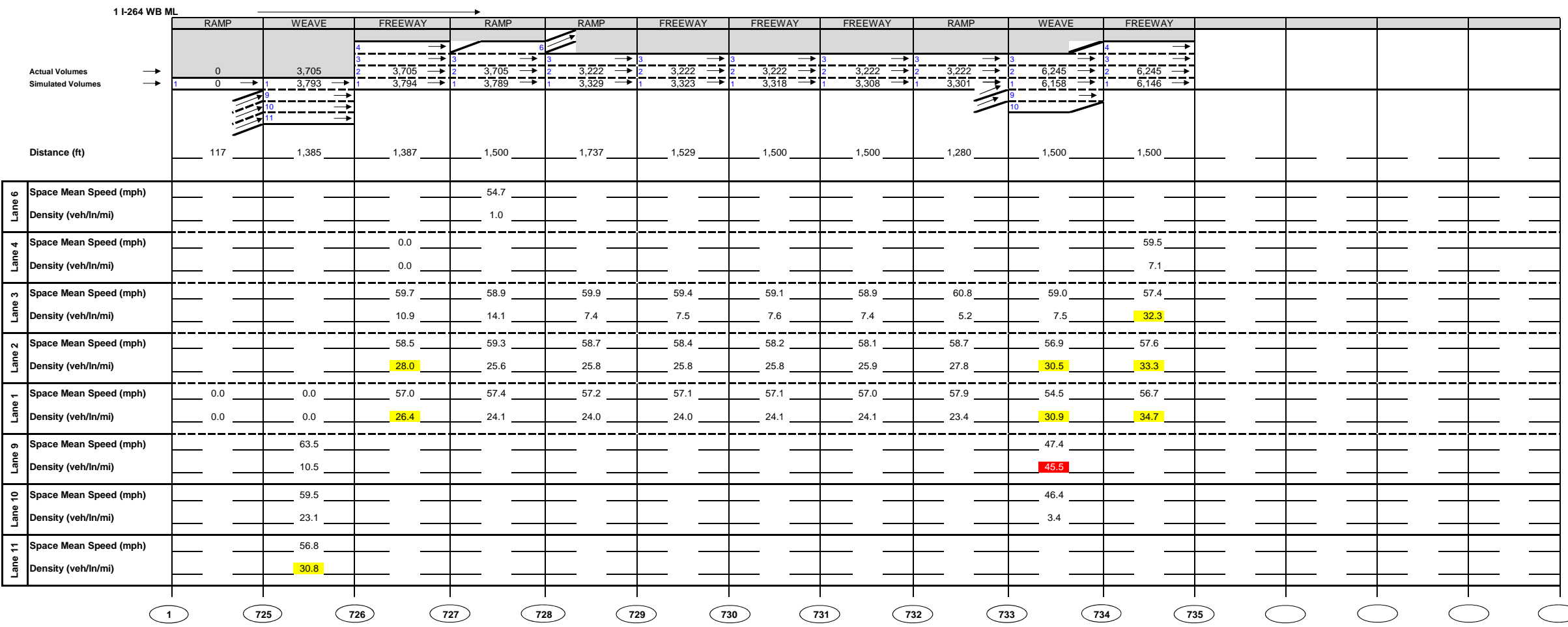
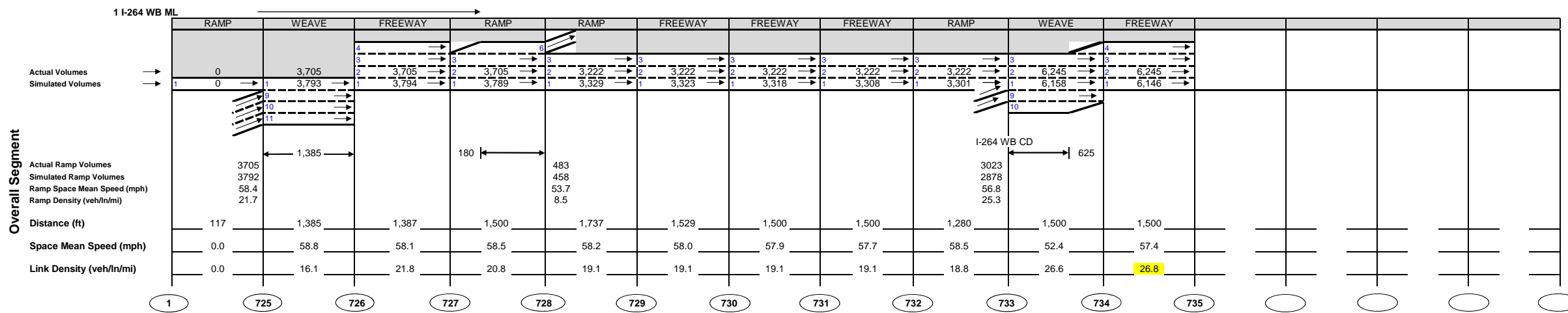


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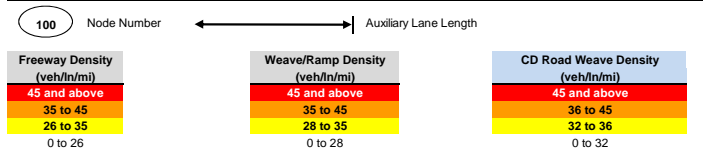


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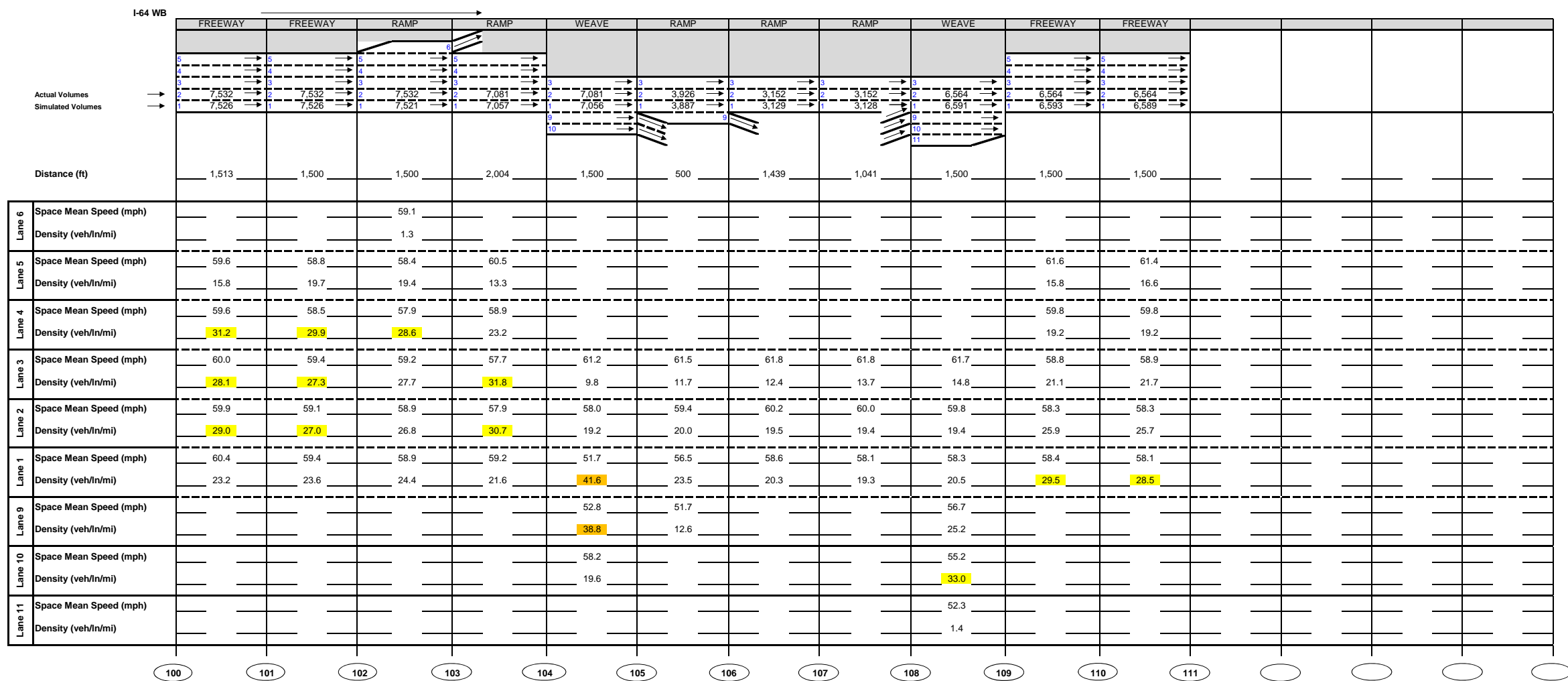
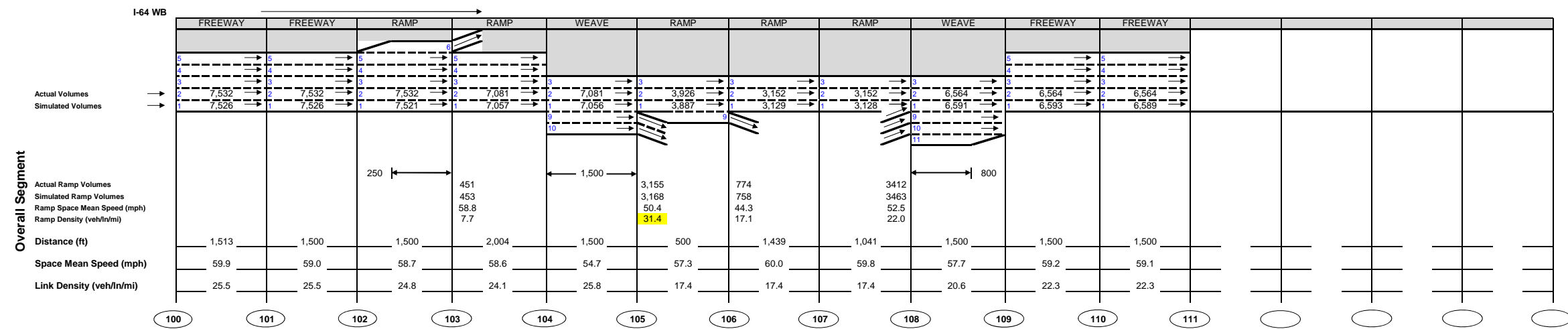


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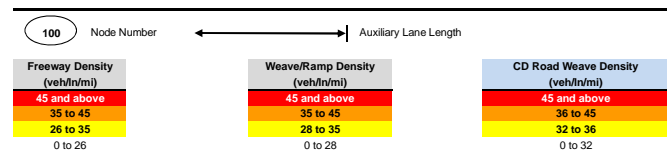


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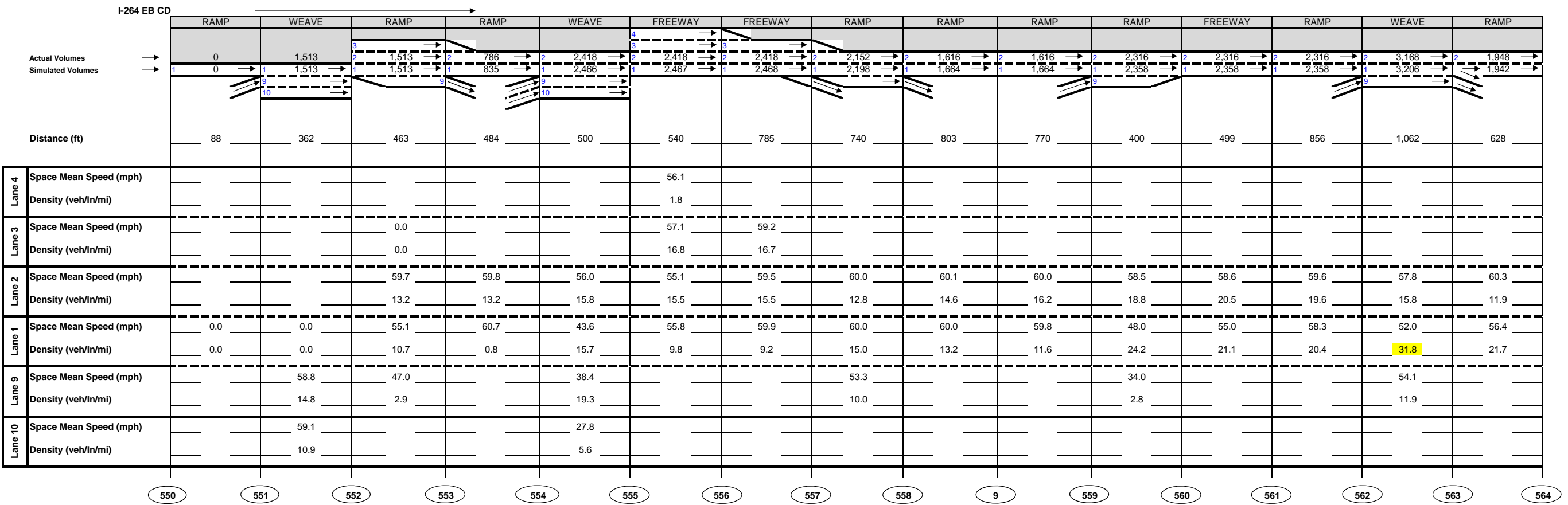
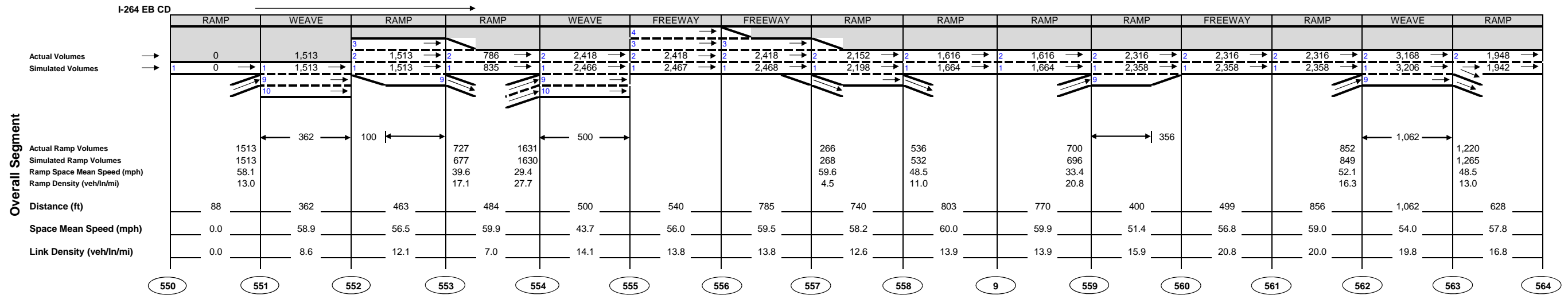


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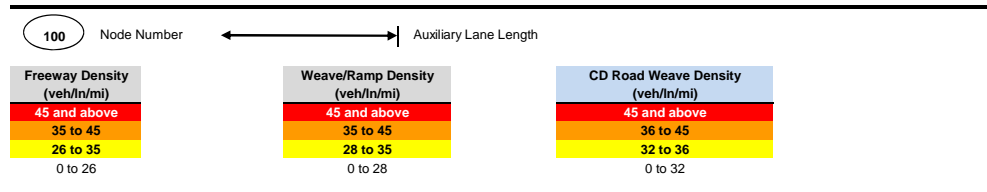


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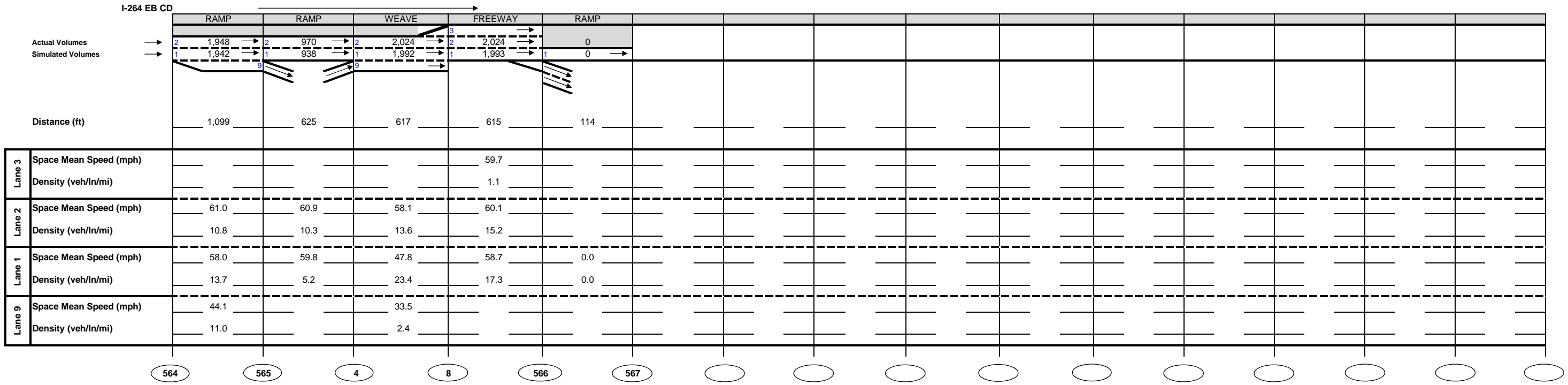
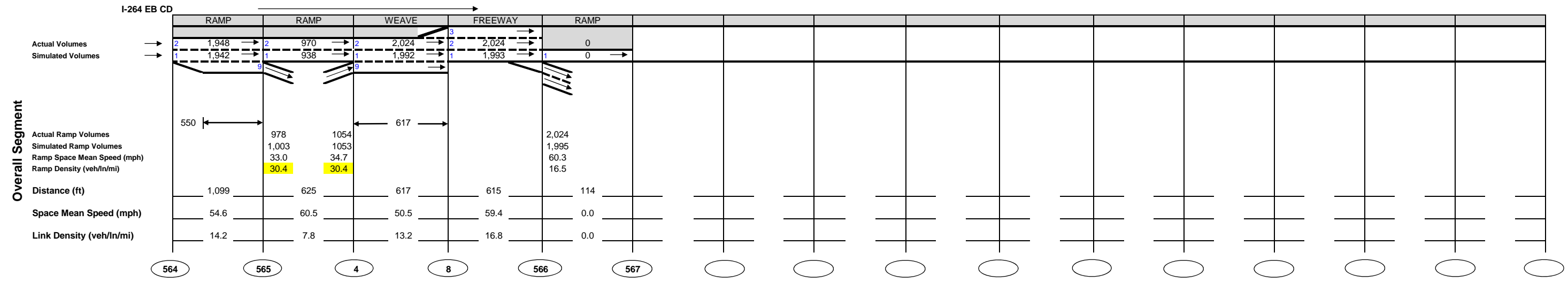
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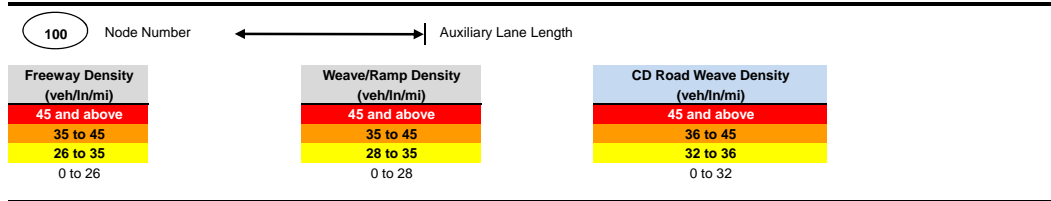
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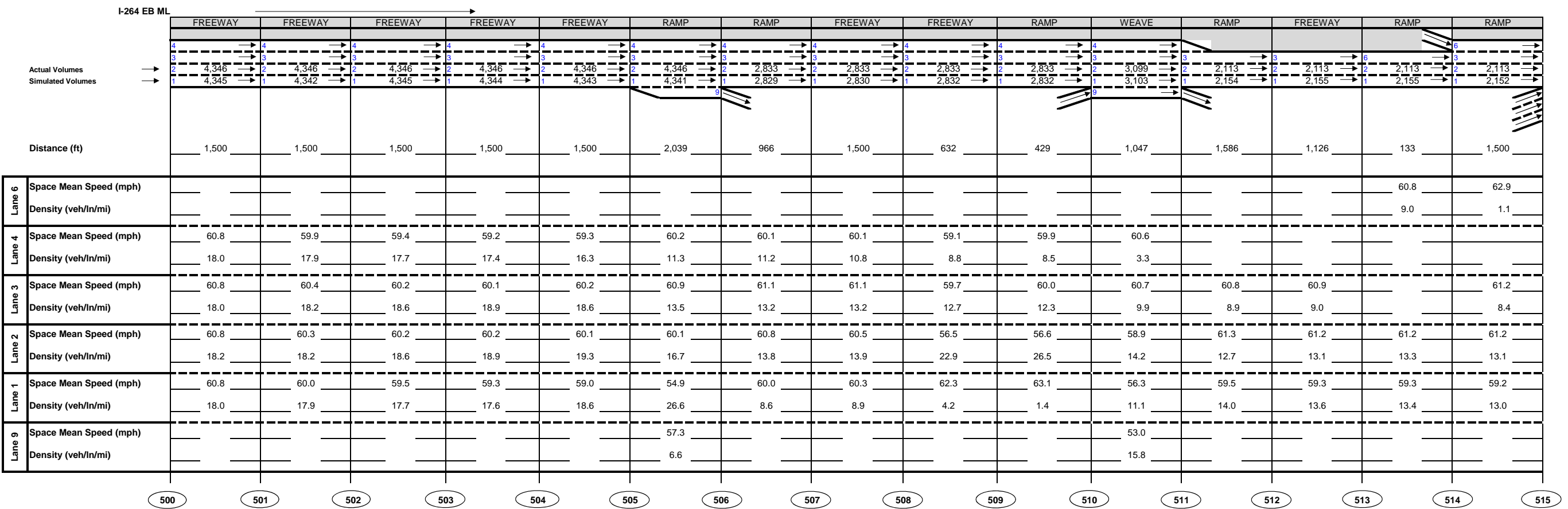
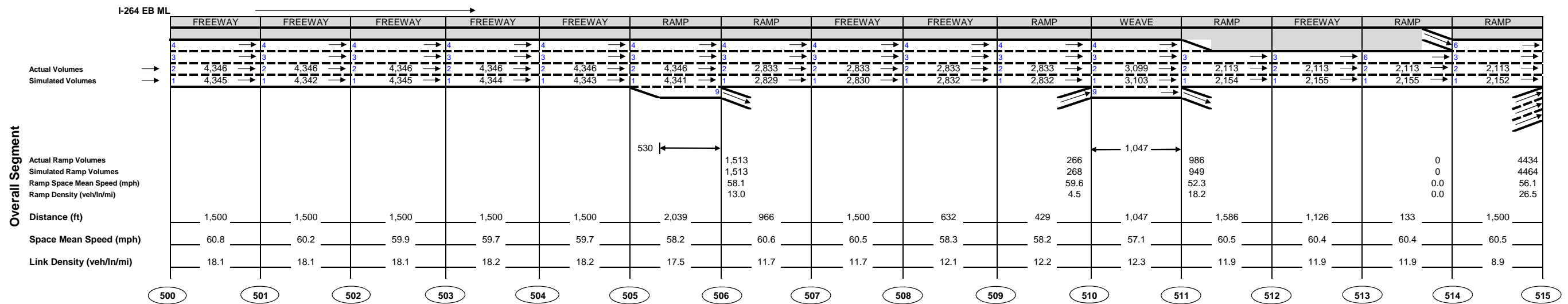
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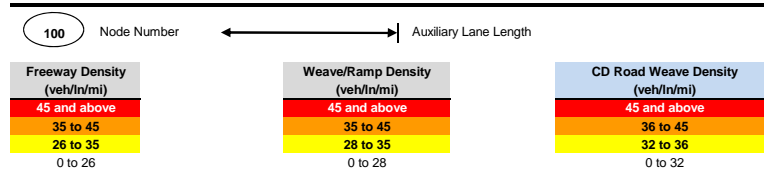
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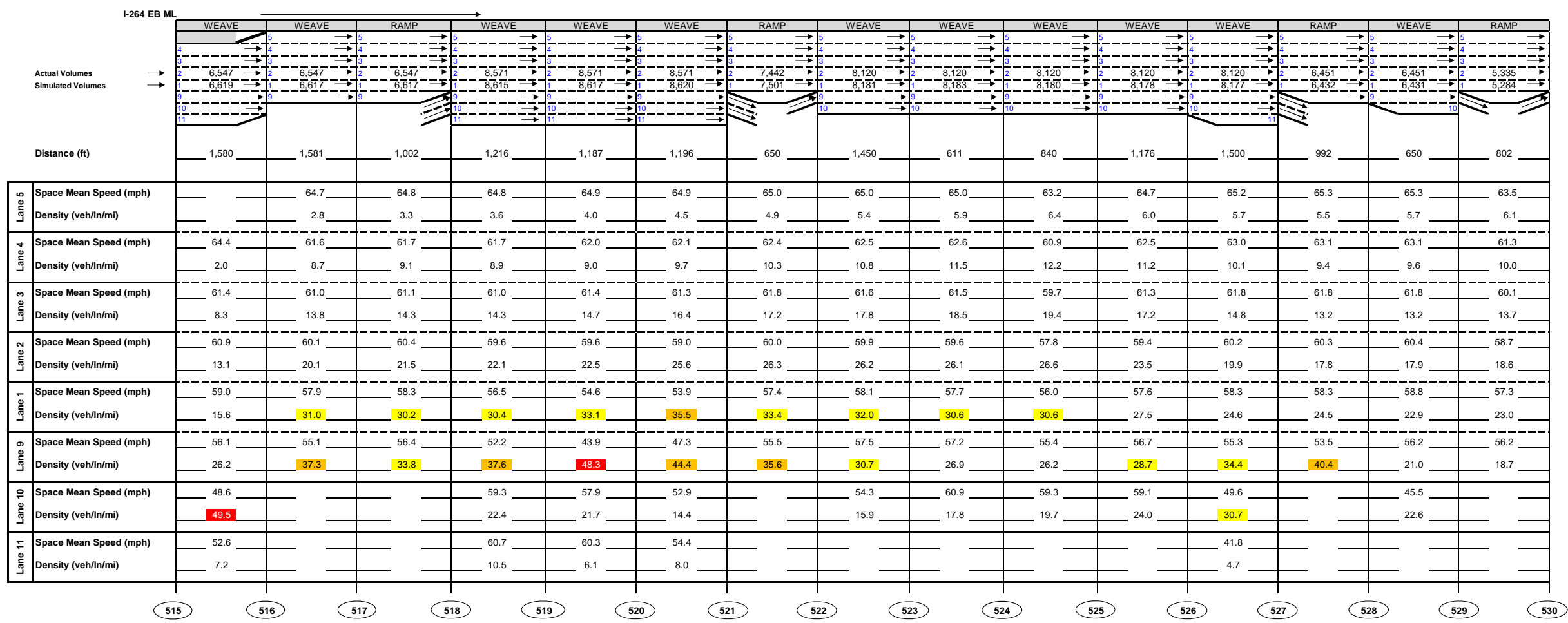
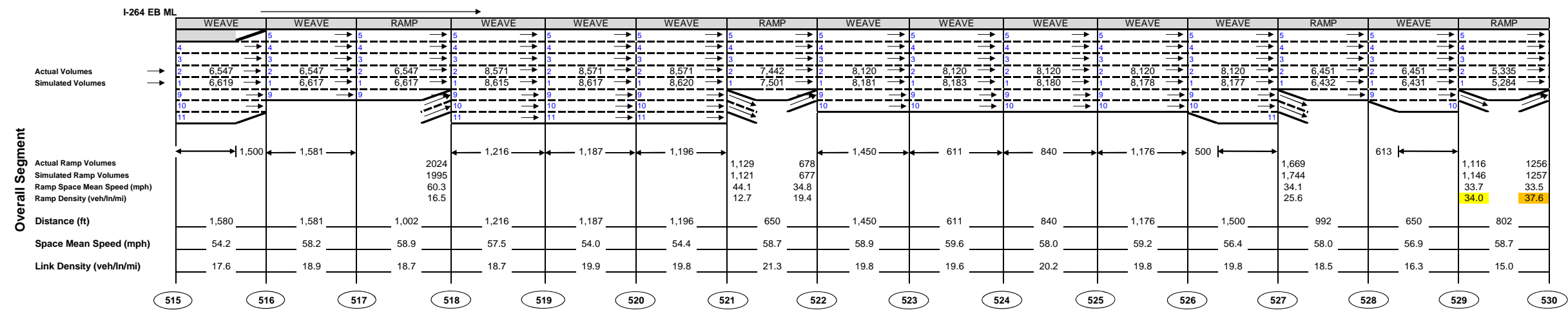


NOTE: numbers in chart are provided for illustrative purposes only

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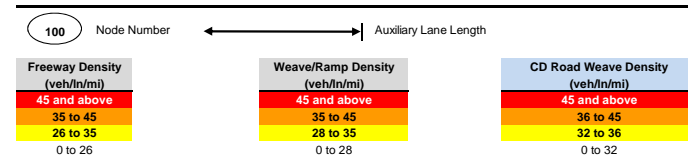


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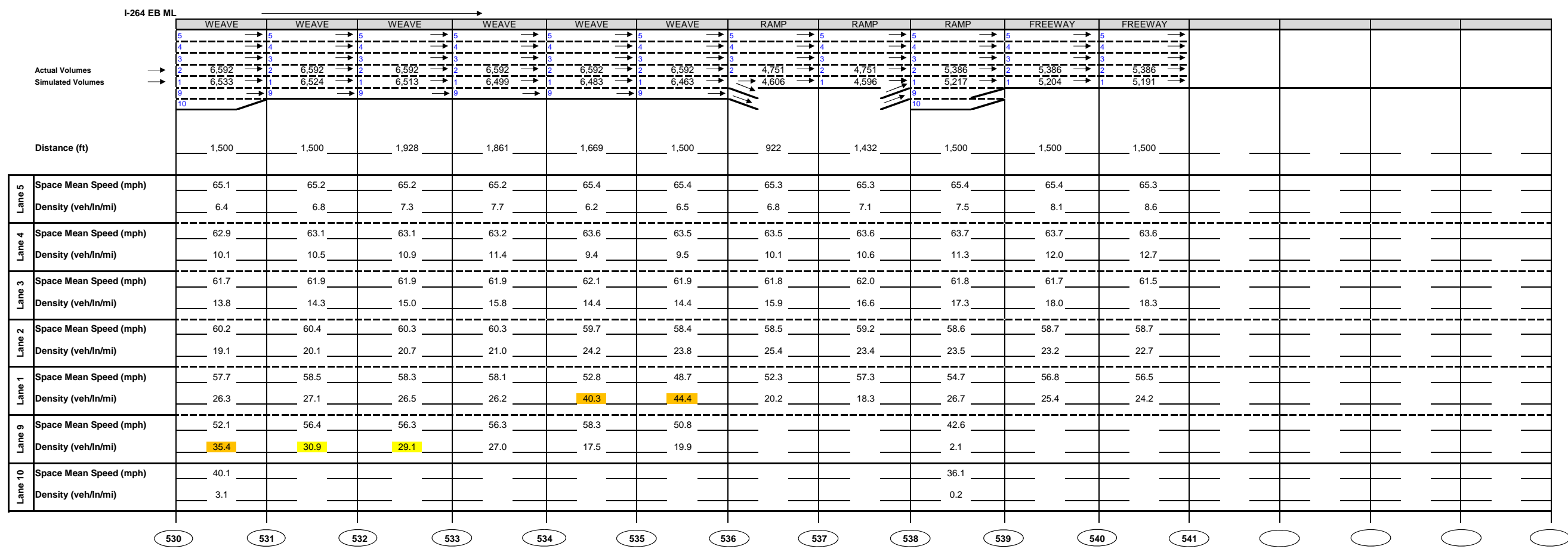
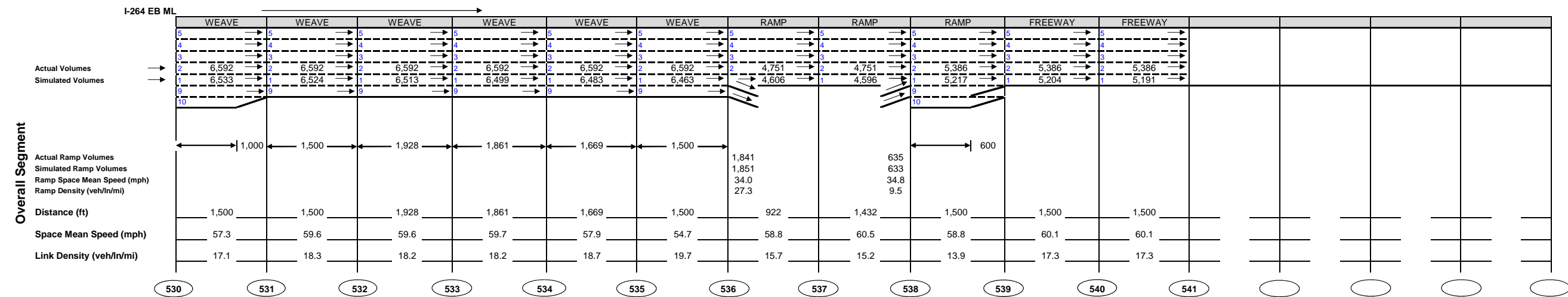


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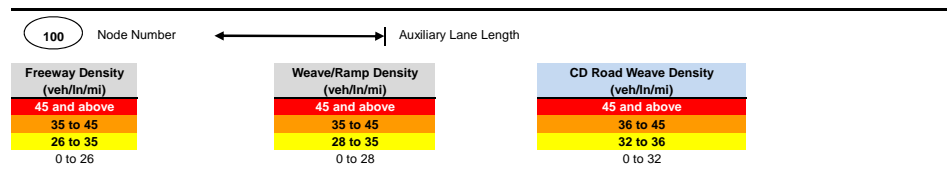


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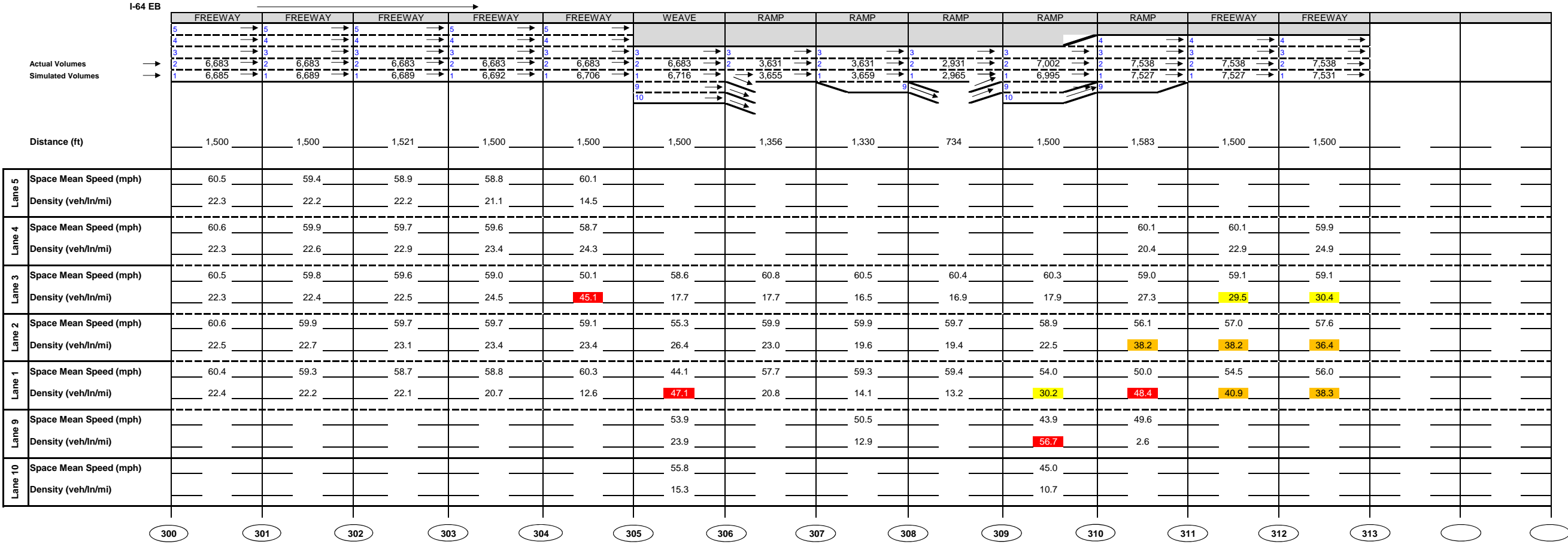
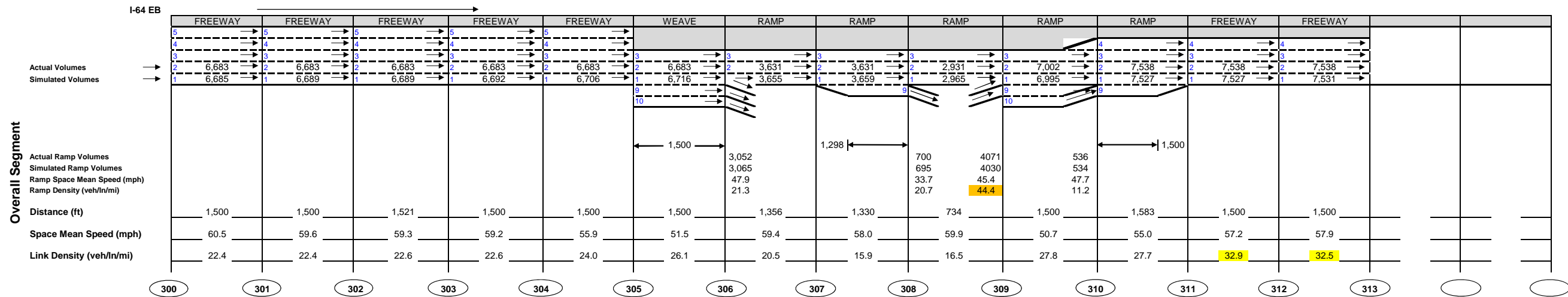
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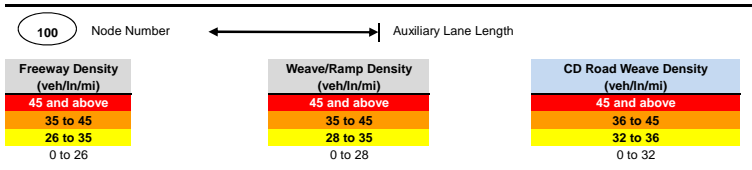
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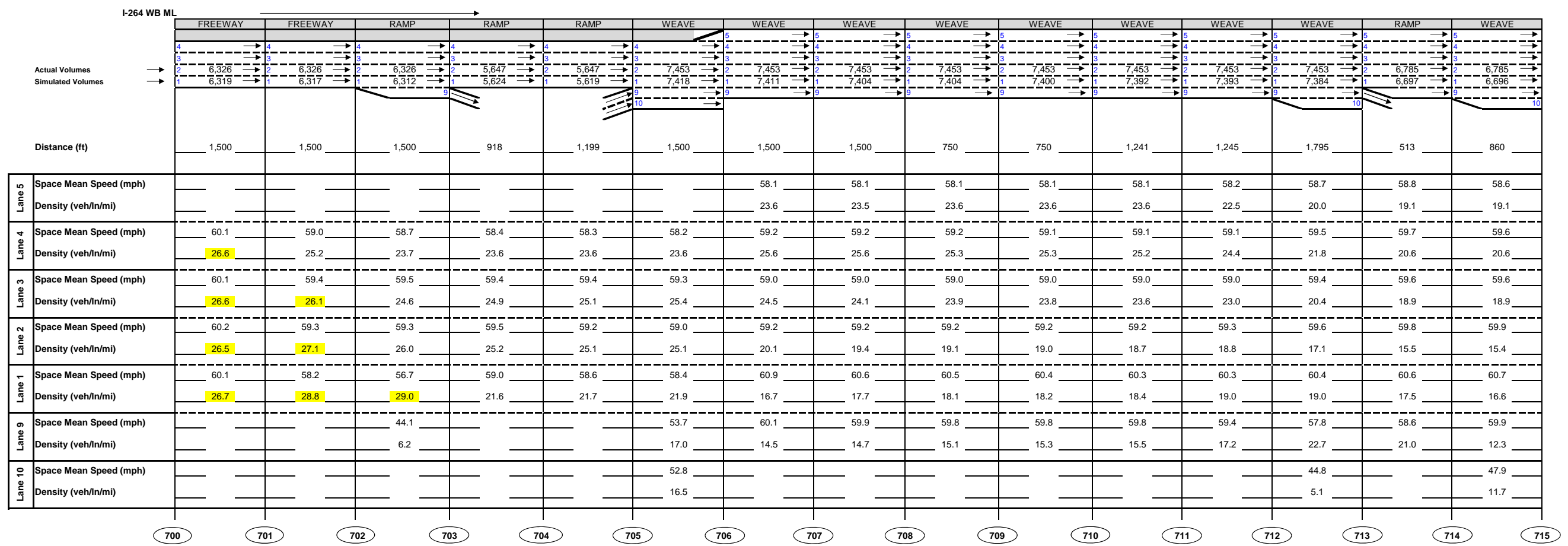
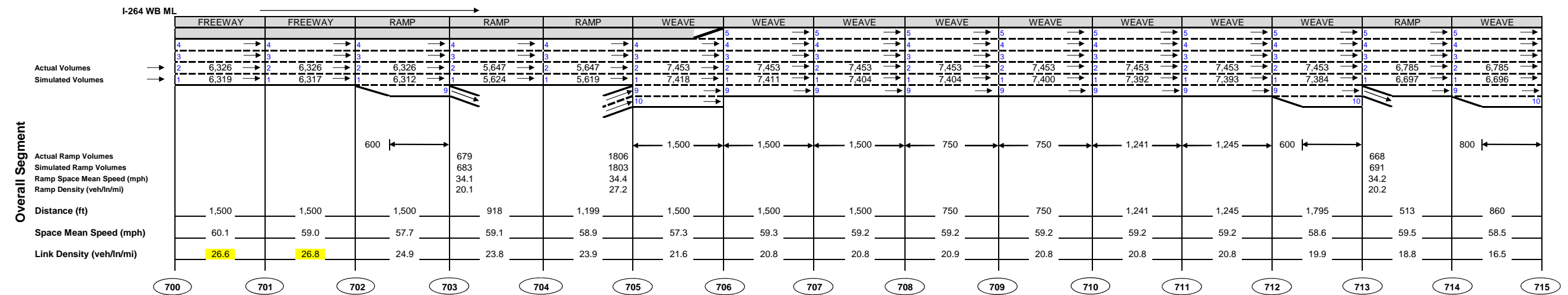


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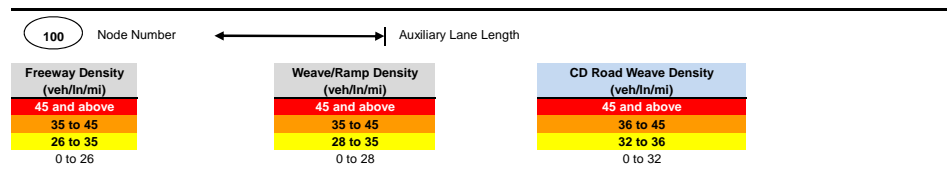
I-64/I-264 Interchange Directional Build Alternative - Link Descriptions (AM Peak Hour)

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	18.1	C	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.9	A
EB I-264 ML to EB I-264 CD (Diverge)	505,506	17.5	B	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	20.0	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	12.1	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	14.2	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	14.1	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	18.7	B
NB Military Hwy to EB I-264 CD (Merge)	556,557	13.8	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.8	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	11.7	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.0	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	19.1	C	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.0	B
EB I-64 to WB I-264 CD (Merge)	759,760	9.1	A	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.0	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	11.9	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	20.1	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	10.9	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	21.8	C
SB Military Hwy to WB I-264 CD (Merge)	764,765	13.4	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	26.6	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.8	C
WB I-264 West of Military Hwy (Freeway)	734,735	26.8	D	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	19.8	B
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.8	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	11.7	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.6	D
EB I-264 ML to WB I-64 (Diverge)	510,511	12.3	B	WB I-264 to Witchduck Rd (Diverge)	719,720	26.3	C
EB I-264 CD to EB I-64 (Diverge)	557,558	12.6	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.0	C
EB I-64 to EB I-264 CD (Merge)	559,560	15.9	B	Independence Boulevard Interchange			
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	562,563	19.8	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.8	C
EB/WB I-64 to I-264 EB ML (Merge)	515,516	17.6	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	19.8	B
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	21.8	C	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	16.3	B
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	20.8	C	NB Independence Blvd to EB I-264 (Merge)	530,531	17.1	B
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.0	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.2	C
WB I-264 CD to I-64 EB (Diverge)	757,758	22.8	C	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.9	D
EB I-64 to WB I-264 CD (Merge)	759,760	9.1	A	WB I-264 to NB Independence Blvd (Diverge)	712,713	25.7	C
WB I-64 to I-264 WB CD (Weave)	760,761	11.9	A	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	21.7	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	19.1	C	SB Independence Blvd to WB I-264 (Merge)	716,717	26.4	C
EB I-64 North of I-264 (Freeway)	301,302	22.4	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.6	D
EB I-64 to I-264 EB/WB	305,306	26.1	C	Rosemont Road Interchange			
EB I-64 to I-264 EB CD (Diverge)	307,308	15.9	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.2	C
WB I-264 CD to EB I-64 (Merge)	309,310	27.8	C	EB I-264 to Rosemont Rd (Diverge)	535,536	19.7	B
EB I-264 CD to EB I-64 (Merge)	310,311	27.7	C	SB Rosemont Rd to EB I-264 (Merge)	537,538	15.2	B
EB I-64 South of I-264 (Freeway)	312,313	32.5	D	NB Rosemont Rd to EB I-264 (Merge)	538,539	13.9	B
WB I-64 South of I-264 (Freeway)	101,102	25.5	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	17.3	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.8	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	31.7	D
WB I-64 to I-264 EB (Diverge)	104,105	25.8	C	WB I-264 to Rosemont Rd (Diverge)	702,703	29.8	D
WB I-64 to WB I-264 CD (Diverge)	105,106	17.4	B	NB Rosemont Rd to WB I-264 (Merge)	704,705	29.3	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	20.6	C	SB Rosemont Rd to WB I-264 (Merge)	705,706	27.8	C
WB I-64 North of I-264 (Freeway)	110,111	22.3	C	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.9	D



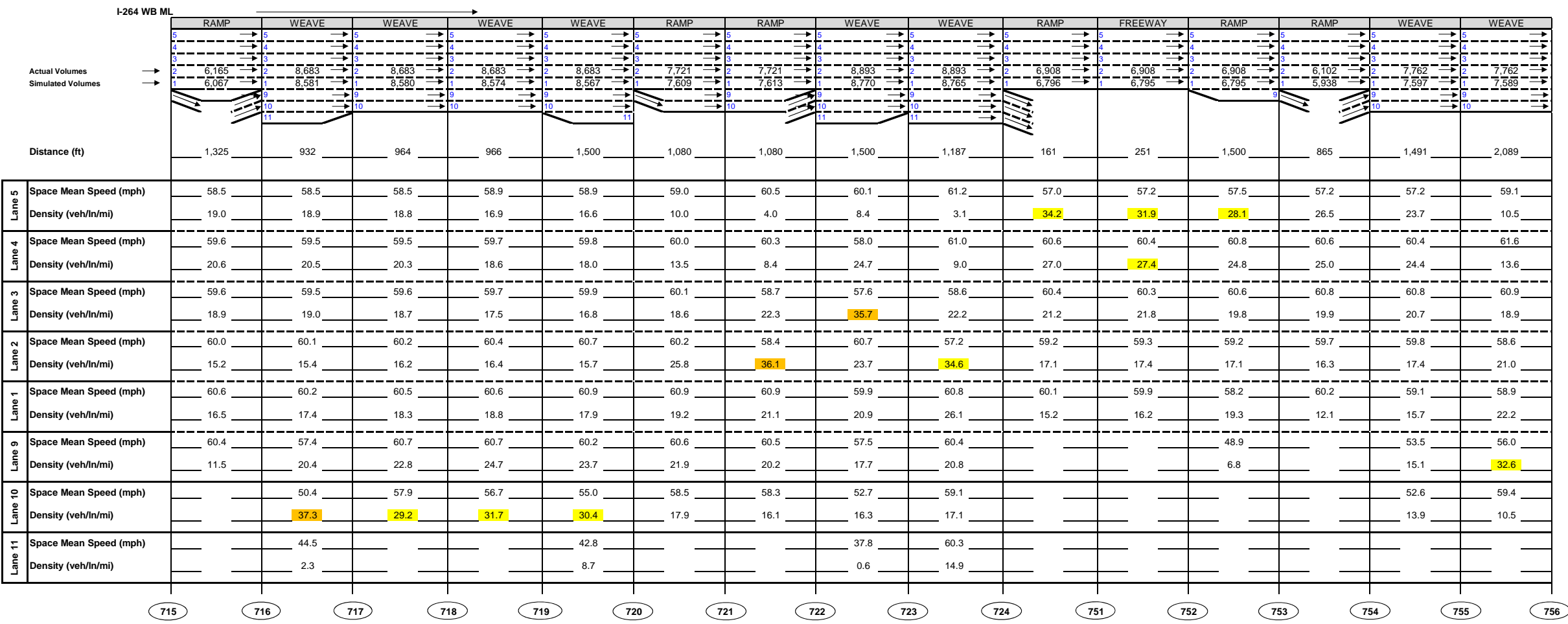
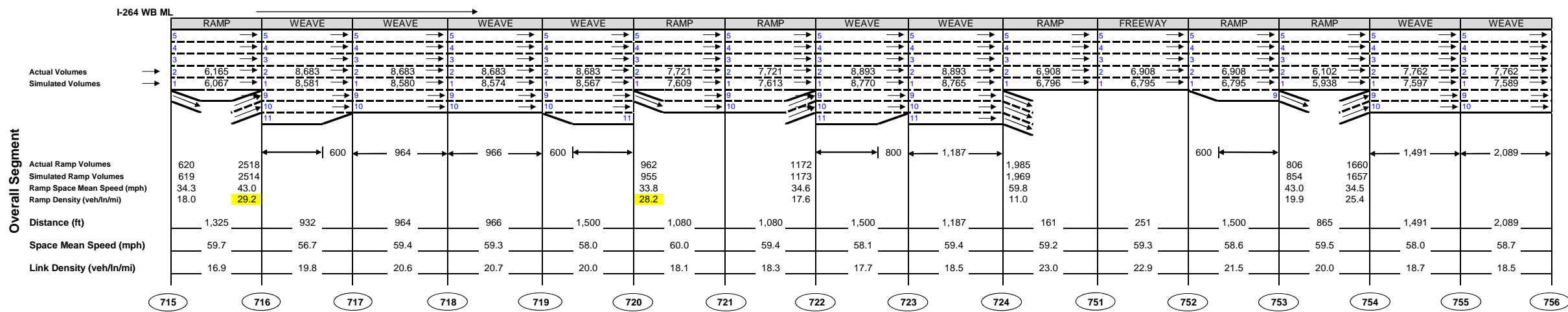
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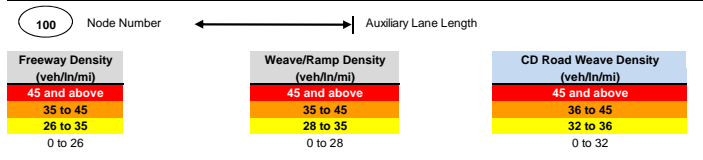
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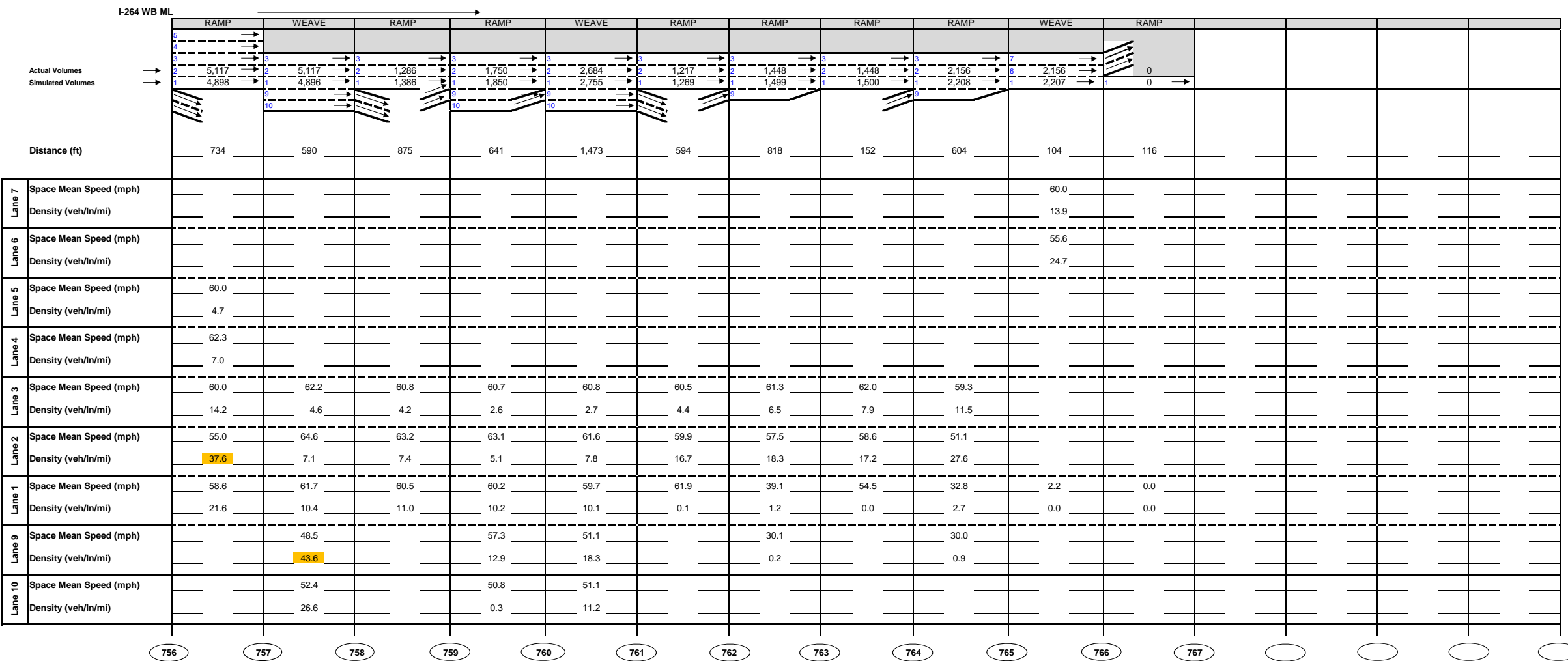
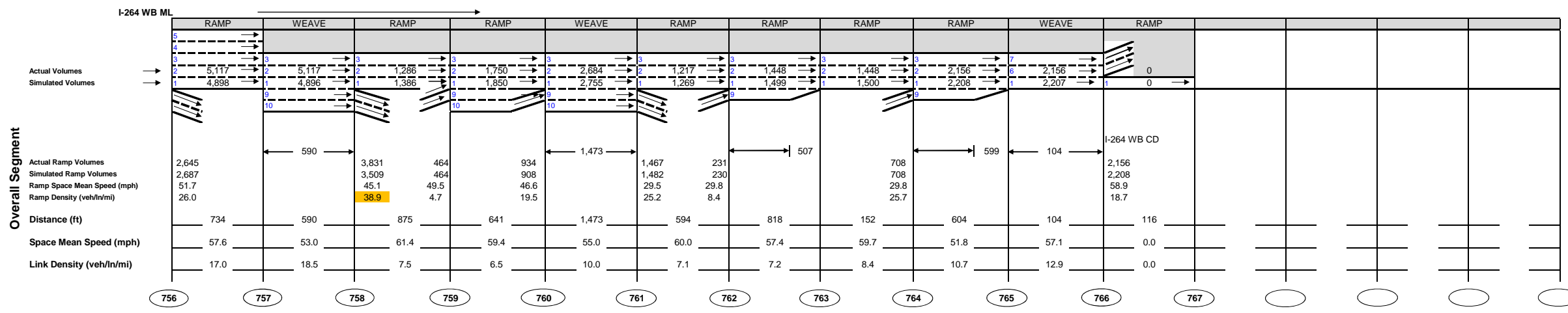


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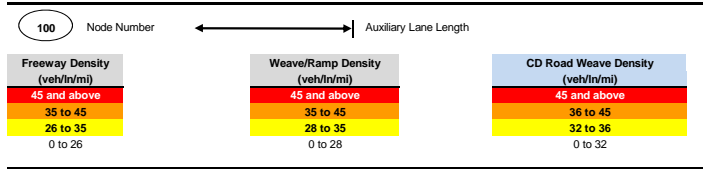


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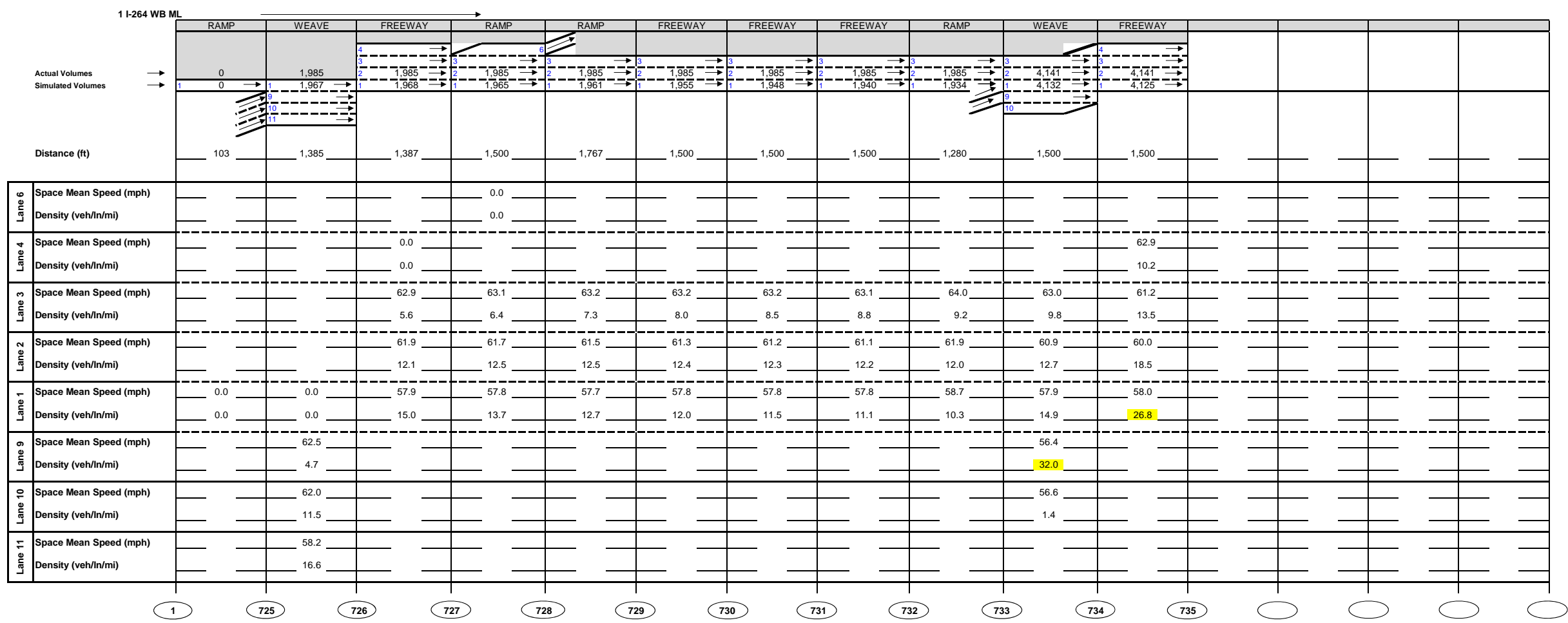
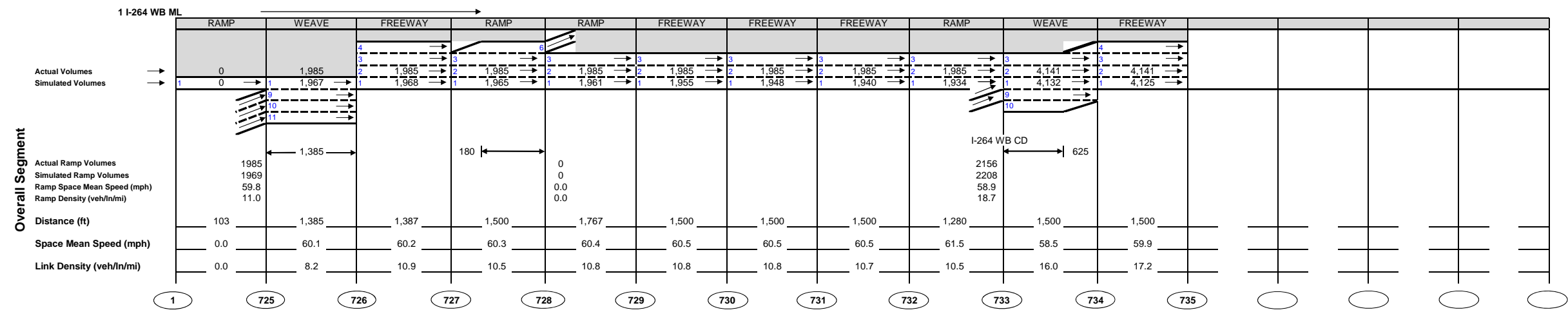


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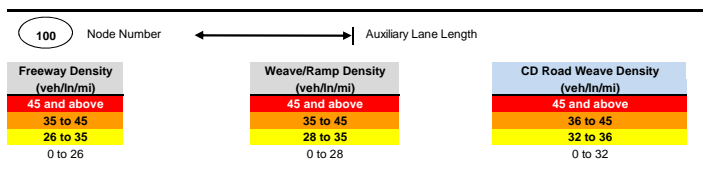


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Overall Segment	I-64 WB											
	100	101	102	103	104	105	106	107	108	109	110	111
Actual Volumes	7,887	7,887	7,887	7,887	7,887	4,470	3,536	3,536	7,742	7,742	7,742	
Simulated Volumes	7,885	7,887	7,886	7,875	7,862	4,411	3,495	3,487	7,801	7,790	7,772	
Actual Ramp Volumes			250	0	1,500	3,417	934	4,206	800			
Simulated Ramp Volumes				0		3,449	909	4,326				
Ramp Space Mean Speed (mph)				0.0		49.0	44.0	51.5				
Ramp Density (veh/ln/mi)				0.0		35.3	20.7	28.0				
Distance (ft)	1,513	1,500	1,500	2,004	1,500	500	1,439	1,041	1,500	1,500	1,500	
Space Mean Speed (mph)	60.2	59.0	58.7	57.3	54.7	57.4	59.8	59.5	53.7	58.4	58.4	
Link Density (veh/ln/mi)	26.5	26.7	26.0	27.5	28.8	19.7	19.5	19.6	26.3	26.7	26.7	

Lane	I-64 WB											
	100	101	102	103	104	105	106	107	108	109	110	111
Space Mean Speed (mph)												
Density (veh/ln/mi)												
Space Mean Speed (mph)	60.1	58.7	58.2	59.6						59.9	59.8	
Density (veh/ln/mi)	26.5	26.7	26.7	17.3						19.3	19.9	
Space Mean Speed (mph)	60.2	59.3	59.1	59.5						59.5	59.6	
Density (veh/ln/mi)	26.6	26.8	27.2	23.7						22.7	23.0	
Space Mean Speed (mph)	60.2	59.2	59.0	55.3	60.0	60.3	60.3	60.2	60.1	59.0	58.9	
Density (veh/ln/mi)	26.6	26.7	26.8	39.1	14.8	16.1	16.6	17.6	18.5	24.8	25.7	
Space Mean Speed (mph)	60.1	59.2	59.0	55.8	58.4	59.9	60.2	59.8	59.6	57.8	57.8	
Density (veh/ln/mi)	26.5	26.9	27.3	37.9	23.0	23.0	22.3	22.4	22.5	31.8	31.2	
Space Mean Speed (mph)	60.1	58.8	58.3	59.3	51.1	56.4	58.8	58.4	58.0	56.8	56.9	
Density (veh/ln/mi)	26.5	26.5	26.4	19.6	42.4	22.9	19.6	18.7	22.2	35.0	33.4	
Space Mean Speed (mph)						52.6	51.8		54.5			
Density (veh/ln/mi)						38.9	15.0		30.7			
Space Mean Speed (mph)						57.7			46.5			
Density (veh/ln/mi)						24.8			47.8			
Space Mean Speed (mph)									45.6			
Density (veh/ln/mi)									3.7			

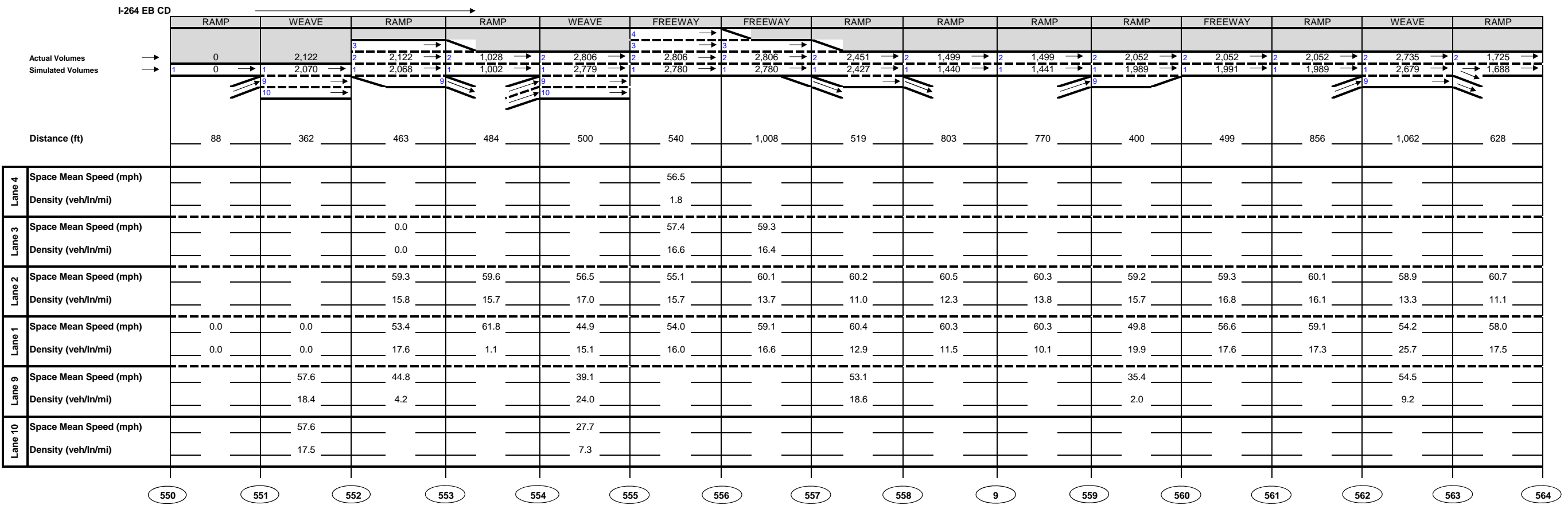
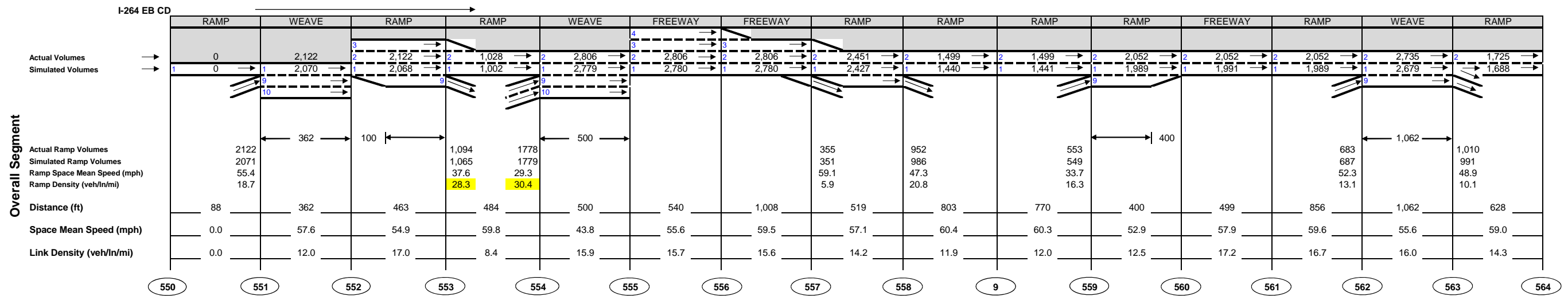
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100 Node Number ← Auxiliary Lane Length

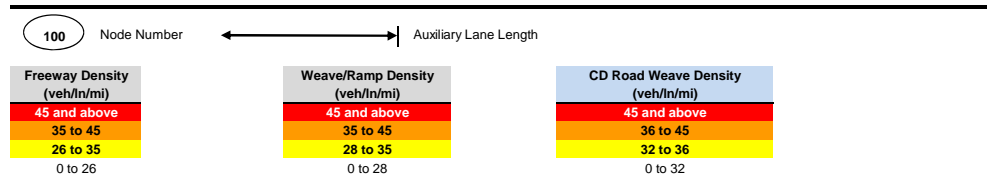
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



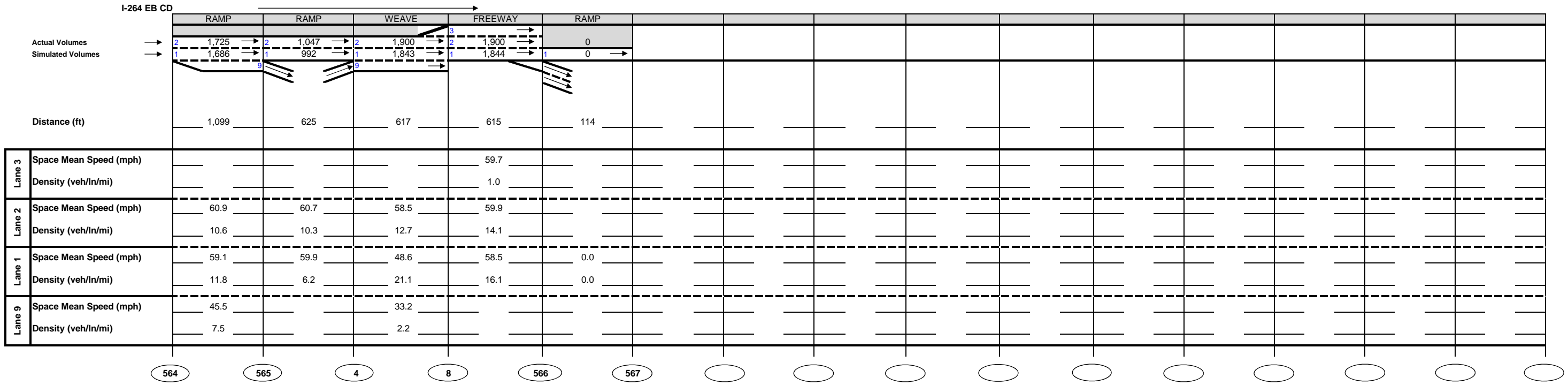
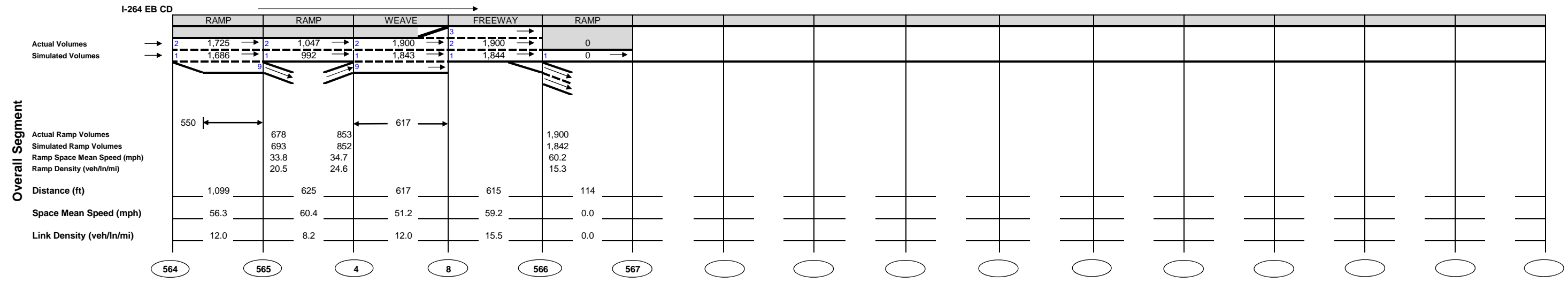
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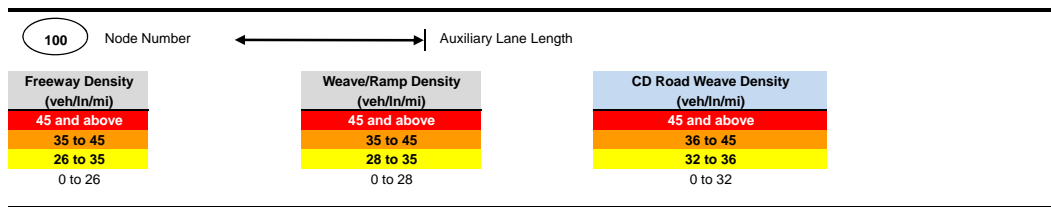
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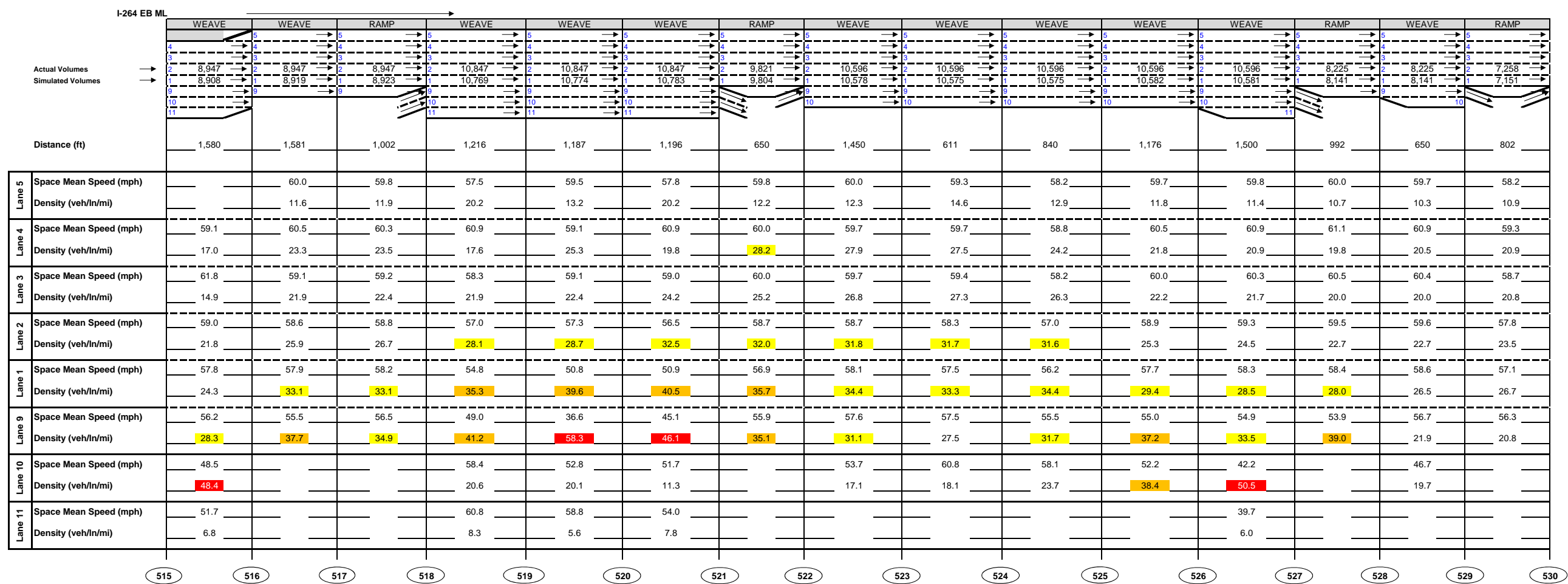
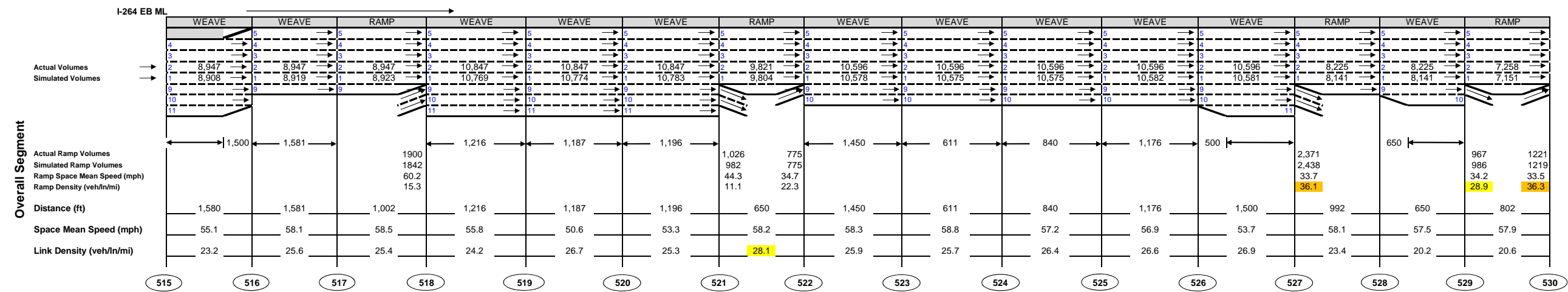
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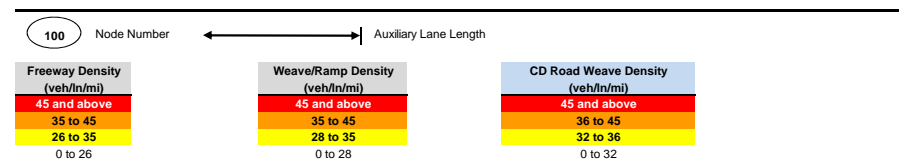
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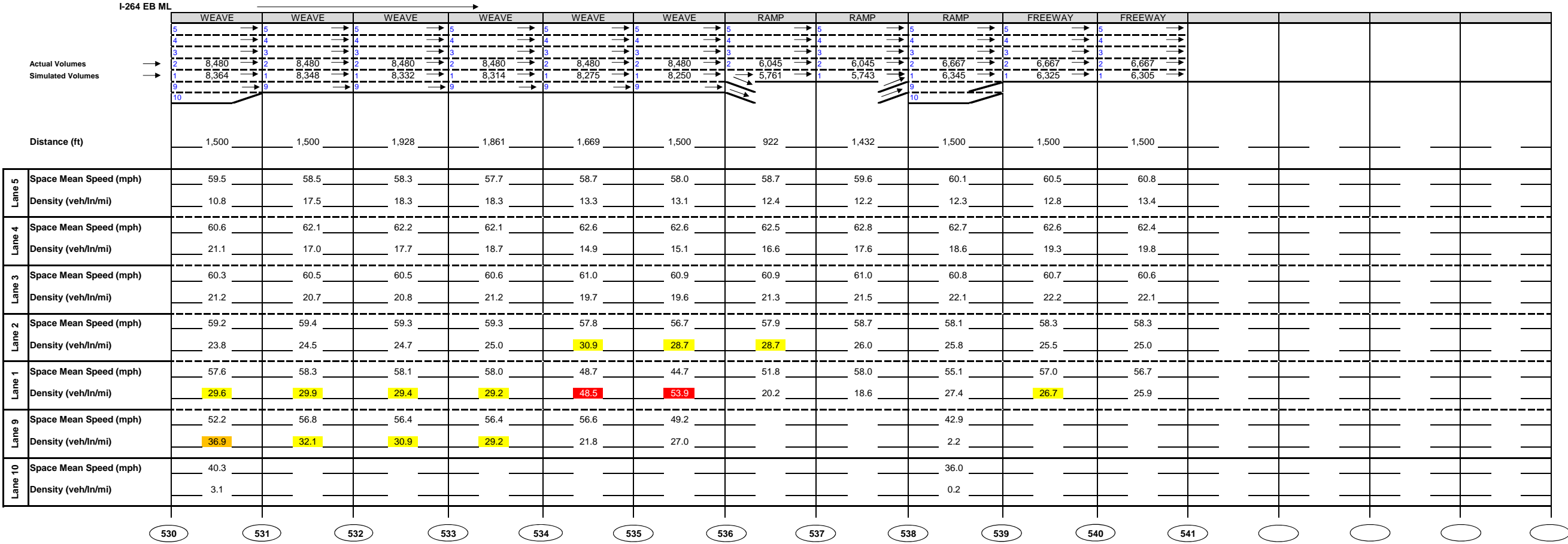
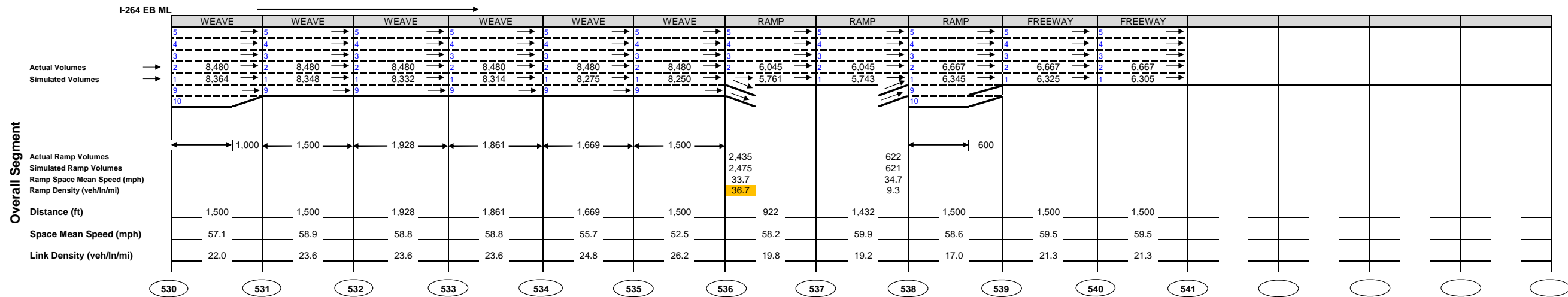
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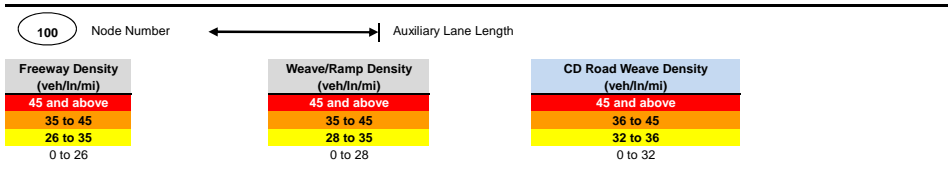
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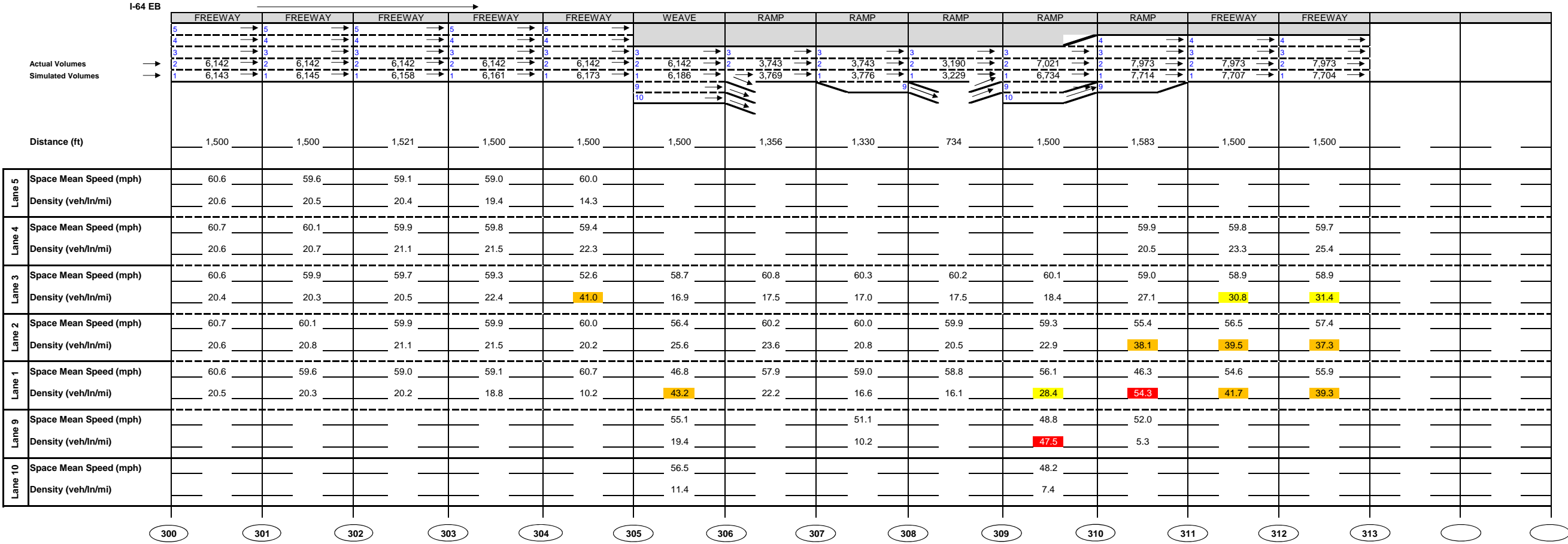
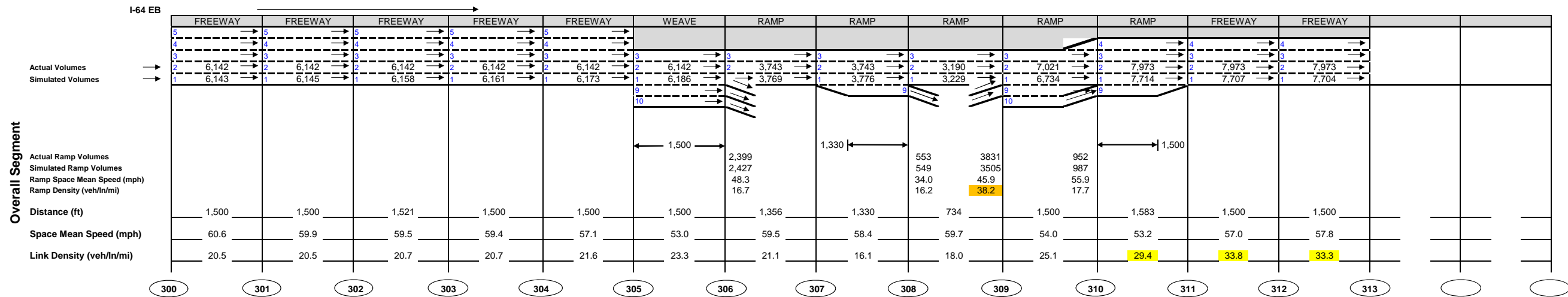
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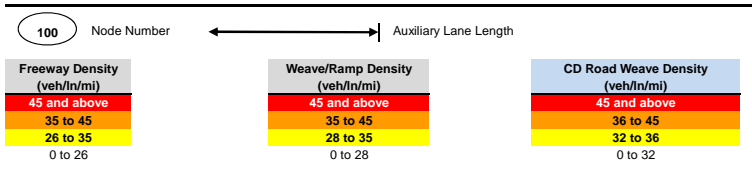
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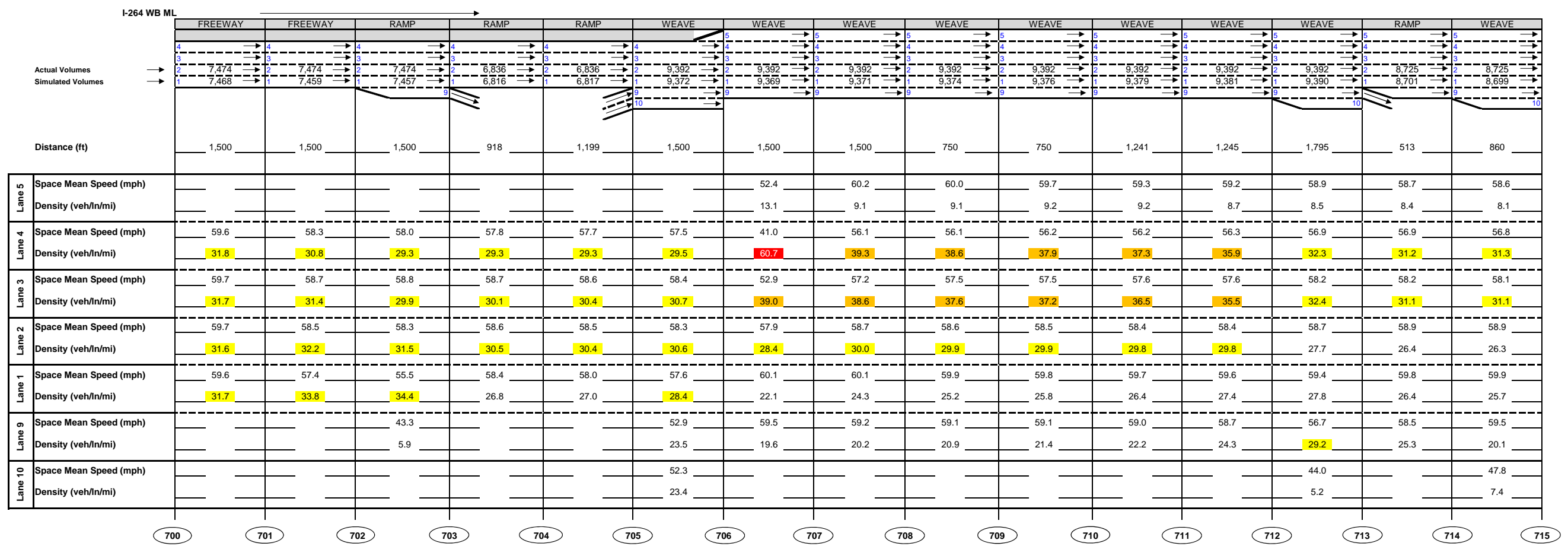
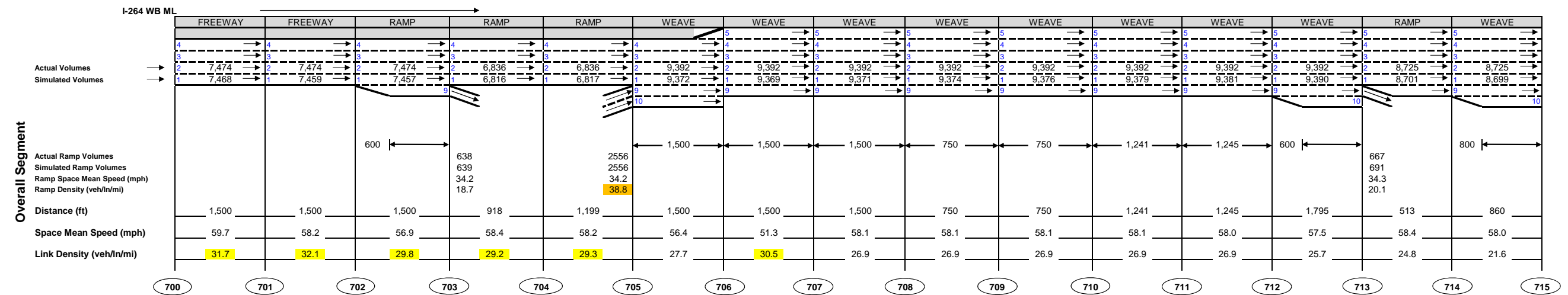


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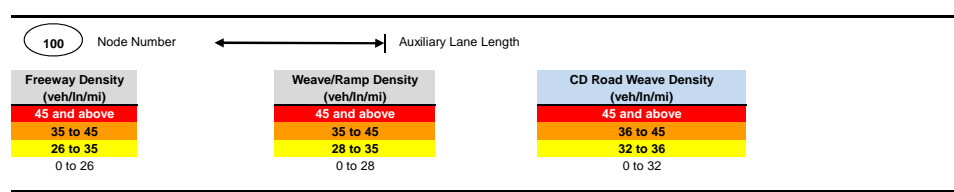
I-64/I-264 Interchange Directional Build Alternative - Link Descriptions (PM Peak Hour)

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	29.9	D	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.5	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	32.8	D	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	18.5	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	17.0	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	12.0	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	15.9	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	25.4	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	15.6	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.3	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	20.4	C	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.5	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.8	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.5	B
EB I-64 to WB I-264 CD (Merge)	759,760	6.5	A	WB I-264 CD to NB Newtown Road (Diverge)	752,753	21.5	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	10.0	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	18.7	B
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	7.2	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	10.9	A
SB Military Hwy to WB I-264 CD (Merge)	764,765	10.7	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	16.0	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.3	C
WB I-264 West of Military Hwy (Freeway)	734,735	17.2	B	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	25.9	C
I-64/I-264 Interchange				Independence Boulevard Interchange			
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	20.4	C	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.6	D
EB I-264 ML to WB I-64 (Diverge)	510,511	22.5	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.7	C
EB I-264 CD to EB I-64 (Diverge)	557,558	14.2	B	WB I-264 to Witchduck Rd (Diverge)	719,720	20.0	B
EB I-64 to EB I-264 CD (Merge)	559,560	12.5	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.5	C
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	562,563	16.0	B	Independence Boulevard Interchange			
EB/WB I-64 to I-264 EB ML (Merge)	515,516	23.2	C	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.6	D
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	10.9	A	EB I-264 to SB Independence Blvd (Diverge)	526,527	26.9	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	-	-	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	20.2	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.5	B	NB Independence Blvd to EB I-264 (Merge)	530,531	22.0	C
WB I-264 CD to I-64 EB (Diverge)	757,758	18.5	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.6	C
EB I-64 to WB I-264 CD (Merge)	759,760	6.5	A	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.8	C
WB I-64 to I-264 WB CD (Weave)	760,761	10.0	A	WB I-264 to NB Independence Blvd (Diverge)	712,713	19.9	B
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.8	A	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	16.5	B
EB I-64 North of I-264 (Freeway)	301,302	20.5	C	SB Independence Blvd to WB I-264 (Merge)	716,717	19.8	B
EB I-64 to I-264 EB/WB	305,306	23.3	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.7	C
EB I-64 to I-264 EB CD (Diverge)	307,308	16.1	B	Rosemont Road Interchange			
WB I-264 CD to EB I-64 (Merge)	309,310	25.1	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.6	C
EB I-264 CD to EB I-64 (Merge)	310,311	29.4	D	EB I-264 to Rosemont Rd (Diverge)	535,536	26.2	C
EB I-64 South of I-264 (Freeway)	312,313	33.3	D	SB Rosemont Rd to EB I-264 (Merge)	537,538	19.2	B
WB I-64 South of I-264 (Freeway)	101,102	26.7	D	NB Rosemont Rd to EB I-264 (Merge)	538,539	17.0	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	-	-	EB I-264 East of Rosemont Rd (Freeway)	540,541	21.3	C
WB I-64 to I-264 EB (Diverge)	104,105	28.8	D	WB I-264 East of Rosemont Rd (Freeway)	700,701	26.6	D
WB I-64 to WB I-264 CD (Diverge)	105,106	19.7	B	WB I-264 to Rosemont Rd (Diverge)	702,703	24.9	C
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	26.3	C	NB Rosemont Rd to WB I-264 (Merge)	704,705	23.9	C
WB I-64 North of I-264 (Freeway)	110,111	26.7	D	SB Rosemont Rd to WB I-264 (Merge)	705,706	21.6	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.8	C



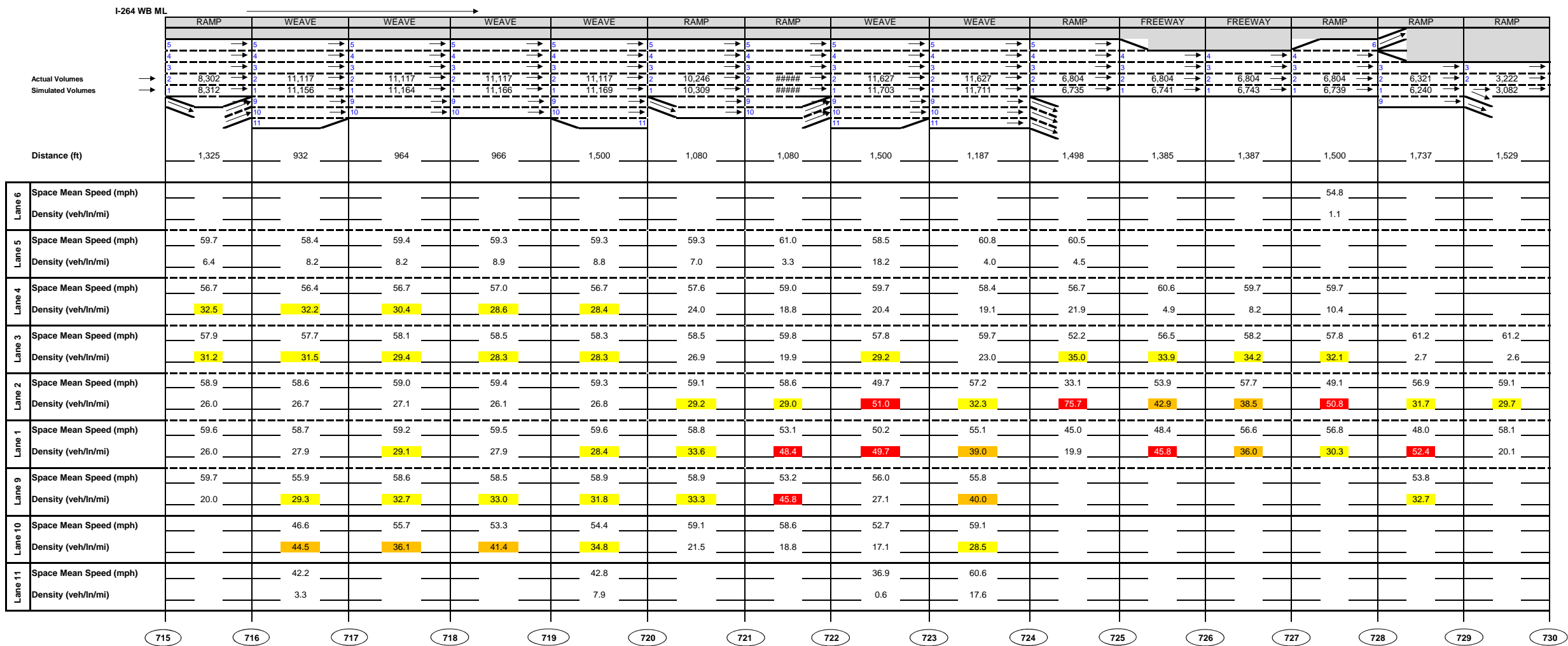
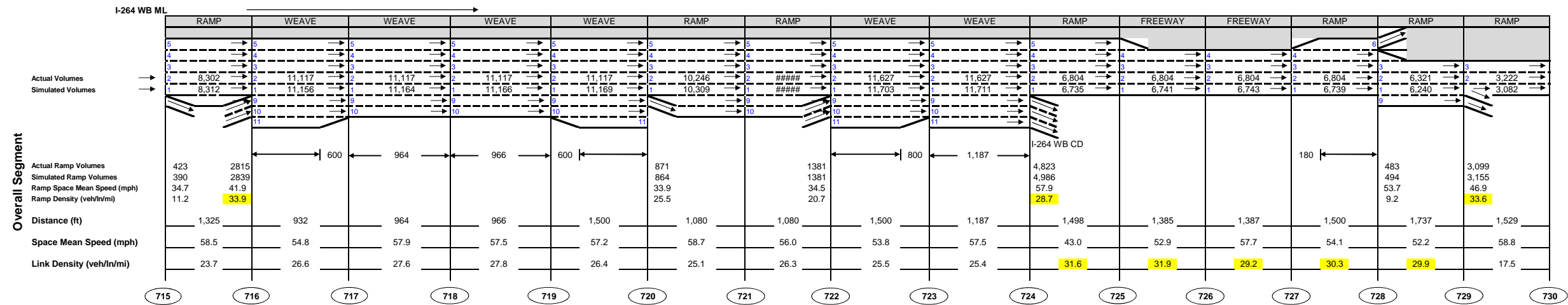
NOTE: numbers in chart are provided for illustrative purposes only

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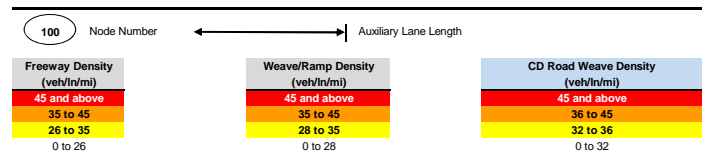
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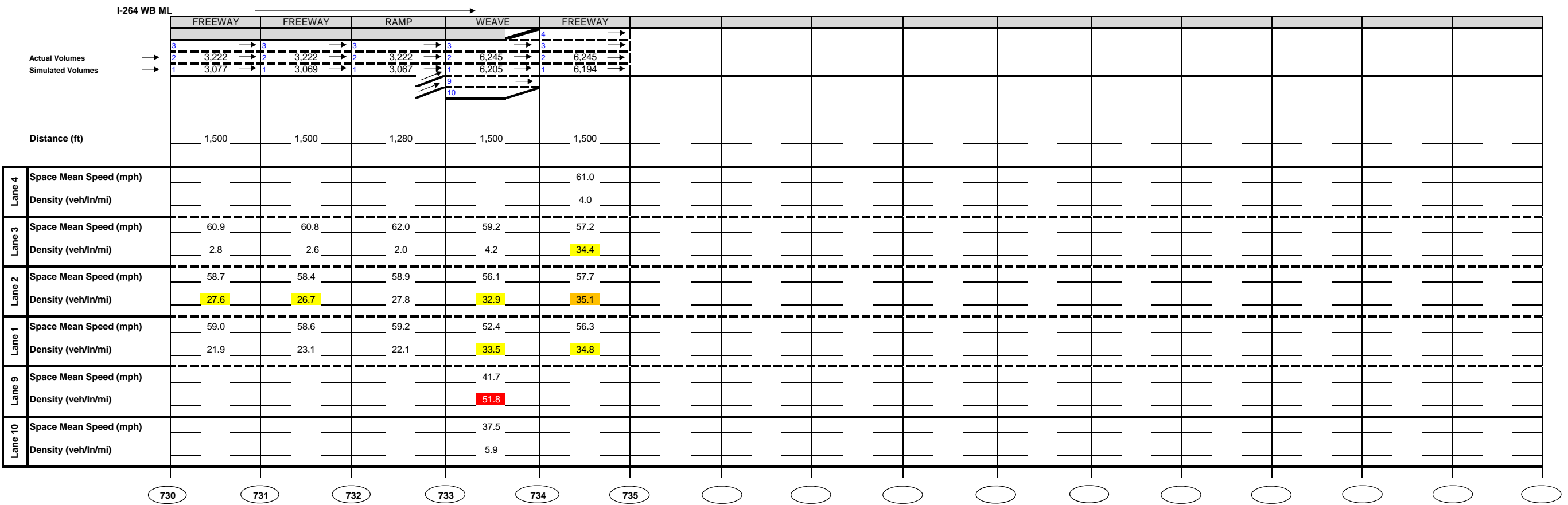
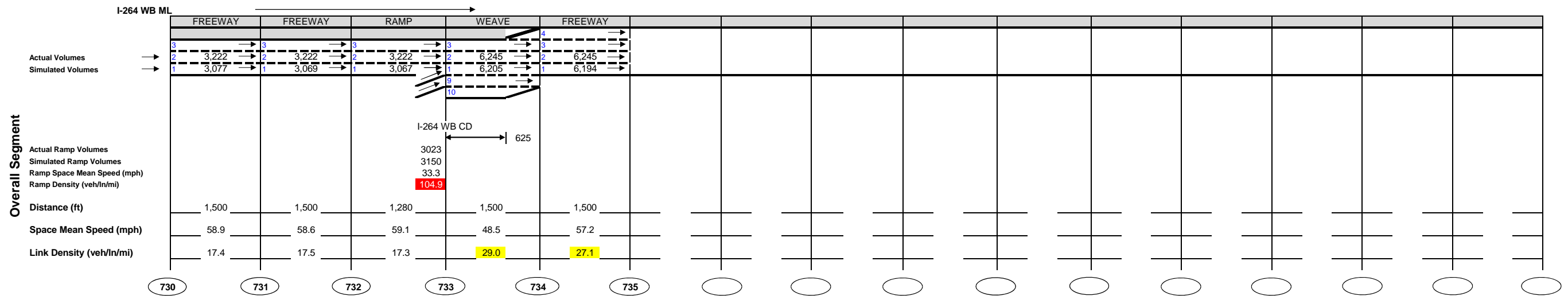
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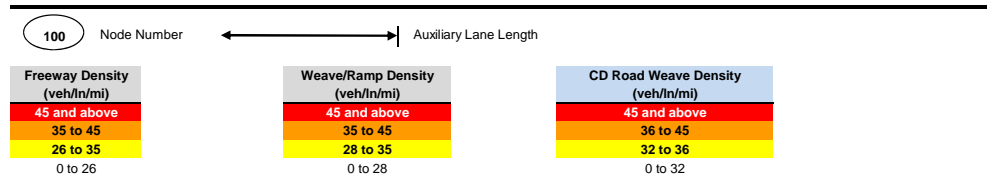
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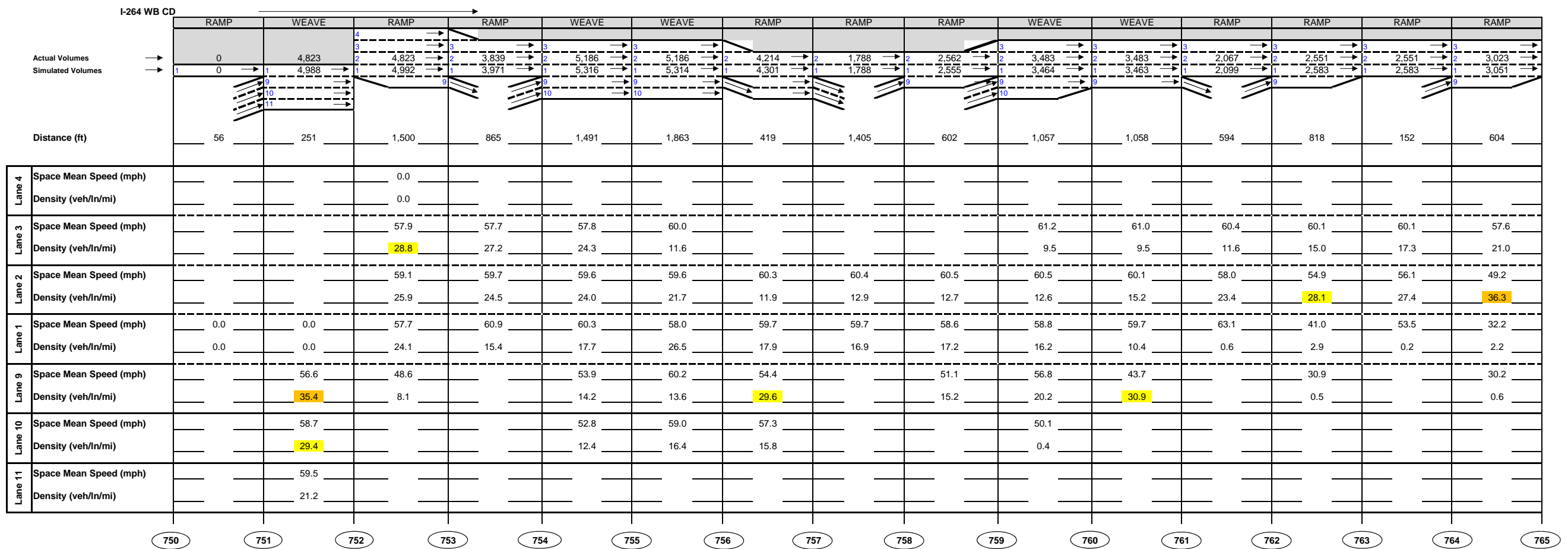
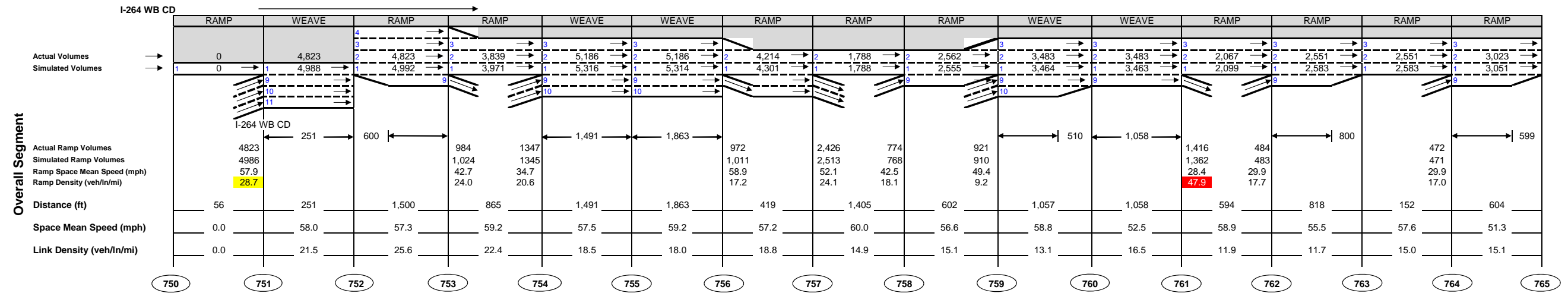
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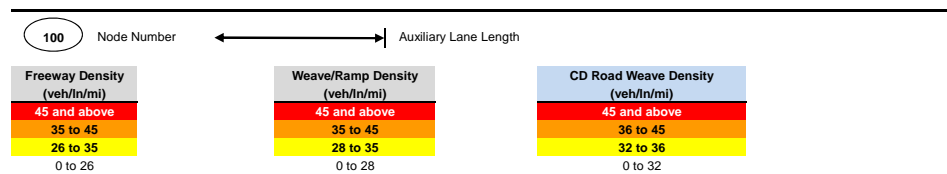
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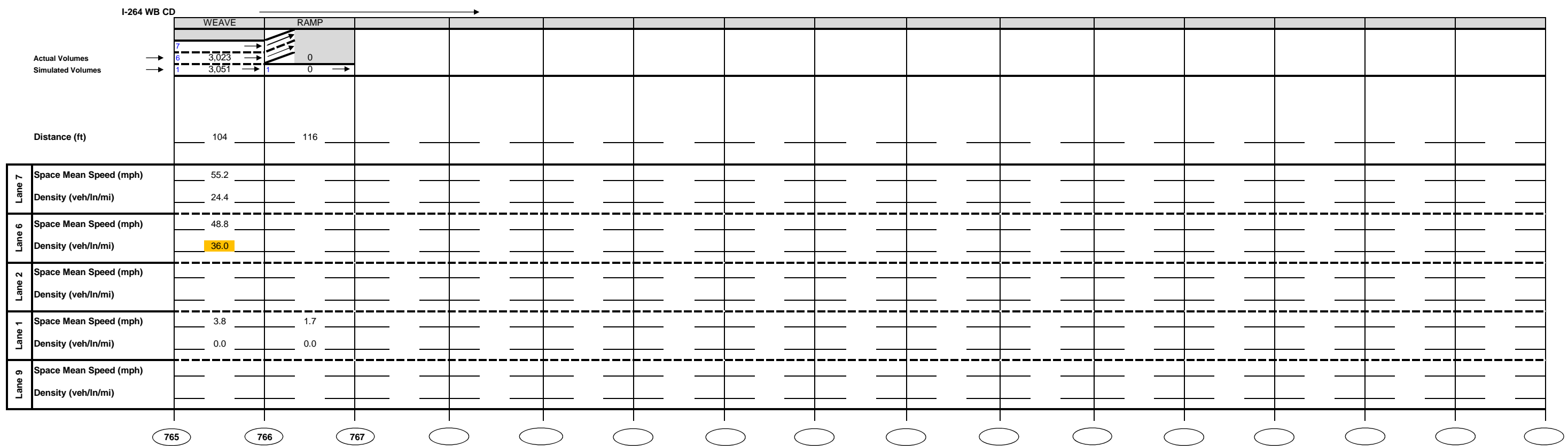
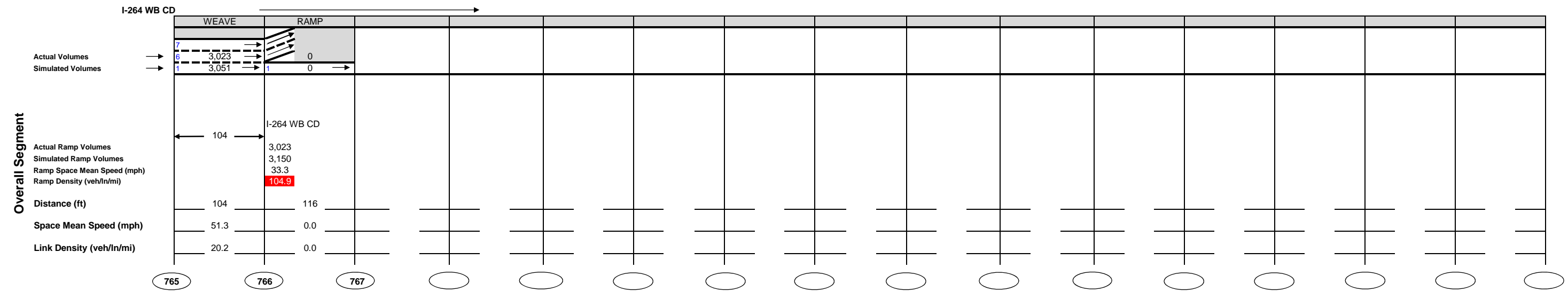


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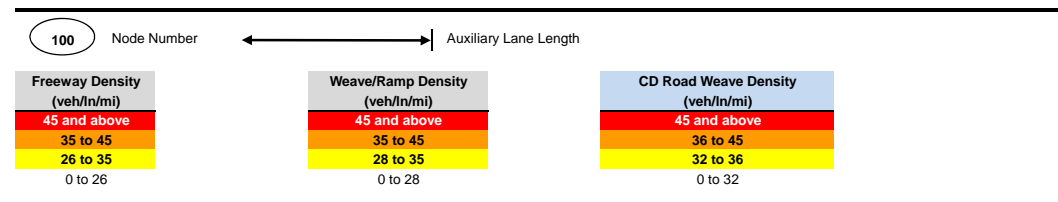


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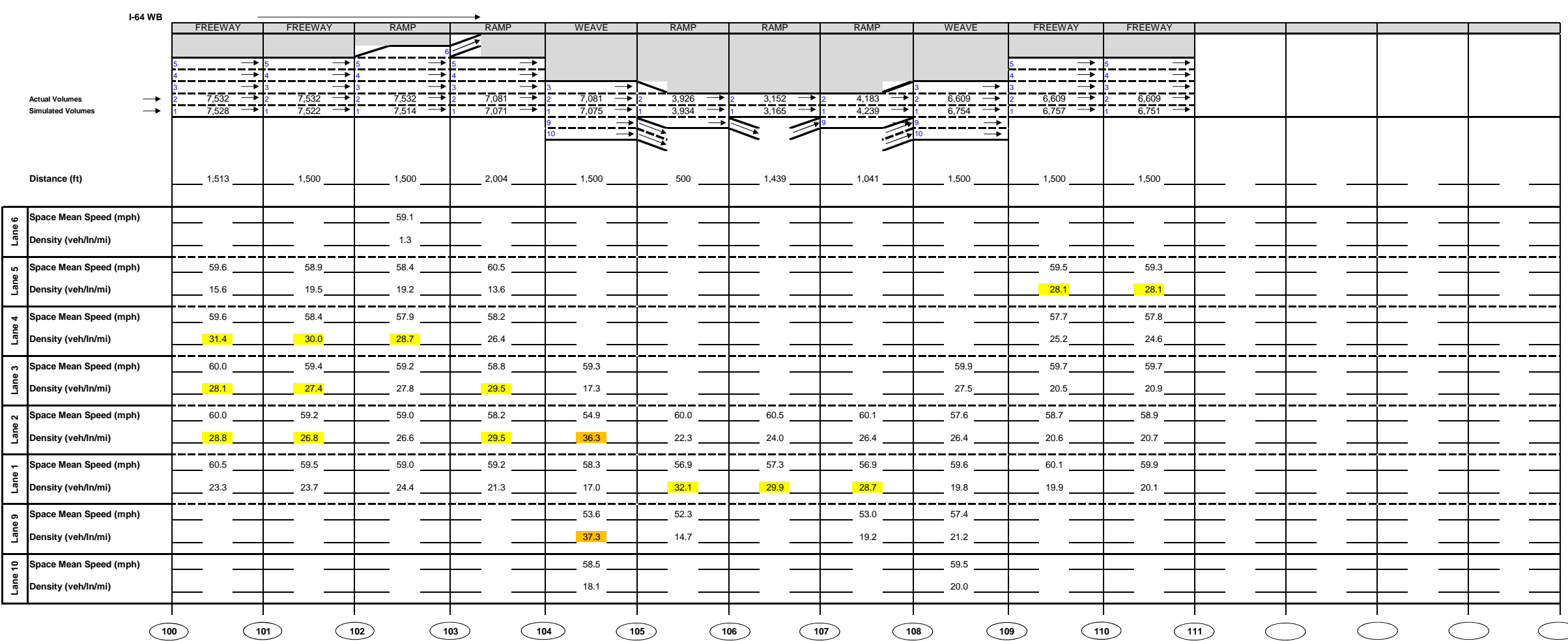
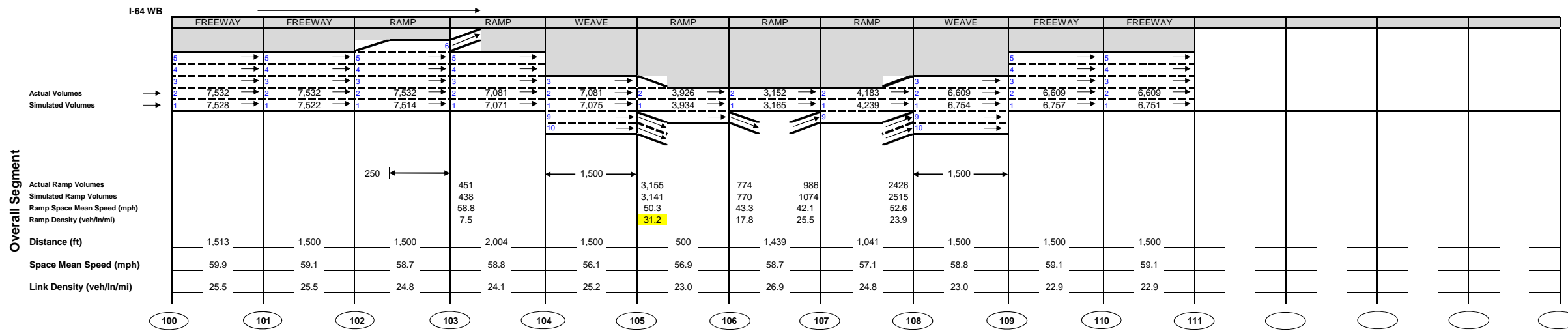
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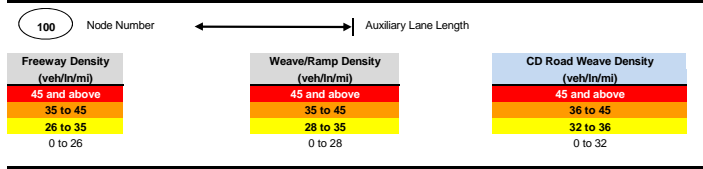
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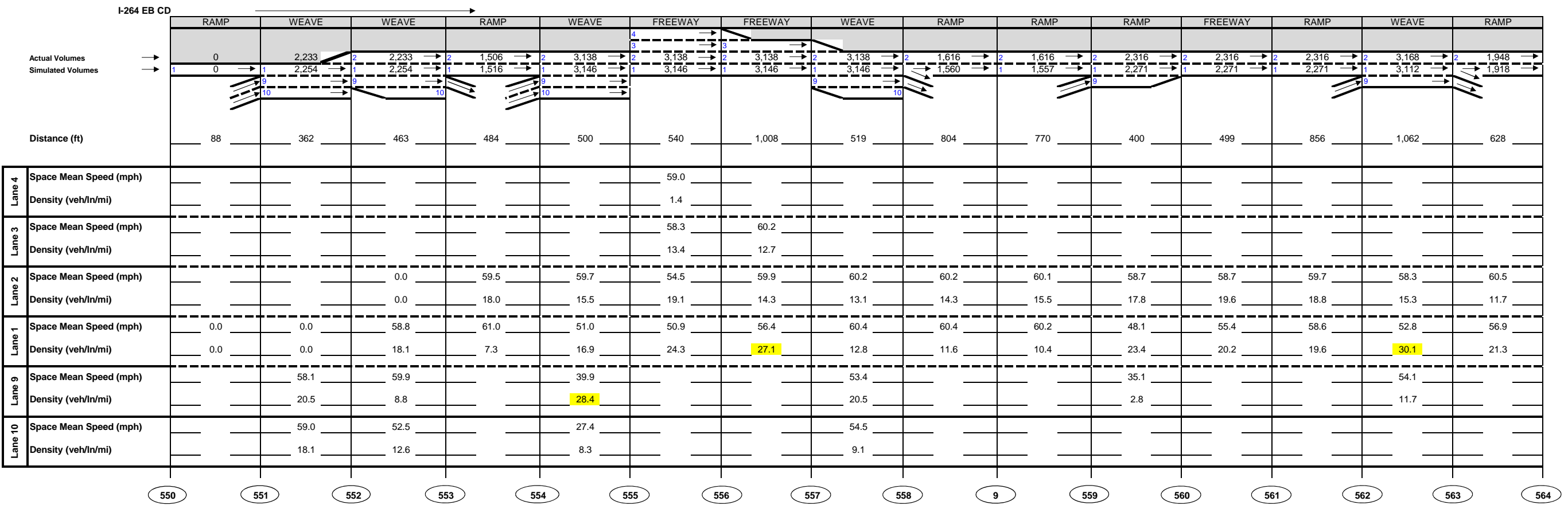
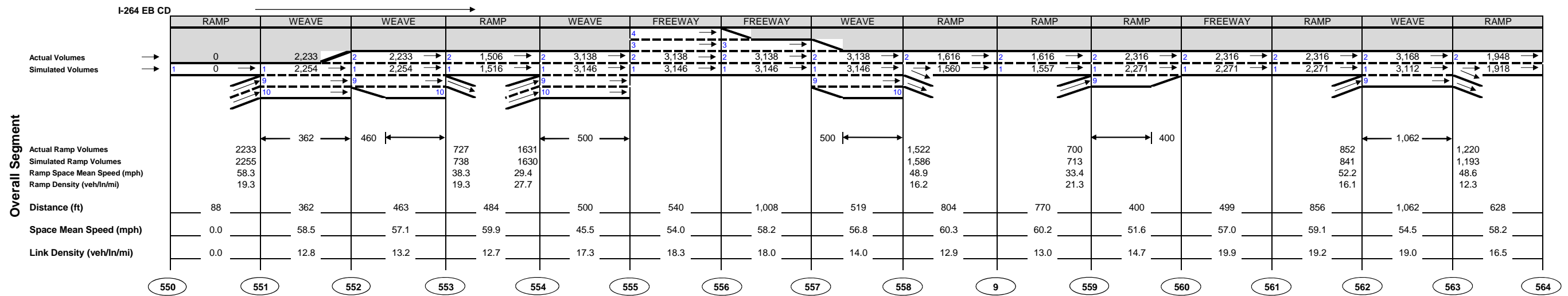


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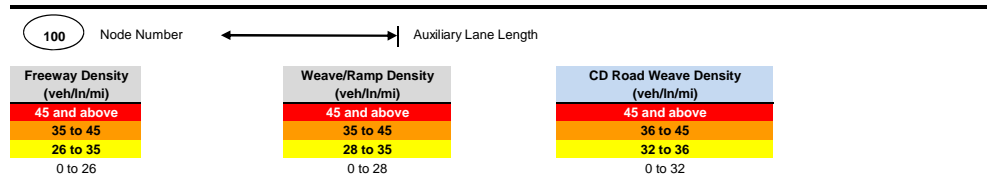


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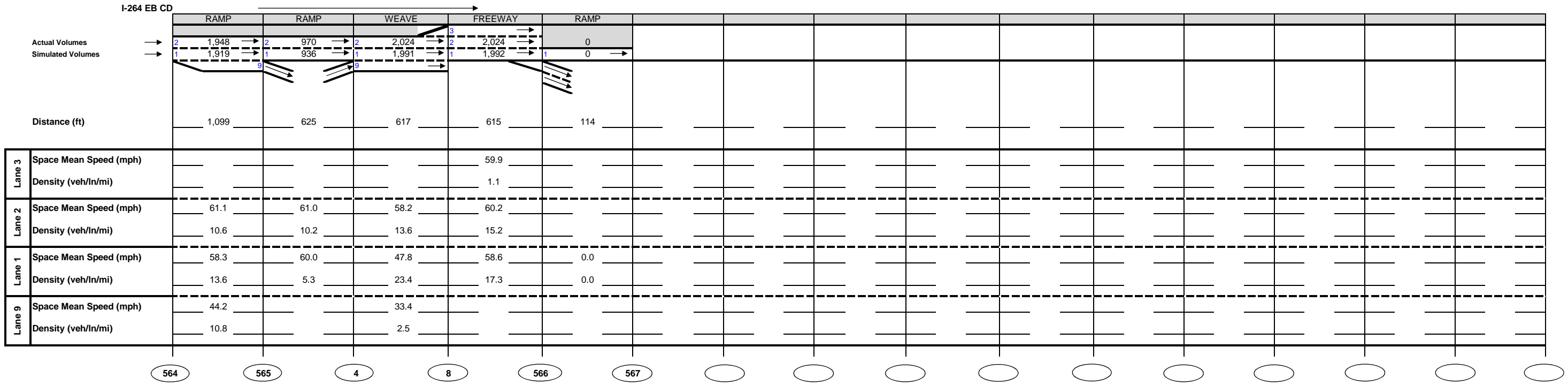
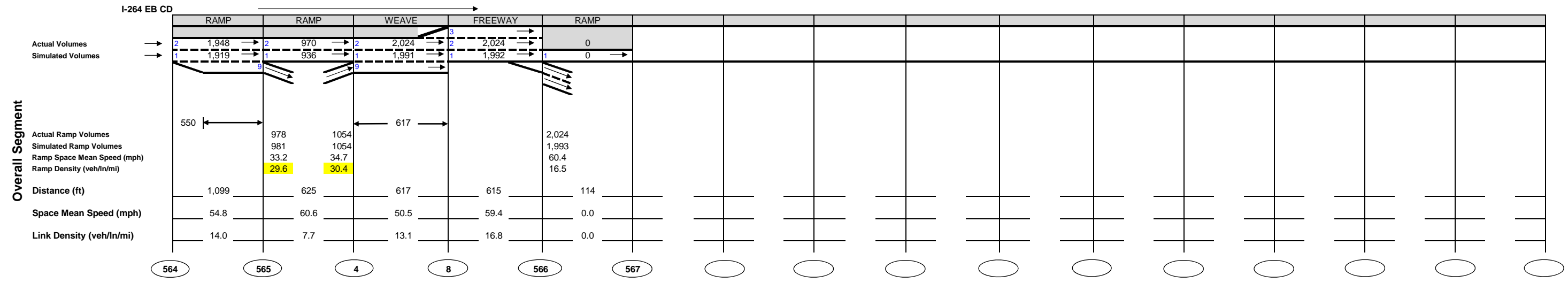


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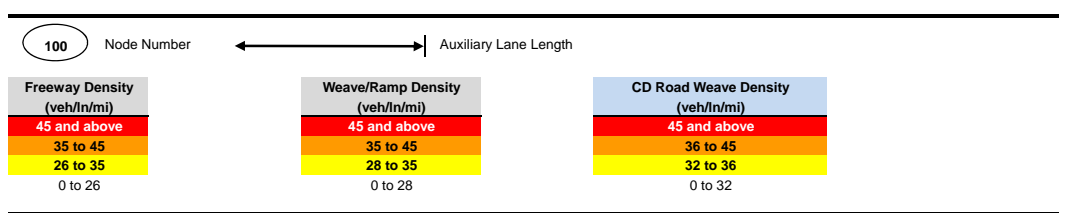


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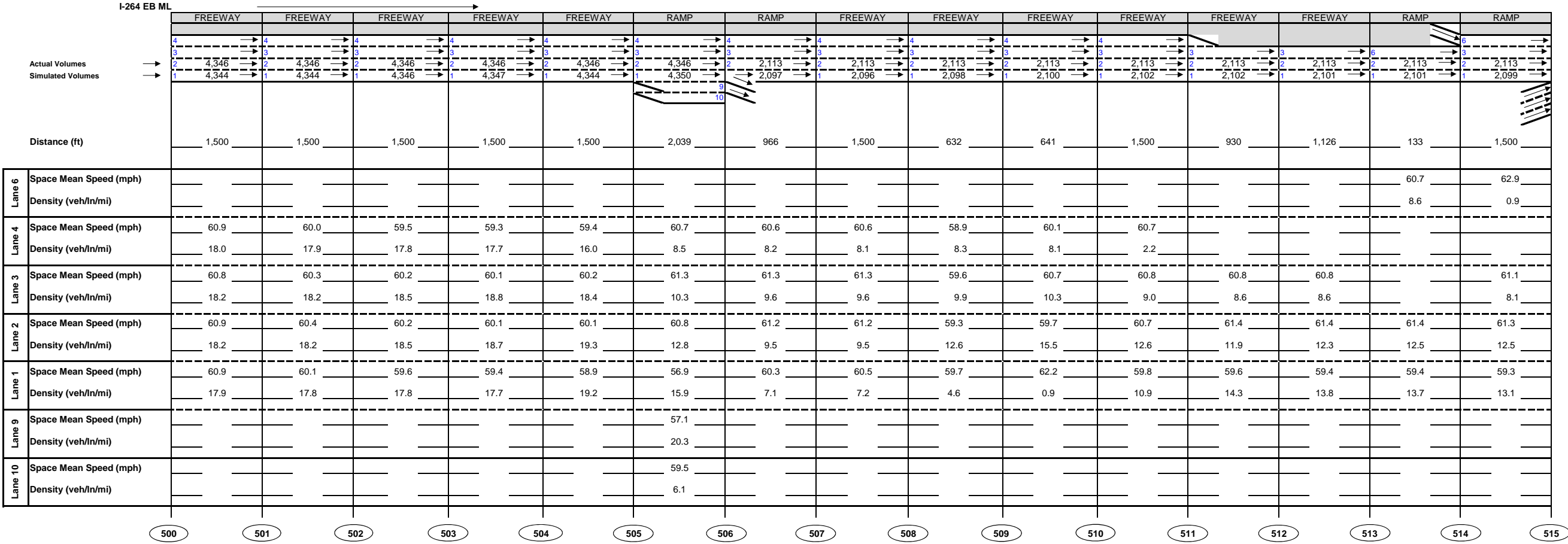
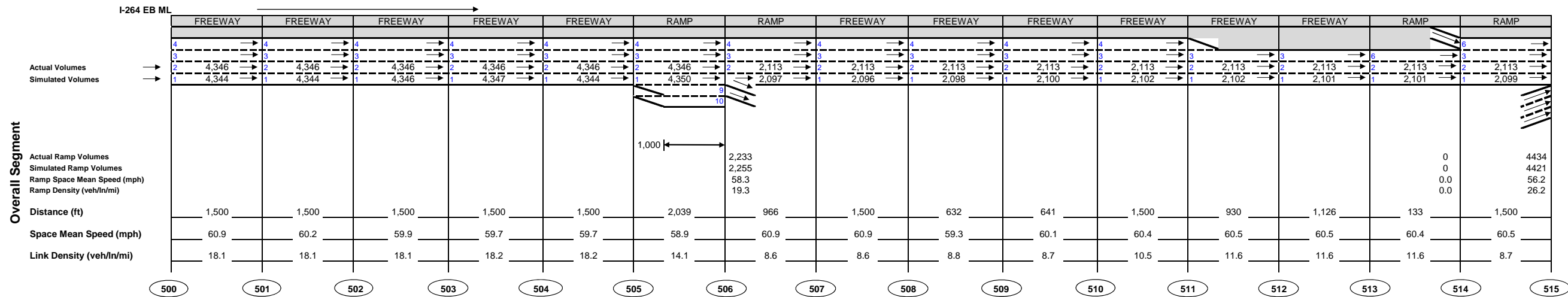
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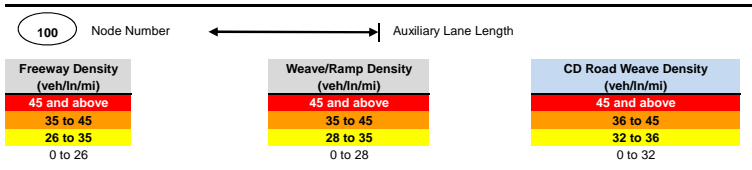
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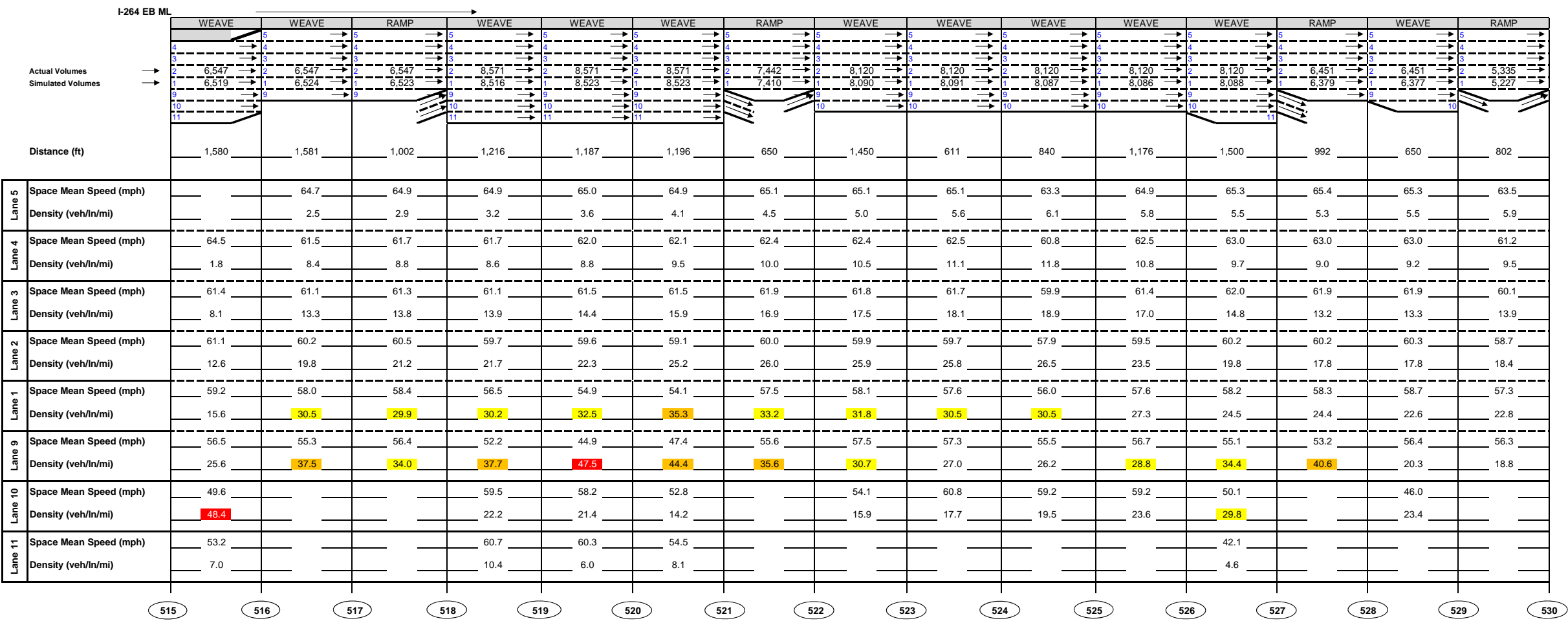
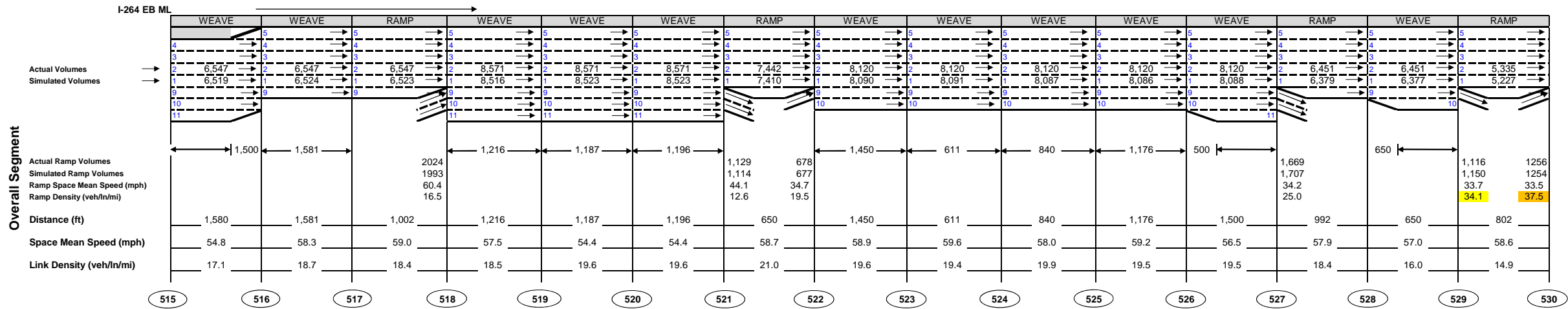
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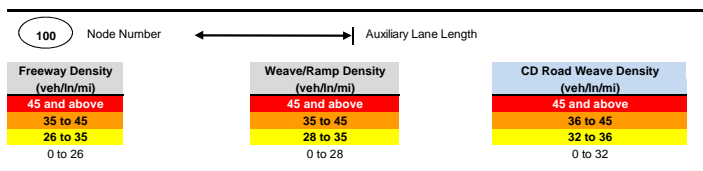
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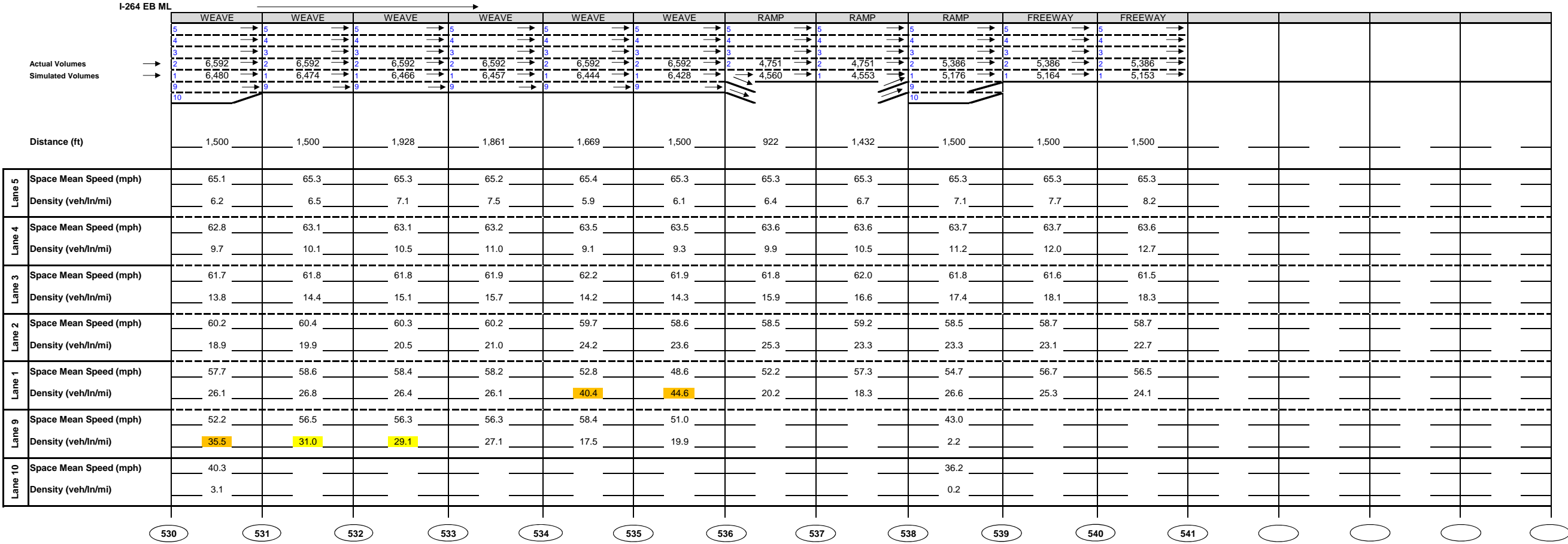
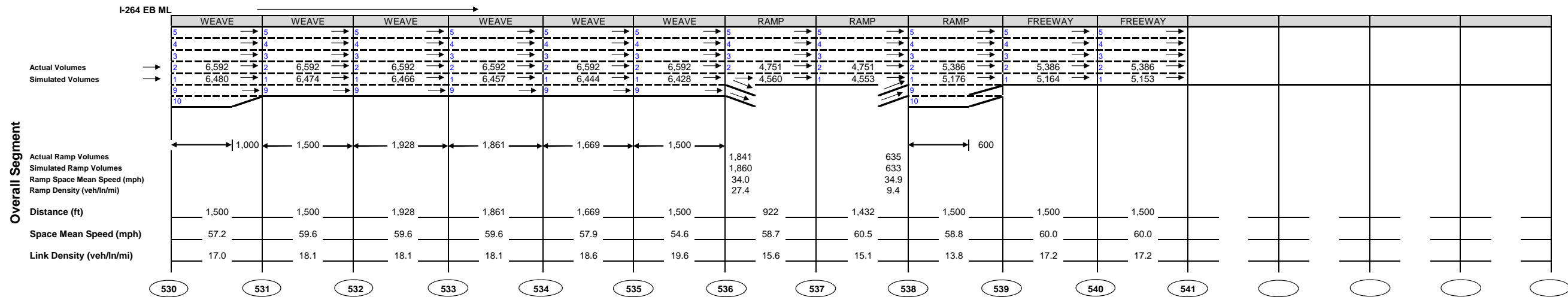
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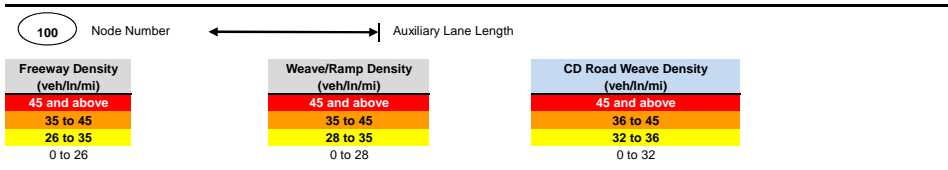
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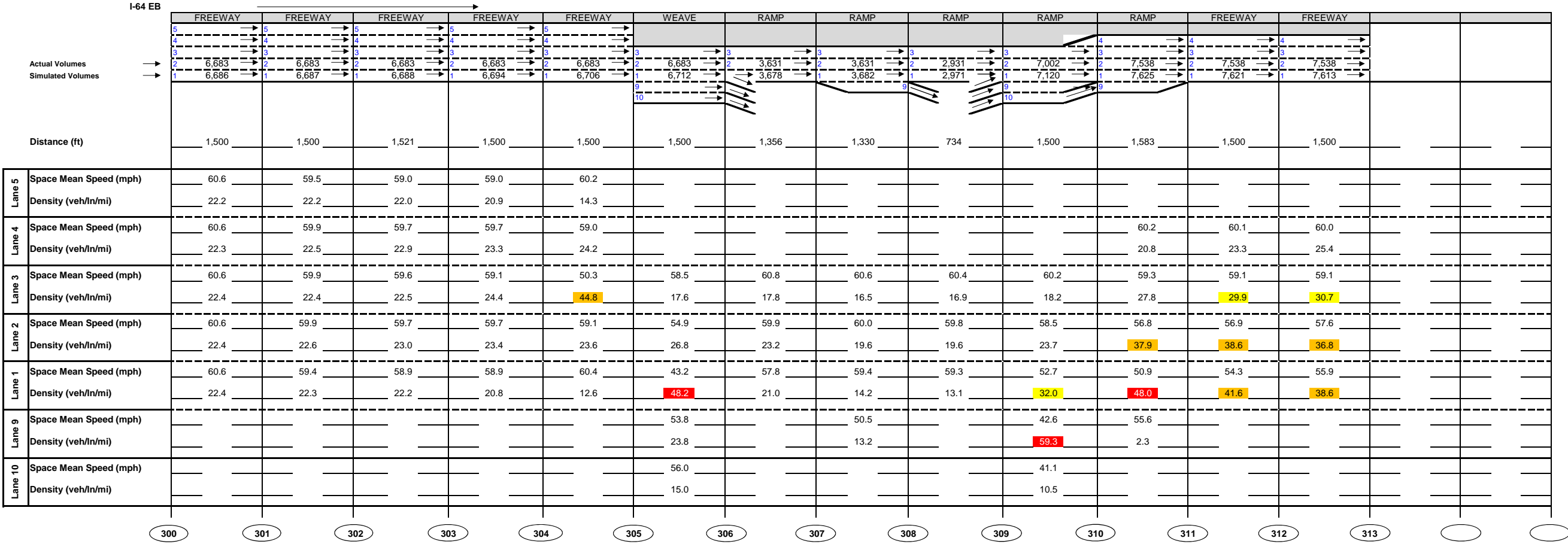
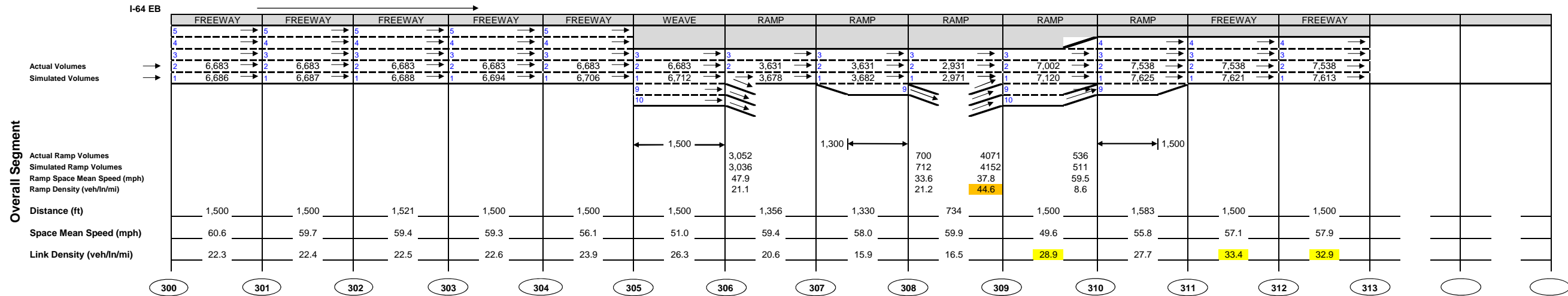
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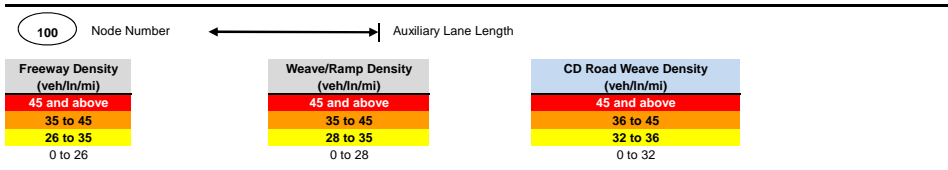
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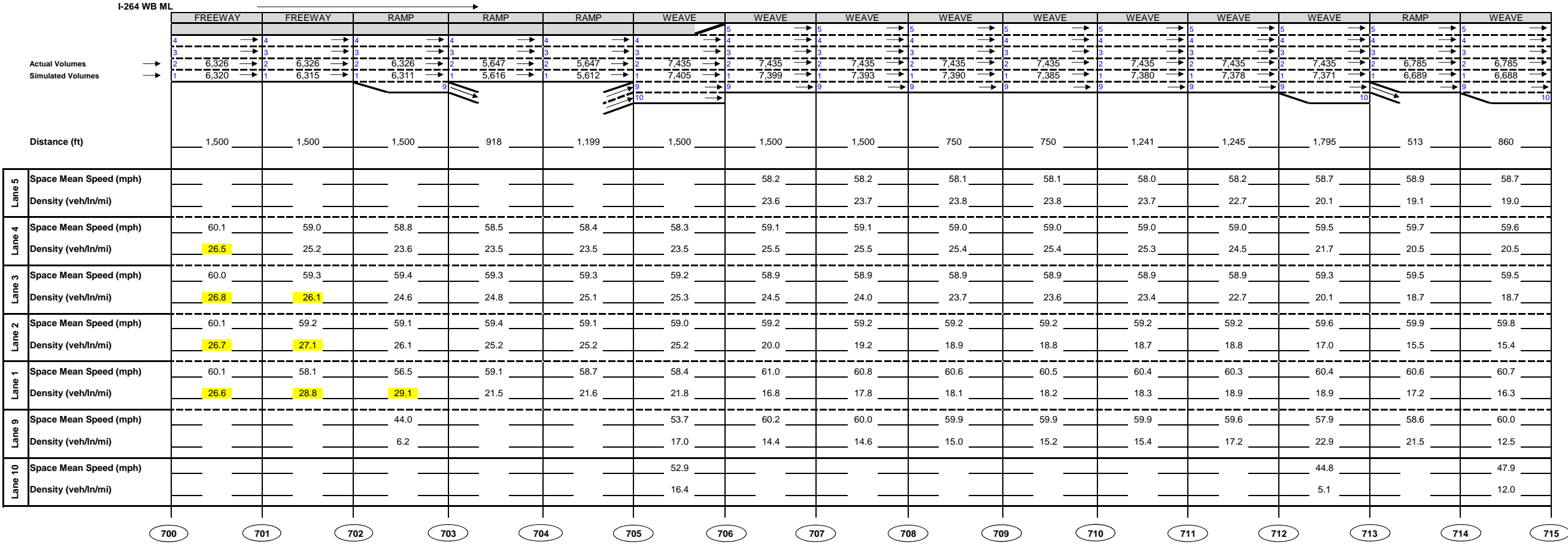
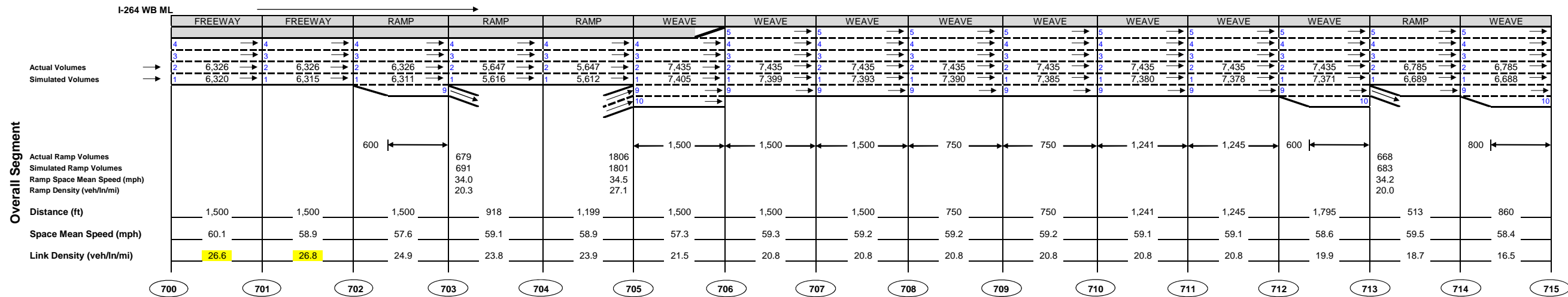


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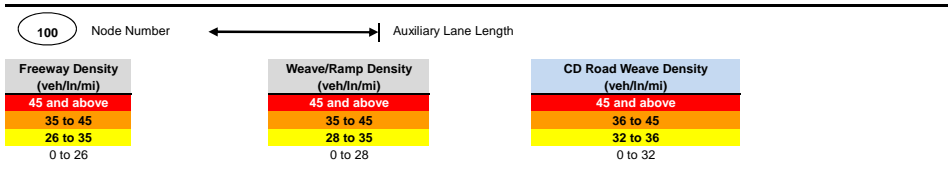
I-64/I-264 Interchange Semi-Directional Build Alternative - Link Descriptions (AM Peak Hour)

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	18.1	C	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.7	A
EB I-264 ML to EB I-264 CD (Diverge)	505,506	14.1	B	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	18.0	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	13.2	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	14.0	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	17.3	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	18.4	B
NB Military Hwy to EB I-264 CD (Merge)	556,557	18.0	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.6	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.6	A	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.4	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.4	B	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.0	B
EB I-64 to WB I-264 CD (Merge)	759,760	13.1	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.6	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	16.5	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	18.5	B
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	11.7	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	29.2	D
SB Military Hwy to WB I-264 CD (Merge)	764,765	15.1	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	29.0	D	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.6	C
WB I-264 West of Military Hwy (Freeway)	734,735	27.1	D	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	19.6	B
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.5	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.6	A	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.8	D
EB I-264 CD to EB I-64 (Diverge)	557,558	14.0	B	WB I-264 to Witchduck Rd (Diverge)	719,720	26.4	C
EB/WB I-64 & EB I-264 CD (Weave)	559,560	14.7	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.4	C
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	19.2	B	Independence Boulevard Interchange			
EB/WB I-64 to I-264 EB ML (Merge)	515,516	17.1	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.5	C
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	29.2	D	EB I-264 to SB Independence Blvd (Diverge)	526,527	19.5	B
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	30.3	D	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	16.0	B
WB I-264 ML to EB I-64 (Diverge)	728,729	29.9	D	NB Independence Blvd to EB I-264 (Merge)	530,531	17.0	B
SB Newtown Rd to WB I-264 CD & WB I-264 CD to EB I-64 (Weave)	755,756	18.0	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.1	C
WB I-264 CD to I-64 WB (Diverge)	757,758	14.9	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.9	D
WB I-64 to WB I-264 CD (Merge)	758,759	15.1	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	25.7	C
EB I-64 to WB I-264 CD (Merge)	759,760	13.1	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	21.6	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.4	B	SB Independence Blvd to WB I-264 (Merge)	716,717	26.6	C
EB I-64 North of I-264 (Freeway)	301,302	22.4	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.8	D
EB I-64 to I-264 EB/WB (Diverge)	305,306	26.3	C	Rosemont Road Interchange			
EB I-64 to I-264 EB CD (Diverge)	307,308	15.9	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.1	C
WB I-264 ML to EB I-64 (Merge)	309,310	28.9	D	EB I-264 to Rosemont Rd (Diverge)	535,536	19.6	B
EB I-264 CD to EB I-64 (Merge)	310,311	27.7	C	SB Rosemont Rd to EB I-264 (Merge)	537,538	15.1	B
EB I-64 South of I-264 (Freeway)	312,313	32.9	D	NB Rosemont Rd to EB I-264 (Merge)	538,539	13.8	B
WB I-64 South of I-264 (Freeway)	101,102	25.5	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	17.2	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.8	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	31.7	D
WB I-64 to I-264 EB (Diverge)	104,105	25.2	C	WB I-264 to Rosemont Rd (Diverge)	702,703	29.8	D
WB I-64 to WB I-264 CD (Diverge)	105,106	23.0	C	NB Rosemont Rd to WB I-264 (Merge)	704,705	29.3	D
EB I-264 CD to WB I-64 (Merge)	107,108	24.8	C	SB Rosemont Rd to WB I-264 (Merge)	705,706	27.7	C
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	23.0	C	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.9	D
WB I-64 North of I-264 (Freeway)	110,111	22.9	C				



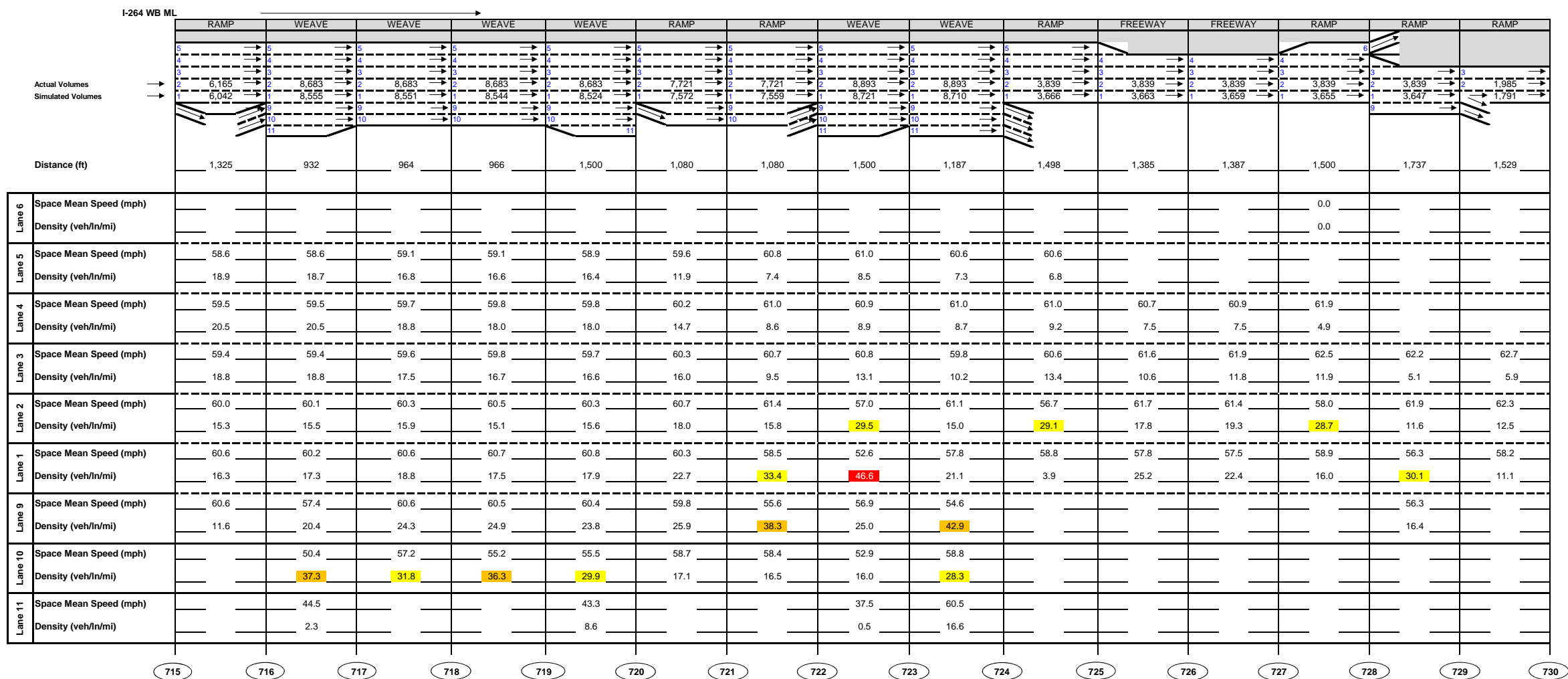
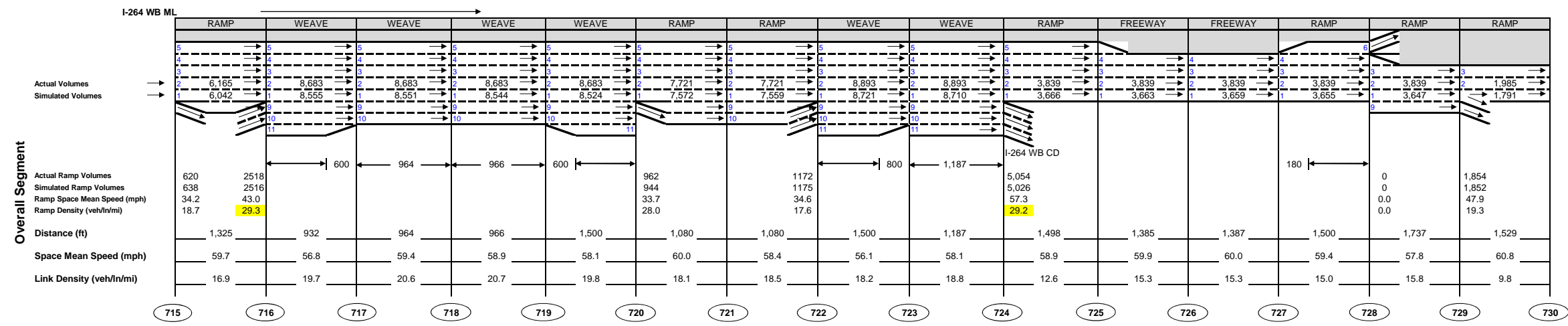
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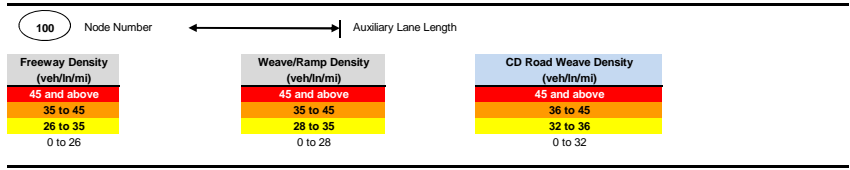


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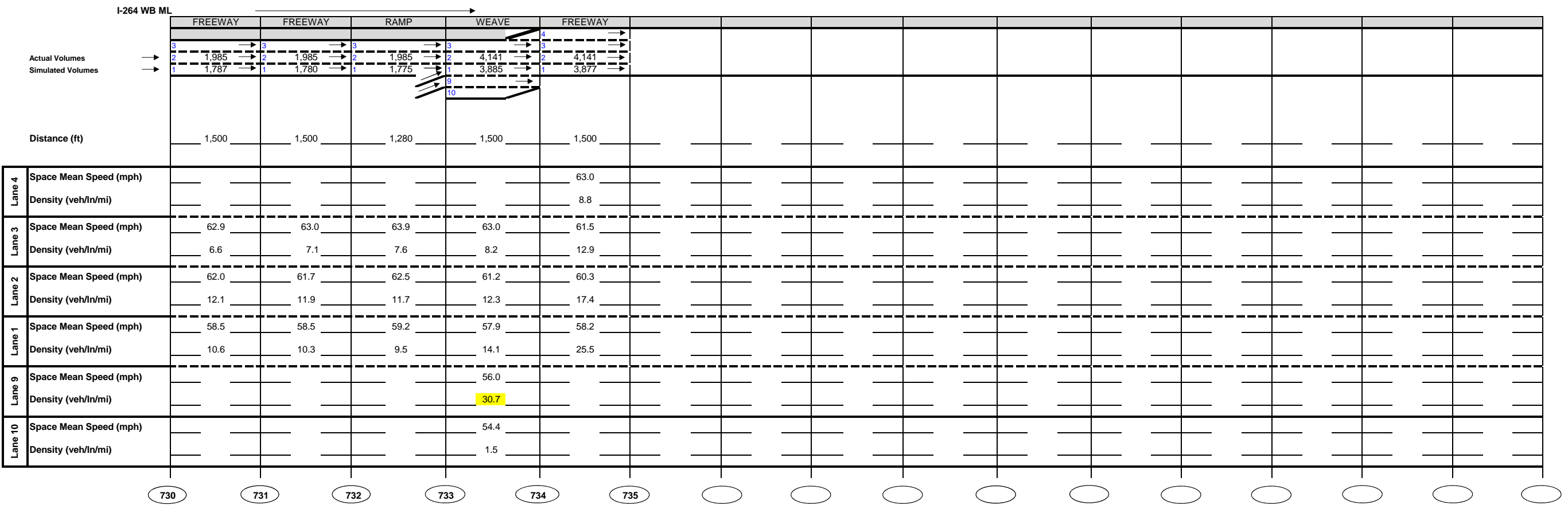
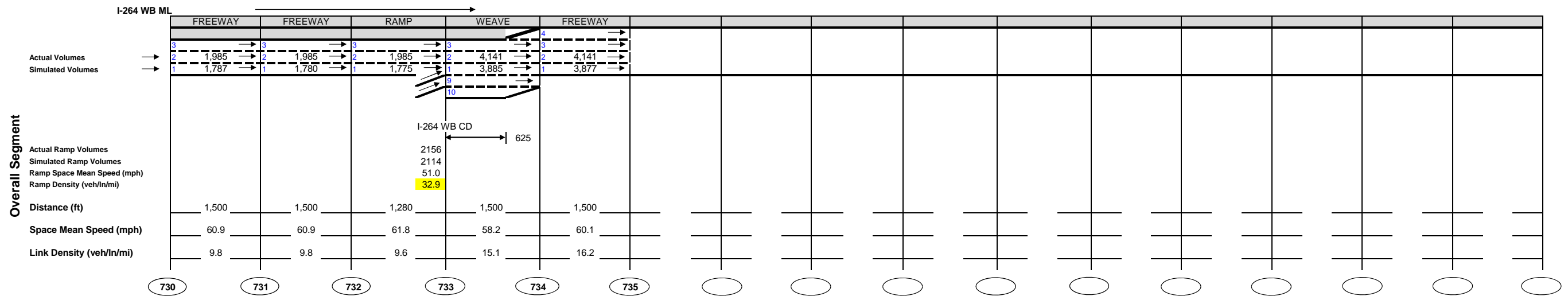




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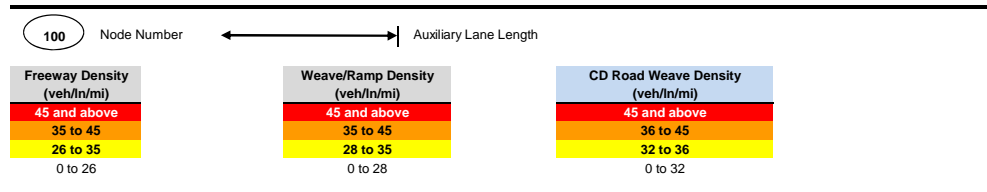


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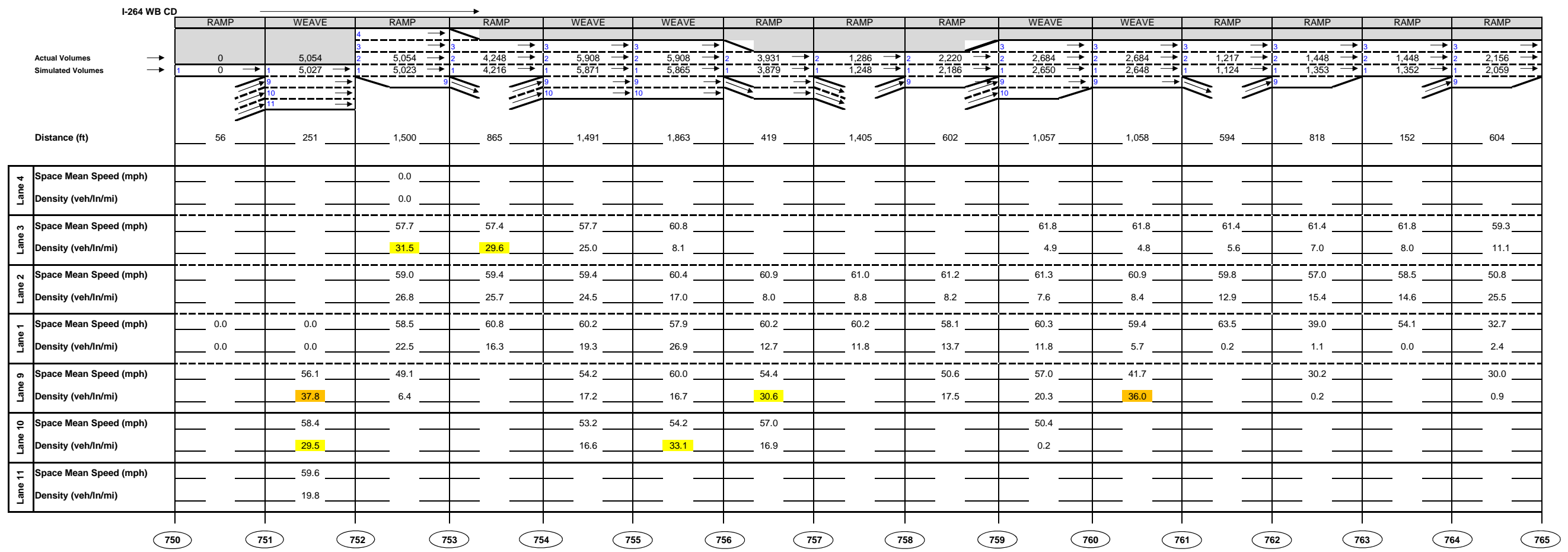
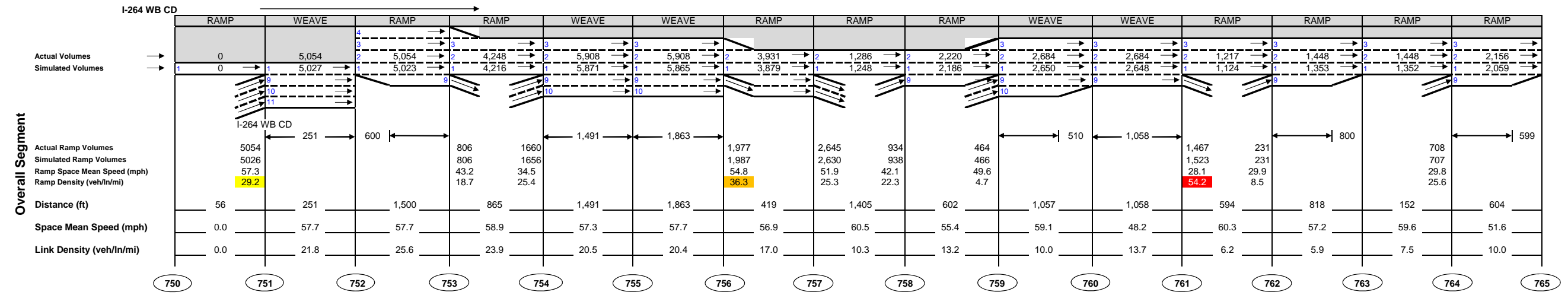
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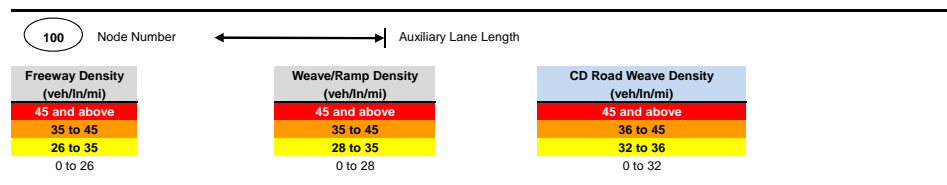
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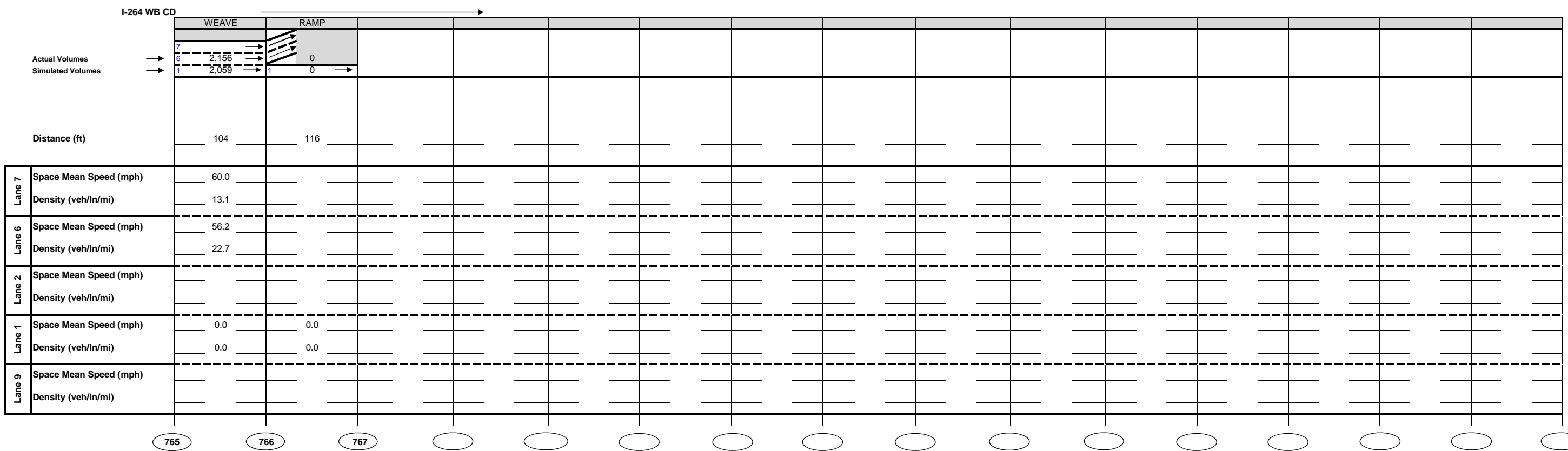
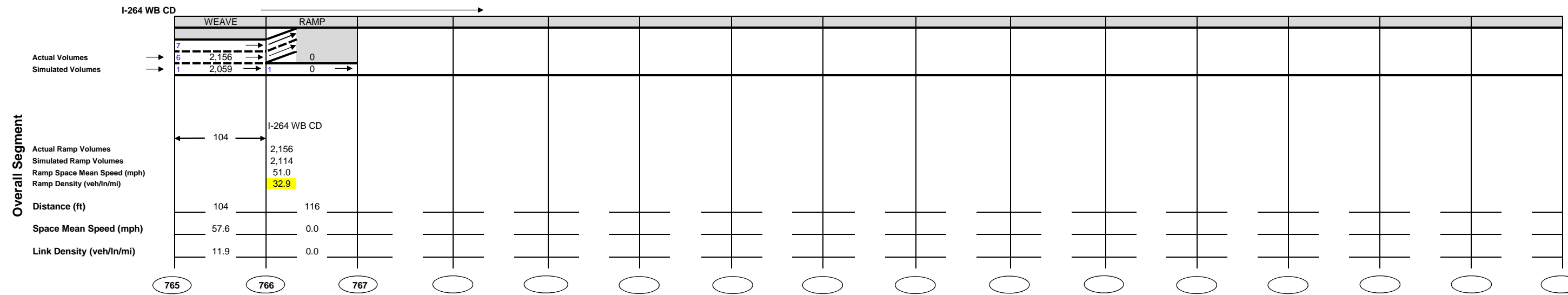


NOTE: numbers in chart are provided for illustrative purposes only

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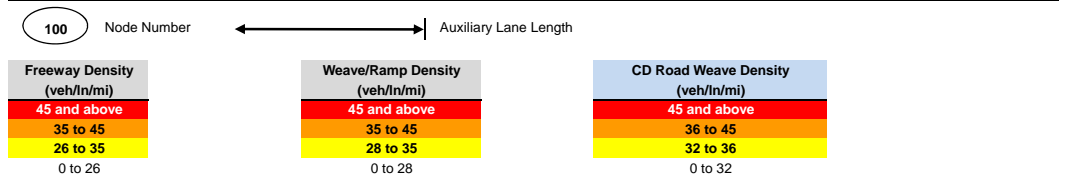


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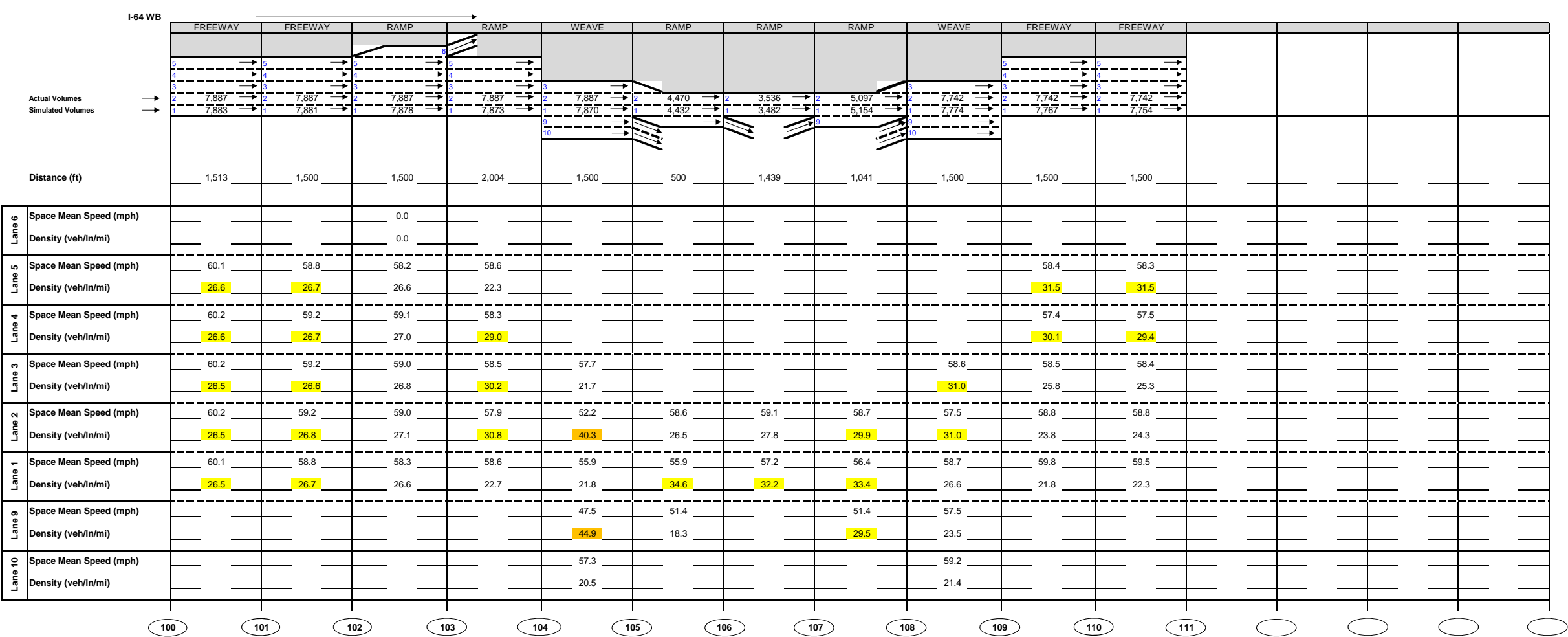
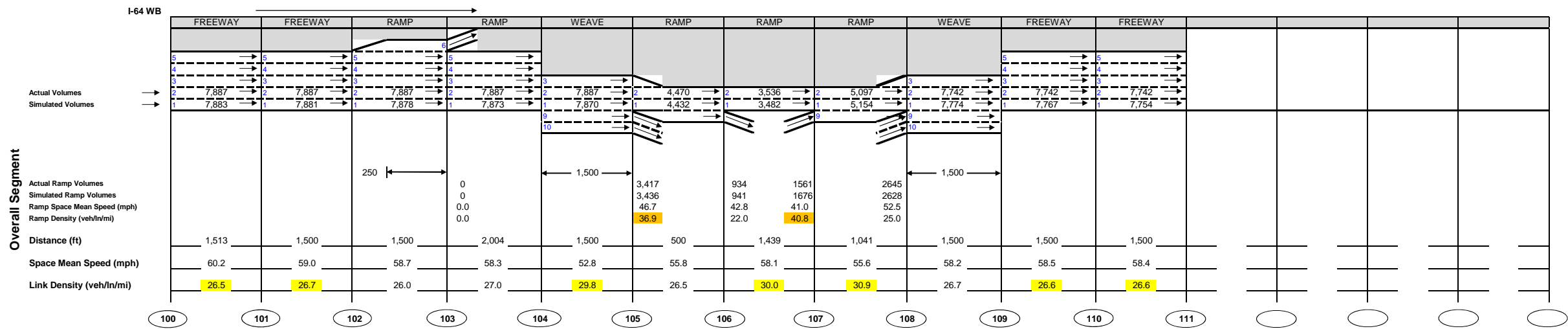
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This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).





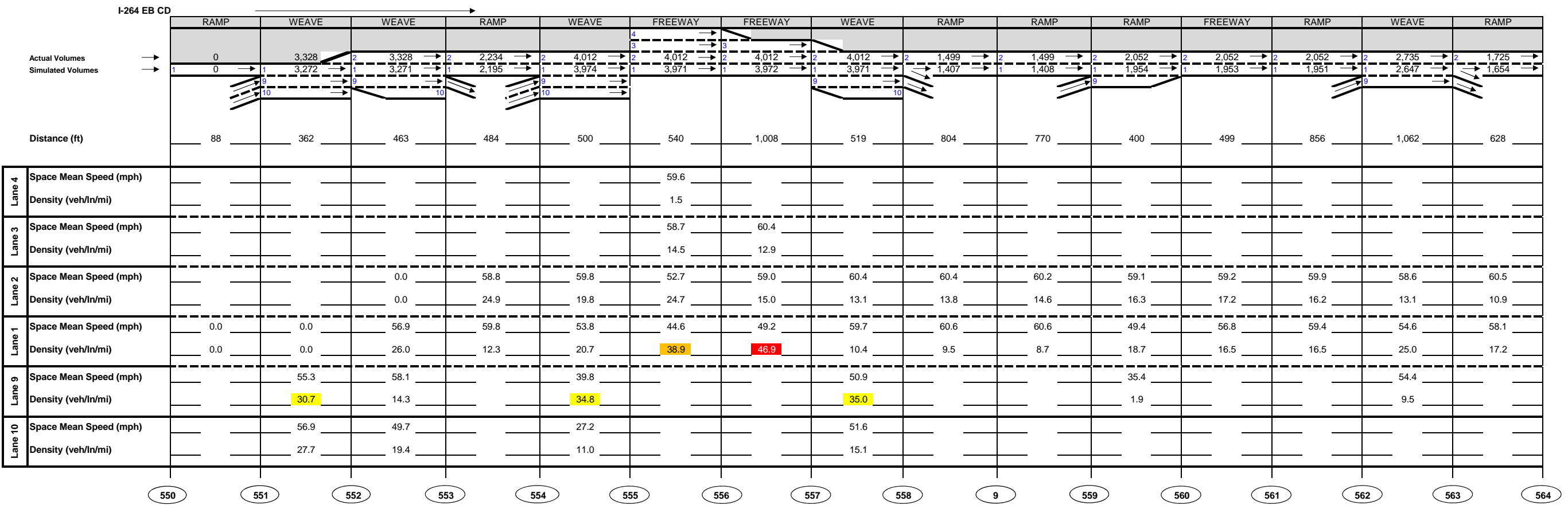
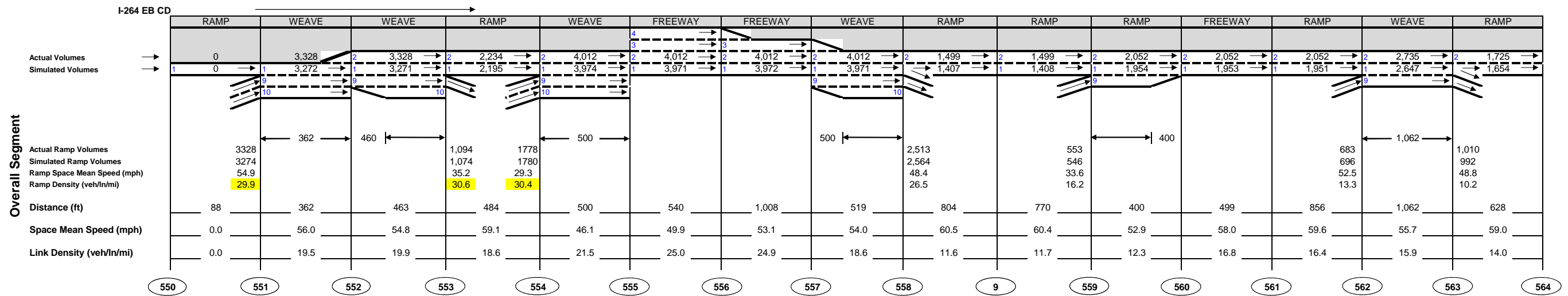
NOTE: numbers in chart are provided for illustrative purposes only

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100 Node Number ← Auxiliary Lane Length

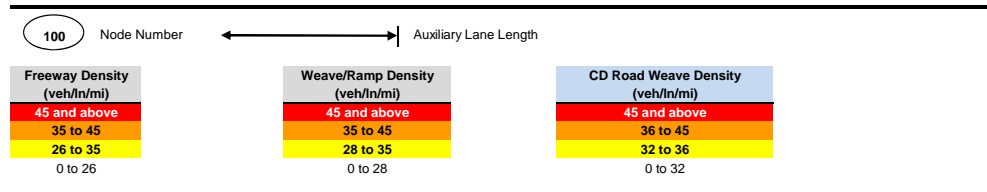
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



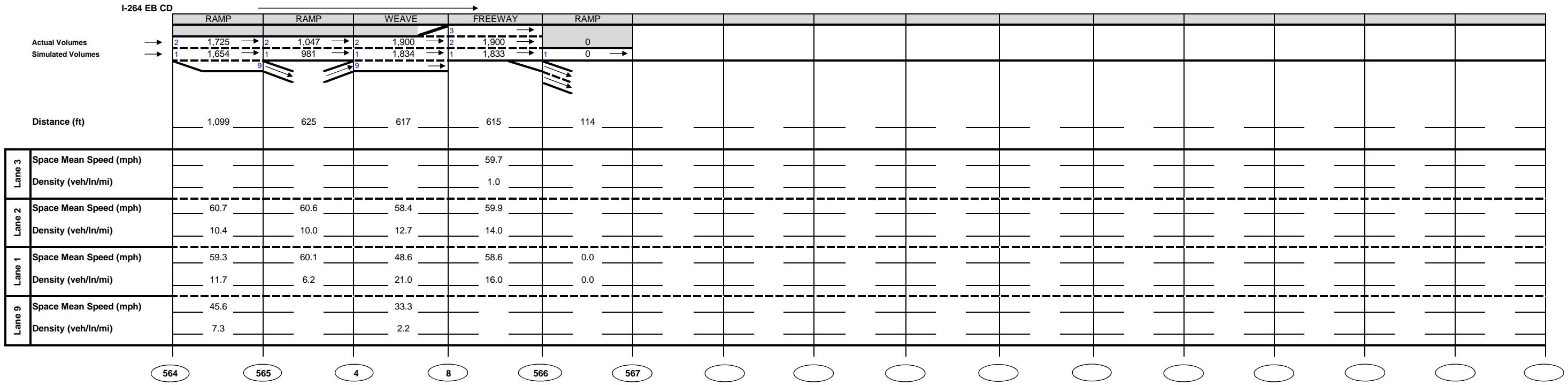
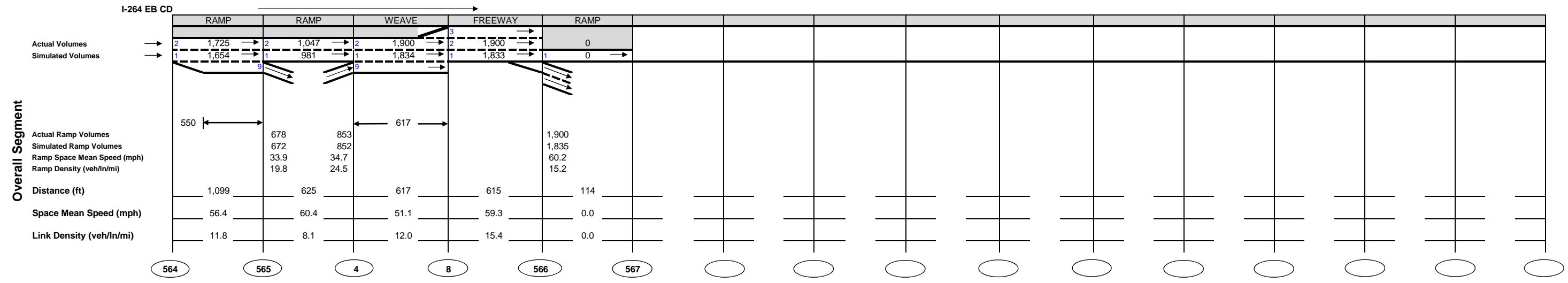
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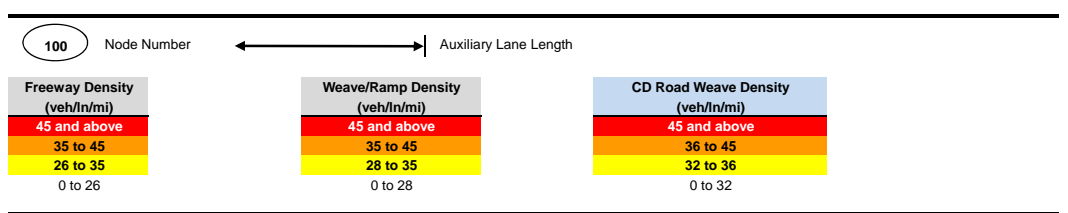
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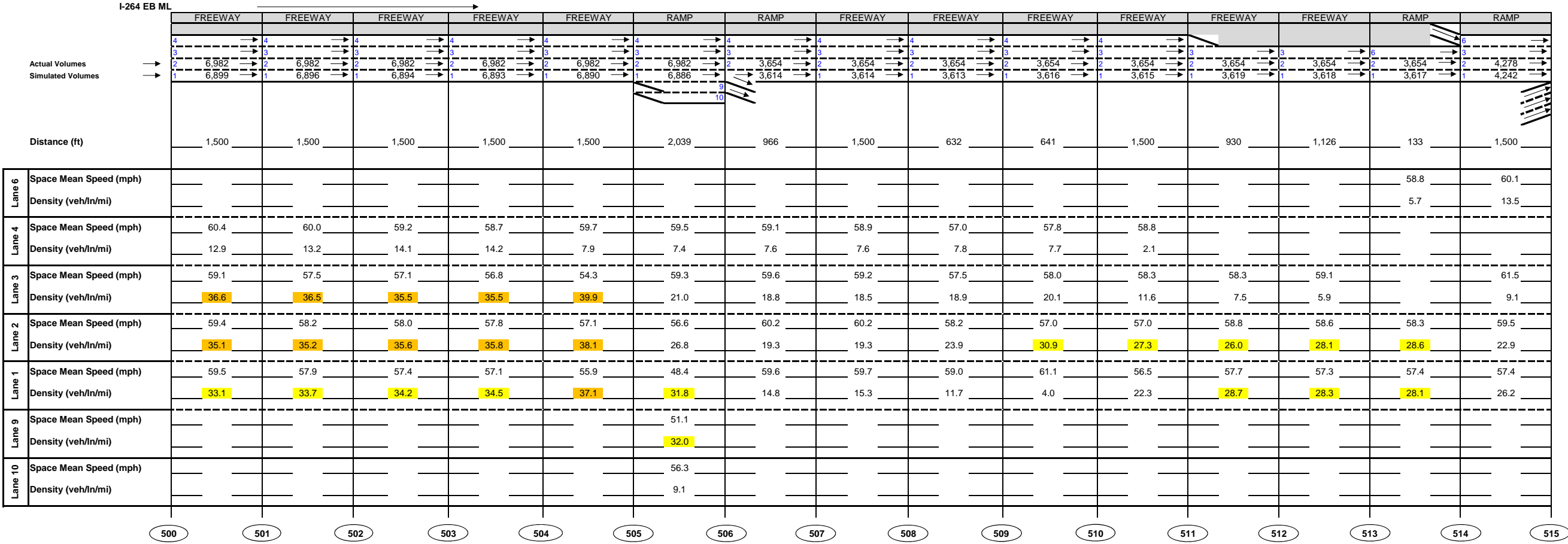
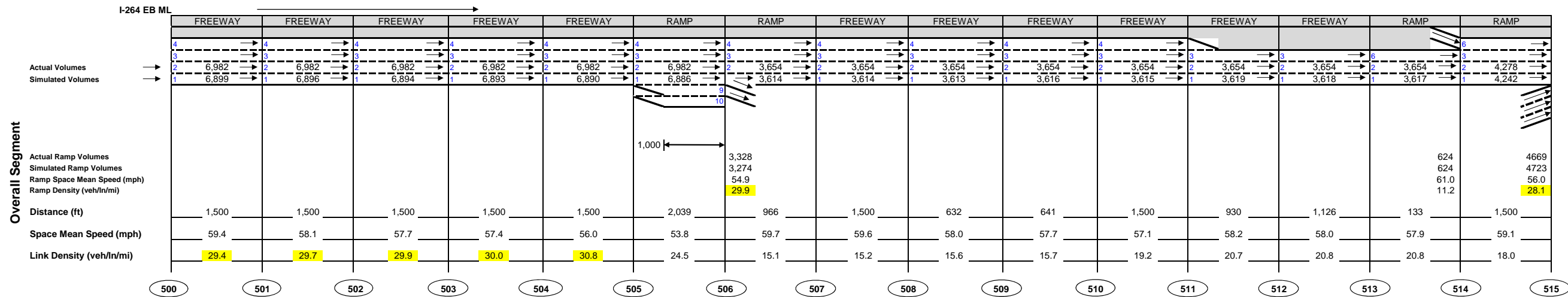
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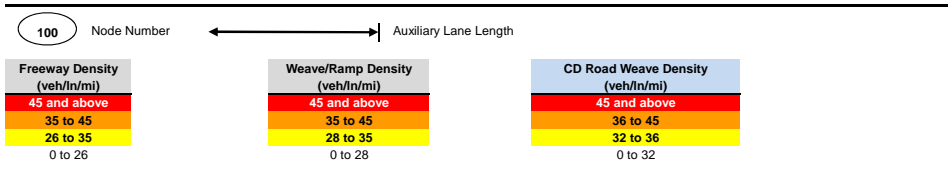
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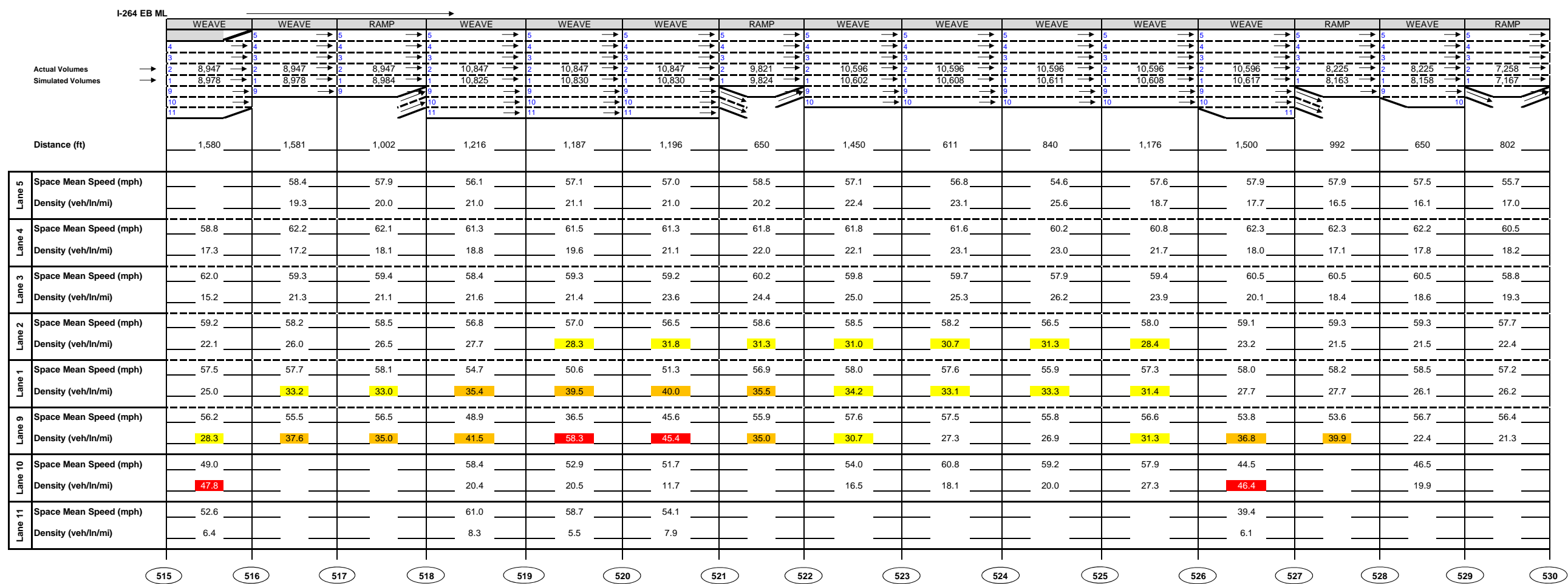
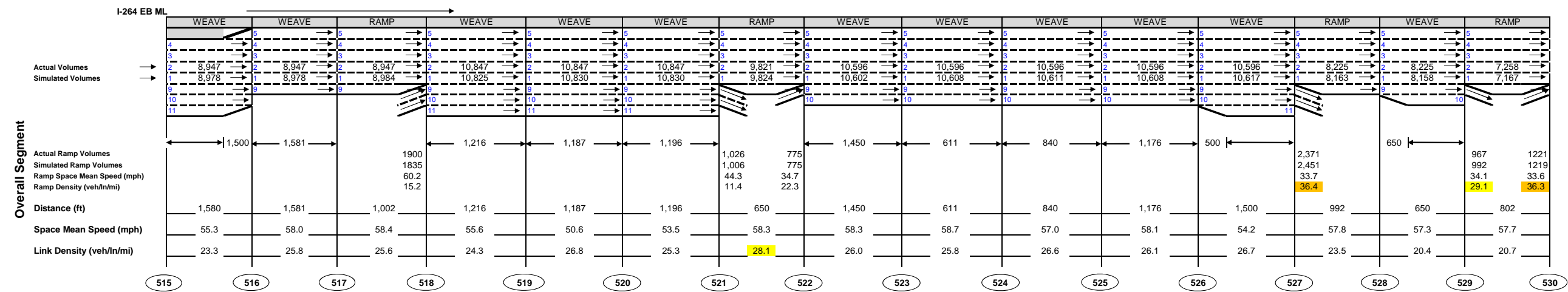
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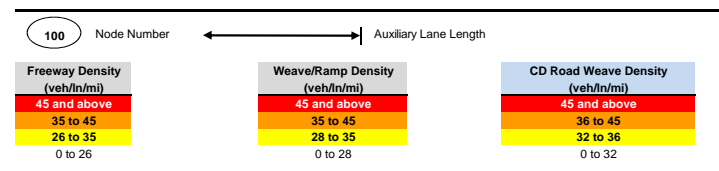
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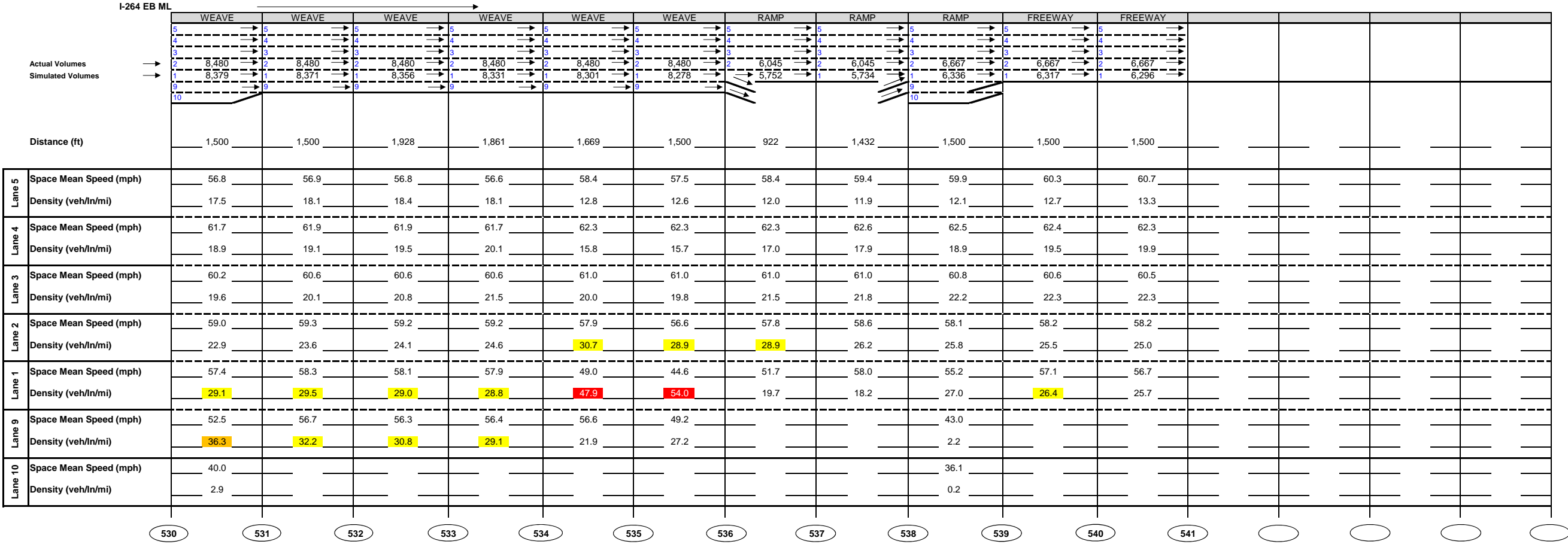
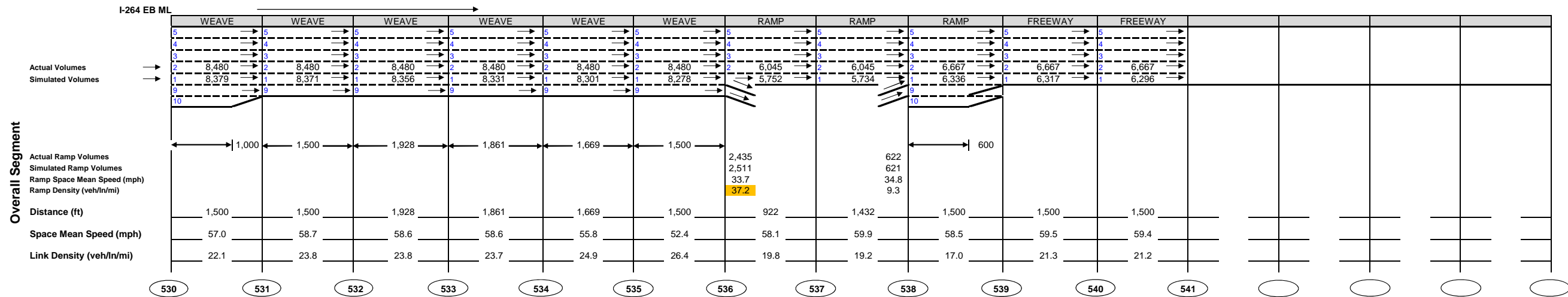


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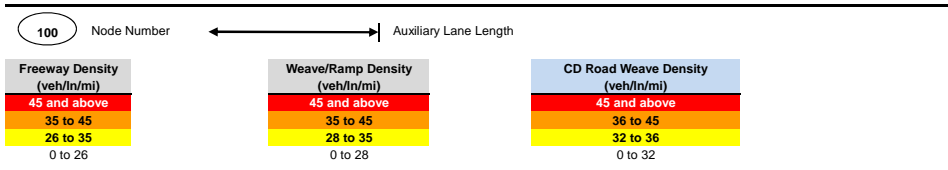


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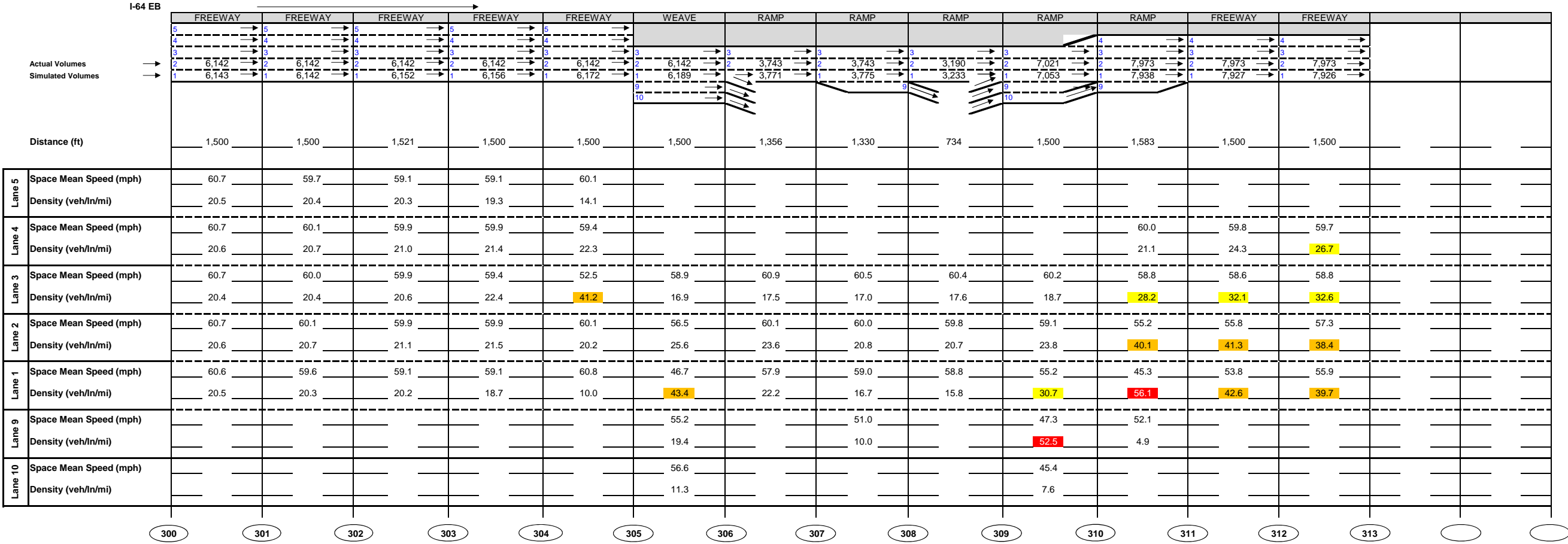
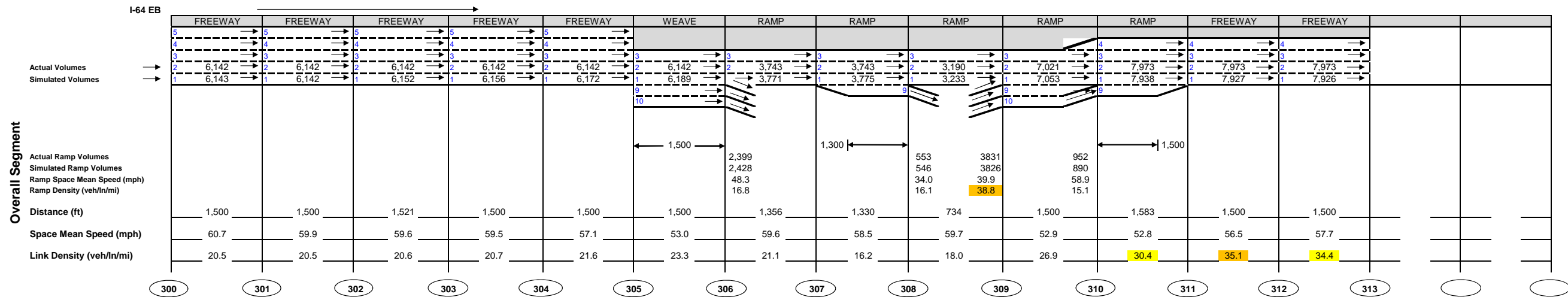
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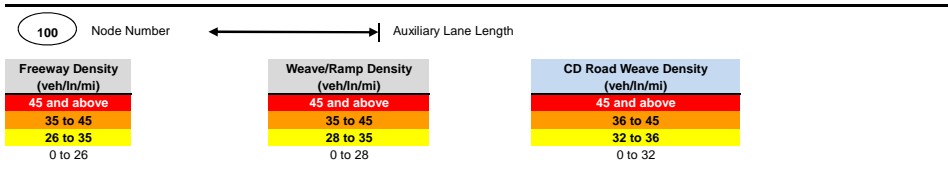
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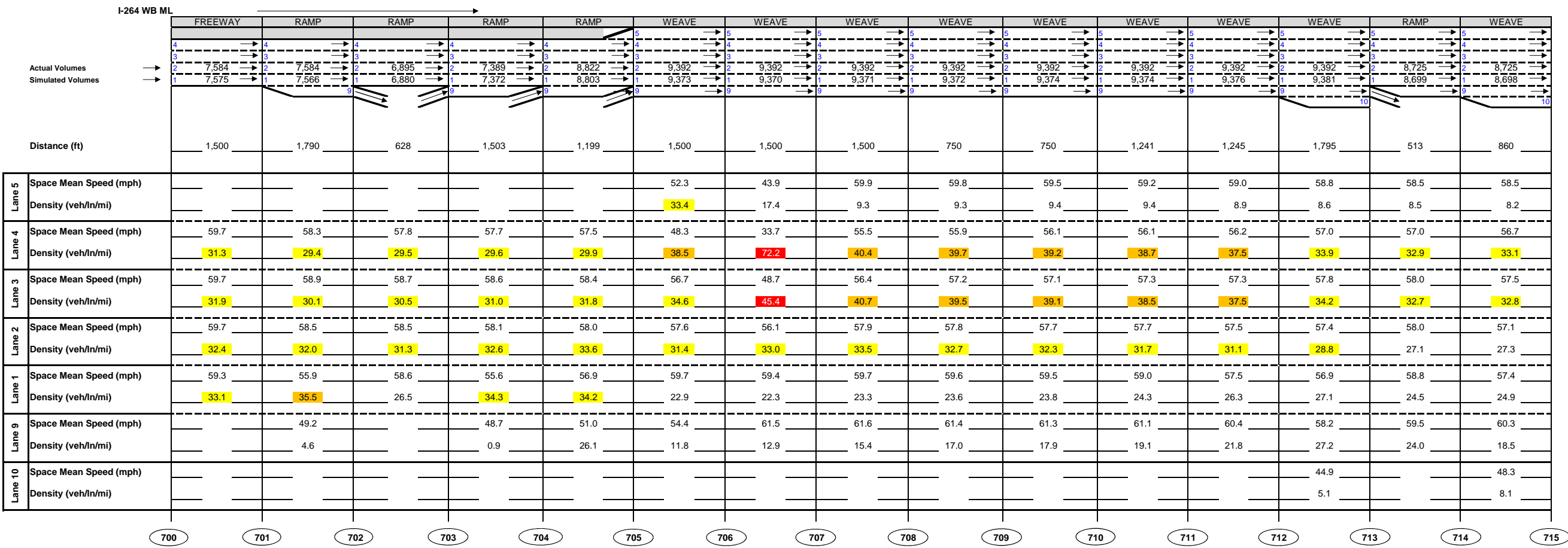
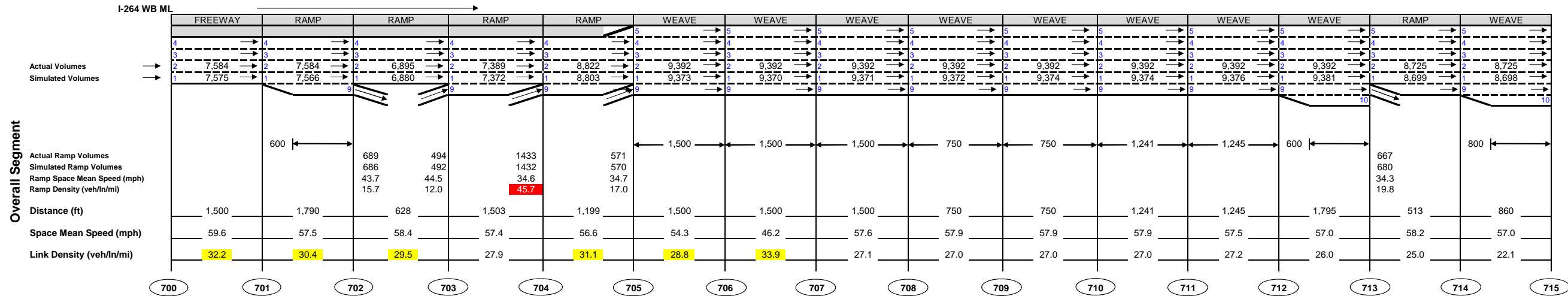


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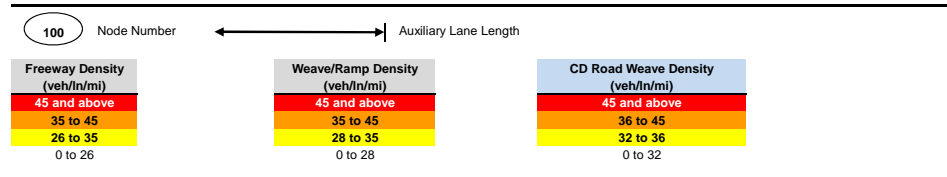
I-64/I-264 Interchange Semi-Directional Build Alternative - Link Descriptions (PM Peak Hour)

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	29.9	D	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	18.0	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	24.5	C	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	20.4	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	19.9	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	11.8	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	21.5	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	25.6	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	24.9	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.3	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.2	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.8	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	9.8	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.4	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.0	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.6	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	13.7	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	20.5	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	5.9	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.3	B
SB Military Hwy to WB I-264 CD (Merge)	764,765	10.0	A	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	15.1	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.3	C
WB I-264 West of Military Hwy (Freeway)	734,735	16.2	B	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	26.0	C
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.1	D
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.2	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.7	C
EB I-264 CD to EB I-64 (Diverge)	557,558	18.6	B	WB I-264 to Witchduck Rd (Diverge)	719,720	19.8	B
EB/WB I-64 & EB I-264 CD (Weave)	559,560	12.3	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.8	C
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	16.4	B	Independence Boulevard Interchange			
EB/WB I-64 to I-264 EB ML (Merge)	515,516	23.3	C	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.1	D
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.3	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	26.7	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	15.0	B	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	20.4	C
WB I-264 ML to EB I-64 (Diverge)	728,729	15.8	B	NB Independence Blvd to EB I-264 (Merge)	530,531	22.1	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to EB I-64 (Weave)	755,756	20.4	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.7	C
WB I-264 CD to I-64 WB (Diverge)	757,758	10.3	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.8	C
WB I-64 to WB I-264 CD (Merge)	758,759	13.2	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	19.9	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.0	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	16.5	B
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	9.8	A	SB Independence Blvd to WB I-264 (Merge)	716,717	19.7	B
EB I-64 North of I-264 (Freeway)	301,302	20.5	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.7	C
EB I-64 to I-264 EB/WB (Diverge)	305,306	23.3	C	Rosemont Road Interchange			
EB I-64 to I-264 EB CD (Diverge)	307,308	16.2	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.7	C
WB I-264 ML to EB I-64 (Merge)	309,310	26.9	C	EB I-264 to Rosemont Rd (Diverge)	535,536	26.4	C
EB I-264 CD to EB I-64 (Merge)	310,311	30.4	D	SB Rosemont Rd to EB I-264 (Merge)	537,538	19.2	B
EB I-64 South of I-264 (Freeway)	312,313	34.4	D	NB Rosemont Rd to EB I-264 (Merge)	538,539	17.0	B
WB I-64 South of I-264 (Freeway)	101,102	26.7	D	EB I-264 East of Rosemont Rd (Freeway)	540,541	21.2	C
WB I-64 to I-64 WB HOV (Diverge)	102,103	26.0	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	26.6	D
WB I-64 to I-264 EB (Diverge)	104,105	29.8	D	WB I-264 to Rosemont Rd (Diverge)	702,703	24.9	C
WB I-64 to WB I-264 CD (Diverge)	105,106	26.5	C	NB Rosemont Rd to WB I-264 (Merge)	704,705	23.9	C
EB I-264 CD to WB I-64 (Merge)	107,108	30.9	D	SB Rosemont Rd to WB I-264 (Merge)	705,706	21.5	C
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	26.7	C	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.8	C
WB I-64 North of I-264 (Freeway)	110,111	26.6	D				



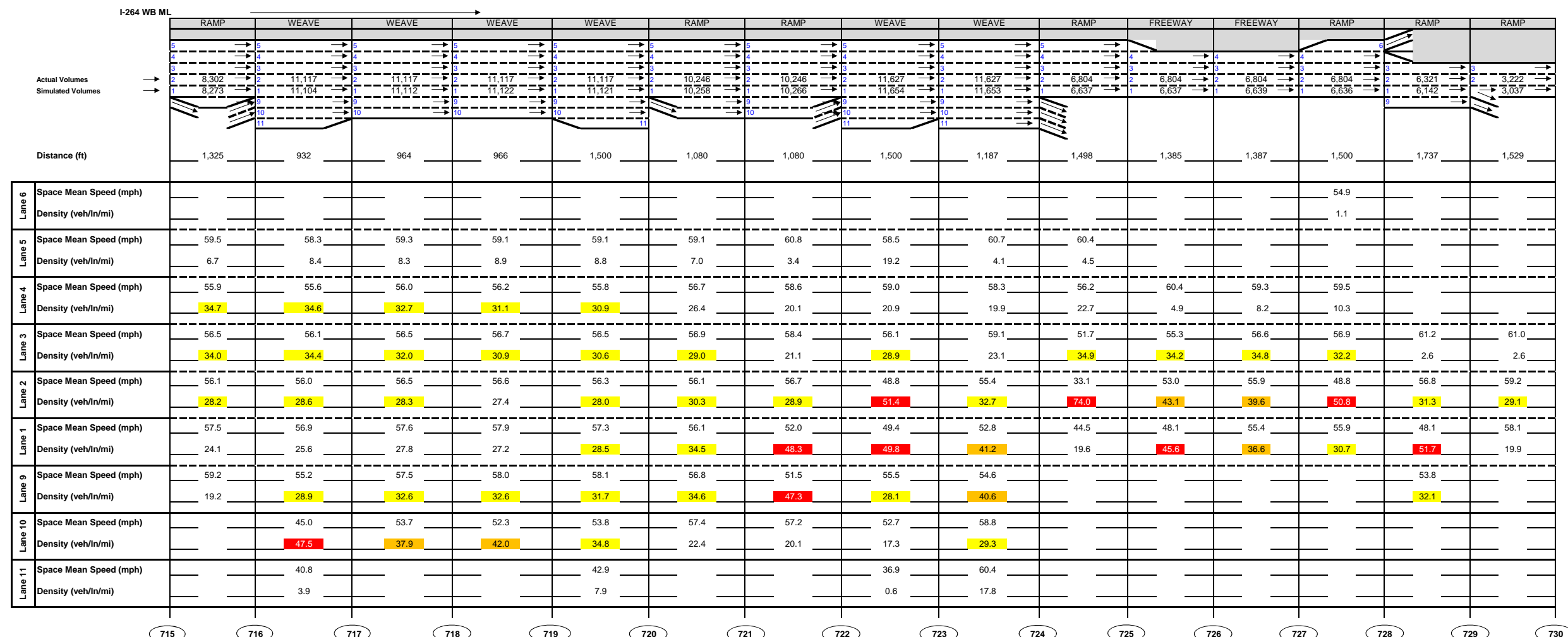
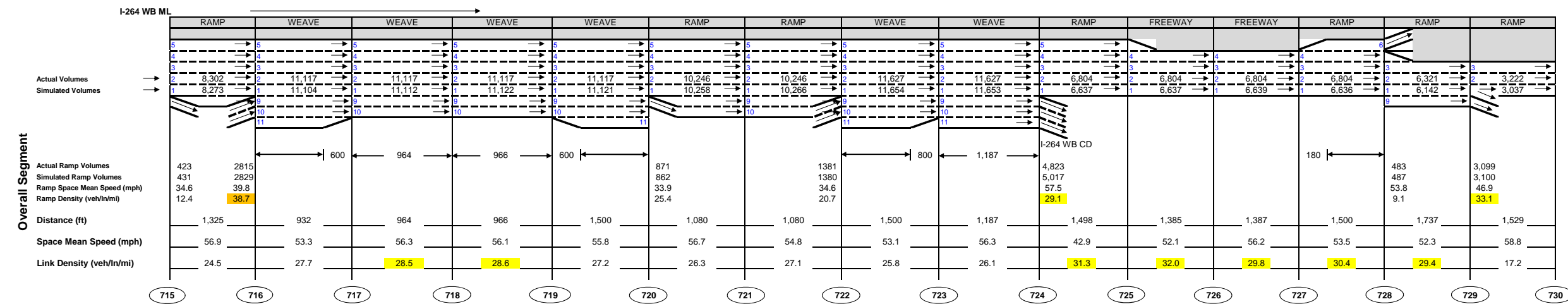
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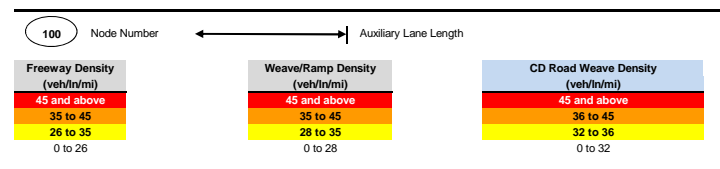
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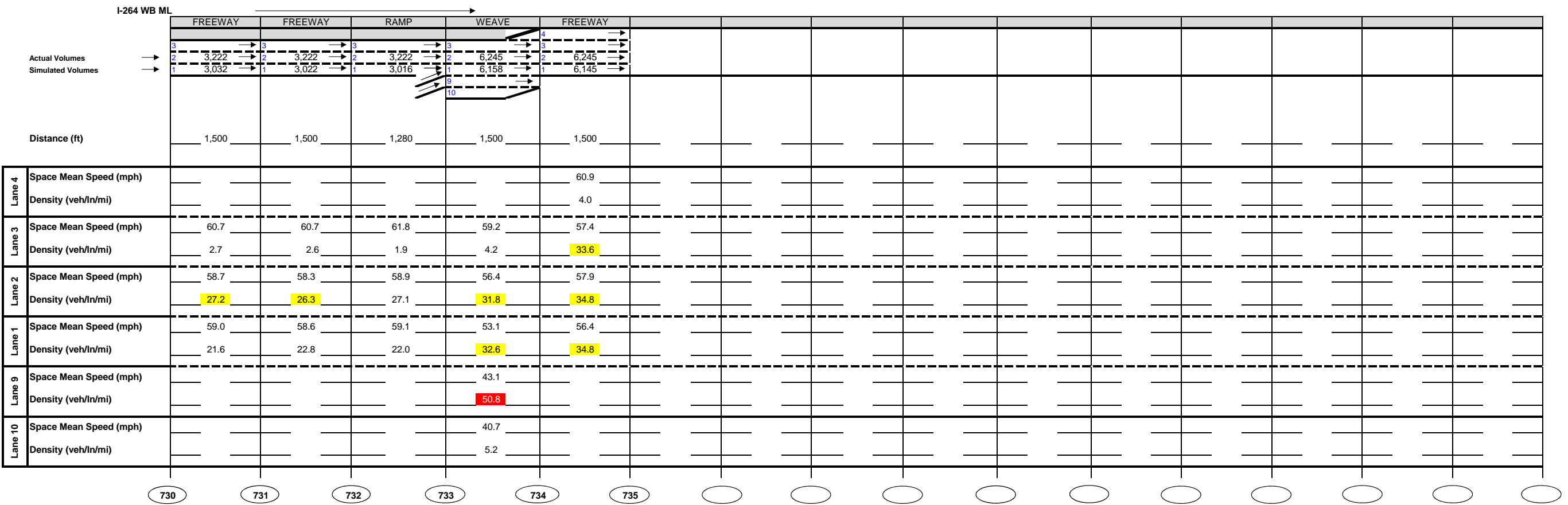
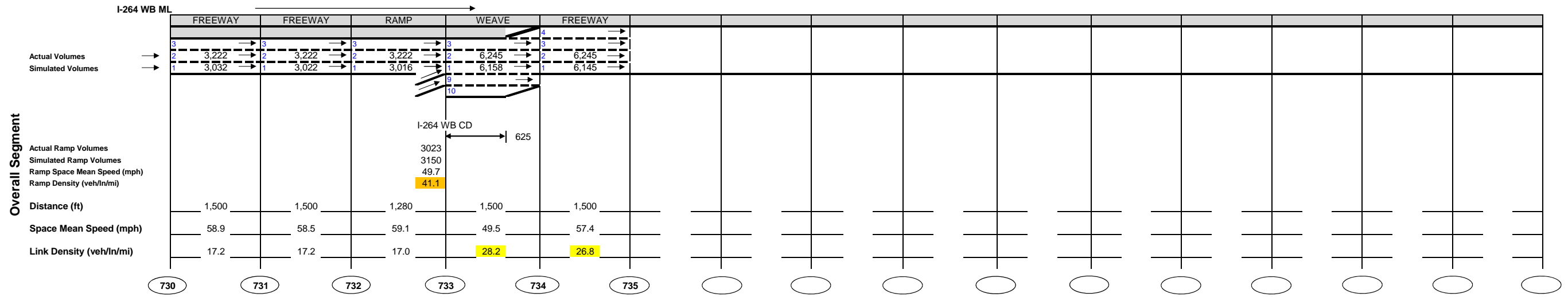


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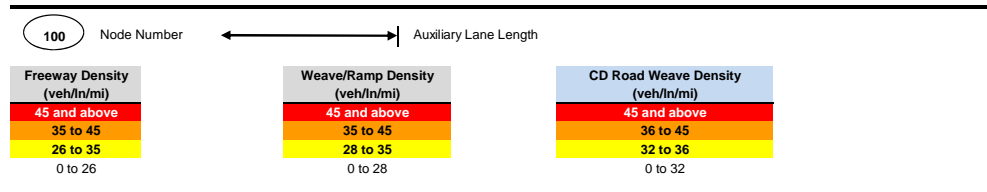


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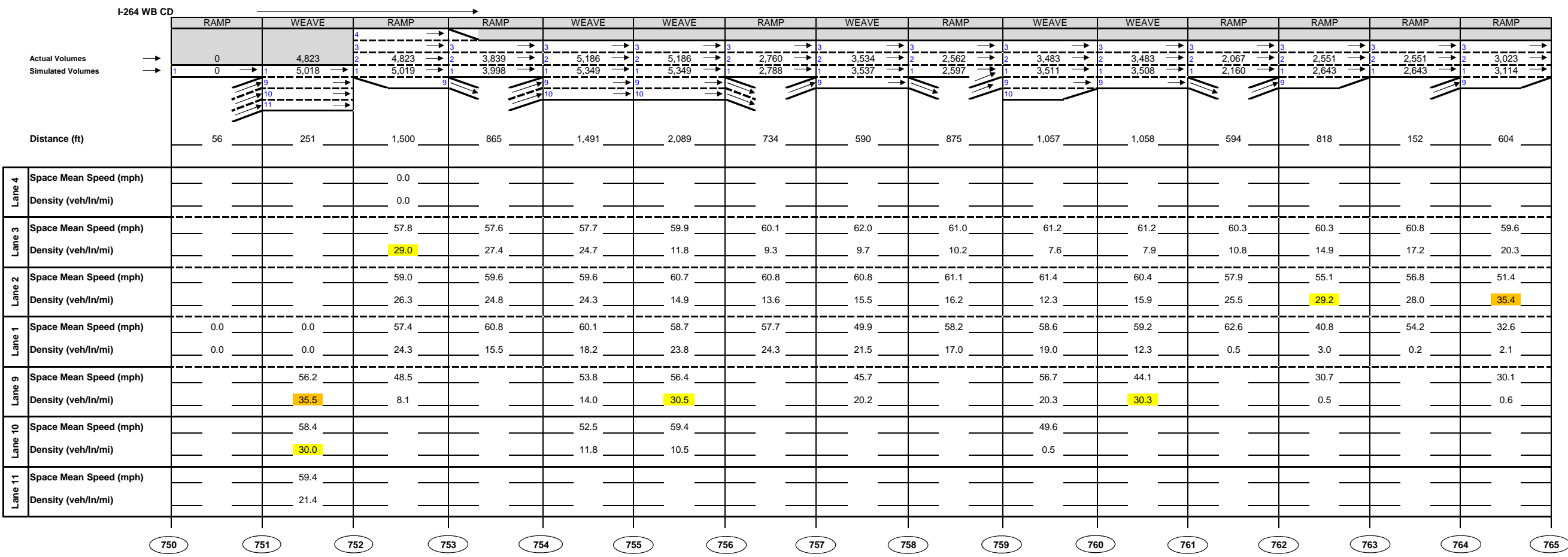
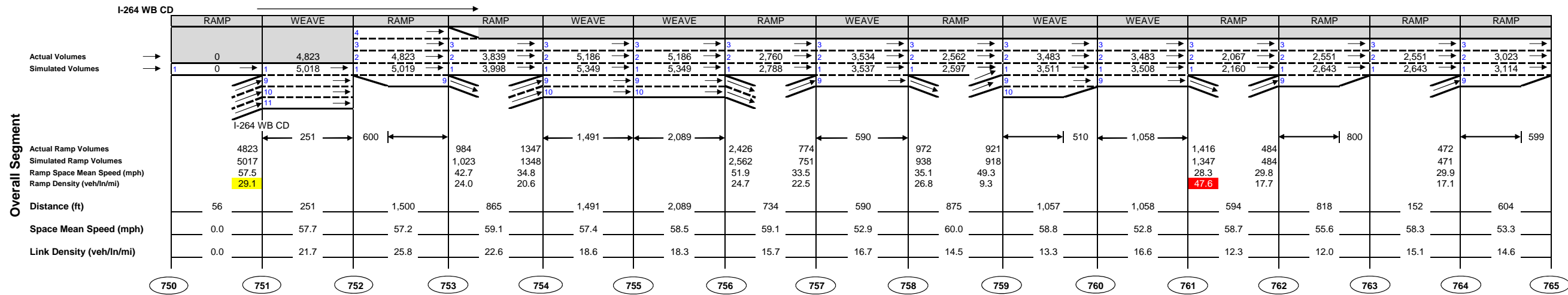
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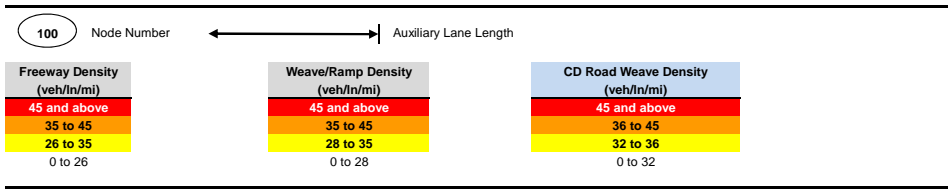
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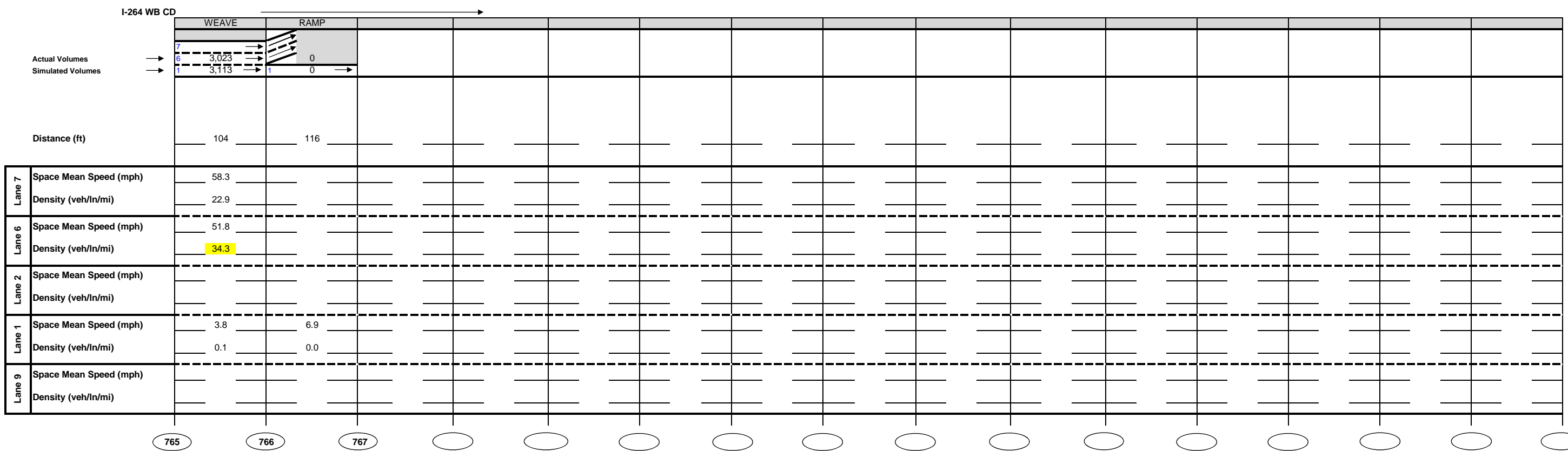
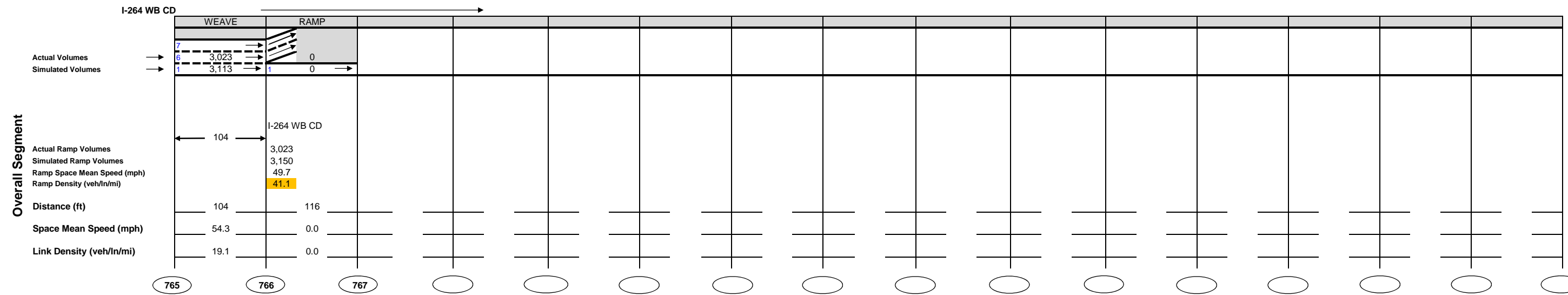
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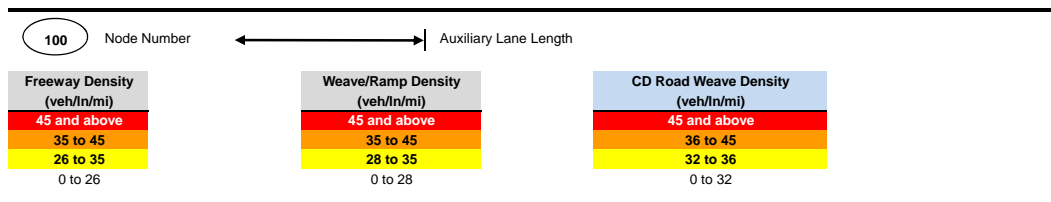
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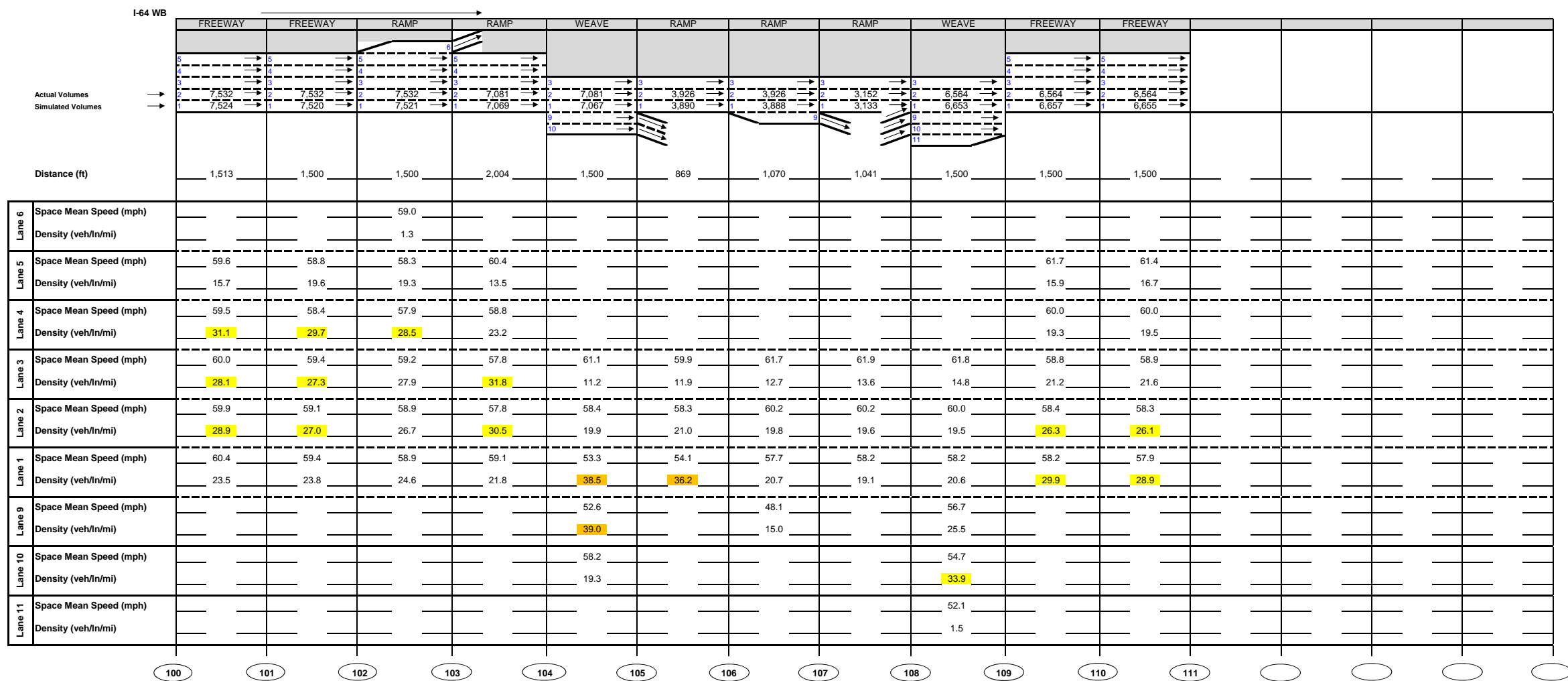
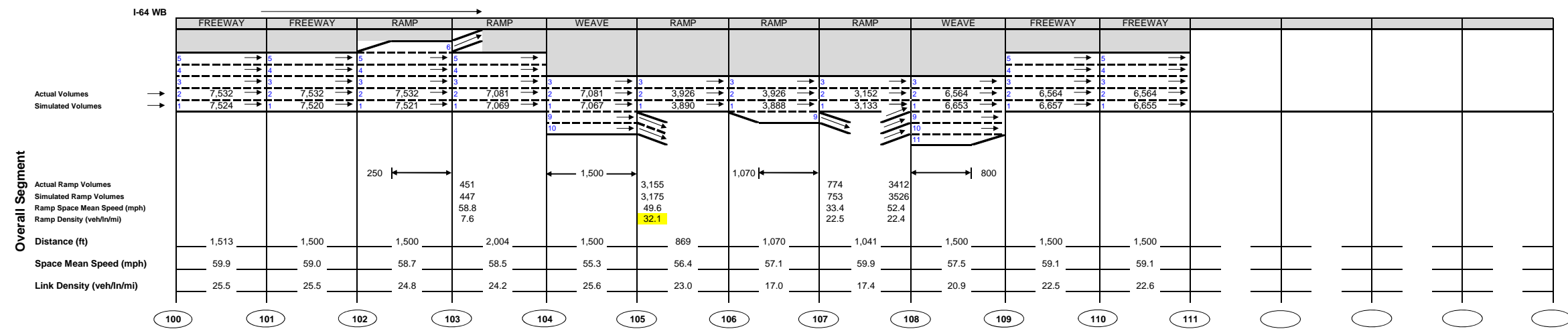
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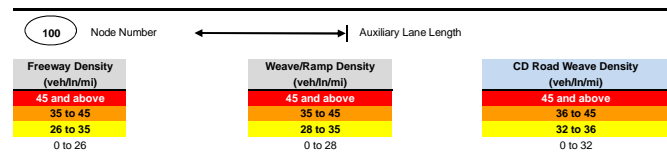
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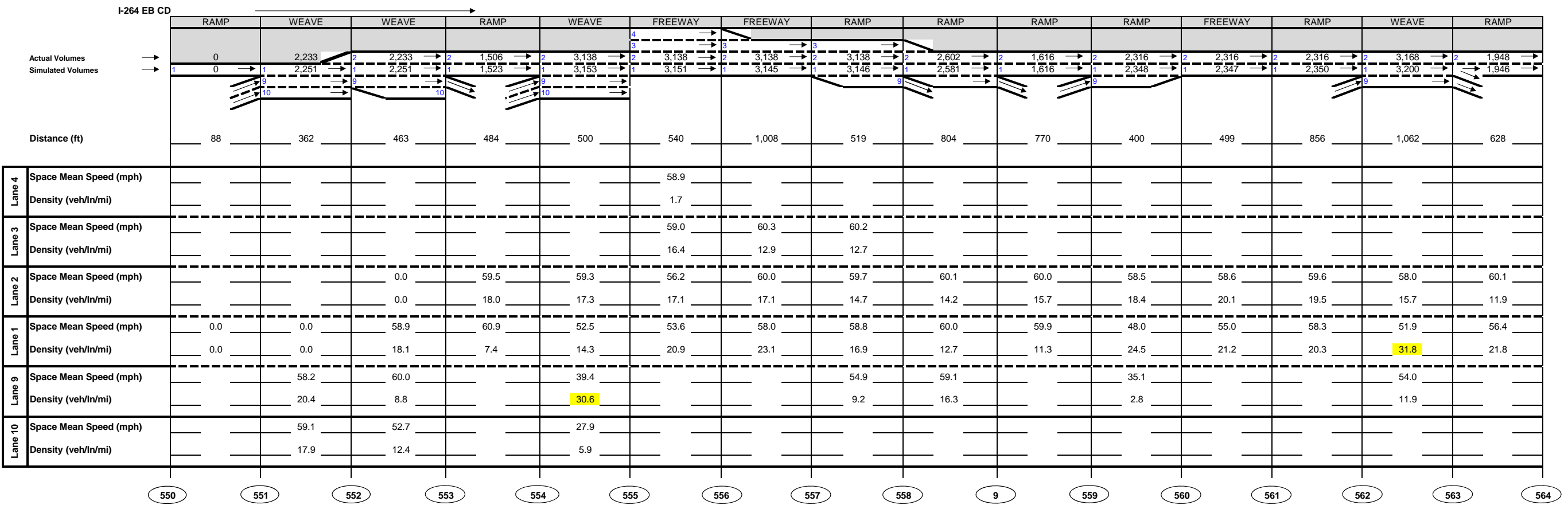
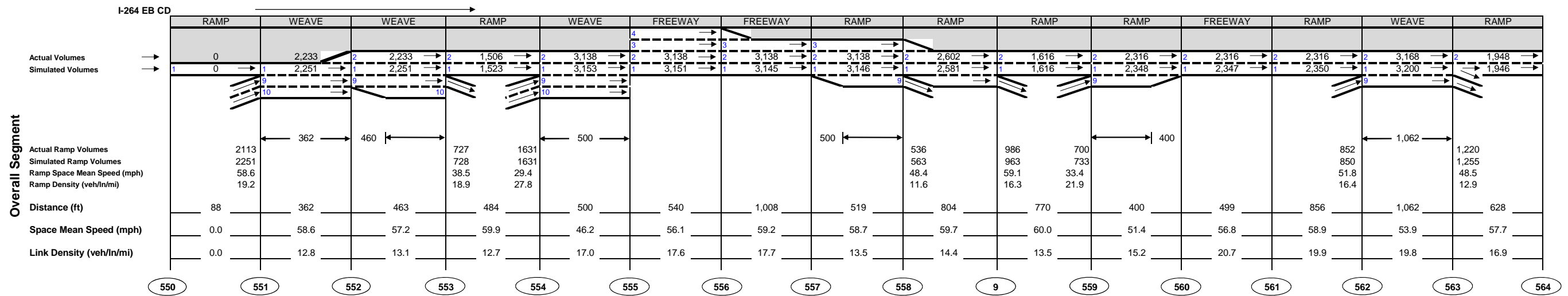


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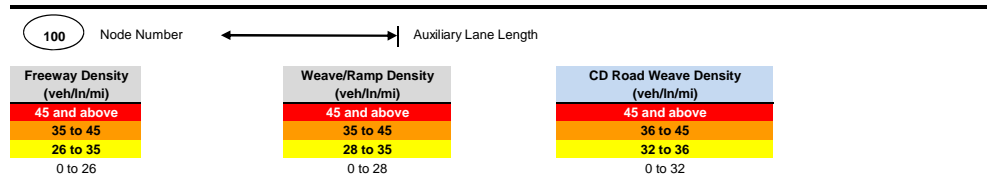


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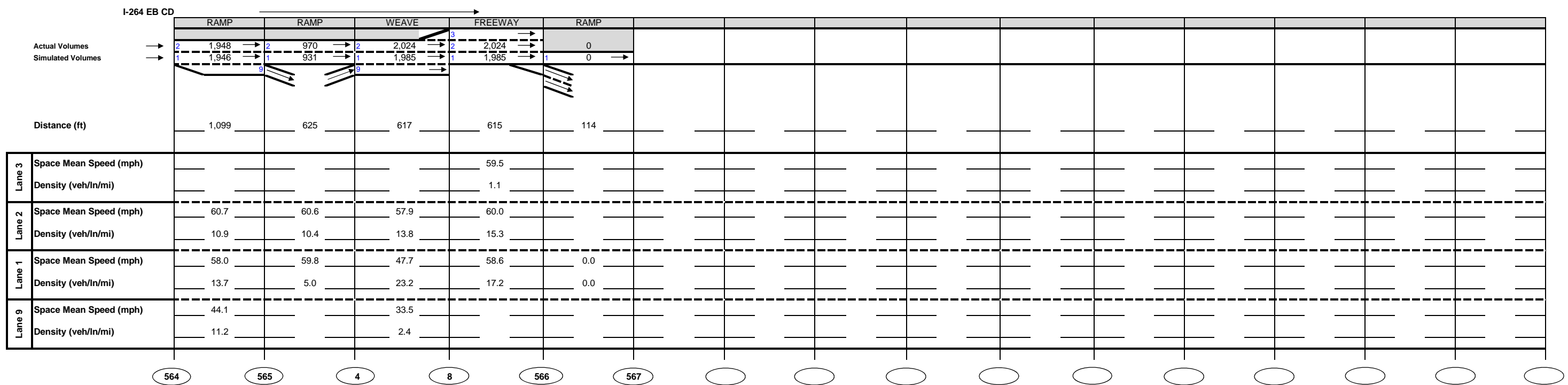
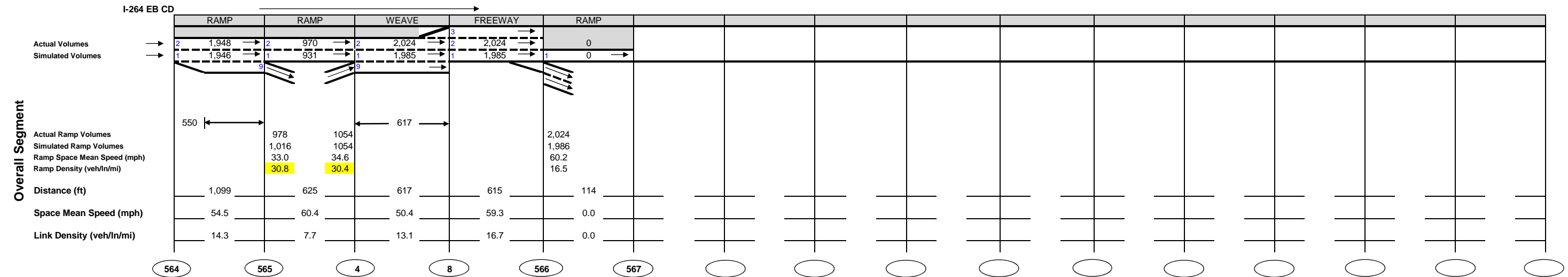
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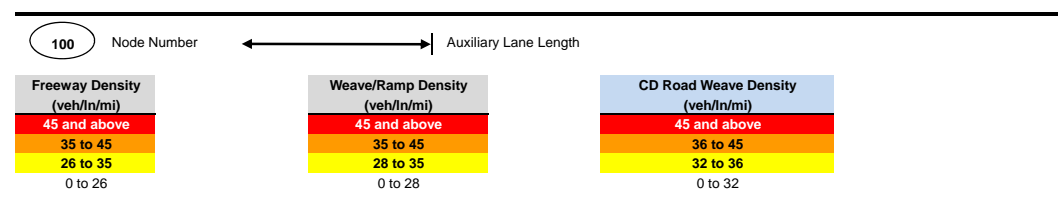
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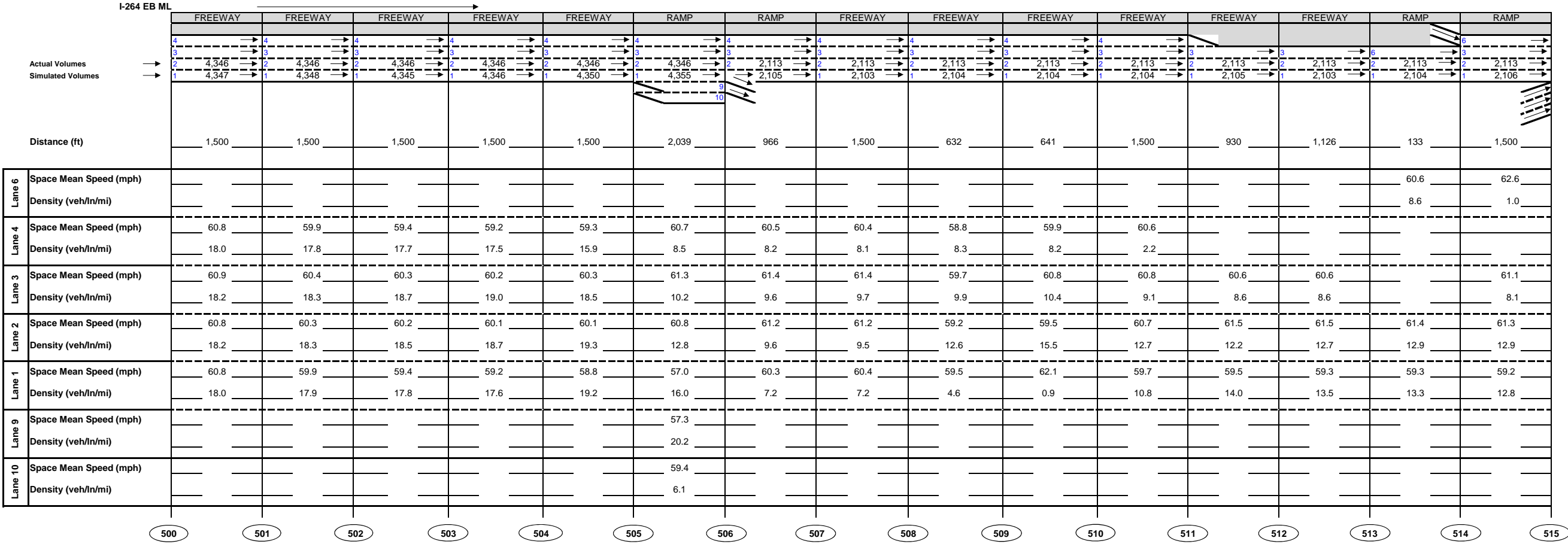
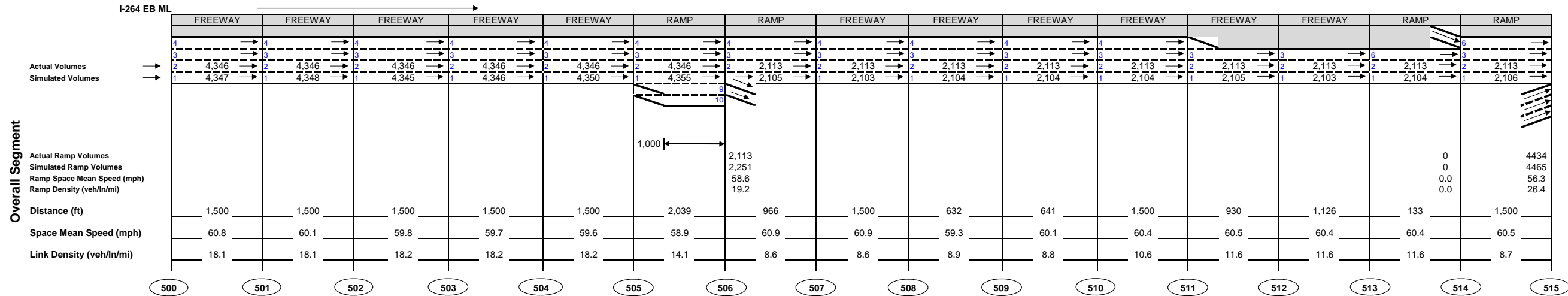
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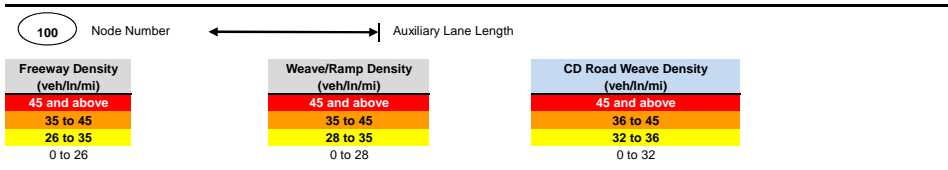
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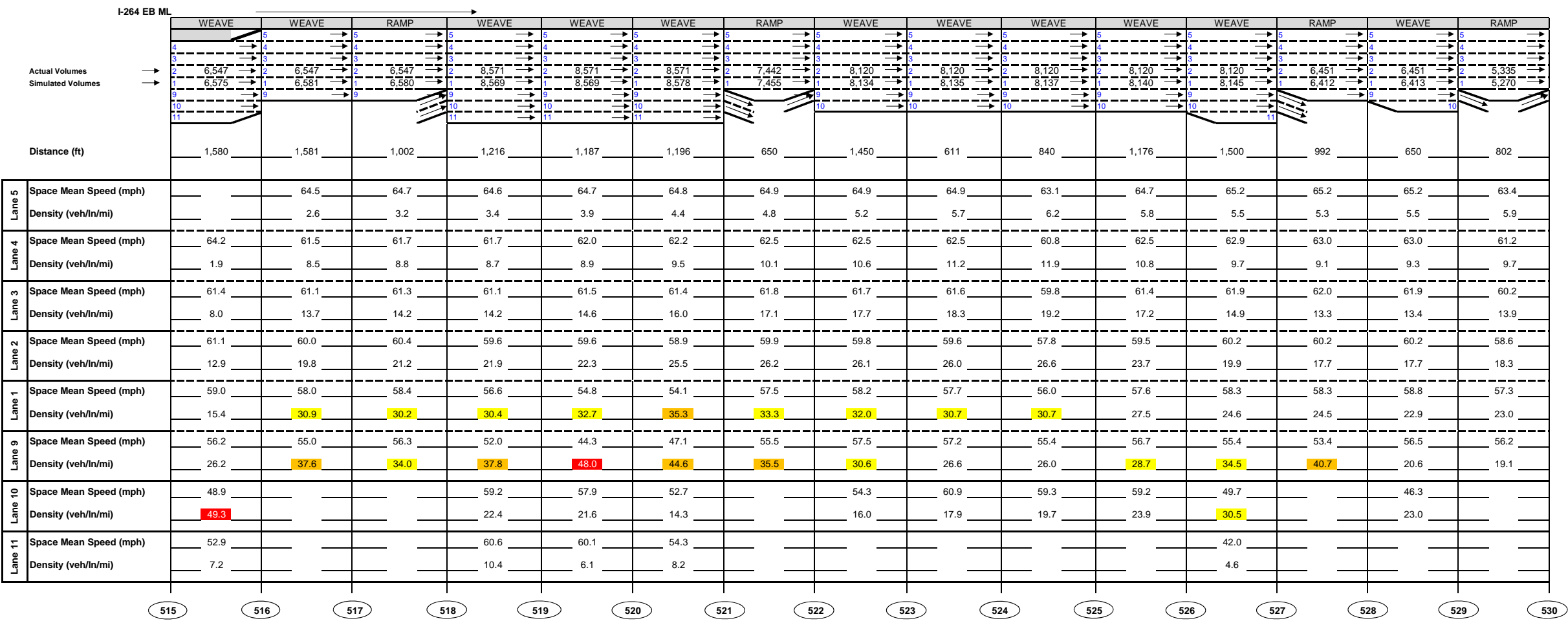
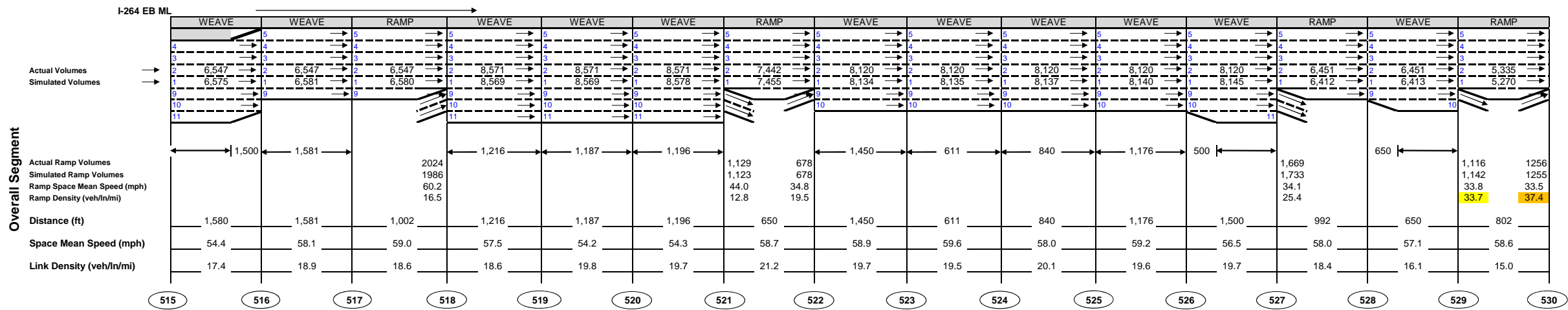
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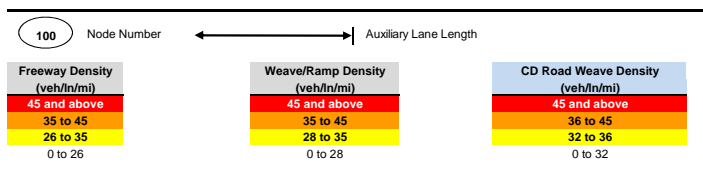
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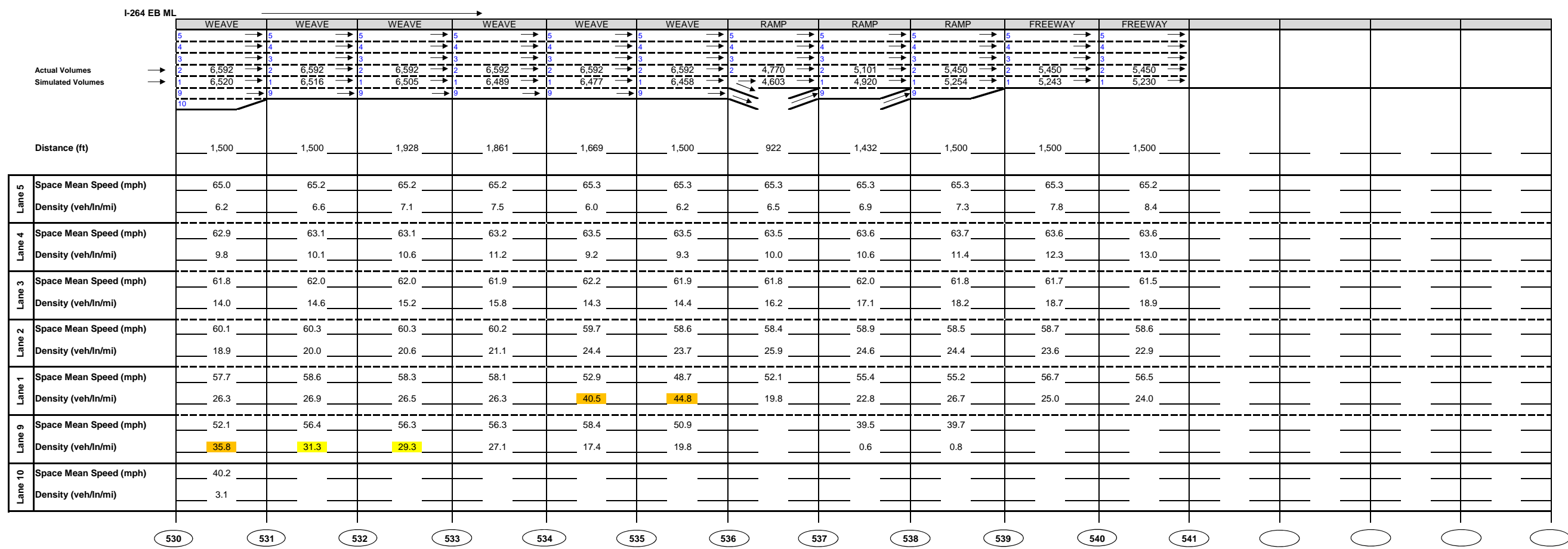
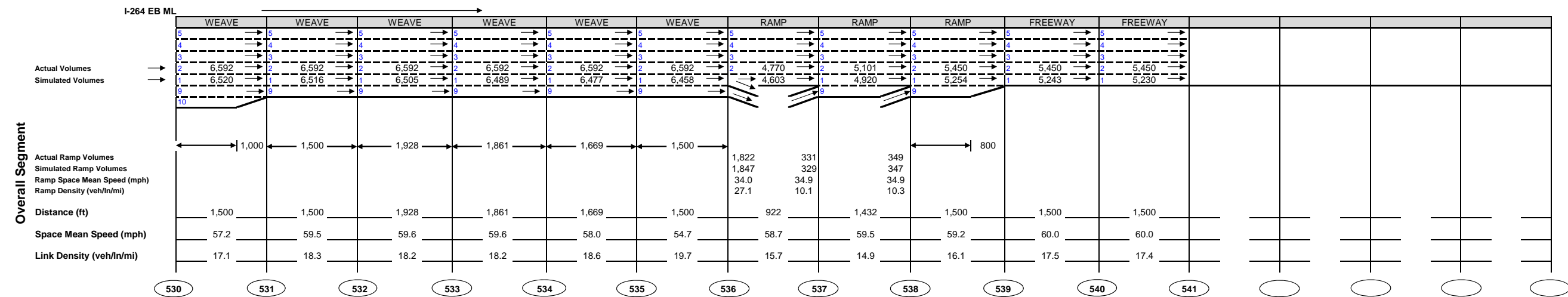
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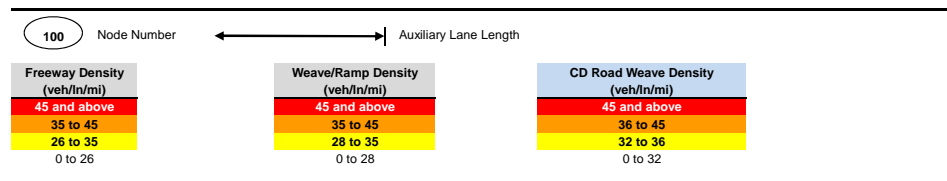
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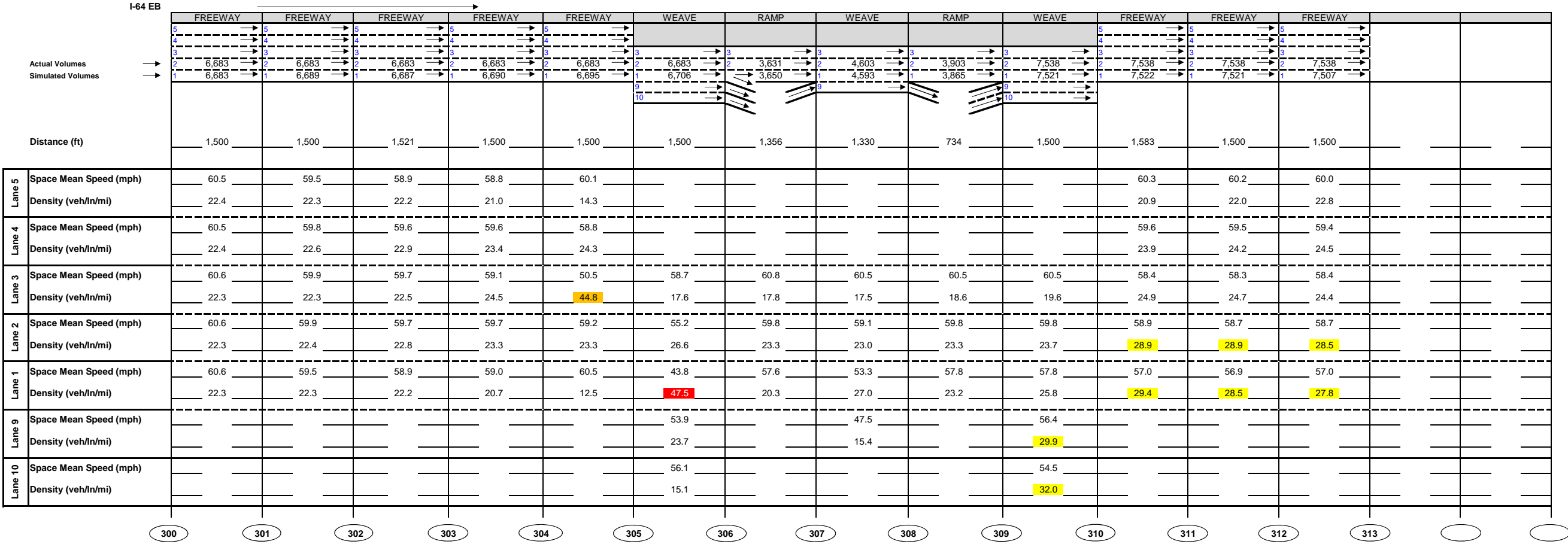
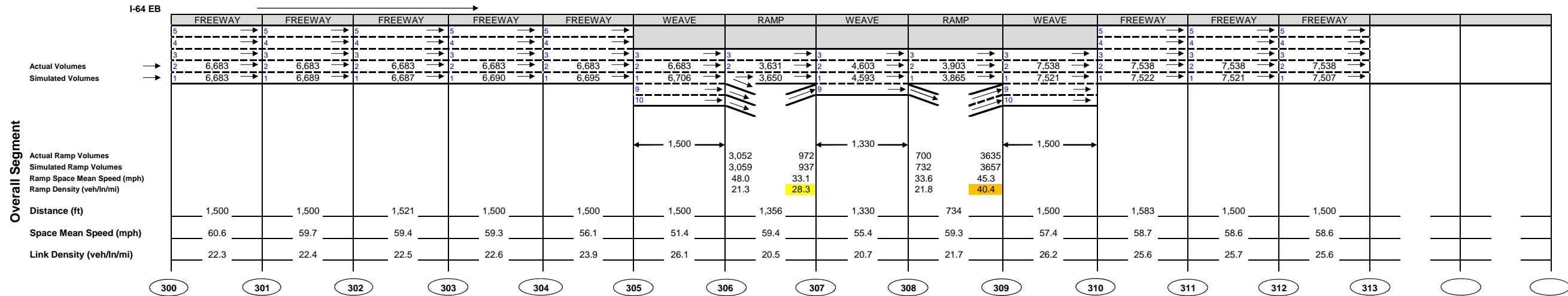
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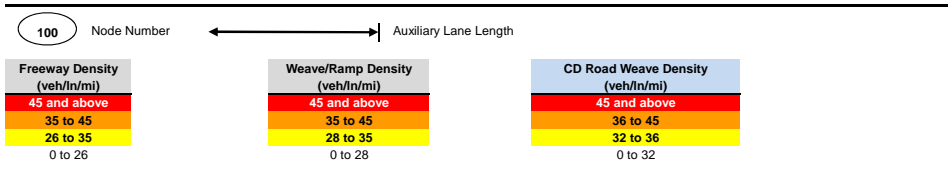
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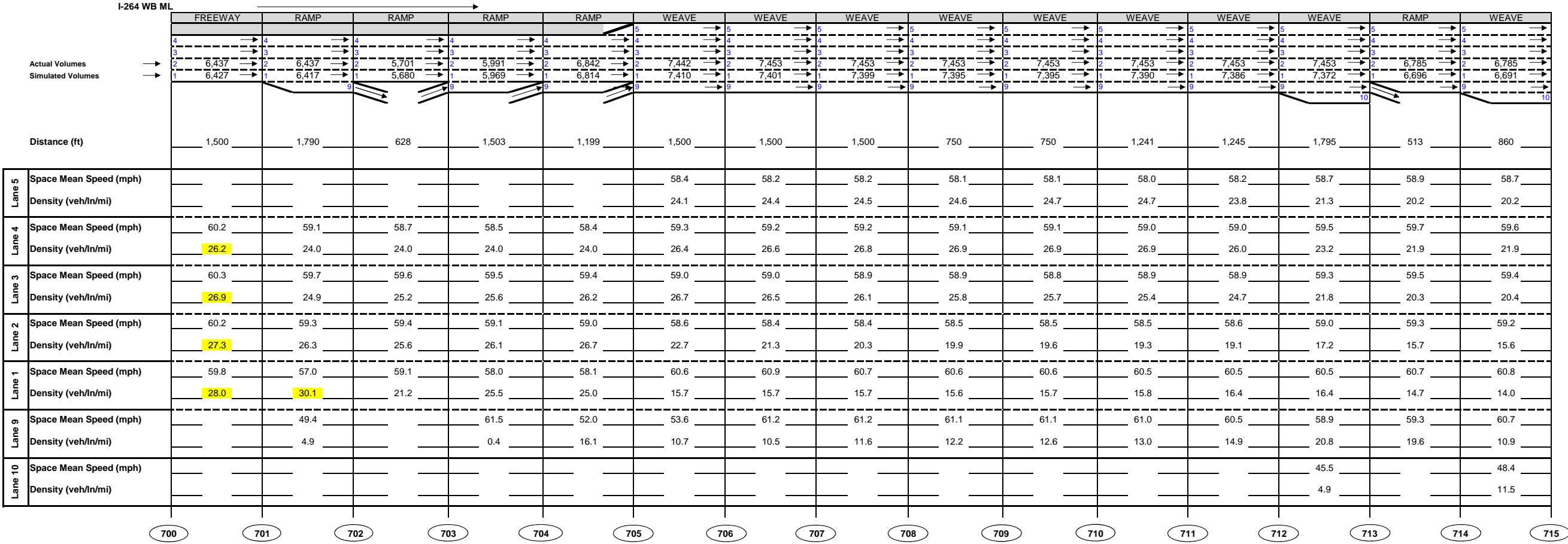
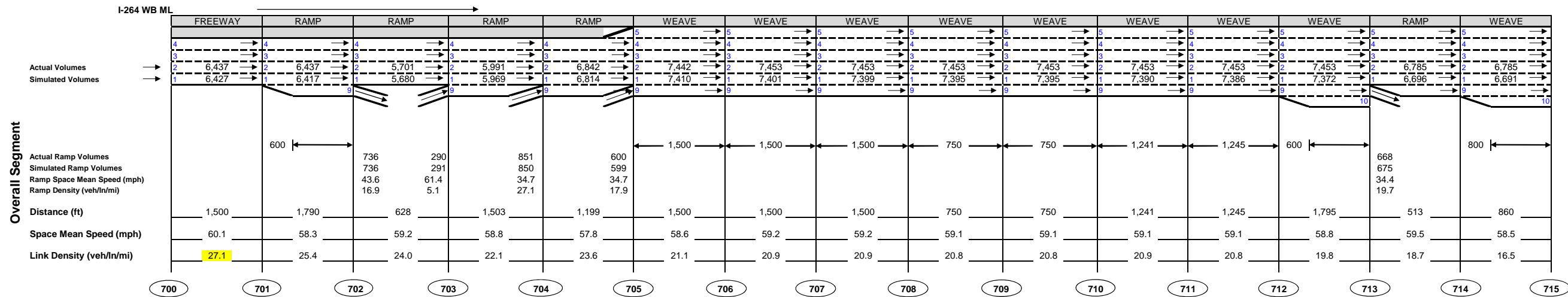


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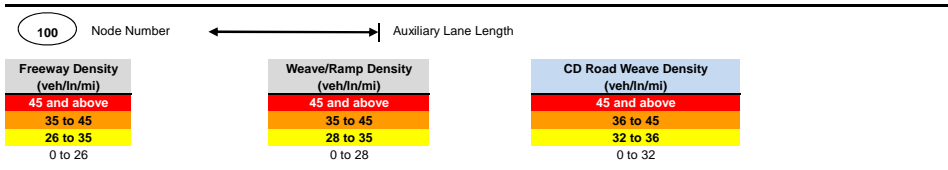
Rosemont Road Interchange Split Folded Diamond Build Alternative - Link Descriptions (AM Peak Hour)

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	18.2	C	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.7	A
EB I-264 ML to EB I-264 CD (Diverge)	505,506	14.1	B	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	18.3	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	13.1	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	14.3	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	17.0	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	18.6	B
NB Military Hwy to EB I-264 CD (Merge)	556,557	17.7	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.7	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.6	A	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	26.1	D
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.2	B	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.3	B
EB I-64 to WB I-264 CD (Merge)	759,760	13.3	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.8	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	16.6	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	18.6	B
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	12.0	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	29.8	D
SB Military Hwy to WB I-264 CD (Merge)	764,765	14.6	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	28.2	D	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.7	C
WB I-264 West of Military Hwy (Freeway)	734,735	26.8	D	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	19.7	B
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.6	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.6	A	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	28.6	D
EB I-264 ML to WB I-64 (Diverge)	510,511	10.6	B	WB I-264 to Witchduck Rd (Diverge)	719,720	27.2	C
EB I-264 CD to EB I-64 (Diverge)	557,558	13.5	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	26.1	D
EB/WB I-64 & EB I-264 CD (Weave)	559,560	15.2	B	Independence Boulevard Interchange			
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	19.9	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.6	C
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.7	A	EB I-264 to SB Independence Blvd (Diverge)	526,527	19.7	B
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	29.8	D	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	16.1	B
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	30.4	D	NB Independence Blvd to EB I-264 (Merge)	530,531	17.1	B
WB I-264 ML to EB I-64 (Diverge)	728,729	29.4	D	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.2	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.3	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	27.1	D
EB/WB I-64 & WB I-264 CD (Weave)	757,758	16.7	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	26.0	C
EB I-64 to WB I-264 CD (Merge)	759,760	13.3	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	22.1	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.2	B	SB Independence Blvd to WB I-264 (Merge)	716,717	27.7	C
EB I-64 North of I-264 (Freeway)	301,302	22.4	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	28.6	D
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	20.7	C	Rosemont Road Interchange			
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	26.2	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.2	C
EB I-64 South of I-264 (Freeway)	312,313	25.6	C	EB I-264 to Rosemont Rd (Diverge)	535,536	19.7	B
WB I-64 South of I-264 (Freeway)	101,102	25.5	C	SB Rosemont Rd to EB I-264 (Merge)	537,538	14.9	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.8	C	NB Rosemont Rd to EB I-264 (Merge)	538,539	16.1	B
WB I-64 to I-264 EB (Diverge)	104,105	25.6	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	17.4	B
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	17.0	B	WB I-264 East of Rosemont Rd/S. Plaza Trail (Freeway)	700,701	32.2	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	20.9	C	WB I-264 to NB S. Plaza Trail (Diverge)	701,702	30.4	D
WB I-64 North of I-264 (Freeway)	110,111	22.6	C	SB S. Plaza Trail to WB I-264 (Merge)	703,704	27.9	C
				NB Rosemont Rd to WB I-264 (Merge)	704,705	31.1	D
				SB Rosemont Rd to WB I-264 (Merge)	705,706	28.8	D
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	27.1	D



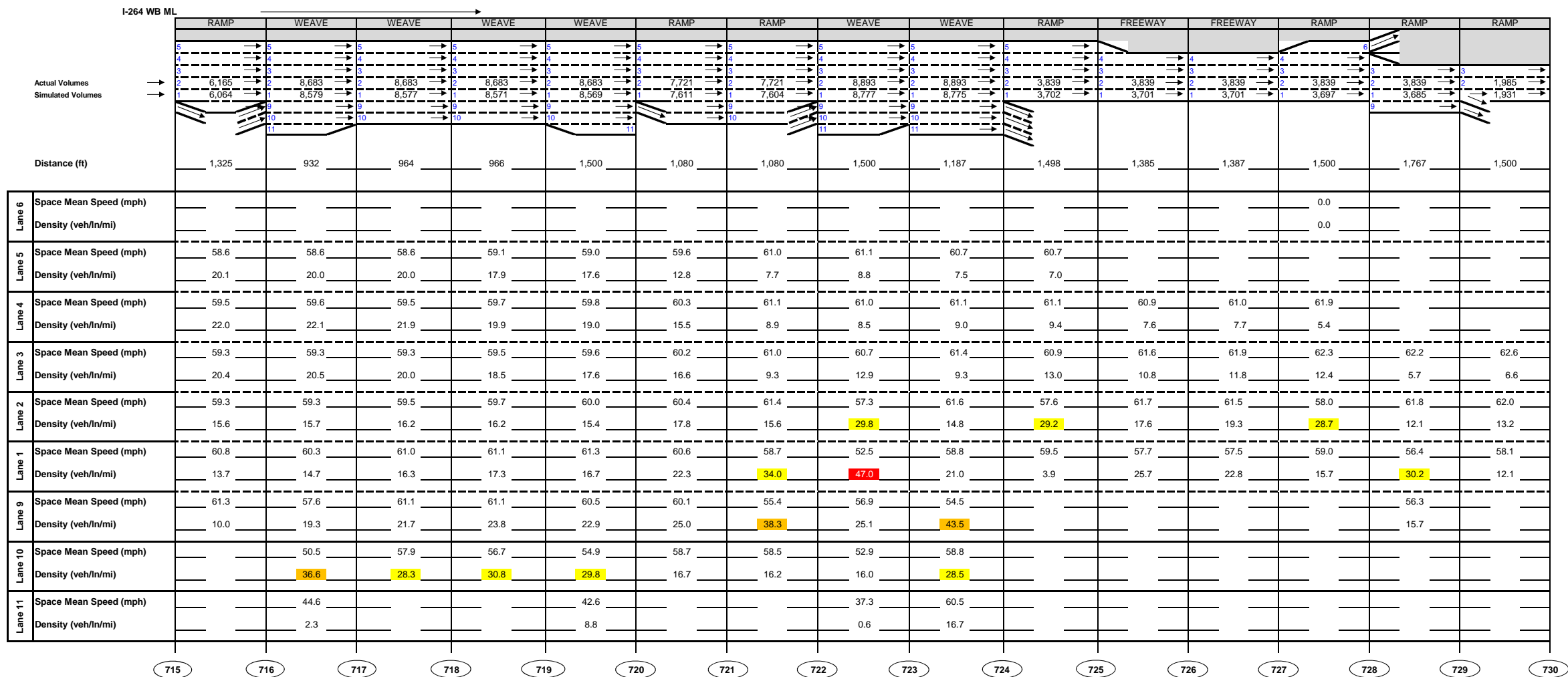
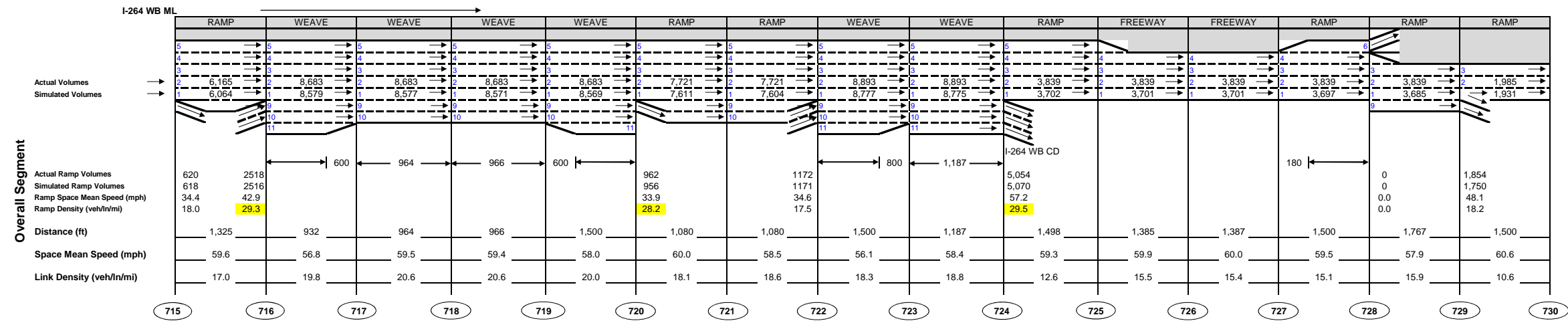
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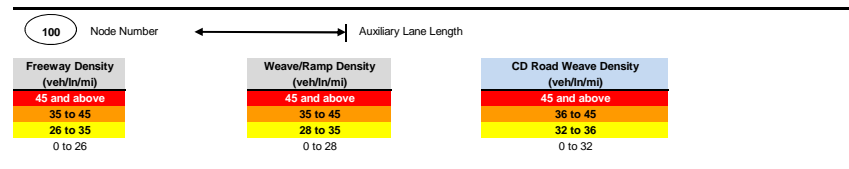
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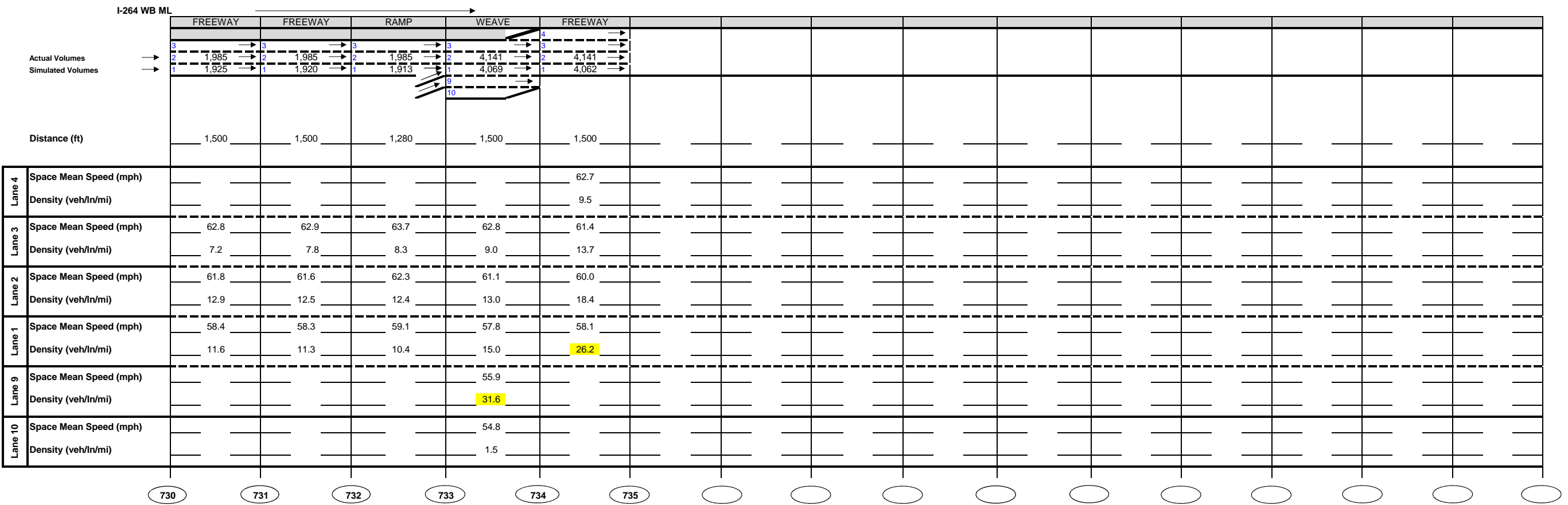
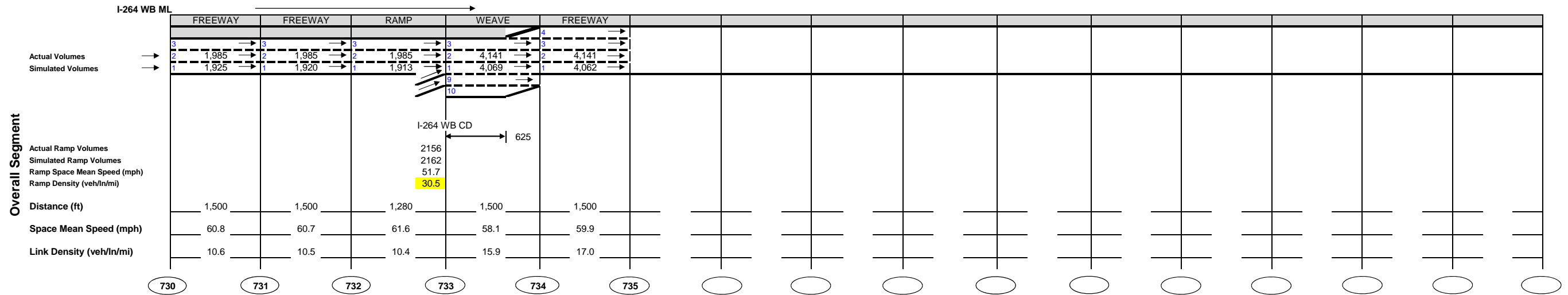


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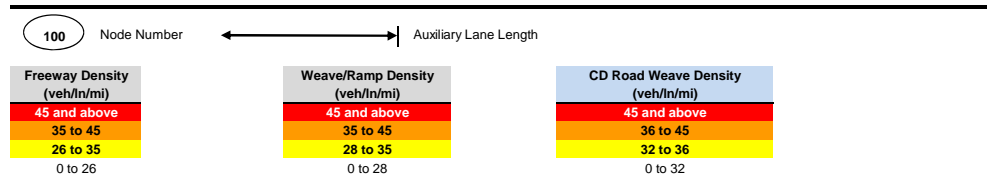


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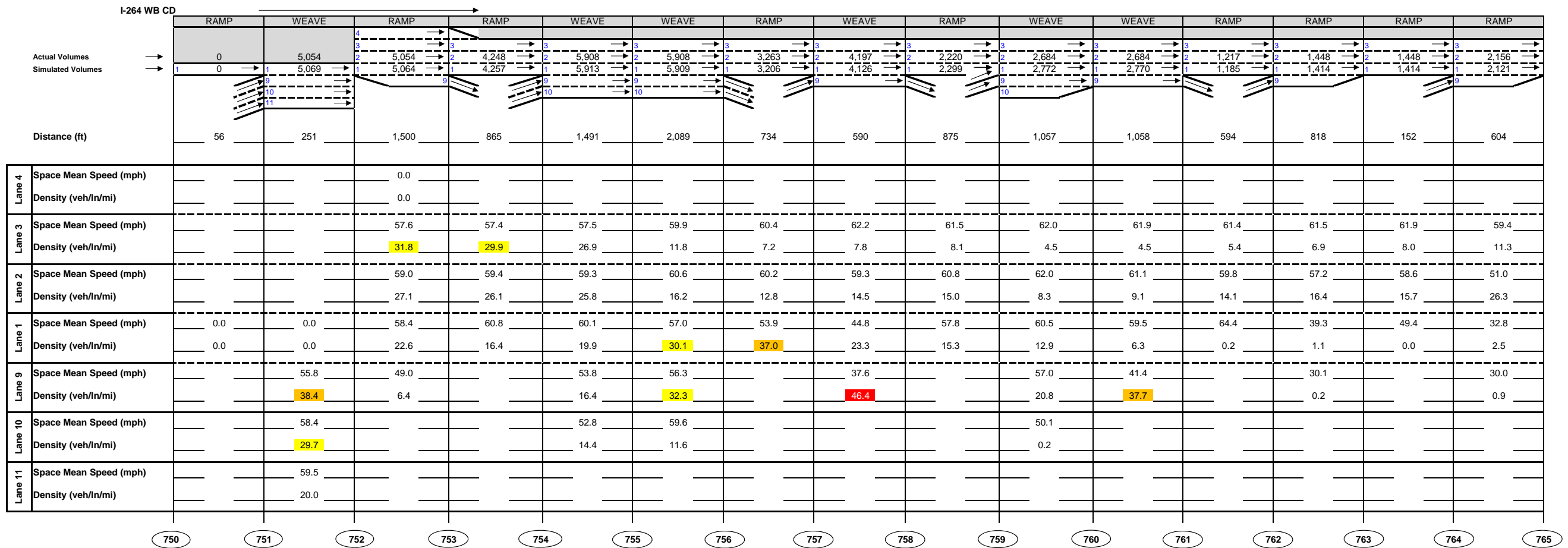
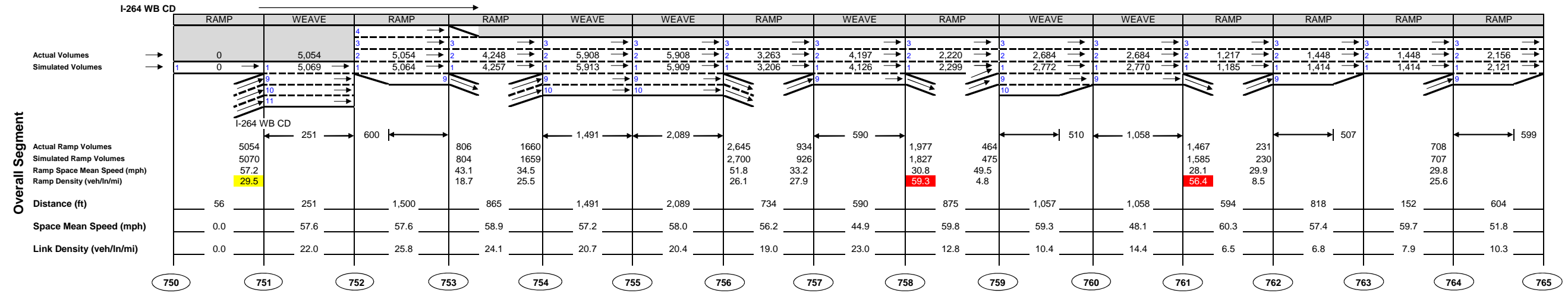
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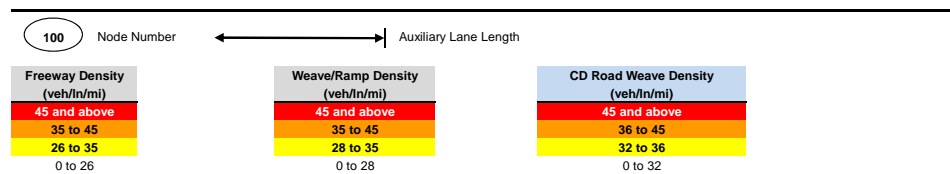
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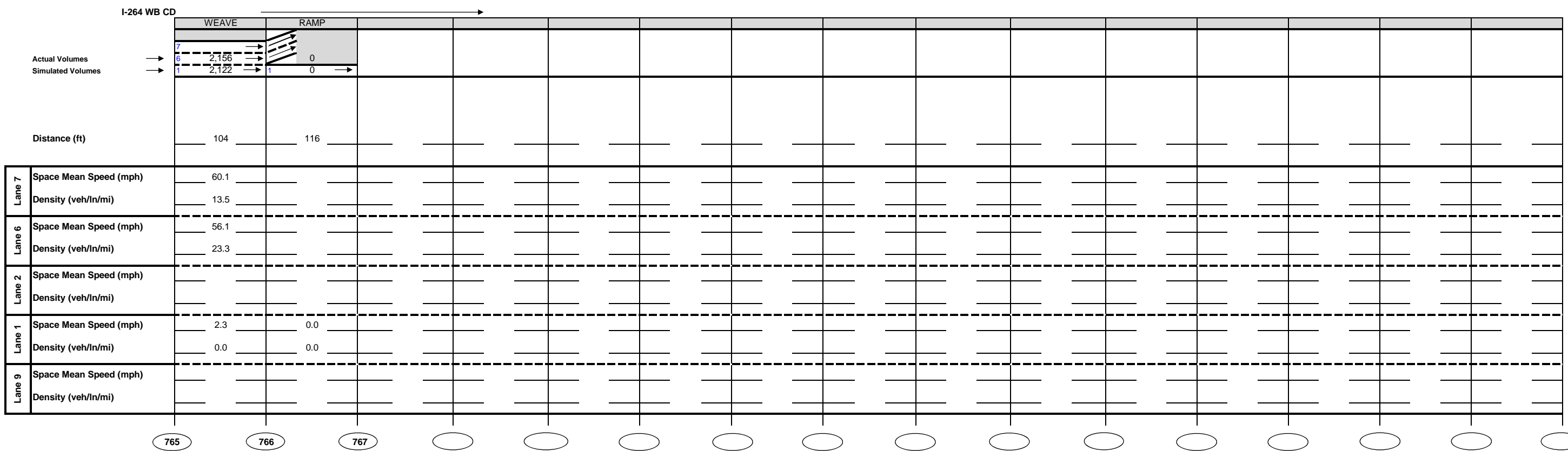
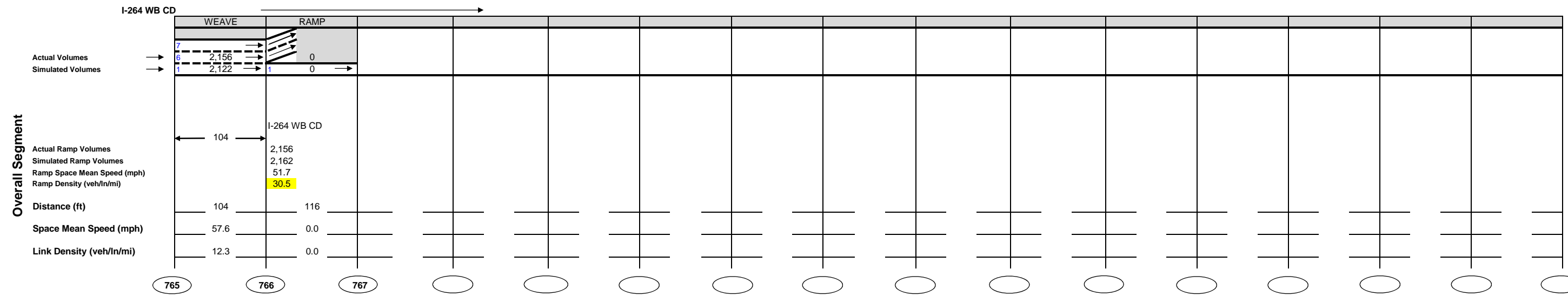


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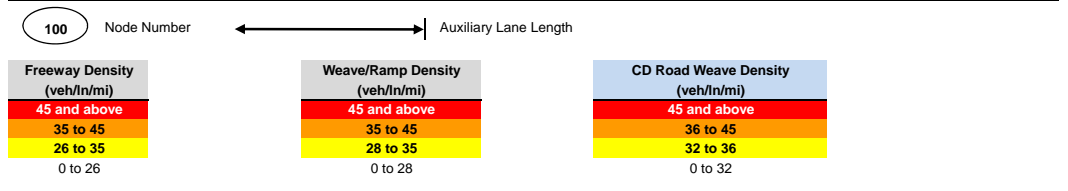


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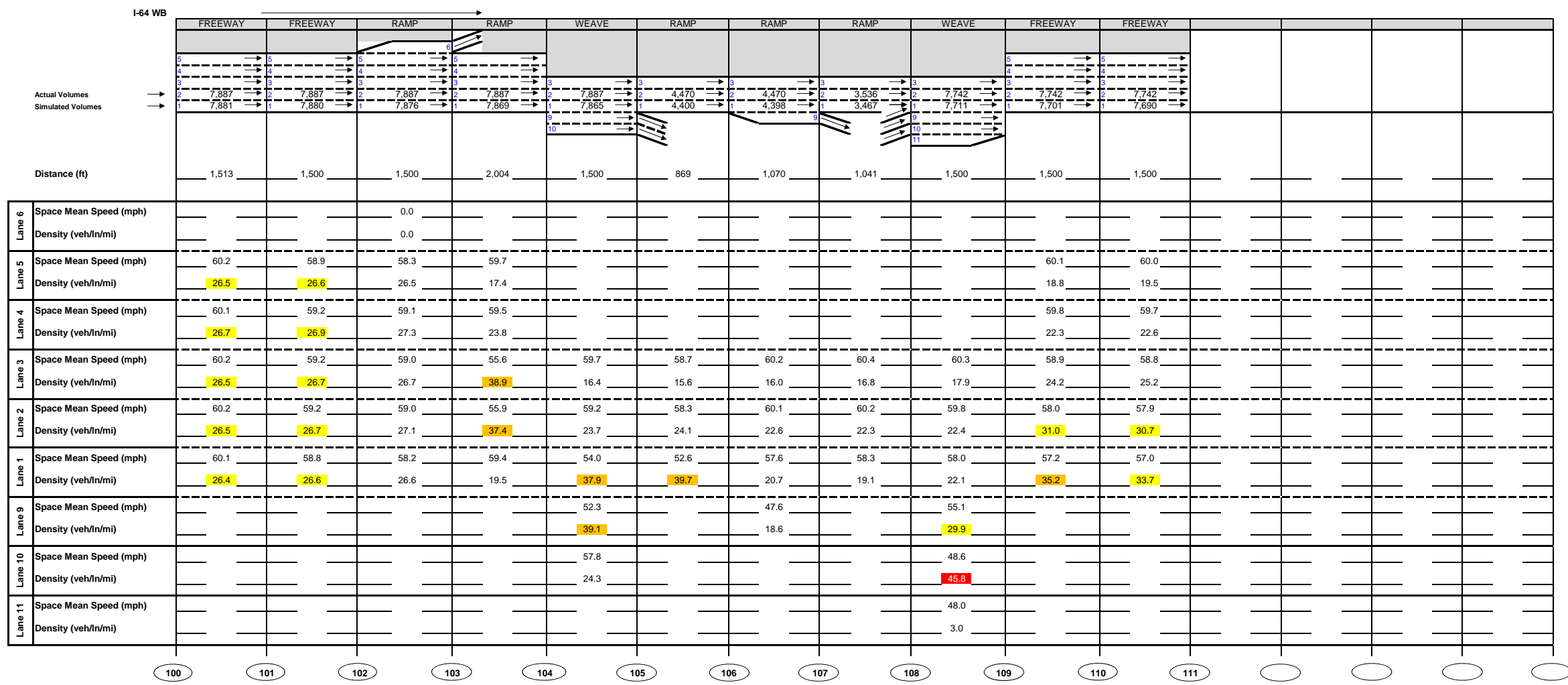
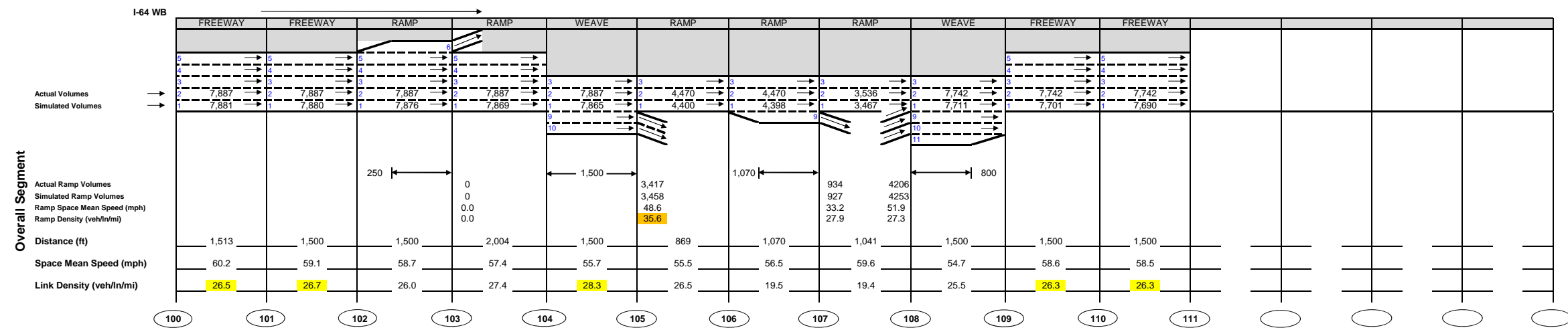
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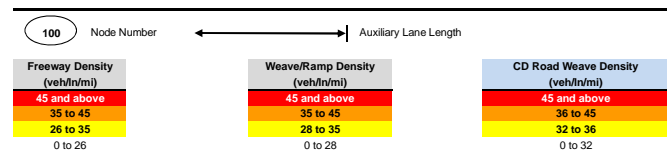
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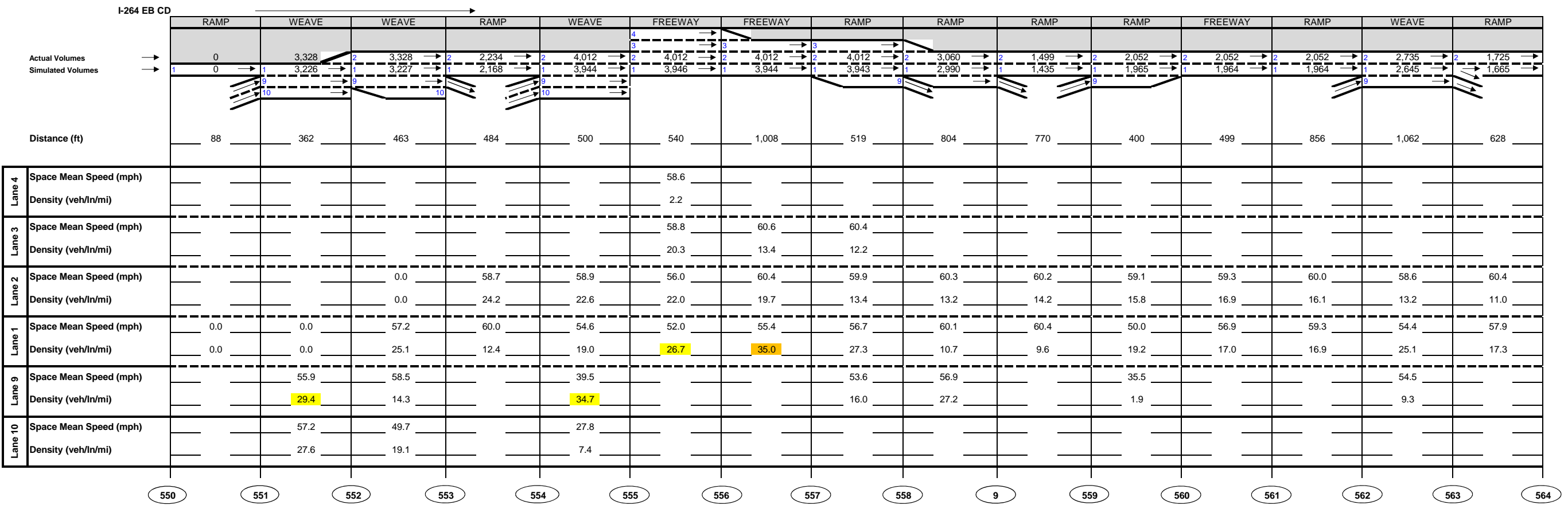
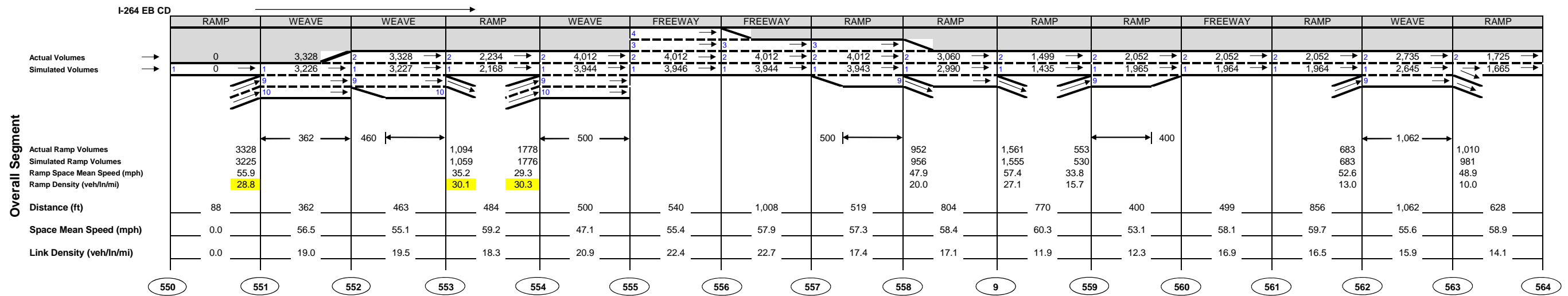


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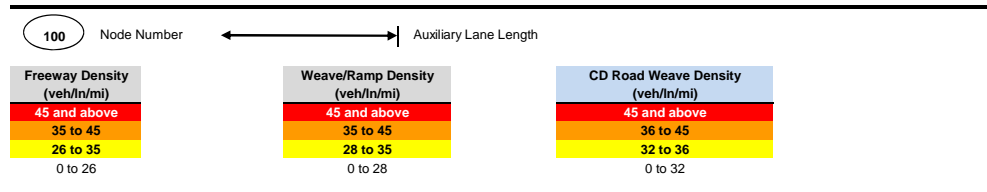


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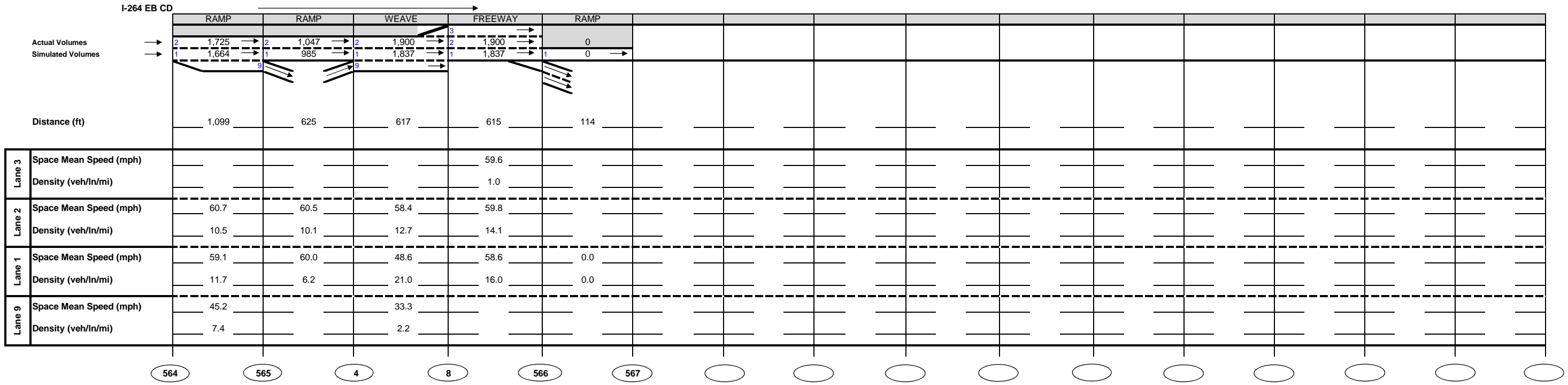
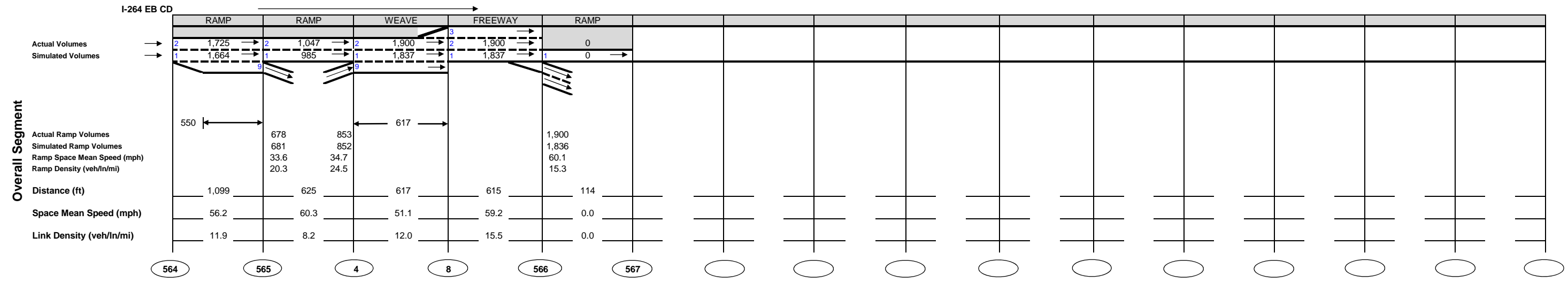
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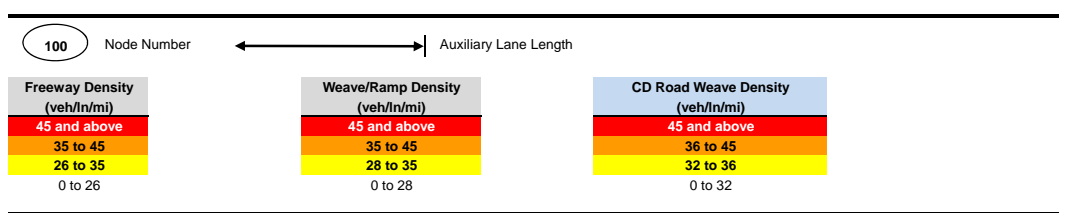
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I-264 EB ML

	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	
Actual Volumes	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	
Simulated Volumes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Actual Ramp Volumes						3,328	3,225							624	4669	
Simulated Ramp Volumes						3,590	3,592							624	4735	
Ramp Space Mean Speed (mph)						55.9								61.0	56.1	
Ramp Density (veh/ln/mi)						28.8								11.2	28.1	
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Space Mean Speed (mph)	59.5	58.2	57.7	52.3	36.3	49.6	59.6	59.5	58.0	57.8	57.4	58.2	58.1	58.0	59.0	
Link Density (veh/ln/mi)	29.4	29.6	29.9	33.0	47.3	26.3	15.1	15.1	15.5	15.5	19.0	20.6	20.6	20.7	17.9	
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

I-264 EB ML

	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	FREEWAY	RAMP	RAMP	
Actual Volumes	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	
Simulated Volumes	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Distance (ft)	1,500	1,500	1,500	1,500	1,500	2,039	966	1,500	632	641	1,500	930	1,126	133	1,500	
Lane 6 Space Mean Speed (mph)															59.2	60.6
Lane 6 Density (veh/ln/mi)															4.6	7.9
Lane 4 Space Mean Speed (mph)	60.4	60.0	59.1	58.6	59.4	59.4	59.0	58.7	56.9	57.6	58.7					
Lane 4 Density (veh/ln/mi)	13.1	13.4	14.3	14.3	9.6	7.8	7.9	7.9	8.2	8.1	2.2					
Lane 3 Space Mean Speed (mph)	59.1	57.6	57.2	55.5	51.0	57.3	59.0	58.7	57.0	57.4	58.2	58.1	59.1		61.0	
Lane 3 Density (veh/ln/mi)	36.5	36.6	35.6	36.6	38.8	27.7	23.7	22.2	21.9	22.3	12.2	7.8	6.1		13.2	
Lane 2 Space Mean Speed (mph)	59.4	58.3	58.0	53.1	39.9	51.6	60.1	60.1	58.5	57.8	57.3	58.4	58.4	58.0	59.0	
Lane 2 Density (veh/ln/mi)	35.1	34.9	35.3	39.0	56.2	26.2	18.5	18.9	22.6	28.5	26.9	26.0	27.9	29.6	24.0	
Lane 1 Space Mean Speed (mph)	59.6	58.1	57.3	46.8	24.5	38.3	60.5	60.8	60.0	61.7	57.0	58.0	57.6	57.7	57.6	
Lane 1 Density (veh/ln/mi)	32.9	33.7	34.3	42.1	84.7	31.8	10.1	11.3	9.2	3.1	21.3	27.9	27.8	27.8	26.3	
Lane 9 Space Mean Speed (mph)						48.6										
Lane 9 Density (veh/ln/mi)						34.2										
Lane 10 Space Mean Speed (mph)						54.7										
Lane 10 Density (veh/ln/mi)						9.8										
	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515

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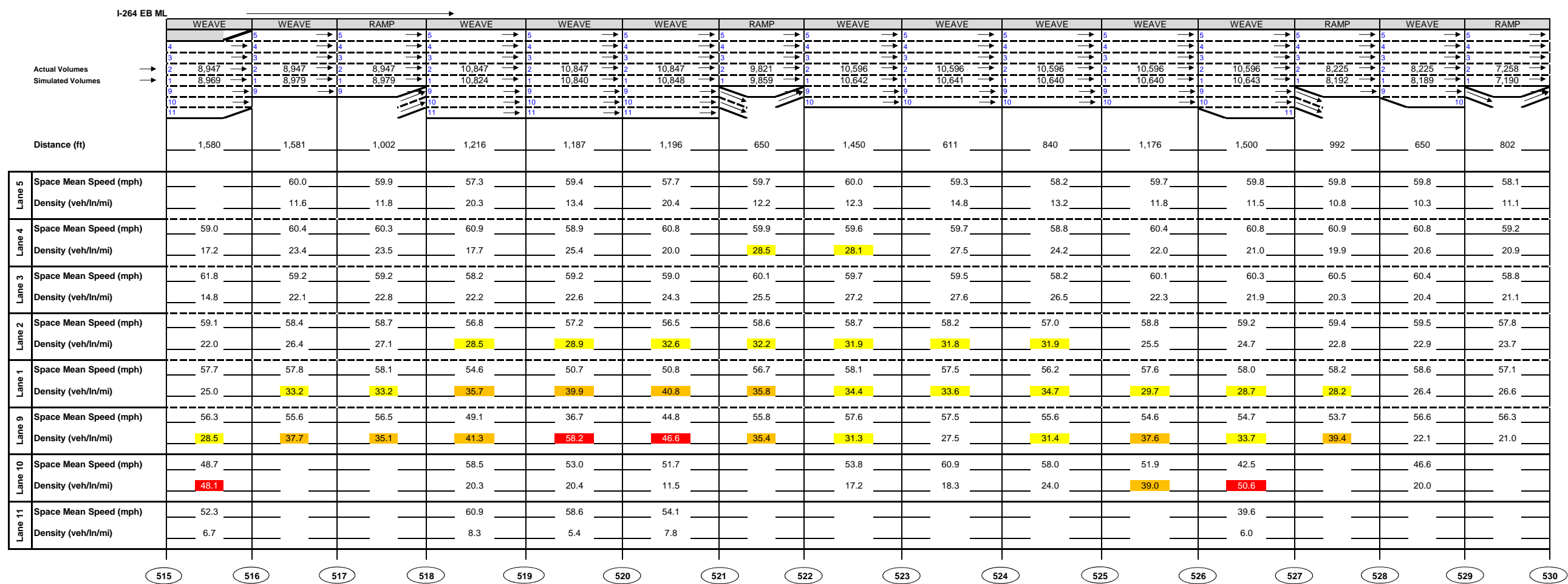
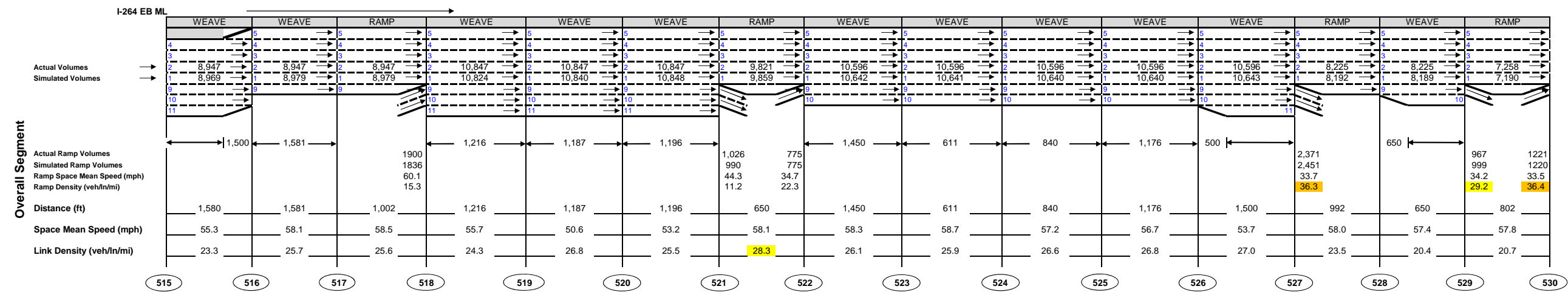
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100 Node Number ← Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

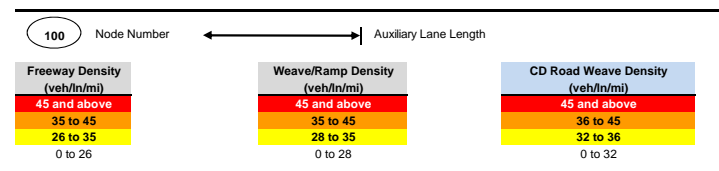
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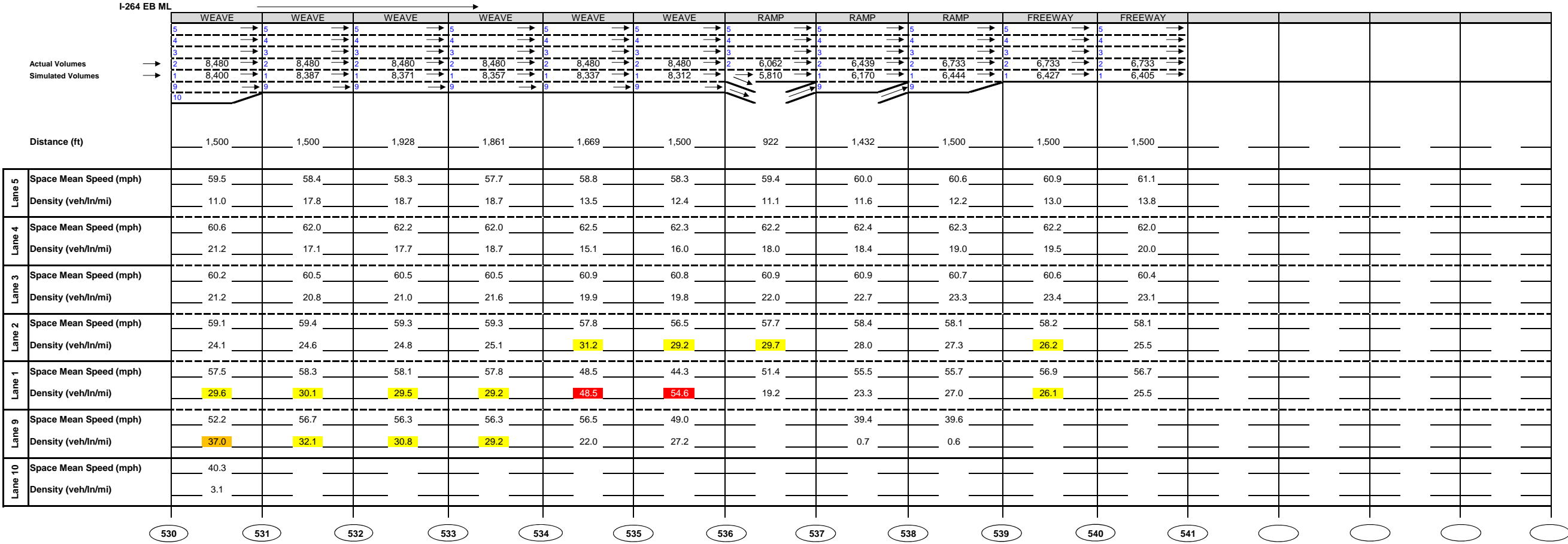
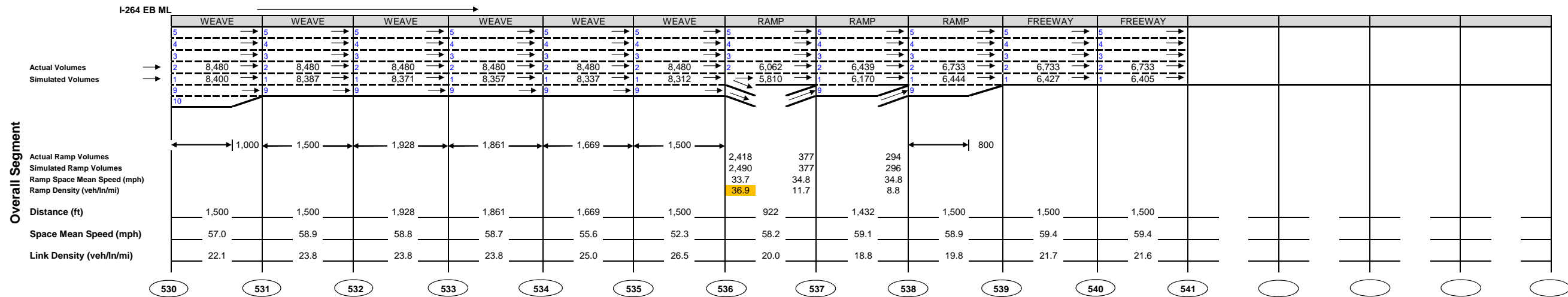
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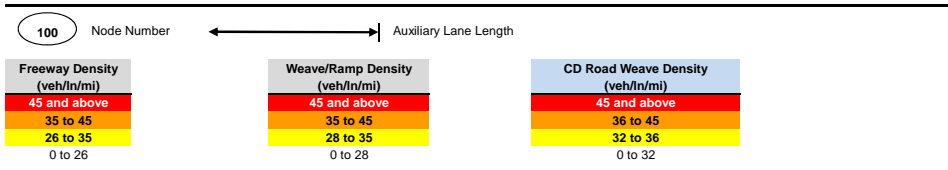
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Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,142	6,142	6,142	6,142	6,142	6,142	6,142	3,743	5,720	5,167	7,973	7,973	7,973	7,973
Simulated Volumes	6,143	6,147	6,157	6,166	6,180	6,192	3,793	5,624	5,096	7,799	7,797	7,792	7,790	
Actual Ramp Volumes						1,500	2,399	1,330	553	2,806	1,500			
Simulated Ramp Volumes							2,406	1,825	529	2,703				
Ramp Space Mean Speed (mph)							48.4	32.1	34.0	47.1				
Ramp Density (veh/ln/mi)							16.6	56.8	15.6	28.7				
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Space Mean Speed (mph)	60.7	59.9	59.6	59.5	57.0	52.9	59.4	53.1	58.6	58.0	58.8	58.7	58.7	
Link Density (veh/ln/mi)	20.5	20.5	20.7	20.7	21.6	23.4	21.3	26.4	29.0	26.9	26.5	26.6	26.6	

Overall Segment	I-64 EB													
	300	301	302	303	304	305	306	307	308	309	310	311	312	313
Actual Volumes	6,142	6,142	6,142	6,142	6,142	6,142	6,142	3,743	5,720	5,167	7,973	7,973	7,973	7,973
Simulated Volumes	6,143	6,147	6,157	6,166	6,180	6,192	3,793	5,624	5,096	7,799	7,797	7,792	7,790	
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 5	Space Mean Speed (mph)	60.6	59.6	59.1	59.0	60.0					59.9	59.6	59.4	
Lane 5	Density (veh/ln/mi)	20.6	20.4	20.3	19.2	14.2					25.9	27.2	28.0	
Lane 4	Space Mean Speed (mph)	60.8	60.1	59.9	59.9	59.3					58.9	58.7	58.7	
Lane 4	Density (veh/ln/mi)	20.5	20.7	21.0	21.4	22.4					29.3	28.8	28.4	
Lane 3	Space Mean Speed (mph)	60.7	60.0	59.8	59.3	52.4	58.7	60.7	60.0	60.3	60.2	57.1	57.1	57.2
Lane 3	Density (veh/ln/mi)	20.3	20.4	20.7	22.6	41.3	17.0	17.8	19.5	22.2	23.9	27.3	25.6	24.9
Lane 2	Space Mean Speed (mph)	60.7	60.0	59.9	59.9	60.0	56.4	60.1	57.7	59.3	59.2	60.5	60.1	59.9
Lane 2	Density (veh/ln/mi)	20.6	20.8	21.2	21.6	20.3	25.9	24.2	29.3	30.3	30.0	26.5	27.8	28.0
Lane 1	Space Mean Speed (mph)	60.6	59.6	59.1	59.1	60.9	46.7	57.6	49.4	56.8	57.0	57.7	57.7	57.8
Lane 1	Density (veh/ln/mi)	20.5	20.3	20.2	18.7	10.0	43.3	21.7	43.6	34.4	31.0	23.5	23.3	23.6
Lane 9	Space Mean Speed (mph)						55.0		45.1		58.2			
Lane 9	Density (veh/ln/mi)						19.4		13.4		24.5			
Lane 10	Space Mean Speed (mph)						56.6				55.6			
Lane 10	Density (veh/ln/mi)						11.3				24.9			

NOTE: numbers in chart are provided for illustrative purposes only

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100 Node Number ← Auxiliary Lane Length

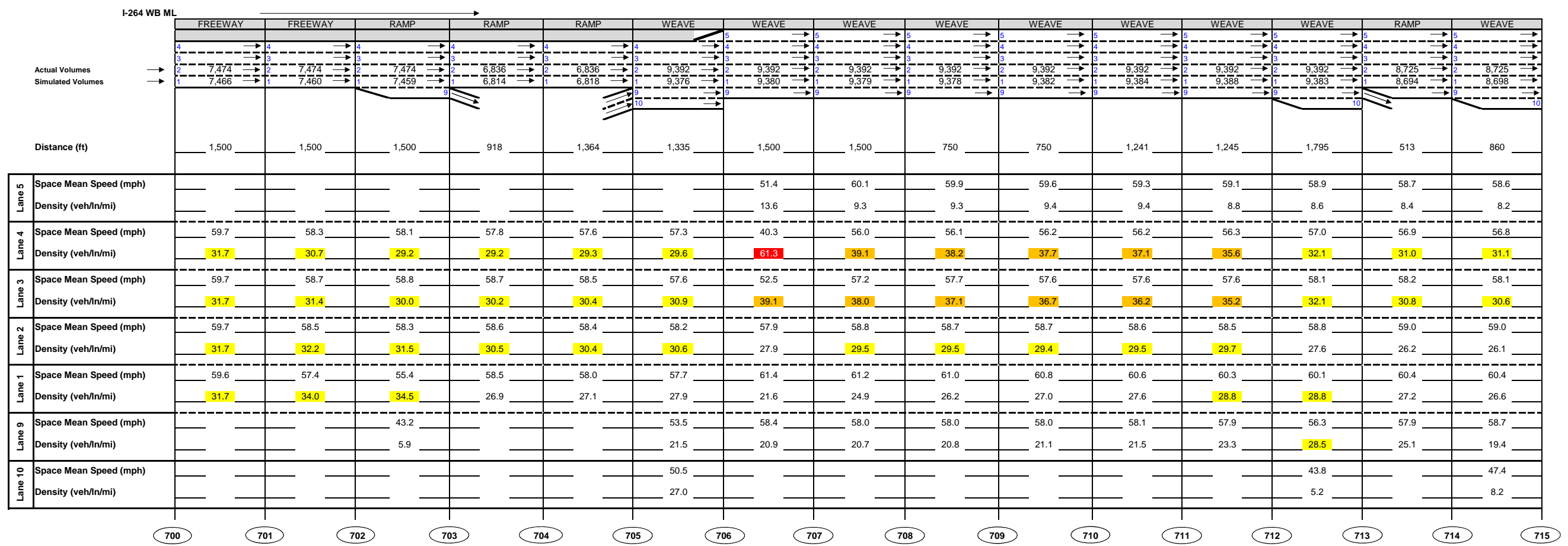
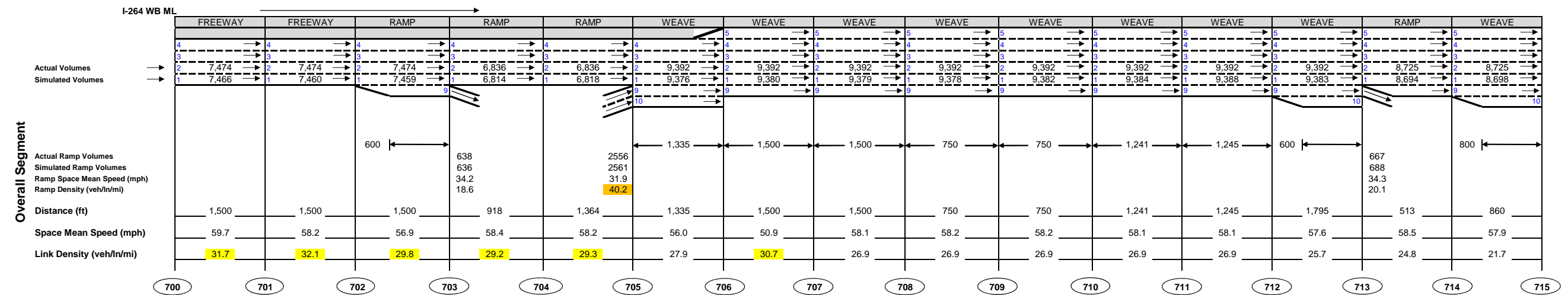
Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



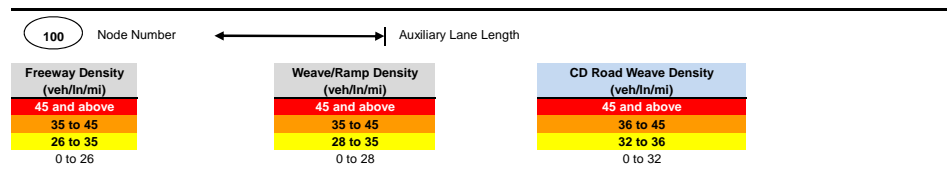
Rosemont Road Interchange Split Folded Diamond Build Alternative - Link Descriptions (PM Peak Hour)

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	29.9	D	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.9	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	26.3	C	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	20.4	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	19.5	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	11.9	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	20.9	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	25.6	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	22.7	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.5	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.1	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.8	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.6	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.4	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.4	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.8	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	14.4	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	20.7	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	6.8	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.4	B
SB Military Hwy to WB I-264 CD (Merge)	764,765	10.3	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	15.9	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.5	C
WB I-264 West of Military Hwy (Freeway)	734,735	17.0	B	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	26.1	C
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.8	D
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.1	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.6	C
EB I-264 ML to WB I-64 (Diverge)	510,511	19.0	B	WB I-264 to Witchduck Rd (Diverge)	719,720	20.0	B
EB I-264 CD to EB I-64 (Diverge)	557,558	17.4	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.8	C
EB/WB I-64 & EB I-264 CD (Weave)	559,560	12.3	B	Independence Boulevard Interchange			
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	16.5	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	26.8	D
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.9	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	27.0	C
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.4	B	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	20.4	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	15.1	B	NB Independence Blvd to EB I-264 (Merge)	530,531	22.1	C
WB I-264 ML to EB I-64 (Diverge)	728,729	15.9	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.8	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.4	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.9	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	23.0	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	19.8	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.4	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	16.5	B
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.6	A	SB Independence Blvd to WB I-264 (Merge)	716,717	19.8	B
EB I-64 North of I-264 (Freeway)	301,302	20.5	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.6	C
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	26.4	C	Rosemont Road Interchange			
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	26.9	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.8	C
EB I-64 South of I-264 (Freeway)	312,313	26.6	D	EB I-264 to Rosemont Rd (Diverge)	535,536	26.5	C
WB I-64 South of I-264 (Freeway)	101,102	26.7	D	SB Rosemont Rd to EB I-264 (Merge)	537,538	18.8	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	26.0	C	NB Rosemont Rd to EB I-264 (Merge)	538,539	19.8	B
WB I-64 to I-264 EB (Diverge)	104,105	28.3	D	EB I-264 East of Rosemont Rd (Freeway)	540,541	21.6	C
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	19.5	B	WB I-264 East of Rosemont Rd/S. Plaza Trail (Freeway)	700,701	27.1	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	25.5	C	WB I-264 to NB S. Plaza Trail (Diverge)	701,702	25.4	C
WB I-64 North of I-264 (Freeway)	110,111	26.3	D	SB S. Plaza Trail to WB I-264 (Merge)	703,704	22.1	C
				NB Rosemont Rd to WB I-264 (Merge)	704,705	23.6	C
				SB Rosemont Rd to WB I-264 (Merge)	705,706	21.1	C
				WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.9	C



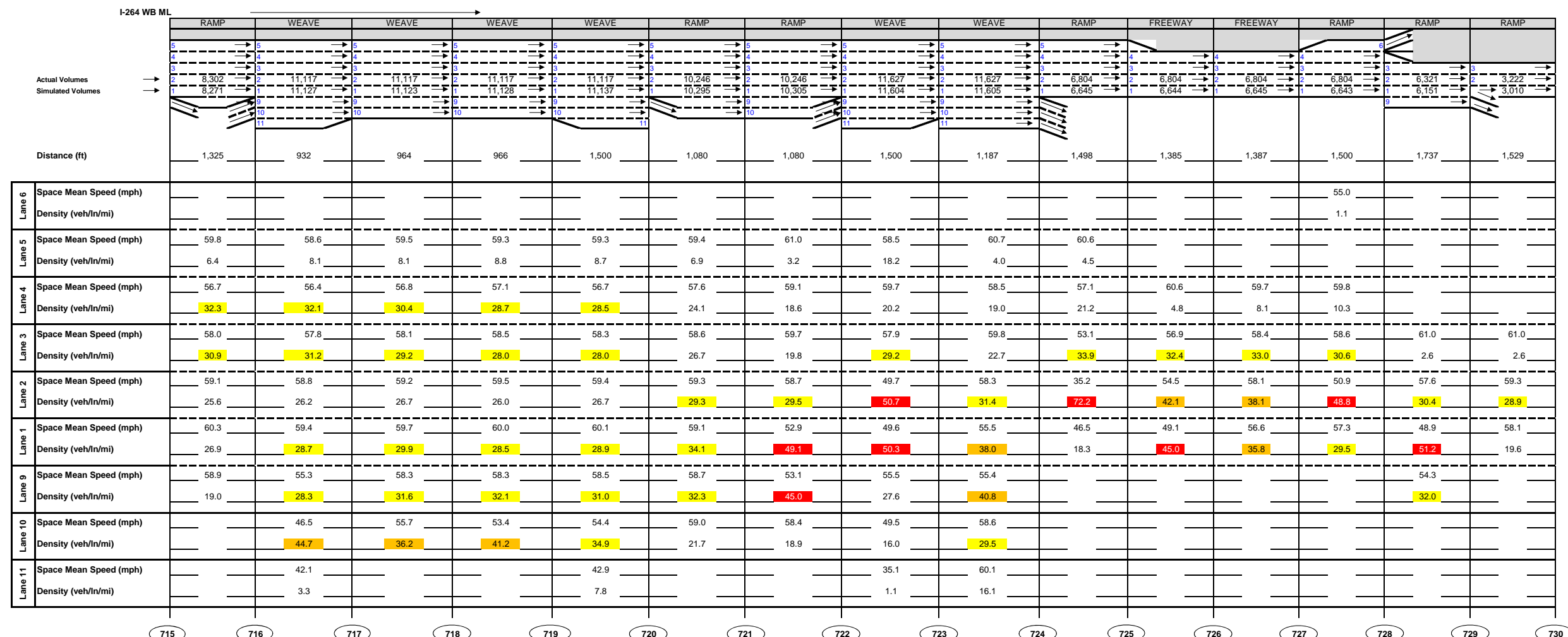
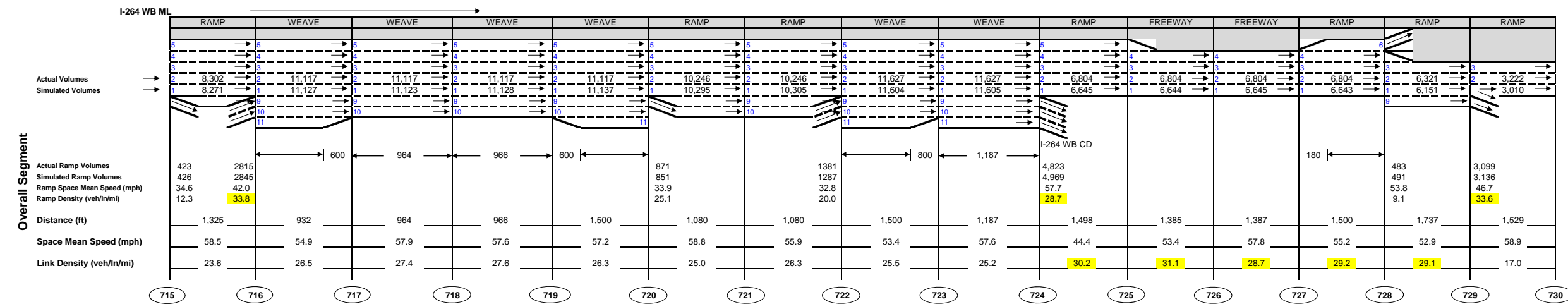
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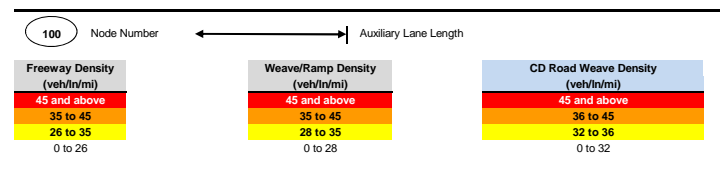
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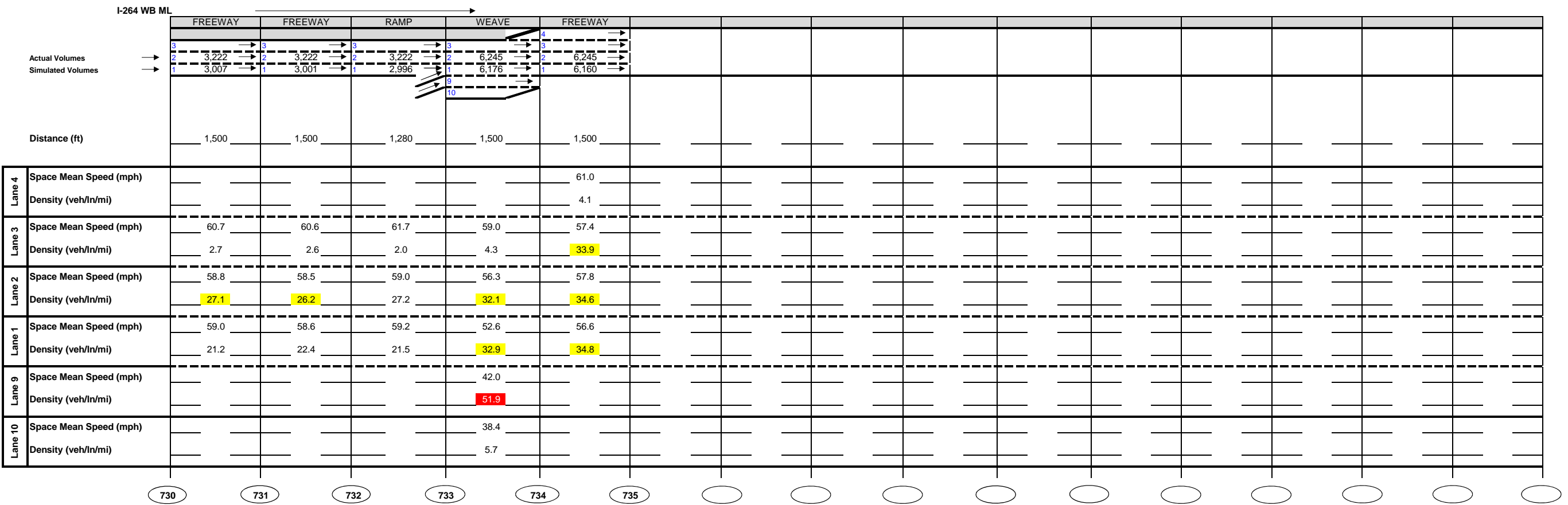
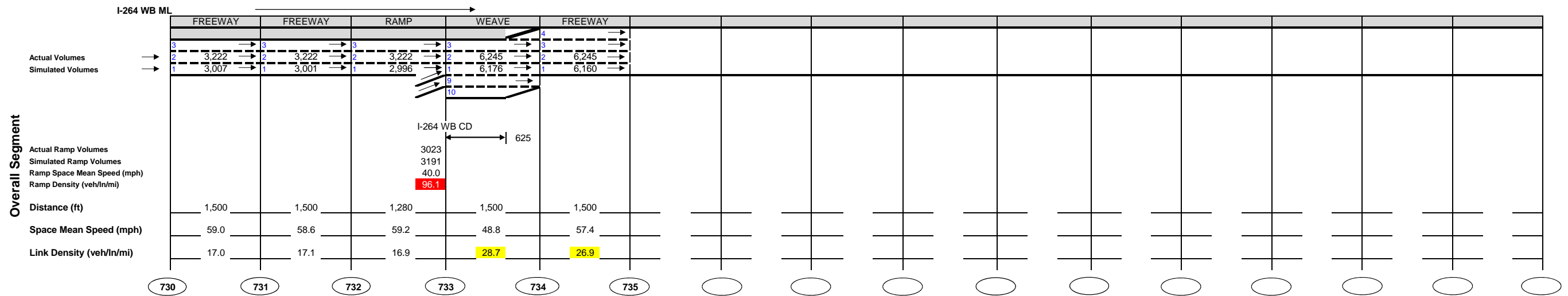


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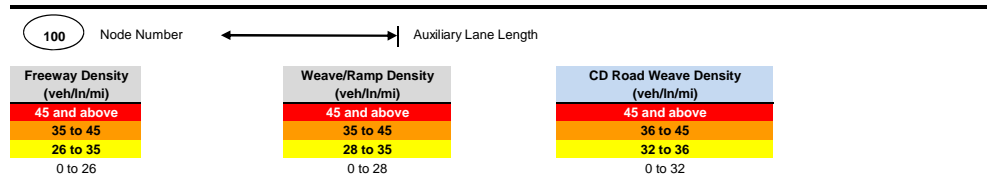


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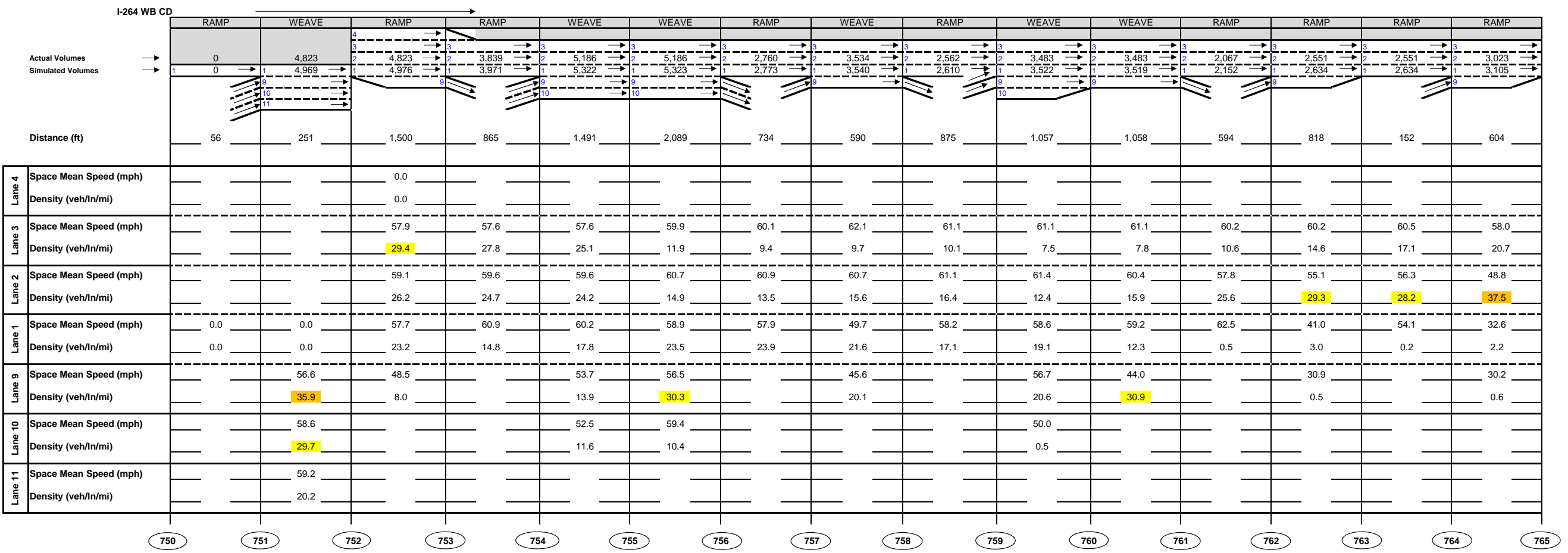
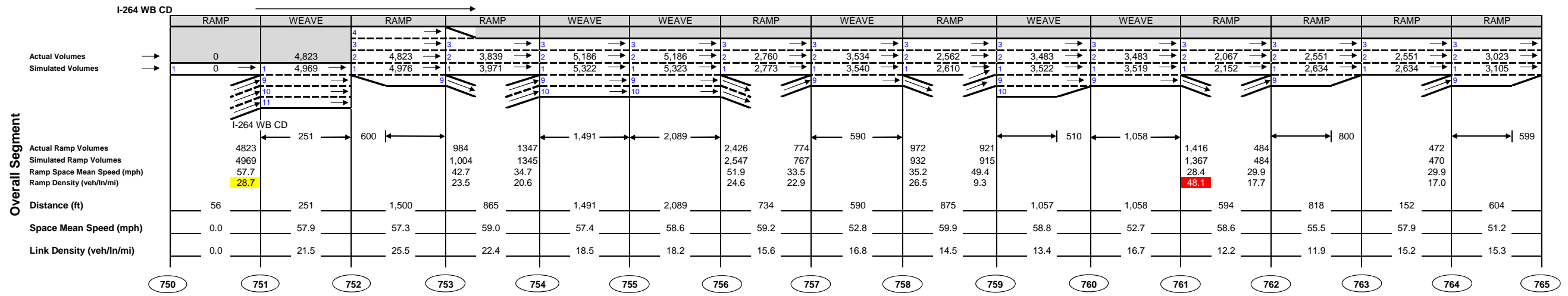
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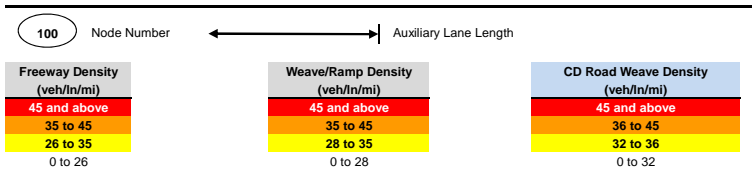
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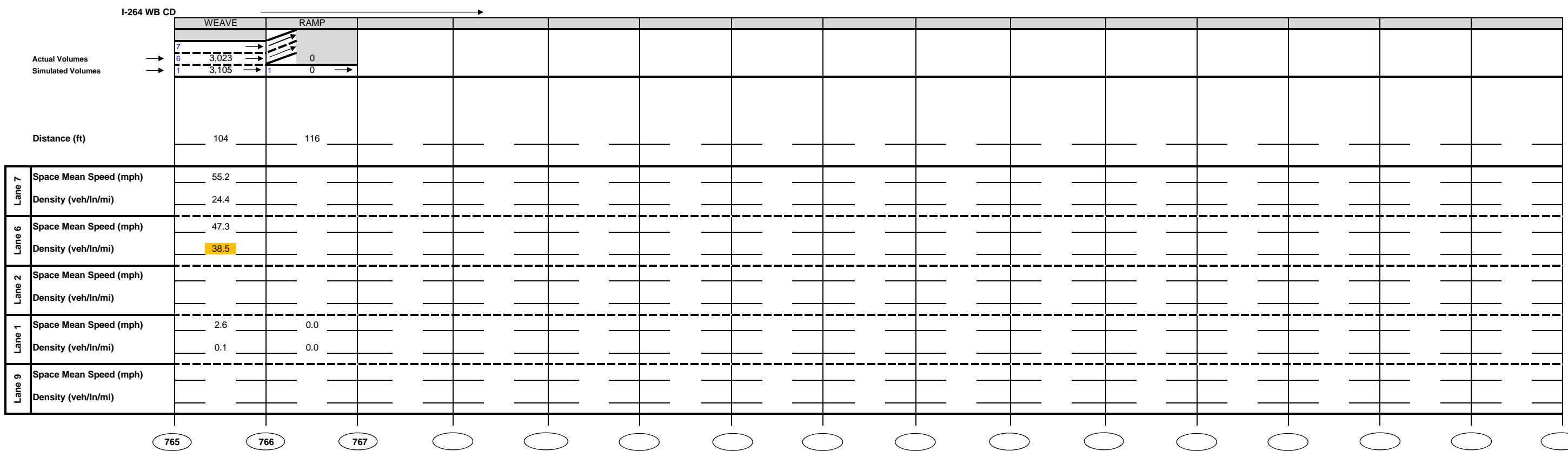
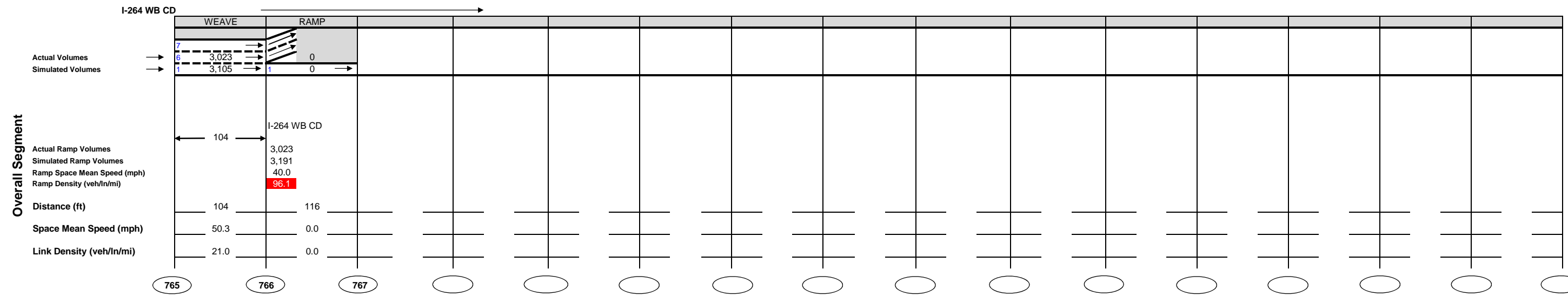
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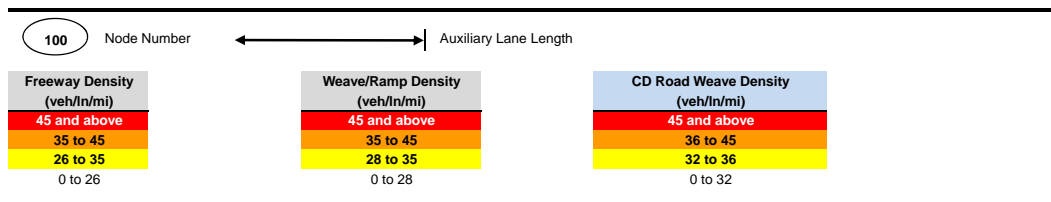
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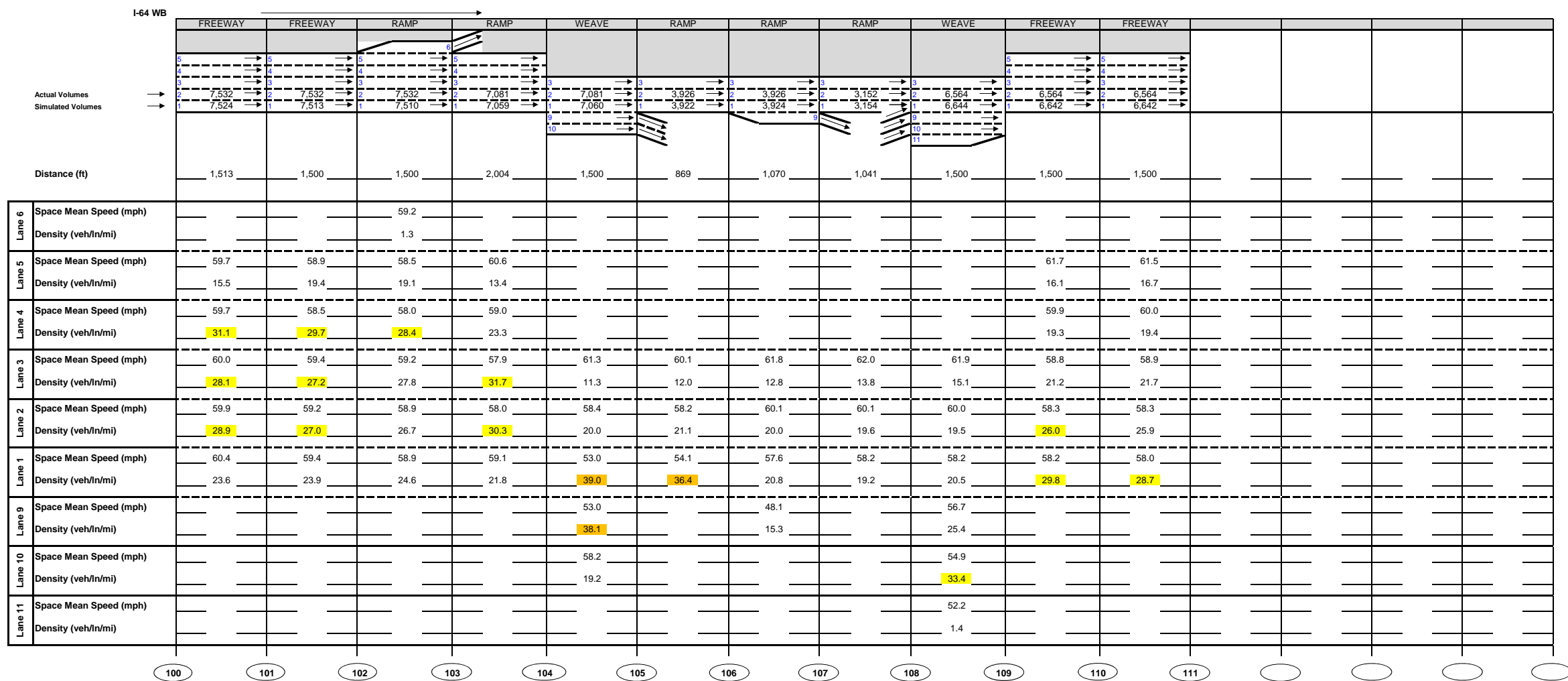
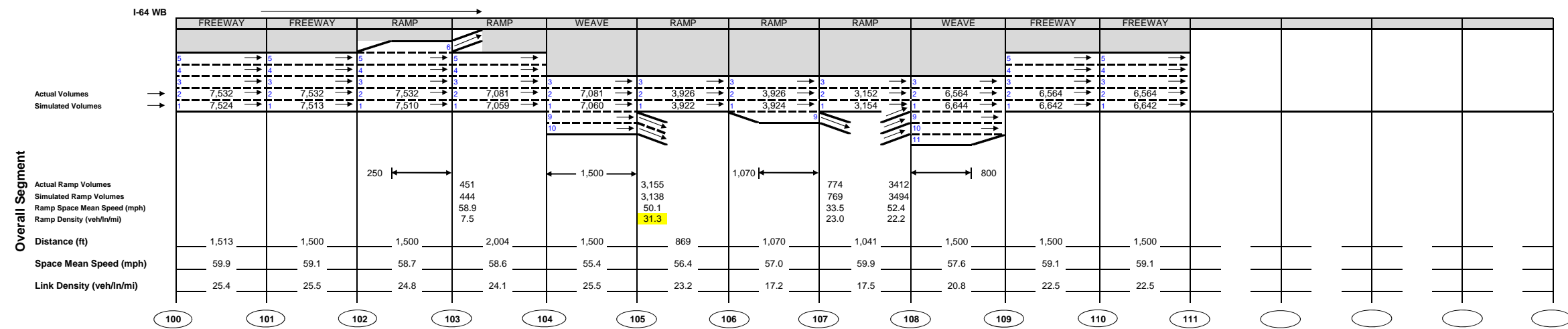
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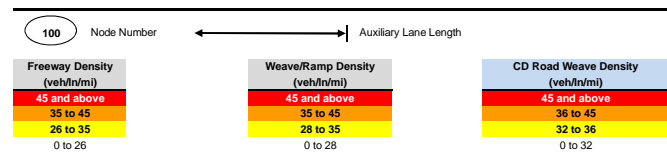
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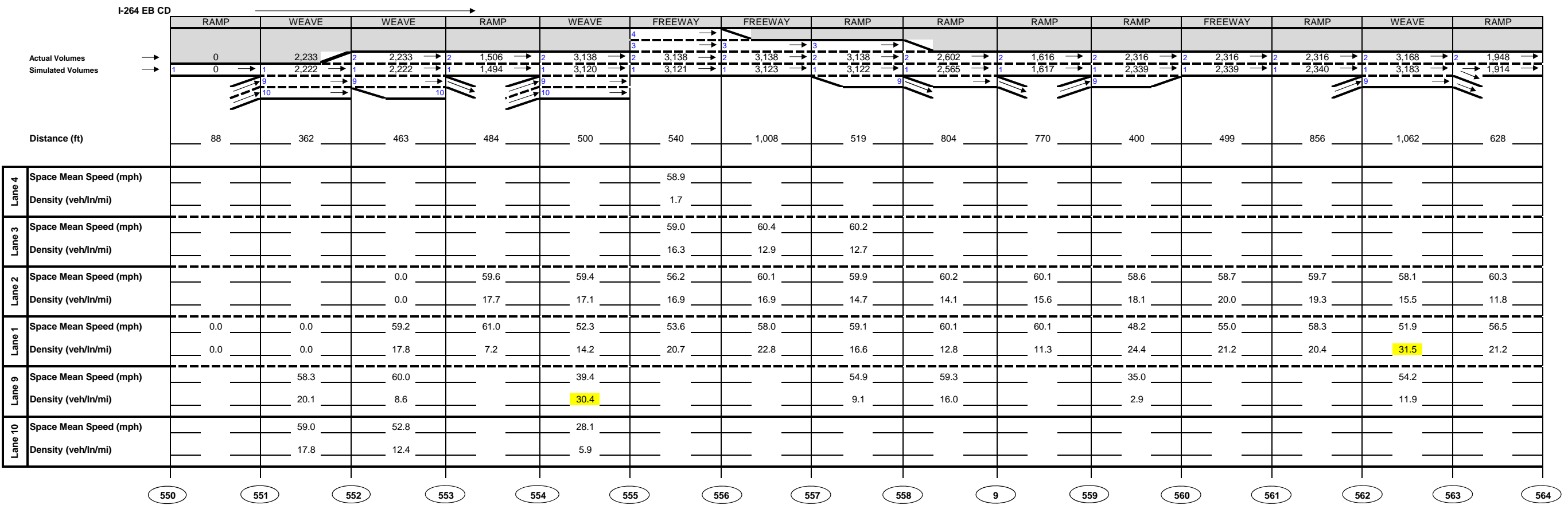
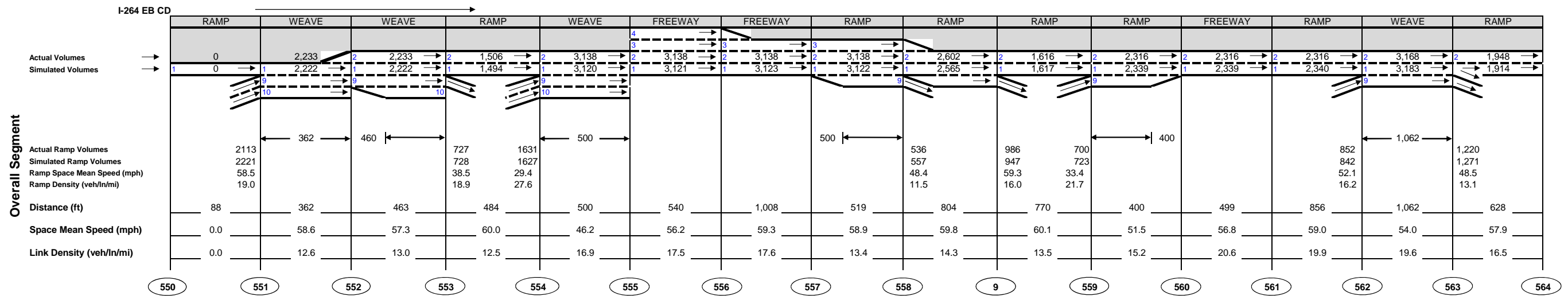


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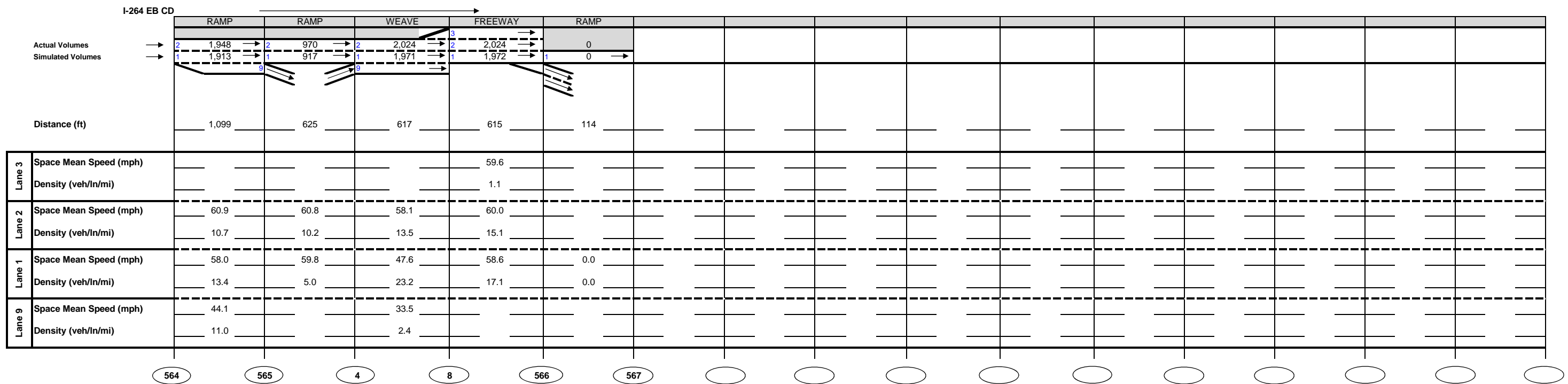
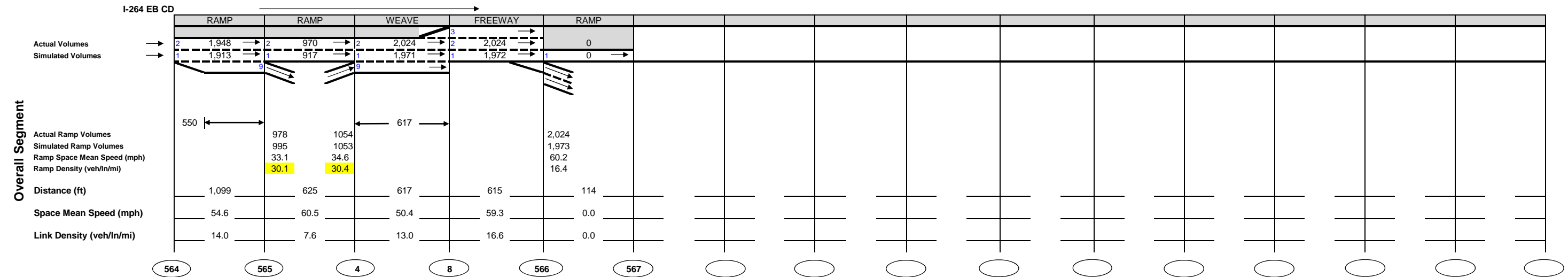
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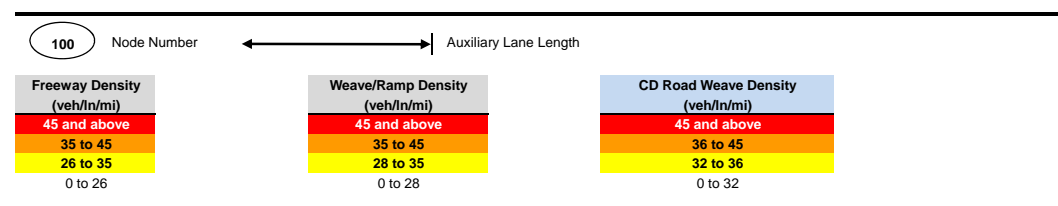
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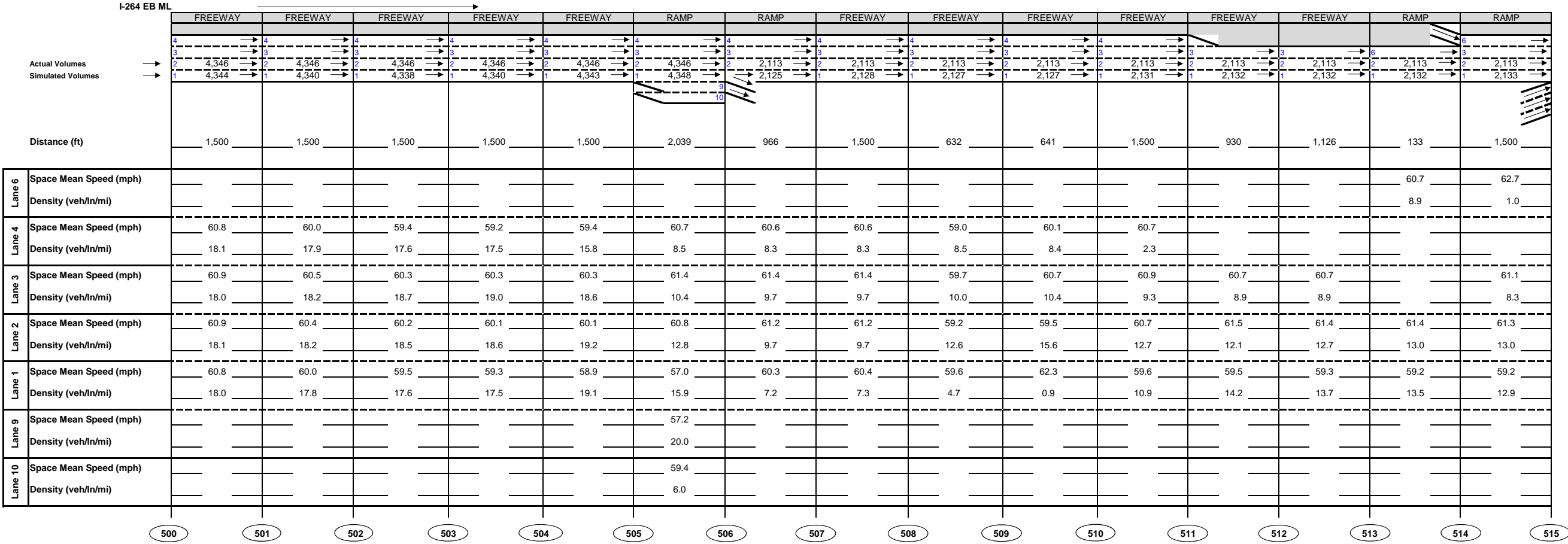
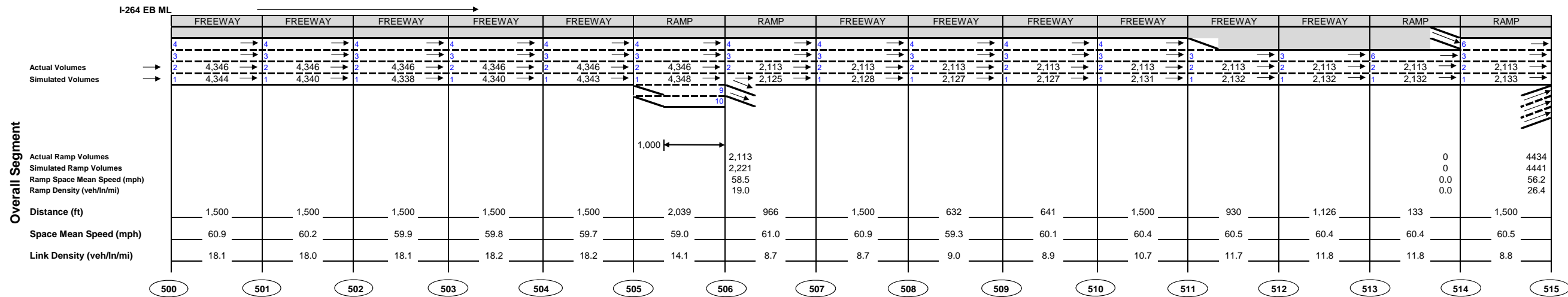
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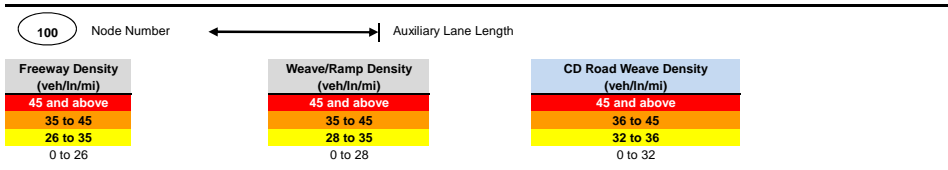
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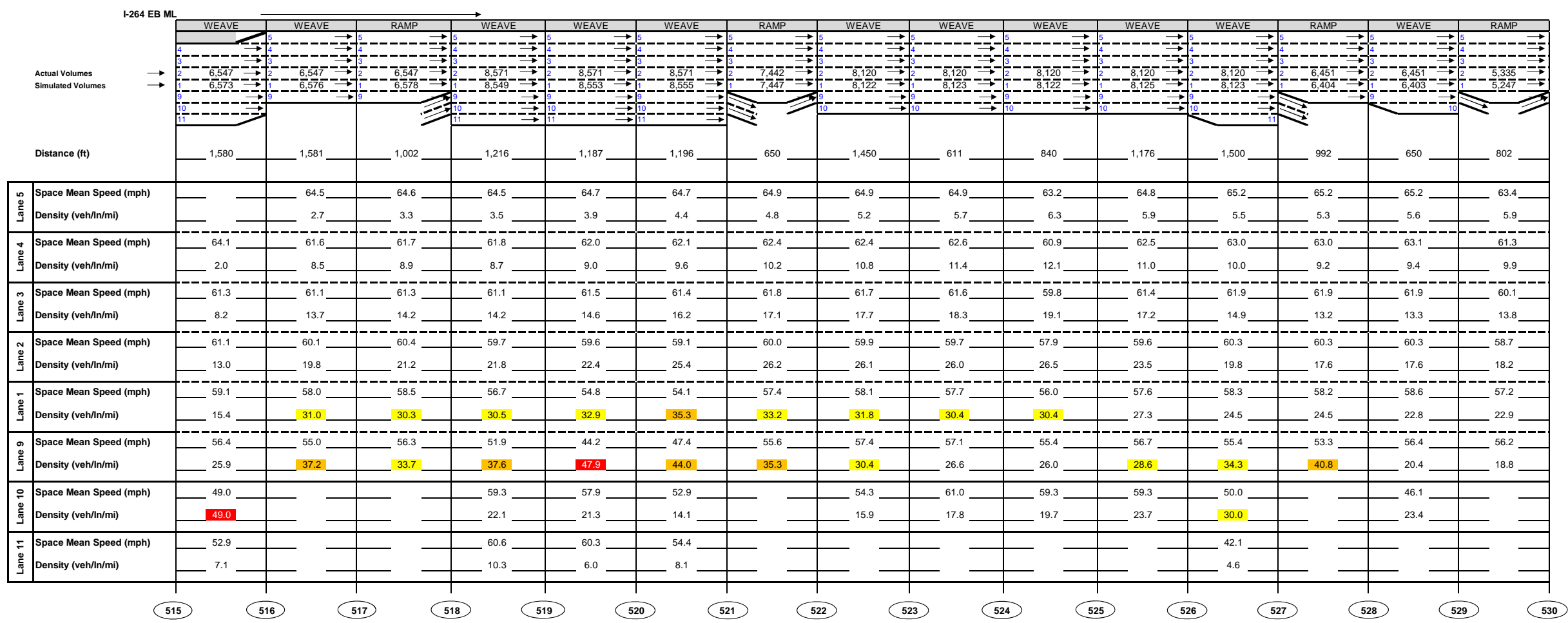
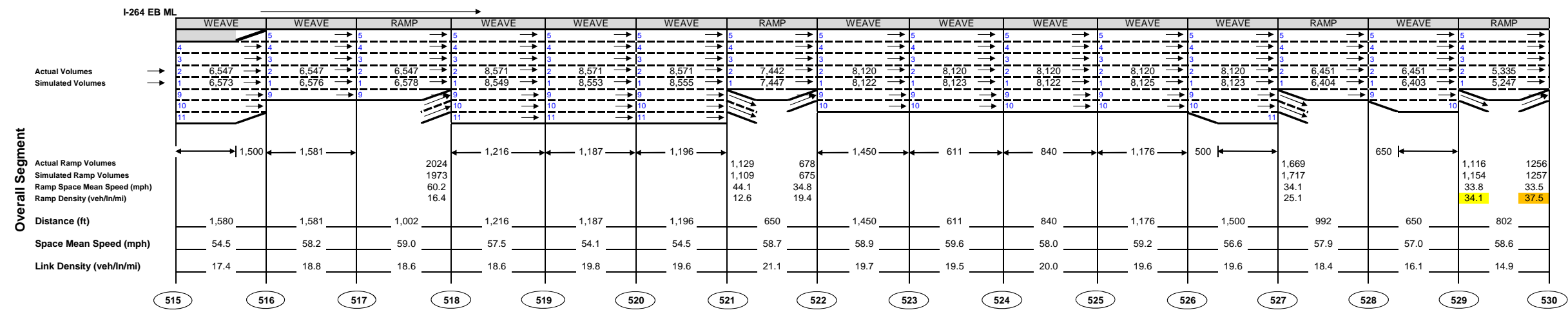
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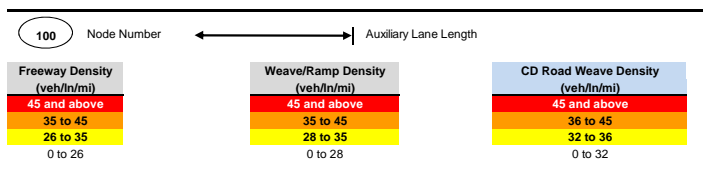
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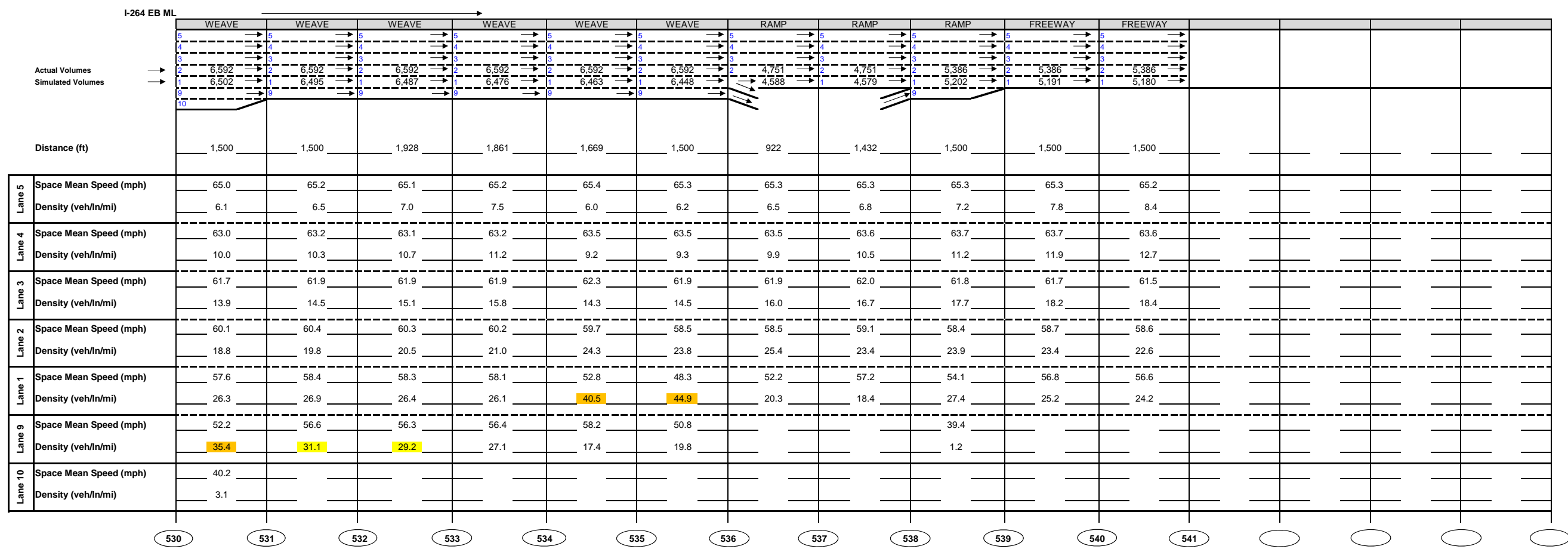
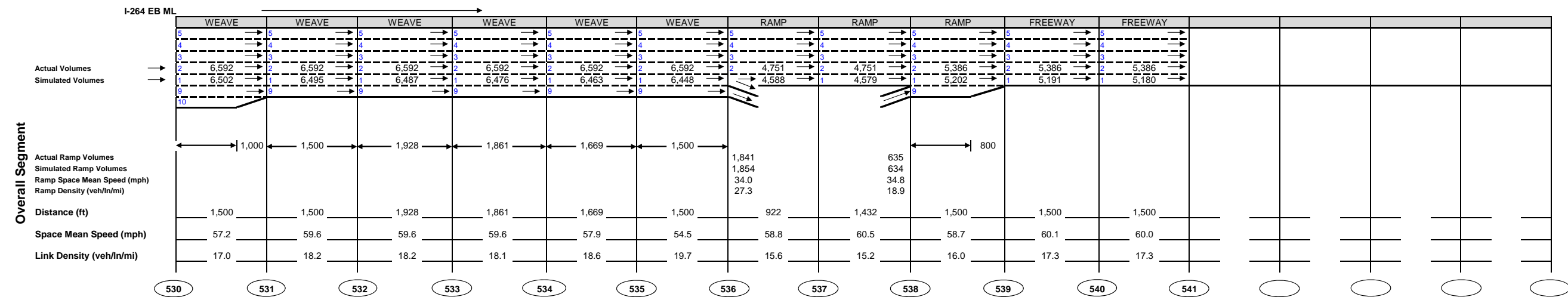
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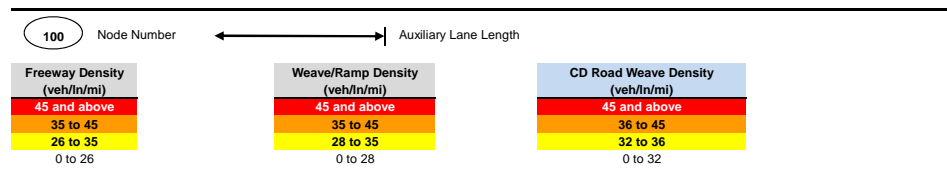
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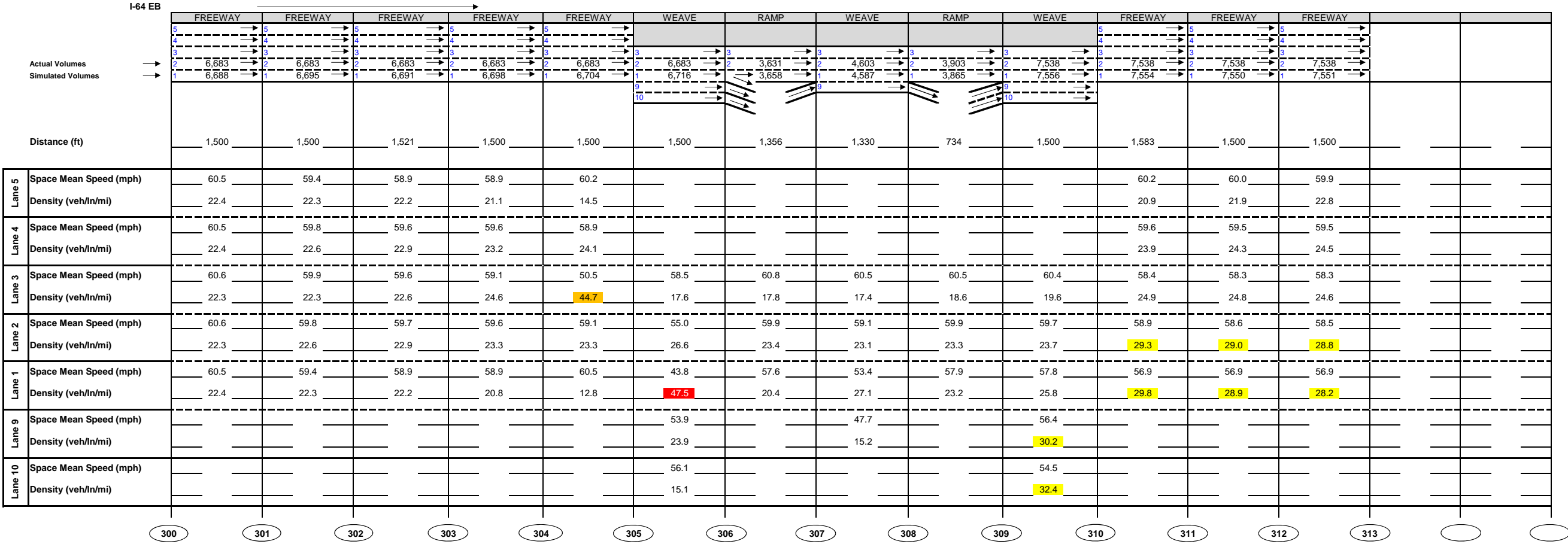
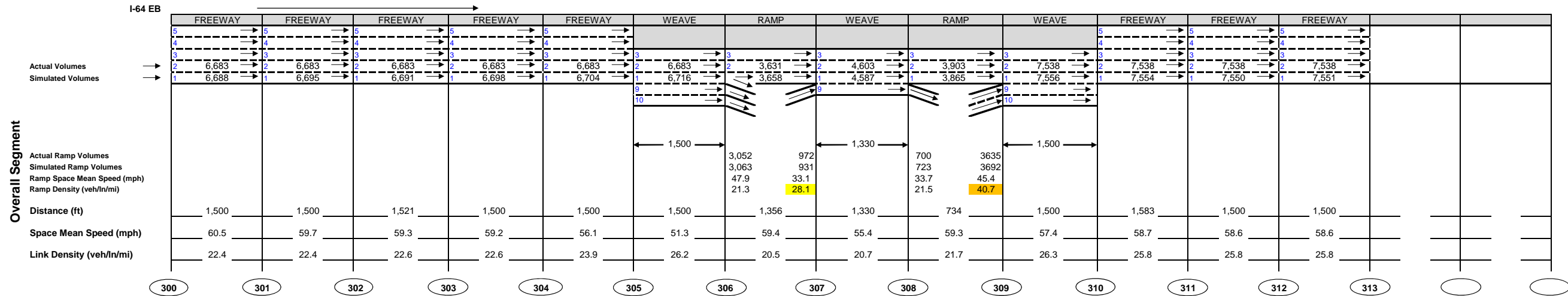
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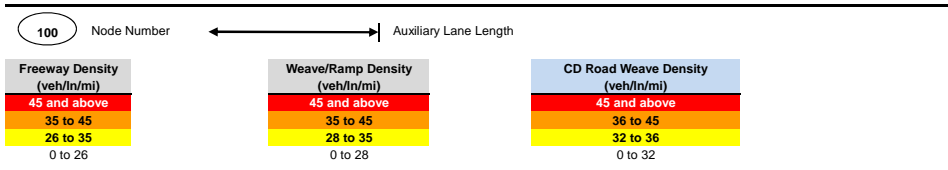
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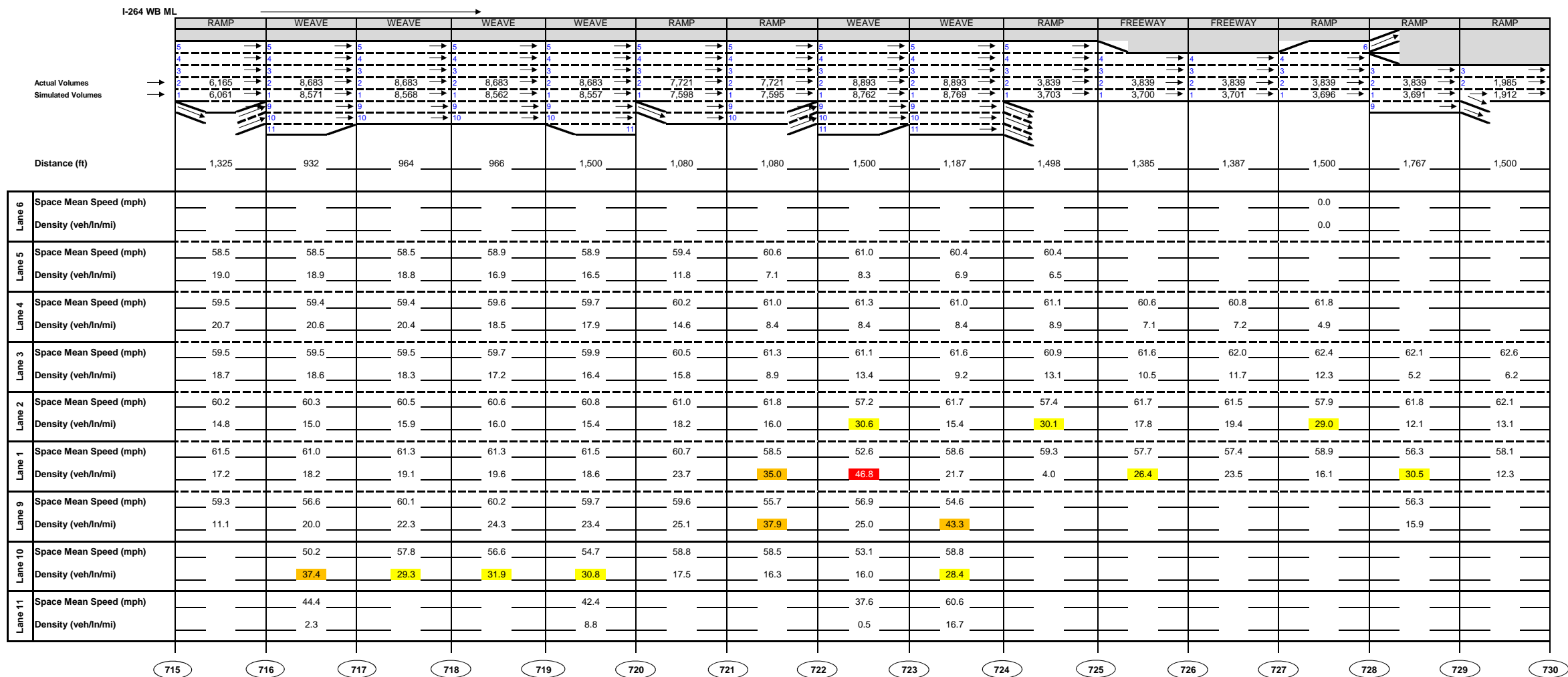
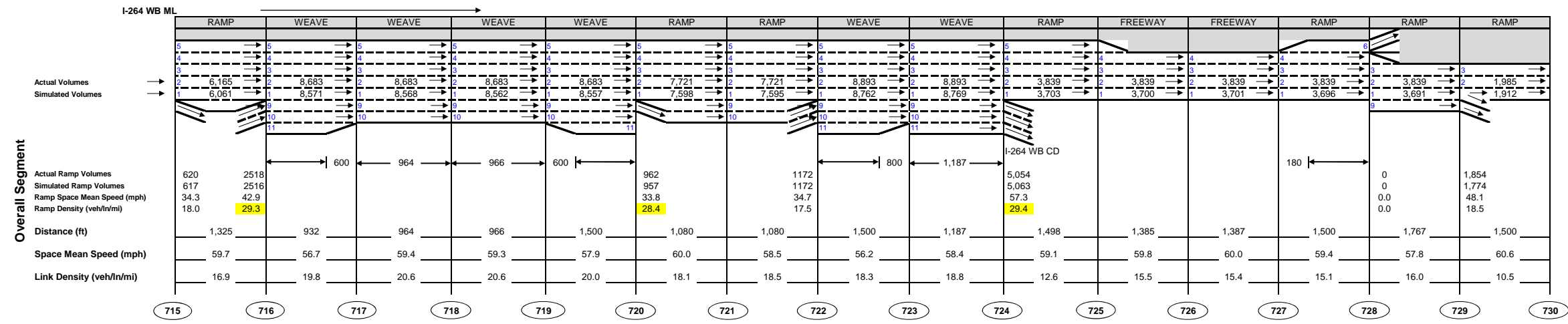


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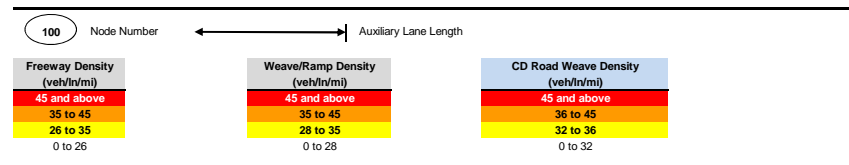
Rosemont Road Interchange Offset SPUD Build Alternative - Link Descriptions (AM Peak Hour)

Interchange	Link	AM Density	AM LOS	Interchange	Link	AM Density	AM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	18.1	C	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.8	A
EB I-264 ML to EB I-264 CD (Diverge)	505,506	14.1	B	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	18.2	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	13.0	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	14.0	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	16.9	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	18.6	B
NB Military Hwy to EB I-264 CD (Merge)	556,557	17.6	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.6	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.7	A	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.2	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.0	B	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.2	B
EB I-64 to WB I-264 CD (Merge)	759,760	13.4	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.5	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	16.7	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	18.5	B
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	11.9	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	28.7	D
SB Military Hwy to WB I-264 CD (Merge)	764,765	15.3	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	28.7	D	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	19.6	C
WB I-264 West of Military Hwy (Freeway)	734,735	26.9	D	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	19.7	B
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.6	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	8.7	A	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.6	D
EB I-264 ML to WB I-64 (Diverge)	510,511	10.7	B	WB I-264 to Witchduck Rd (Diverge)	719,720	26.3	C
EB I-264 CD to EB I-64 (Diverge)	557,558	13.4	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	25.2	C
EB/WB I-64 & EB I-264 CD (Weave)	559,560	15.2	B	Independence Boulevard Interchange			
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	19.9	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	19.6	C
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	8.8	A	EB I-264 to SB Independence Blvd (Diverge)	526,527	19.6	B
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	28.7	D	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	16.1	B
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	29.2	D	NB Independence Blvd to EB I-264 (Merge)	530,531	17.0	B
WB I-264 ML to EB I-64 (Diverge)	728,729	29.1	D	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.1	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	18.2	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.9	D
EB/WB I-64 & WB I-264 CD (Weave)	757,758	16.8	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	25.7	C
EB I-64 to WB I-264 CD (Merge)	759,760	13.4	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	21.7	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	17.0	B	SB Independence Blvd to WB I-264 (Merge)	716,717	26.5	C
EB I-64 North of I-264 (Freeway)	301,302	22.4	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	27.6	D
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	20.7	C	Rosemont Road Interchange			
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	26.3	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	18.1	C
EB I-64 South of I-264 (Freeway)	312,313	25.8	C	EB I-264 to Rosemont Rd (Diverge)	535,536	19.7	B
WB I-64 South of I-264 (Freeway)	101,102	25.5	C	NB/SB Rosemont Rd to EB I-264 (Merge)	538,539	16.0	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	24.8	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	17.3	B
WB I-64 to I-264 EB (Diverge)	104,105	25.5	C	WB I-264 East of Rosemont Rd (Freeway)	700,701	31.7	D
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	17.2	B	WB I-264 to Rosemont Rd (Diverge)	702,703	29.8	D
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	20.8	C	NB/SB Rosemont Rd to WB I-264 (Merge)	705,706	27.9	C
WB I-64 North of I-264 (Freeway)	110,111	22.5	C	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	26.9	D

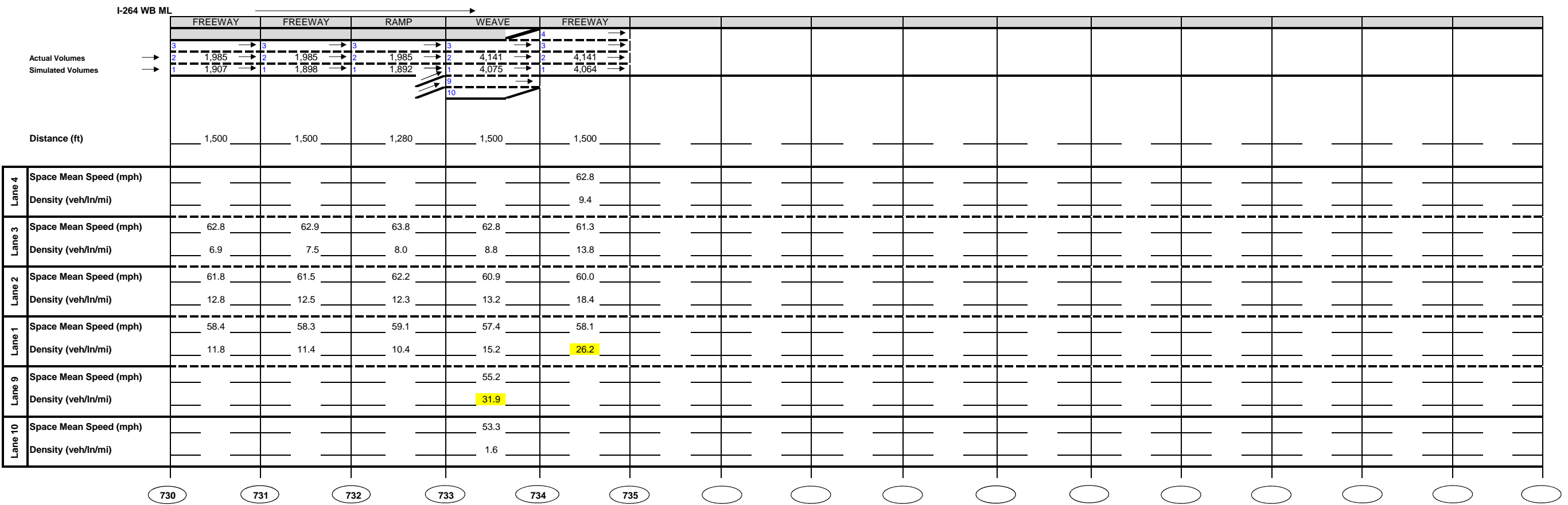
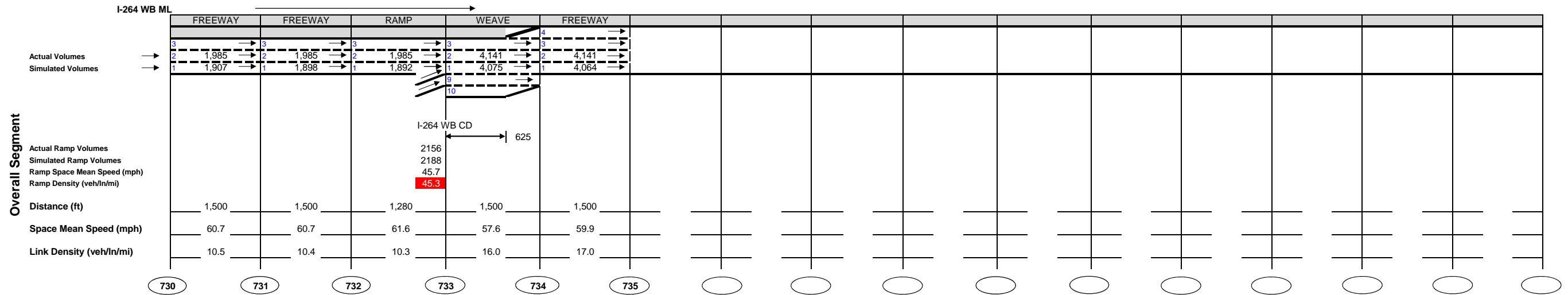


NOTE: numbers in chart are provided for illustrative purposes only

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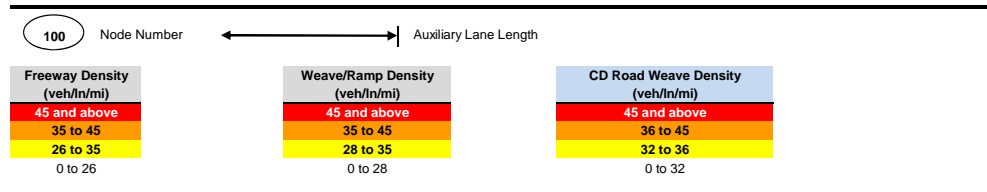


This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).



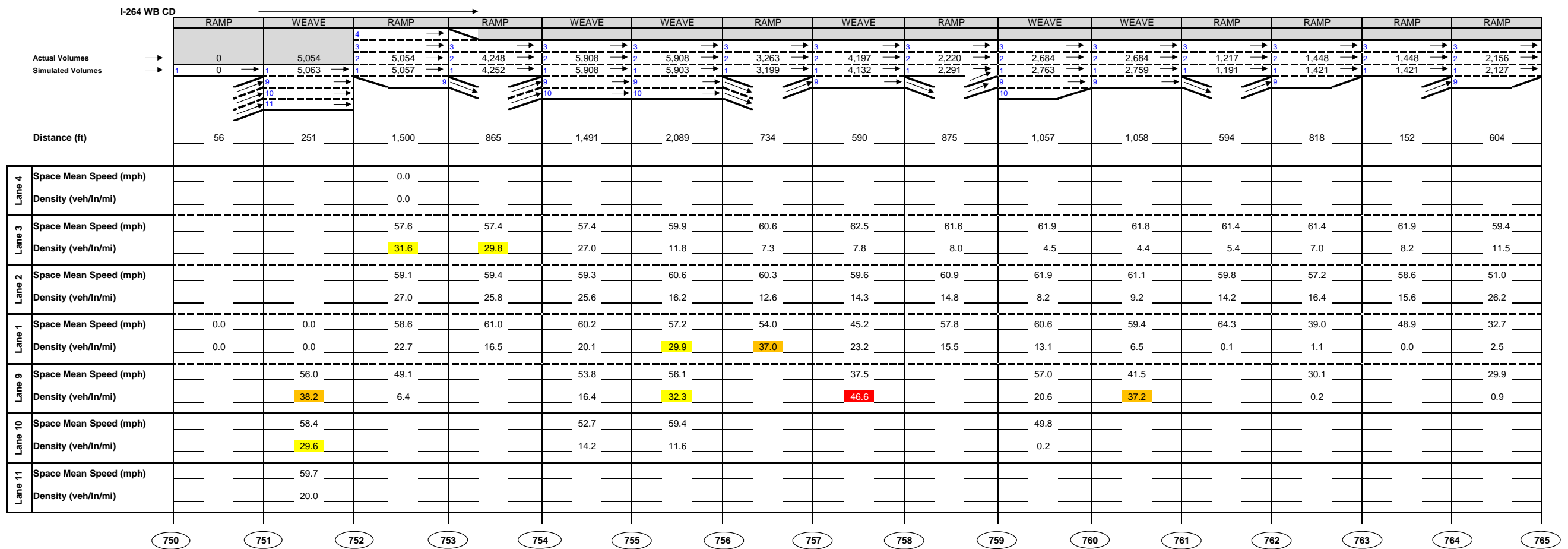
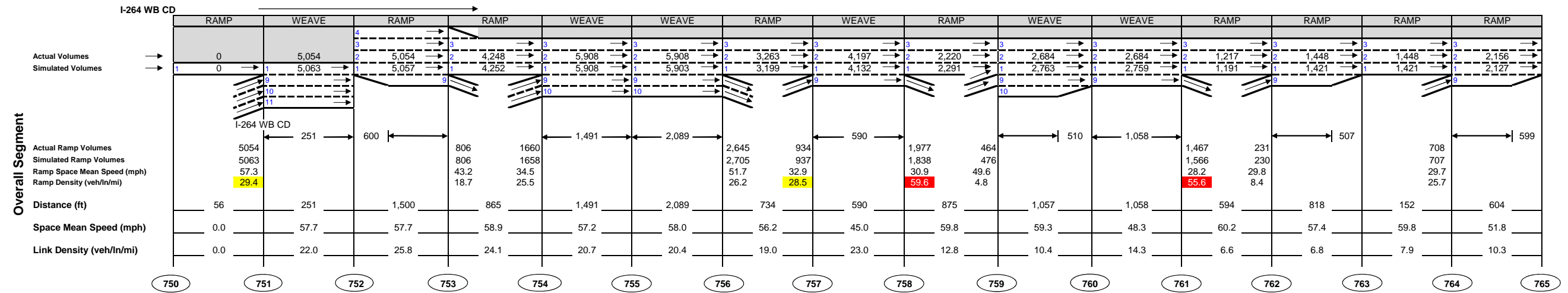
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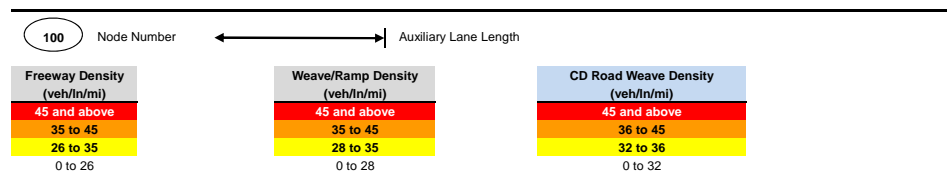
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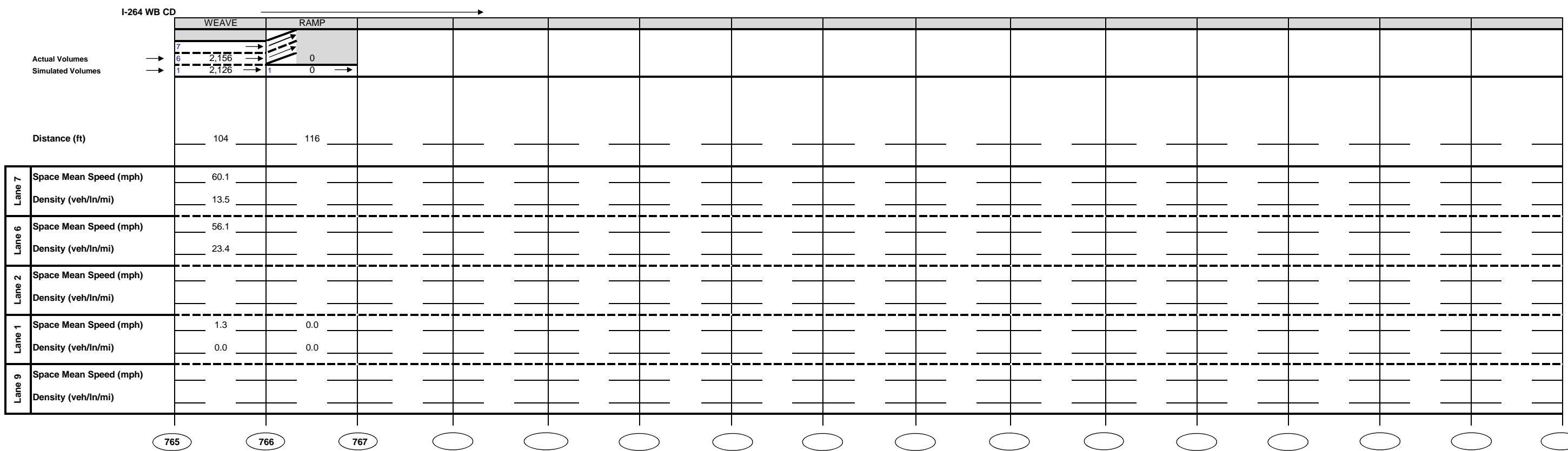
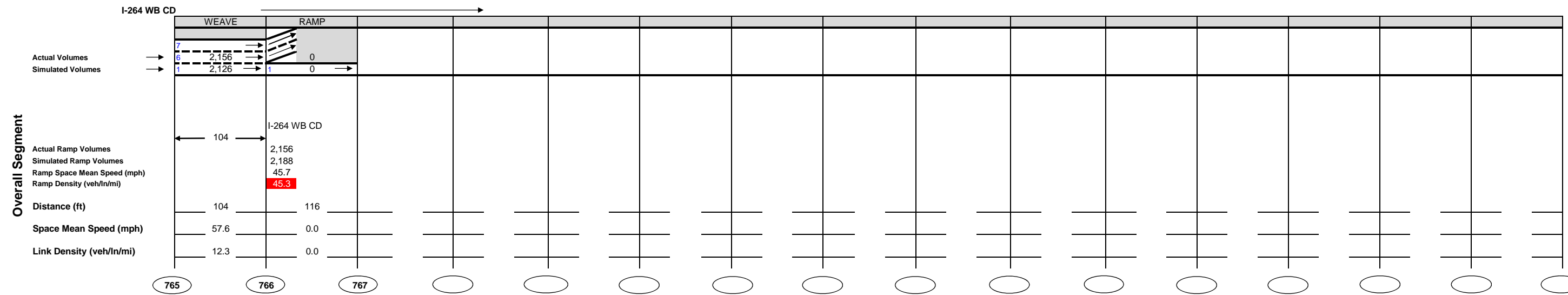


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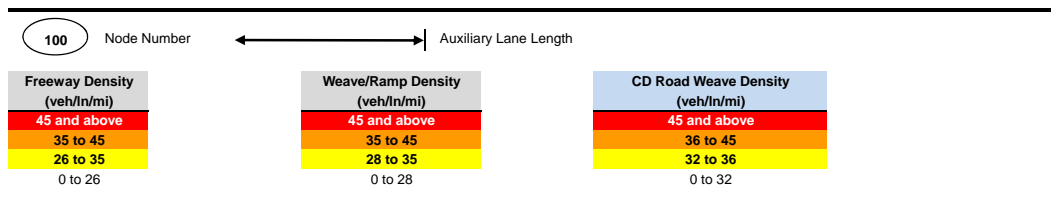


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This output was created using a beta version of the VDOT Traffic Analysis Tool Guidebook CORSIM Freeway Output Template Processing Tool (Beta Version 1.2).

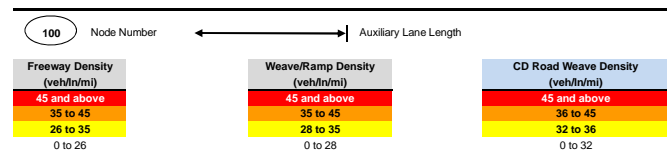


Overall Segment	I-64 WB											
	100	101	102	103	104	105	106	107	108	109	110	111
Actual Volumes	7,887	7,887	7,887	7,887	7,887	4,470	4,470	3,536	7,742	7,742	7,742	
Simulated Volumes	7,877	7,876	7,875	7,870	7,869	4,392	4,387	3,444	7,683	7,668	7,651	
Actual Ramp Volumes			250	0	1,500	3,417	1,070	934	4206			
Simulated Ramp Volumes				0		3,470		937	4251			
Ramp Space Mean Speed (mph)				0.0		49.4		33.1	51.9			
Ramp Density (veh/ln/mi)				0.0		35.1		28.3	27.3			
Distance (ft)	1,513	1,500	1,500	2,004	1,500	869	1,070	1,041	1,500	1,500	1,500	
Space Mean Speed (mph)	60.2	59.0	58.7	57.4	55.8	55.5	56.2	59.6	55.0	58.6	58.5	
Link Density (veh/ln/mi)	26.5	26.7	26.0	27.4	28.2	26.4	19.6	19.3	25.3	26.2	26.2	

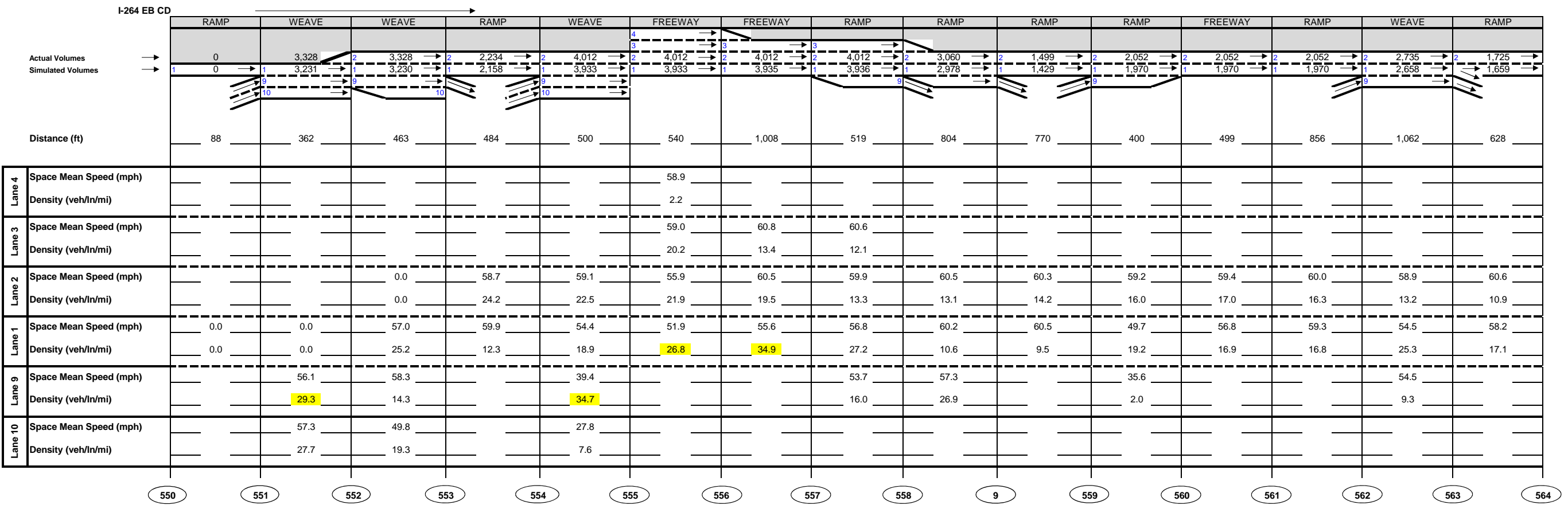
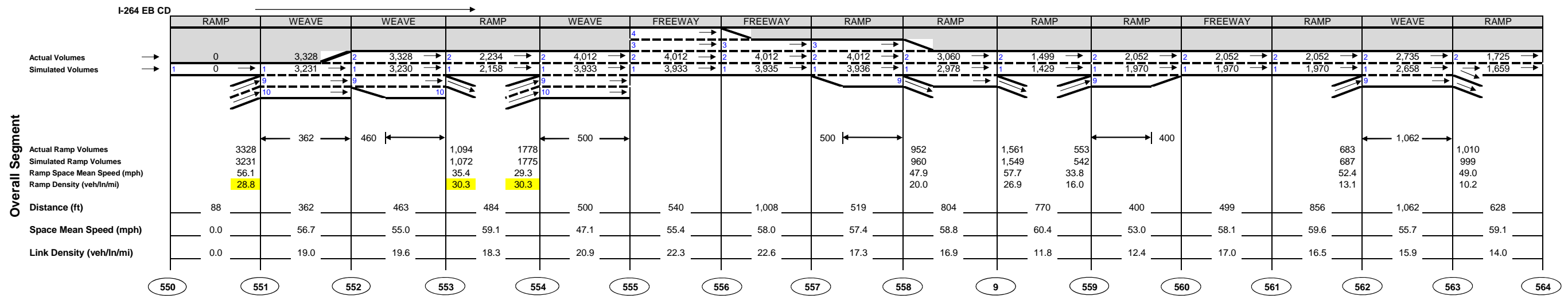
Lane	I-64 WB											
	100	101	102	103	104	105	106	107	108	109	110	111
Distance (ft)	1,513	1,500	1,500	2,004	1,500	869	1,070	1,041	1,500	1,500	1,500	
Lane 6												
Space Mean Speed (mph)			0.0									
Density (veh/ln/mi)			0.0									
Lane 5												
Space Mean Speed (mph)	60.1	58.8	58.2	59.7						60.2	60.1	
Density (veh/ln/mi)	26.4	26.5	26.5	17.4						18.7	19.4	
Lane 4												
Space Mean Speed (mph)	60.2	59.2	59.0	59.5						59.8	59.8	
Density (veh/ln/mi)	26.6	26.9	27.2	23.8						22.0	22.3	
Lane 3												
Space Mean Speed (mph)	60.2	59.3	59.1	55.6	59.7	58.7	60.1	60.4	60.3	58.9	58.8	
Density (veh/ln/mi)	26.6	26.7	26.7	38.7	16.5	15.6	16.1	16.9	17.9	24.0	25.0	
Lane 2												
Space Mean Speed (mph)	60.1	59.2	59.0	56.0	59.2	58.3	60.0	60.1	59.8	58.1	57.9	
Density (veh/ln/mi)	26.5	26.8	27.2	37.6	23.6	24.0	22.4	22.0	22.1	31.2	30.8	
Lane 1												
Space Mean Speed (mph)	60.2	58.8	58.3	59.3	54.0	52.5	57.1	58.3	58.1	57.2	57.0	
Density (veh/ln/mi)	26.5	26.5	26.4	19.5	37.6	39.7	20.7	19.0	21.9	35.0	33.5	
Lane 9												
Space Mean Speed (mph)					52.7		47.3		55.3			
Density (veh/ln/mi)					39.0		18.9		30.0			
Lane 10												
Space Mean Speed (mph)					57.8				49.3			
Density (veh/ln/mi)					24.3				45.1			
Lane 11												
Space Mean Speed (mph)									48.9			
Density (veh/ln/mi)									2.9			

NOTE: numbers in chart are provided for illustrative purposes only

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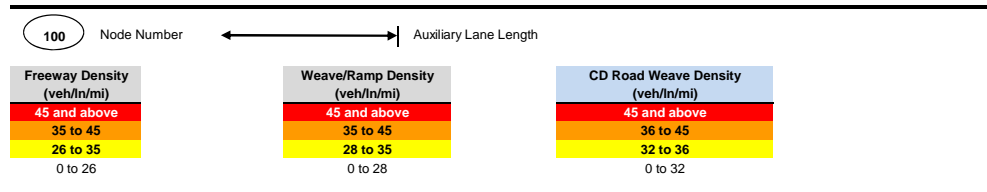


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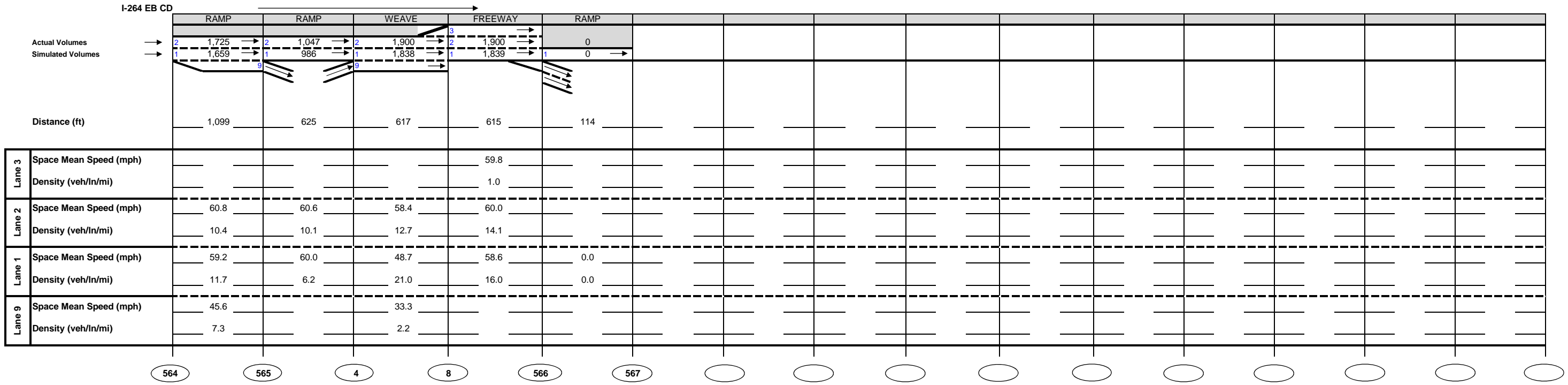
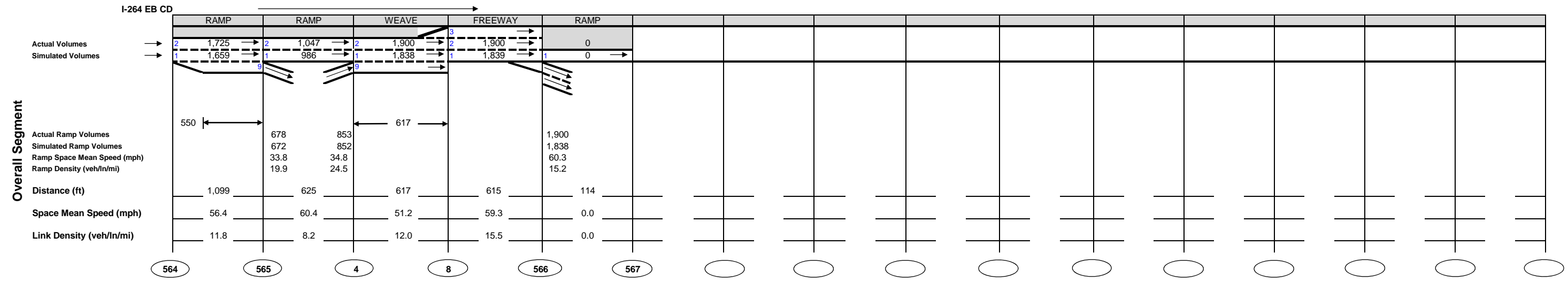
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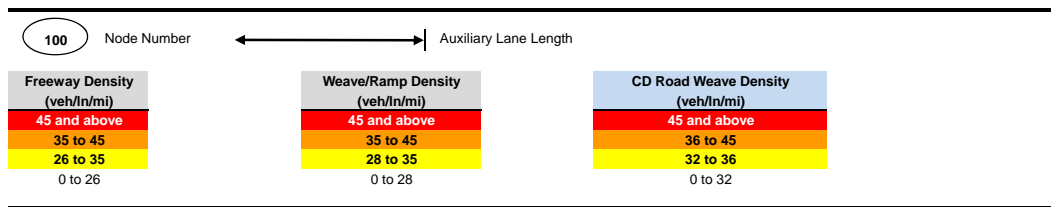
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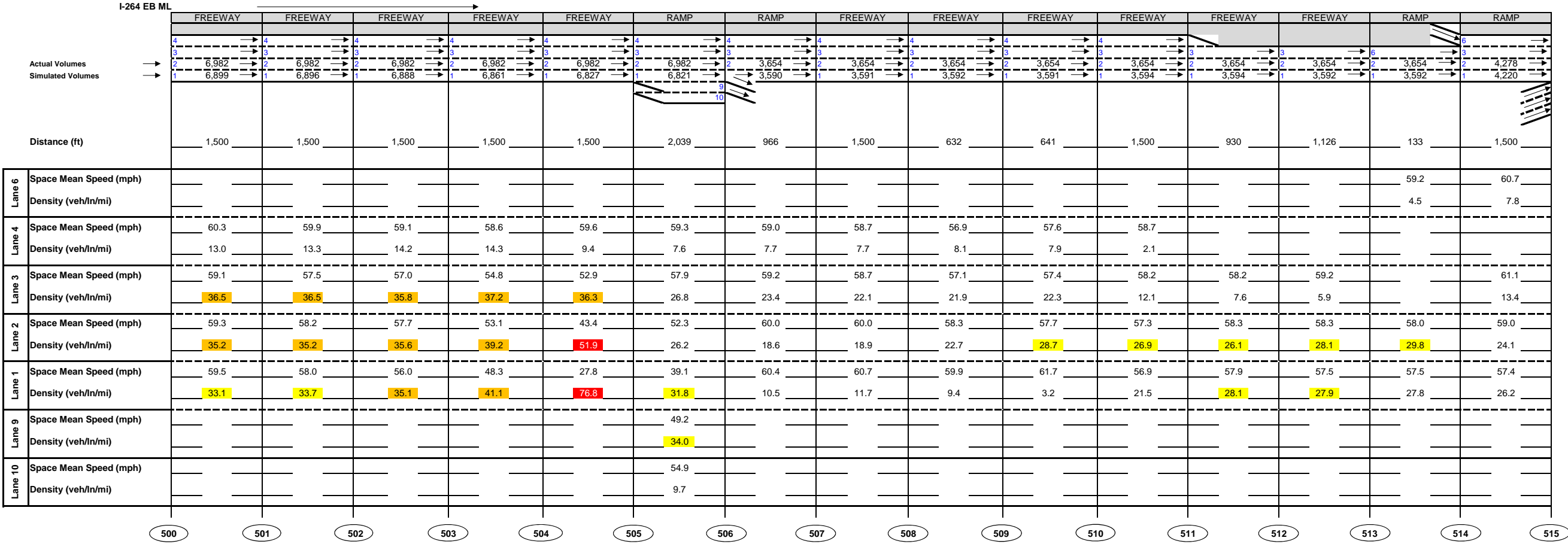
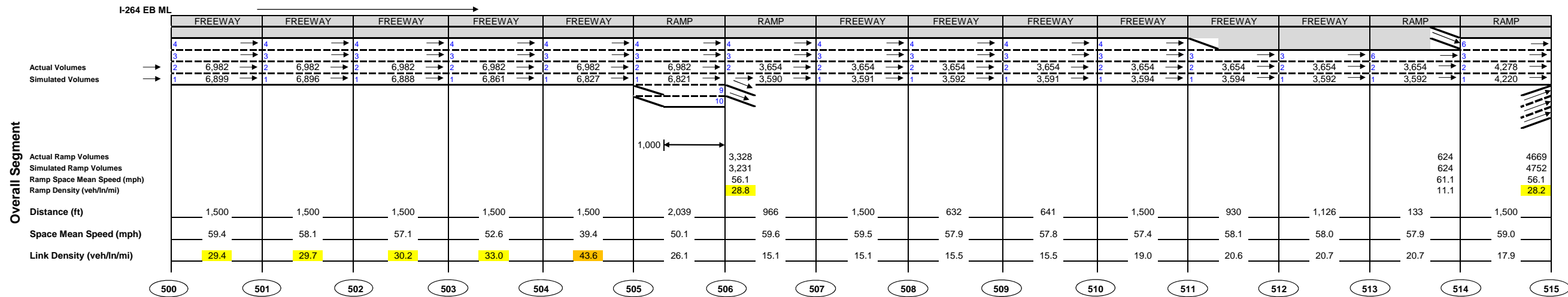
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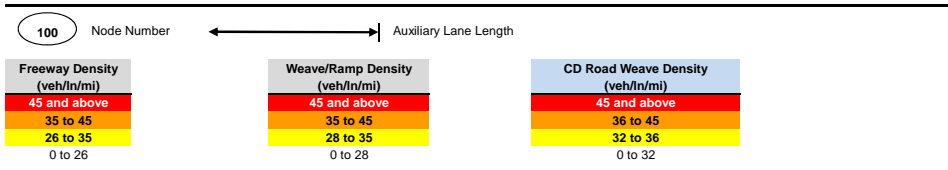
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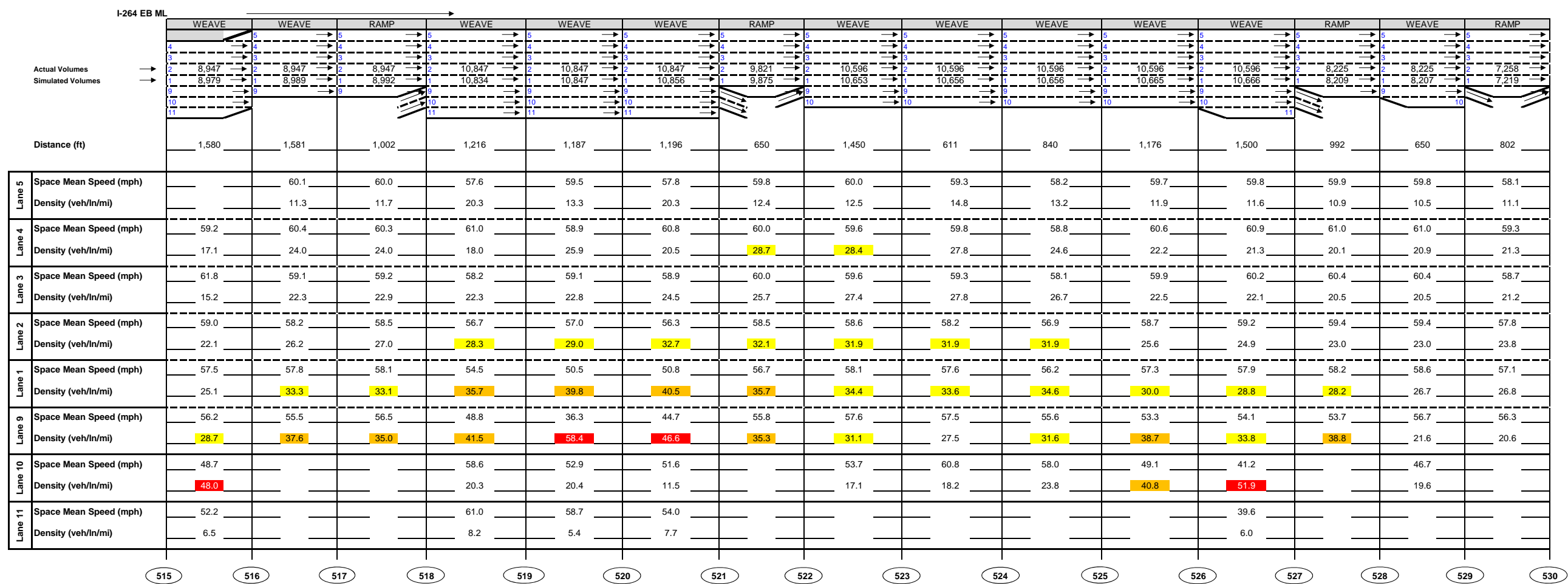
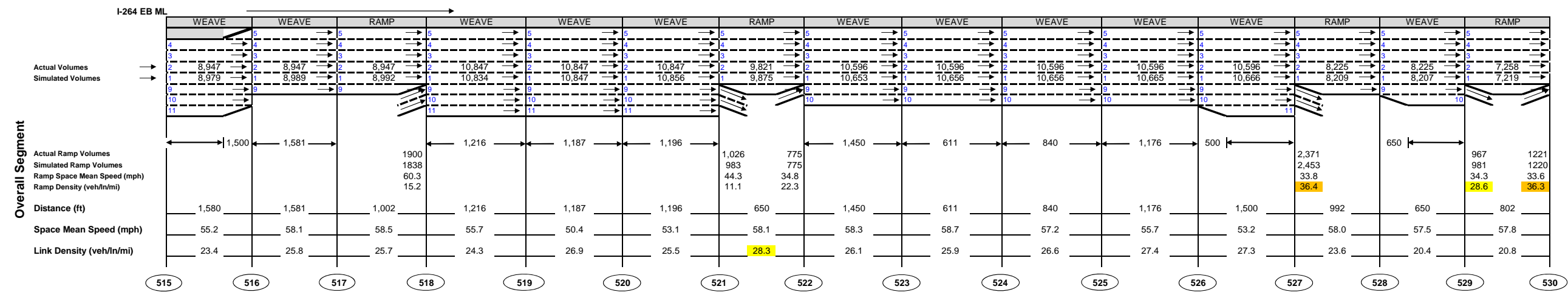
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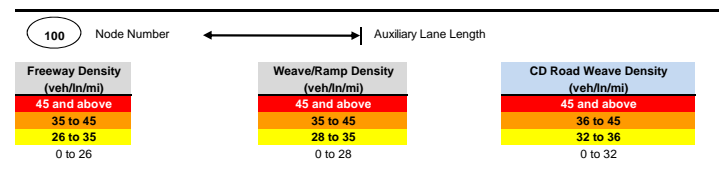
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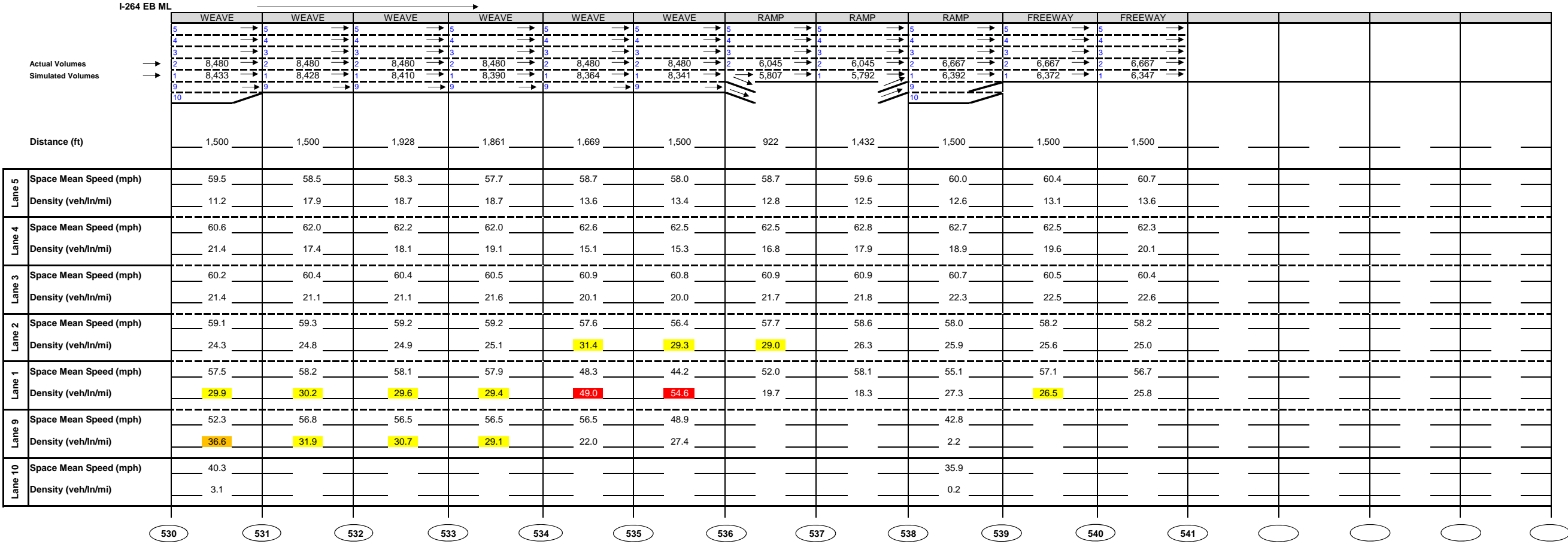
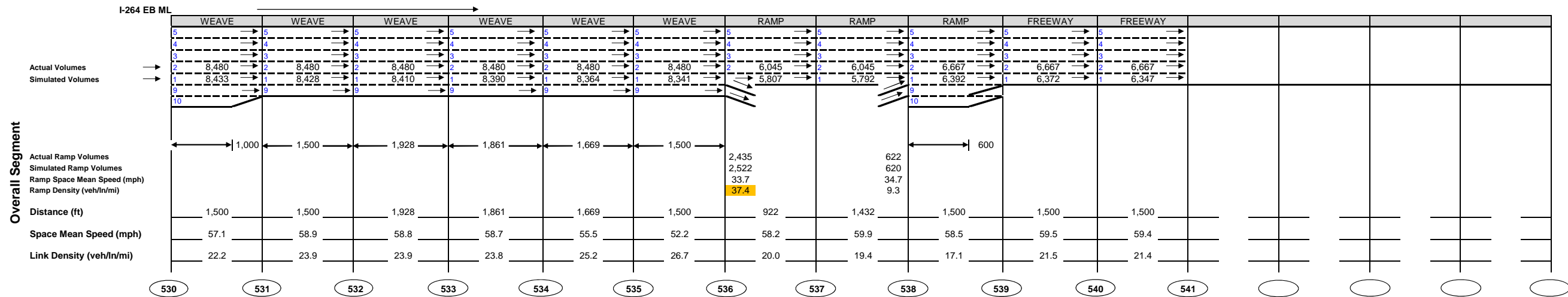
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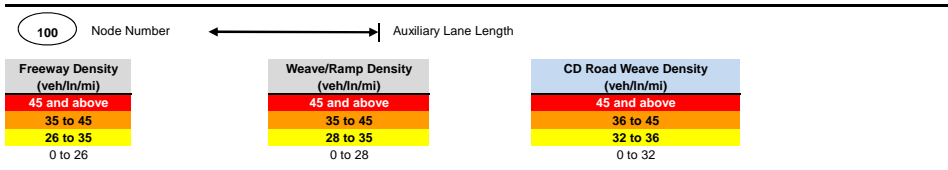
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Overall Segment	I-64 EB												
	300-301	301-302	302-303	303-304	304-305	305-306	306-307	307-308	308-309	309-310	310-311	311-312	312-313
Actual Volumes	6,142	6,142	6,142	6,142	6,142	6,142	6,142	5,720	5,167	7,973	7,973	7,973	7,973
Simulated Volumes	6,154	6,160	6,165	6,176	6,182	6,192	6,192	5,614	5,073	7,804	7,803	7,799	7,801
Actual Ramp Volumes						1,500	2,399	1,330	553	1,500			
Simulated Ramp Volumes						1,500	2,422	1,330	542	1,500			
Ramp Space Mean Speed (mph)							48.4		34.1				
Ramp Density (veh/ln/mi)							16.7		15.9				
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500
Space Mean Speed (mph)	60.7	59.9	59.6	59.5	57.1	52.7	59.3	53.1	58.6	58.0	58.8	58.7	58.7
Link Density (veh/ln/mi)	20.5	20.6	20.7	20.7	21.6	23.5	21.2	26.4	28.9	26.9	26.6	26.6	26.6

Overall Segment	I-64 EB													
	300-301	301-302	302-303	303-304	304-305	305-306	306-307	307-308	308-309	309-310	310-311	311-312	312-313	
Actual Volumes	6,142	6,142	6,142	6,142	6,142	6,142	6,142	5,720	5,167	7,973	7,973	7,973	7,973	
Simulated Volumes	6,154	6,160	6,165	6,176	6,182	6,192	6,192	5,614	5,073	7,804	7,803	7,799	7,801	
Distance (ft)	1,500	1,500	1,521	1,500	1,500	1,500	1,356	1,330	734	1,500	1,583	1,500	1,500	
Lane 5	Space Mean Speed (mph)	60.6	59.6	59.1	59.0	59.9					59.9	59.6	59.4	
Lane 5	Density (veh/ln/mi)	20.5	20.4	20.2	19.2	14.1					25.7	27.0	27.8	
Lane 4	Space Mean Speed (mph)	60.6	60.0	59.8	59.8	59.3					58.8	58.7	58.7	
Lane 4	Density (veh/ln/mi)	20.6	20.7	21.0	21.4	22.3					29.2	28.6	28.2	
Lane 3	Space Mean Speed (mph)	60.6	59.9	59.8	59.3	52.5	58.5	60.6	60.0	60.3	60.2	57.1	57.2	57.3
Lane 3	Density (veh/ln/mi)	20.5	20.5	20.7	22.6	41.2	16.9	17.9	19.5	22.2	23.8	27.5	25.9	25.2
Lane 2	Space Mean Speed (mph)	60.7	60.1	59.9	60.0	60.1	56.2	59.9	57.7	59.3	59.2	60.6	60.2	59.9
Lane 2	Density (veh/ln/mi)	20.6	20.8	21.2	21.5	20.4	25.9	24.1	29.1	30.1	29.8	26.6	27.8	28.2
Lane 1	Space Mean Speed (mph)	60.7	59.7	59.2	59.2	61.0	46.3	57.5	49.5	57.0	57.1	57.6	57.6	57.7
Lane 1	Density (veh/ln/mi)	20.5	20.4	20.3	18.9	10.2	43.7	21.6	43.4	34.3	31.2	23.7	23.5	23.6
Lane 9	Space Mean Speed (mph)						55.0		45.2		58.2			
Lane 9	Density (veh/ln/mi)						19.4		13.7		24.6			
Lane 10	Space Mean Speed (mph)						56.7				55.6			
Lane 10	Density (veh/ln/mi)						11.4				25.2			

NOTE: numbers in chart are provided for illustrative purposes only

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100 Node Number ← Auxiliary Lane Length

Freeway Density (veh/ln/mi)	Weave/Ramp Density (veh/ln/mi)	CD Road Weave Density (veh/ln/mi)
45 and above	45 and above	45 and above
35 to 45	35 to 45	36 to 45
26 to 35	28 to 35	32 to 36
0 to 26	0 to 28	0 to 32

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Rosemont Road Interchange Offset SPUD Build Alternative - Link Descriptions (PM Peak Hour)

Interchange	Link	PM Density	PM LOS	Interchange	Link	PM Density	PM LOS
Military Highway Interchange				Newtown Road Interchange			
EB I-264 West of Military Hwy (Freeway)	502,503	30.2	D	EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.9	B
EB I-264 ML to EB I-264 CD (Diverge)	505,506	26.1	C	WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	755,756	20.4	B
EB I-264 CD to SB Military Hwy (Diverge)	552,553	19.6	B	NB/SB Newtown Rd & EB I-264 CD (Weave)	564,565	11.8	B
NB/SB Military Hwy & EB I-264 CD (Weave)	554,555	20.9	B	EB I-264 CD to EB I-264 ML (Merge)	517,518	25.7	C
NB Military Hwy to EB I-264 CD (Merge)	556,557	22.6	C	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.5	C
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.1	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.8	C
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.5	A	SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.4	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.4	B	WB I-264 CD to NB Newtown Road (Diverge)	752,753	25.8	C
WB I-264 CD to NB Military Hwy (Diverge)	760,761	14.3	B	NB Newtown Rd to WB I-264 CD (Merge)	754,755	20.7	C
NB/SB Military Hwy & WB I-264 CD (Weave)	762,763	6.8	A	WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.4	B
SB Military Hwy to WB I-264 CD (Merge)	764,765	10.3	B	Witchduck Road Interchange			
WB I-264 CD to WB I-264 ML (Merge)	733,734	16.0	B	EB I-264 between Newtown Rd and Witchduck Rd (Freeway)	520,521	25.5	C
WB I-264 West of Military Hwy (Freeway)	734,735	17.0	B	NB/SB Witchduck Rd & I-264 EB (Weave)	522,523	26.1	C
I-64/I-264 Interchange				EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	27.4	D
EB I-264 ML between Military Hwy and I-64 (Freeway)	507,508	15.1	B	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.6	C
EB I-264 ML to WB I-64 (Diverge)	510,511	19.0	B	WB I-264 to Witchduck Rd (Diverge)	719,720	20.0	B
EB I-264 CD to EB I-64 (Diverge)	557,558	17.3	B	WB I-264 between Newtown Rd and Witchduck Rd (Freeway)	723,724	18.8	C
EB/WB I-64 & EB I-264 CD (Weave)	559,560	12.4	B	Independence Boulevard Interchange			
WB I-64 to EB I-264 CD & EB I-264 CD to SB Newtown Rd (Weave)	561,562	16.5	B	EB I-264 between Witchduck Rd and Independence Blvd (Freeway)	525,526	27.4	D
EB I-264 ML between I-64 and Newtown Rd (Freeway)	514,515	17.9	B	EB I-264 to SB Independence Blvd (Diverge)	526,527	27.3	C
WB I-264 ML between I-64 and Newtown Rd (Freeway)	726,727	15.4	B	NB/SB Independence Blvd & I-264 EB (Weave)	528,529	20.4	C
WB I-264 ML to WB I-64 HOV (Diverge)	727,728	15.1	B	NB Independence Blvd to EB I-264 (Merge)	530,531	22.2	C
WB I-264 ML to EB I-64 (Diverge)	728,729	16.0	B	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.8	C
SB Newtown Rd to WB I-264 CD & WB I-264 CD to WB I-64 (Weave)	755,756	20.4	B	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.8	C
EB/WB I-64 & WB I-264 CD (Weave)	757,758	23.0	B	WB I-264 to NB Independence Blvd (Diverge)	712,713	19.8	B
EB I-64 to WB I-264 CD (Merge)	759,760	10.4	B	NB/SB Independence Blvd & I-264 WB (Weave)	714,715	16.5	B
WB I-264 ML between Military Hwy and I-64 (Freeway)	730,731	10.5	A	SB Independence Blvd to WB I-264 (Merge)	716,717	19.8	B
EB I-64 North of I-264 (Freeway)	301,302	20.6	C	WB I-264 between Witchduck Rd and Independence Blvd (Freeway)	718,719	20.6	C
WB I-264 CD/EB I-264 CD & EB I-64 (Weave)	307,308	26.4	C	Rosemont Road Interchange			
WB I-264 ML & EB I-264 CD to EB I-64 (Merge)	309,310	26.9	C	EB I-264 between Independence Blvd and Rosemont Rd (Freeway)	533,534	23.8	C
EB I-64 South of I-264 (Freeway)	312,313	26.6	D	EB I-264 to Rosemont Rd (Diverge)	535,536	26.7	C
WB I-64 South of I-264 (Freeway)	101,102	26.7	D	NB/SB Rosemont Rd to EB I-264 (Merge)	538,539	17.1	B
WB I-64 to I-64 WB HOV (Diverge)	102,103	26.0	C	EB I-264 East of Rosemont Rd (Freeway)	540,541	21.4	C
WB I-64 to I-264 EB (Diverge)	104,105	28.2	D	WB I-264 East of Rosemont Rd (Freeway)	700,701	26.6	D
EB I-264 CD/WB I-264 CD & WB I-64 (Weave)	106,107	19.6	B	WB I-264 to Rosemont Rd (Diverge)	702,703	24.9	C
EB I-264 ML & WB I-264 CD to WB I-64 (Merge)	108,109	25.3	C	NB/SB Rosemont Rd to WB I-264 (Merge)	705,706	21.7	C
WB I-64 North of I-264 (Freeway)	110,111	26.2	D	WB I-264 between Independence Blvd and Rosemont Rd (Freeway)	707,708	20.8	C