

**Table 3-9** A.M. Peak-Hour Screenline Impacts Analysis—Existing Conditions, No Build Alternative, and Project (continued on next page)

Screenline/Facility		Year 2005 Conditions								2030 No Build Alternative								2030 Project								Screenline Impact Analysis		
		# of Lanes	Observed Volume (vph) <sup>1</sup>	Maximum Volume threshold <sup>2</sup>					LOS <sup>2</sup>	# of Lanes	Forecast Volume (vph)	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	Forecast Volume (vph)	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	Project Impact?	Cumulative Impact?		
				A	B	C	D	E				A	B	C	D	E			A	B	C	D	E					
Ewa	Wai'anae-bound	H-1 Freeway	3	3,330	1,620	2,630	3,800	4,920	5,590	C	3	4,360	1,620	2,630	3,800	4,920	5,590	D	4,260	1,620	2,630	3,800	4,920	5,590	D			
		H-1 Freeway future HOV	n/a	n/a	515	839	1,213	1,568	1,783	n/a	1	1,180	515	839	1,213	1,568	1,783	C	1,080	515	839	1,213	1,568	1,783	C			
		Farrington Highway	1	590	**	200	660	780	810	C	2	340	**	200	1,240	1,560	1,640	C	320	**	200	1,240	1,560	1,640	C			
		Fort Weaver Road (SB)	2	1,440	**	200	1,240	1,560	1,640	D	2	2,220	**	200	1,240	1,560	1,640	F	2,150	**	200	1,240	1,560	1,640	F			
		<b>Totals</b>		<b>5,360</b>						<b>C</b>		<b>8,100</b>						<b>D</b>	<b>7,810</b>							<b>D</b>	<b>NO</b>	<b>NO</b>
	Koko Head-bound	H-1 Freeway	3	4,130	1,620	2,630	3,800	4,920	5,590	D	3	3,870	1,620	2,630	3,800	4,920	5,590	D	3,500	1,620	2,630	3,800	4,920	5,590	C			
		H-1 Freeway future HOV	n/a	n/a	515	839	1,213	1,568	1,783	n/a	1	1,790	515	839	1,213	1,568	1,783	F	1,540	515	839	1,213	1,568	1,783	D			
		Farrington Highway	2	210	230	1,390	1,650	1,700	**	A	3	210	**	310	1,920	2,340	2,460	B <sup>3</sup>	160	**	310	1,920	2,340	2,460	B <sup>3</sup>			
		Fort Weaver Road (NB)	2	3,120	**	200	1,240	1,560	1,640	F	2	2,770	**	200	1,240	1,560	1,640	F	2,570	**	200	1,240	1,560	1,640	F			
		<b>Totals</b>		<b>7,460</b>						<b>E</b>		<b>8,640</b>						<b>E</b>	<b>7,770</b>							<b>D</b>	<b>NO</b>	<b>NO</b>
Waialeale Stream	Ewa-bound	H-1 Freeway	4	6,110	2,210	3,580	5,180	6,710	7,620	D	5	10,070	2,800	4,540	6,570	8,490	9,660	F	9,760	2,800	4,540	6,570	8,490	9,660	F			
		Waipahu Street	1	360	**	**	440	700	740	C <sup>3</sup>	1	300	**	**	440	700	740	C <sup>3</sup>	290	**	**	440	700	740	C <sup>3</sup>			
		Farrington Highway	2	1,160	**	200	1,240	1,560	1,640	C	3	910	**	310	1,920	2,340	2,460	C	860	**	310	1,920	2,340	2,460	C			
	Koko Head-bound	H-1 Freeway	4	7,380	2,210	3,580	5,180	6,710	7,620	E	4	8,460	2,210	3,580	5,180	6,710	7,620	F	8,080	2,210	3,580	5,180	6,710	7,620	F			
		H-1 Freeway future HOV	n/a	n/a	515	839	1,213	1,568	1,783	n/a	1	1,560	515	839	1,213	1,568	1,783	D	1,360	515	839	1,213	1,568	1,783	D			
		Waipahu Street	1	580	**	**	440	700	740	D	1	290	**	**	440	700	740	C <sup>3</sup>	150	**	**	440	700	740	C <sup>3</sup>			
		Farrington Highway	2	1,210	**	200	1,240	1,560	1,640	C	3	1,530	**	310	1,920	2,340	2,460	C	1,210	**	310	1,920	2,340	2,460	C			
		<b>Totals</b>		<b>9,170</b>						<b>E</b>		<b>11,280</b>						<b>E</b>	<b>10,910</b>							<b>E</b>	<b>NO</b>	<b>NO</b>
	Kalauao	Ewa-bound	H-1 Freeway	5	6,840	2,800	4,540	6,570	8,490	9,660	D	5	7,280	2,800	4,540	6,570	8,490	9,660	D	7,120	2,800	4,540	6,570	8,490	9,660	D		
			Moanalua Road	2	1,130	**	**	1,020	1,480	1,560	D	2	1,370	**	**	1,020	1,480	1,560	D	1,150	**	**	1,020	1,480	1,560	D		
Kamehameha Highway			3	970	**	310	1,920	2,340	2,460	C	3	1,080	**	310	1,920	2,340	2,460	C	1,050	**	310	1,920	2,340	2,460	C			
Koko Head-bound		H-1 Freeway	5	10,140	2,800	4,540	6,570	8,490	9,660	F	5	12,250	2,800	4,540	6,570	8,490	9,660	F	11,260	5,600	9,080	13,140	16,980	19,320	F			
		H-1 Freeway HOV	1	1,740	515	839	1,213	1,568	1,783	E	1	1,810	515	839	1,213	1,568	1,783	F	1,690	515	839	1,213	1,568	1,783	E			
		H-1 Freeway Zipper Lane	1	1,510	515	839	1,213	1,568	1,783	D	1	1,160	515	839	1,213	1,568	1,783	C	920	515	839	1,213	1,568	1,783	C			
		Moanalua Road	2	1,390	**	**	1,020	1,480	1,560	D	2	1,310	**	**	1,020	1,480	1,560	D	980	**	**	1,020	1,480	1,560	C			
		Kamehameha Highway	3	2,520	**	310	1,920	2,340	2,460	F	3	2,450	**	310	1,920	2,340	2,460	E	2,060	**	310	1,920	2,340	2,460	D			
<b>Totals</b>			<b>17,300</b>						<b>F</b>		<b>18,980</b>						<b>E</b>	<b>16,910</b>							<b>E</b>	<b>NO</b>	<b>NO</b>	
Salt Lake		Ewa-bound	Moanalua Freeway	4	3,700	2,210	3,580	5,180	6,710	7,620	C	4	3,420	2,210	3,580	5,180	6,710	7,620	B	3,310	2,210	3,580	5,180	6,710	7,620	B		
	H-1 Freeway		3	2,460	1,620	2,630	3,800	4,920	5,590	B	4	3,630	2,210	3,580	5,180	6,710	7,620	C	3,530	2,210	3,580	5,180	6,710	7,620	B			
	H-1 Freeway HOV		n/a	n/a	515	839	1,213	1,568	1,783	n/a	n/a	n/a	515	839	1,213	1,568	1,783	n/a	n/a	515	839	1,213	1,568	1,783	n/a			
	H-1 Freeway future Zipper Lane		n/a	n/a	515	839	1,213	1,568	1,783	n/a	n/a	n/a	515	839	1,213	1,568	1,783	n/a	n/a	515	839	1,213	1,568	1,783	n/a			
	Nimitz Highway		3	1,050	**	310	1,920	2,340	2,460	C	3	1,770	**	310	1,920	2,340	2,460	C	1,540	**	310	1,920	2,340	2,460	C			
	Salt Lake Boulevard		1	330	**	**	440	700	740	C <sup>3</sup>	2	370	**	**	1,020	1,480	1,560	C <sup>3</sup>	350	**	**	1,020	1,480	1,560	C <sup>3</sup>			
	Koko Head-bound	Moanalua Freeway	2	3,730	1,030	1,680	2,420	3,130	3,560	F	2	3,960	1,030	1,680	2,420	3,130	3,560	F	3,650	1,030	1,680	2,420	3,130	3,560	F			
		Moanalua Freeway HOV	1	1,020	515	839	1,213	1,568	1,783	C	1	1,750	515	839	1,213	1,568	1,783	E	1,590	515	839	1,213	1,568	1,783	E			
		H-1 Freeway + Shoulder Express (1 lane)	5	7,600	2,800	4,540	6,570	8,490	9,660	D	5	7,700	2,800	4,540	6,570	8,490	9,660	D	6,800	2,800	4,540	6,570	8,490	9,660	D			
		H-1 Freeway HOV (1 lane)	1	1,620	515	839	1,213	1,568	1,783	E	1	1,640	515	839	1,213	1,568	1,783	E	1,380	515	839	1,213	1,568	1,783	D			
<b>Totals</b>		<b>7,540</b>						<b>C</b>		<b>9,190</b>						<b>C</b>	<b>8,730</b>							<b>C</b>	<b>NO</b>	<b>NO</b>		
Koko Head-bound	H-1 Freeway Zipper Lane	1	1,510	515	839	1,213	1,568	1,783	D	1	1,520	515	839	1,213	1,568	1,783	D	1,460	515	839	1,213	1,568	1,783	D				
	Nimitz Highway	5	1,420	**	500	3,160	3,790	3,980	C	5	1,920	**	500	3,160	3,790	3,980	C	1,720	**	500	3,160	3,790	3,980	C				
	Salt Lake Boulevard	1	520	**	**	440	700	740	D	2	830	**	**	1,020	1,480	1,560	C <sup>3</sup>	600	**	**	1,020	1,480	1,560	C <sup>3</sup>				
	<b>Totals</b>		<b>17,420</b>						<b>D</b>		<b>19,320</b>						<b>D</b>	<b>17,200</b>							<b>D</b>	<b>NO</b>	<b>NO</b>	

**Table 3-9** A.M. Peak Hour Screenline Impacts Analysis —Existing Conditions, No Build Alternative, and Project (continued from previous page)

Screenline/Facility		Year 2005 Conditions								2030 No Build Alternative								2030 Project								Screenline Impact Analysis	
		# of Lanes	Observed Volume (vph) <sup>1</sup>	Maximum Volume threshold <sup>2</sup>					LOS <sup>2</sup>	# of Lanes	Forecast Volume (vph)	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	Forecast Volume (vph)	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	Project Impact?	Cumulative Impact?	
				A	B	C	D	E				A	B	C	D	E			A	B	C	D	E				
Kapālama Canal	Ewa-bound	Nimitz Highway	2	1,340	**	200	1,240	1,560	1,640	D	3	3,590	**	310	1,920	2,340	2,460	F	3,310	**	310	1,920	2,340	2,460	F	NO	NO
	Dillingham Boulevard	2	690	**	200	1,240	1,560	1,640	C	2	660	**	200	1,240	1,560	1,640	C	610	**	200	1,240	1,560	1,640	C			
	North King Street	2	600	**	**	1,020	1,480	1,560	C <sup>3</sup>	2	840	**	**	1,020	1,480	1,560	C <sup>3</sup>	820	**	**	1,020	1,480	1,560	C <sup>3</sup>			
	H-1 Freeway	4	7,300	2,210	3,580	5,180	6,710	7,620	E	4	7,620	2,210	3,580	5,180	6,710	7,620	E	7,570	2,210	3,580	5,180	6,710	7,620	E			
	Hālonā Street	2	1,160	**	**	1,220	1,770	1,870	C <sup>3</sup>	2	1,850	**	**	1,220	1,770	1,870	E	1,830	**	**	1,220	1,770	1,870	E			
	School Street	2	780	**	**	1,020	1,480	1,560	C <sup>3</sup>	2	850	**	**	1,020	1,480	1,560	C <sup>3</sup>	870	**	**	1,020	1,480	1,560	C <sup>3</sup>			
	<b>Totals</b>		<b>11,870</b>						<b>D</b>		<b>15,410</b>						<b>E</b>	<b>15,010</b>							<b>E</b>		
	Koko Head-bound	Nimitz Highway	4	3,210	**	400	2,530	3,030	3,180	F	3	2,580	**	310	1,920	2,340	2,460	F	2,310	**	310	1,920	2,340	2,460	D		
	Nimitz Flyover (future facility)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	1,420	1,030	1,680	2,420	3,130	3,560	B	1,250	1,030	1,680	2,420	3,130	3,560	B			
	Dillingham Boulevard	2	1,400	**	200	1,240	1,560	1,640	D	2	1,390	**	200	1,240	1,560	1,640	D	1,140	**	200	1,240	1,560	1,640	C			
	North King Street	2	1,340	**	**	1,020	1,480	1,560	D	2	1,400	**	**	1,020	1,480	1,560	D	1,280	**	**	1,020	1,480	1,560	D			
	Olomea Street	2	1,950	**	**	1,220	1,770	1,870	F	2	2,430	**	**	1,220	1,770	1,870	F	2,240	**	**	1,220	1,770	1,870	F			
	H-1 Freeway	4	9,490	2,210	3,580	5,180	6,710	7,620	F	5	10,670	2,800	4,540	6,570	8,490	9,660	F	9,980	2,800	4,540	6,570	8,490	9,660	F			
	School Street	2	1,580	**	**	1,020	1,480	1,560	F	2	1,690	**	**	1,020	1,480	1,560	F	1,530	**	**	1,020	1,480	1,560	E			
<b>Totals</b>		<b>18,970</b>						<b>F</b>		<b>21,580</b>						<b>E</b>	<b>19,730</b>							<b>E</b>			
Ward Avenue	Ewa-bound	H-1 Freeway	3	7,290	1,620	2,630	3,800	4,920	5,590	F	3	7,380	1,620	2,630	3,800	4,920	5,590	F	7,360	1,620	2,630	3,800	4,920	5,590	F		
	Beretania Street	5	2,790	**	**	3,170	4,450	4,690	C <sup>3</sup>	5	3,300	**	**	3,170	4,450	4,690	D	3,180	**	**	3,170	4,450	4,690	D			
	Kapi`olani Boulevard	4	1,920	**	**	2,110	2,970	3,130	C <sup>3</sup>	4	2,560	**	**	2,110	2,970	3,130	D	2,480	**	**	2,110	2,970	3,130	D			
	Ala Moana Boulevard	3	1,800	**	310	1,920	2,340	2,460	C	3	2,150	**	310	1,920	2,340	2,460	D	2,140	**	310	1,920	2,340	2,460	D			
	<b>Totals</b>		<b>13,800</b>						<b>E</b>		<b>15,390</b>						<b>E</b>	<b>15,160</b>							<b>E</b>		
	Koko Head-bound	H-1 Freeway	3	5,740	1,620	2,630	3,800	4,920	5,590	F	4	6,810	2,210	3,580	5,180	6,710	7,620	E	6,580	2,210	3,580	5,180	6,710	7,620	D		
	Kina`u Street	3	1,250	**	**	1,900	2,670	2,810	C <sup>3</sup>	3	1,150	**	**	1,900	2,670	2,810	C <sup>3</sup>	1,100	**	**	1,900	2,670	2,810	C <sup>3</sup>			
	South King Street	5	2,080	**	**	3,170	4,450	4,690	C <sup>3</sup>	5	2,800	**	**	3,170	4,450	4,690	C <sup>3</sup>	2,200	**	**	3,170	4,450	4,690	C <sup>3</sup>			
	Kapi`olani Boulevard	2	710	**	**	1,020	1,480	1,560	C <sup>3</sup>	2	820	**	**	1,020	1,480	1,560	C <sup>3</sup>	800	**	**	1,020	1,480	1,560	C <sup>3</sup>			
	Ala Moana Boulevard	3	1,610	**	310	1,920	2,340	2,460	C	3	1,740	**	310	1,920	2,340	2,460	C	1,510	**	310	1,920	2,340	2,460	C			
<b>Totals</b>		<b>11,390</b>						<b>E</b>		<b>13,320</b>						<b>D</b>	<b>12,190</b>							<b>D</b>			

<sup>1</sup>Peak hour traffic count data was obtained from the State of Hawai`i Department of Transportation (2005).

<sup>2</sup>LOS thresholds were adapted from Quality Level of Service Handbook (2002) by the State of Florida's Department of Transportation. The Handbook provides the Generalized Peak Hour Two-Way Volumes for Florida's Urbanized Areas (2002). A directional split of 50% was applied to the two-way volumes to generate the peak hour direction volume thresholds for the purpose of this analysis.

<sup>3</sup>The reported LOS "C<sup>3</sup>" means C or better and "B<sup>3</sup>" means B or better.

\*\*LOS thresholds not reported due to type of facility.

**Table 3-10** P.M. Peak Hour Screenline Impacts Analysis—Existing Conditions, No Build Alternative, and Project (continued on next page)

Screenlines			Year 2005 Conditions							2030 No Build Alternative							2030 Project					Screenline Impact Analysis					
			# of Lanes	Observed Volume (vph) <sup>1</sup>	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	# of Lanes	Forecast Volume (vph)	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	Forecast Volume (vph)	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	Project Impact?	Cumulative Impact?
					A	B	C	D	E				A	B	C	D	E			A	B	C	D	E			
Ewa	Wai'anae-bound	H-1 Freeway	3	4,110	1,620	2,630	3,800	4,920	5,590	D	3	3,920	1,620	2,630	3,800	4,920	5,590	D	3,620	1,620	2,630	3,800	4,920	5,590	C	NO	NO
		H-1 Freeway future HOV	n/a	n/a	515	839	1,213	1,568	1,783	n/a	1	1,100	515	839	1,213	1,568	1,783	C	1,130	515	839	1,213	1,568	1,783	C		
		Farrington Highway	1	310	**	200	660	780	810	C	2	350	**	200	1,240	1,560	1,640	C	290	**	200	1,240	1,560	1,640	C		
		Fort Weaver Road (SB)	2	2,400	**	200	1,240	1,560	1,640	F	2	2,250	**	200	1,240	1,560	1,640	F	2,200	**	200	1,240	1,560	1,640	F		
		<b>Totals</b>		<b>6,820</b>						<b>E</b>		<b>7,620</b>						<b>D</b>	<b>7,240</b>						<b>D</b>		
	Koko Head-bound	H-1 Freeway	3	4,080	1,620	2,630	3,800	4,920	5,590	D	3	5,500	1,620	2,630	3,800	4,920	5,590	E	5,370	1,620	2,630	3,800	4,920	5,590	E		
		H-1 Freeway future HOV	n/a	n/a	515	839	1,213	1,568	1,783	n/a	1	990	515	839	1,213	1,568	1,783	C	940	515	839	1,213	1,568	1,783	C		
		Farrington Highway	2	620	230	1,390	1,650	1,700	**	B	3	290	**	310	1,920	2,340	2,460	B <sup>3</sup>	280	**	310	1,920	2,340	2,460	C		
		Fort Weaver Road (NB)	2	2,060	**	200	1,240	1,560	1,640	F	2	2,450	**	200	1,240	1,560	1,640	F	2,370	**	200	1,240	1,560	1,640	F		
		<b>Totals</b>		<b>6,760</b>						<b>D</b>		<b>9,230</b>						<b>E</b>	<b>8,960</b>						<b>E</b>		
Waialeale Stream	Ewa-bound	H-1 Freeway	4	6,710	2,210	3,580	5,180	6,710	7,620	E	4	8,450	2,210	3,580	5,180	6,710	7,620	F	7,680	2,210	3,580	5,180	6,710	7,620	F		
		H-1 Freeway future HOV	n/a	n/a	515	839	1,213	1,568	1,783	n/a	1	490	515	839	1,213	1,568	1,783	A	440	515	839	1,213	1,568	1,783	A		
		Waipahu Street	1	530	**	**	440	700	740	D	1	170	**	**	440	700	740	C <sup>3</sup>	130	**	**	440	700	740	C <sup>3</sup>		
		Farrington Highway	2	1,280	**	200	1,240	1,560	1,640	D	3	1,150	**	310	1,920	2,340	2,460	C	1,000	**	310	1,920	2,340	2,460	C		
		<b>Totals</b>		<b>8,520</b>						<b>E</b>		<b>10,260</b>						<b>E</b>	<b>9,250</b>						<b>E</b>		
	Koko Head-bound	H-1 Freeway	4	4,790	2,210	3,580	5,180	6,710	7,620	C	5	6,360	2,800	4,540	6,570	8,490	9,660	C	6,150	2,800	4,540	6,570	8,490	9,660	C		
		Waipahu Street	1	420	**	**	440	700	740	C <sup>3</sup>	1	300	**	**	440	700	740	C <sup>3</sup>	280	**	**	440	700	740	C <sup>3</sup>		
		Farrington Highway	2	790	**	200	1,240	1,560	1,640	C	3	640	**	310	1,920	2,340	2,460	C	600	**	310	1,920	2,340	2,460	C		
		<b>Totals</b>		<b>6,000</b>						<b>C</b>		<b>7,300</b>						<b>C</b>	<b>7,030</b>						<b>C</b>		
		<b>Totals</b>																									
Kalaauo	Ewa-bound	H-1 Freeway	5	8,410	2,800	4,540	6,570	8,490	9,660	D	4	8,670	2,210	3,580	5,180	6,710	7,620	F	8,000	2,210	3,580	5,180	6,710	7,620	F		
		H-1 Freeway HOV	1	1,530	515	839	1,213	1,568	1,783	D	1	1,720	515	839	1,213	1,568	1,783	E	1,520	515	839	1,213	1,568	1,783	D		
		H-1 Freeway Future Zipper Lane	n/a	n/a	515	839	1,213	1,568	1,783	n/a	1	950	515	839	1,213	1,568	1,783	C	800	515	839	1,213	1,568	1,783	B		
		Moanalua Road	2	2,020	**	**	1,020	1,480	1,560	F	2	2,060	**	**	1,020	1,480	1,560	F	1,730	**	**	1,020	1,480	1,560	F		
		Kamehameha Highway	3	2,110	**	310	1,920	2,340	2,460	D	3	2,140	**	310	1,920	2,340	2,460	D	1,920	**	310	1,920	2,340	2,460	C		
	<b>Totals</b>		<b>14,070</b>						<b>D</b>		<b>15,540</b>						<b>E</b>	<b>13,970</b>						<b>E</b>			
	Koko Head-bound	H-1 Freeway	5	5,740	2,210	3,580	5,180	6,710	7,620	D	5	7,240	2,800	4,540	6,570	8,490	9,660	D	6,940	2,800	4,540	6,570	8,490	9,660	D		
		H-1 Freeway HOV (existing only)	1	1,360	515	839	1,213	1,568	1,783	D	n/a	n/a	515	839	1,213	1,568	1,783	n/a	n/a	515	839	1,213	1,568	1,783	n/a		
		Moanalua Road	2	870	**	**	1,020	1,480	1,560	C <sup>3</sup>	2	970	**	**	1,020	1,480	1,560	C <sup>3</sup>	910	**	**	1,020	1,480	1,560	C <sup>3</sup>		
		Kamehameha Highway	3	1,500	**	310	1,920	2,340	2,460	C	3	1,680	**	310	1,920	2,340	2,460	C	1,630	**	310	1,920	2,340	2,460	C		
<b>Totals</b>			<b>9,470</b>						<b>D</b>		<b>9,890</b>						<b>D</b>	<b>9,480</b>						<b>D</b>			
Salt Lake	Ewa-bound	Moanalua Freeway	4	5,900	2,210	3,580	5,180	6,710	7,620	D	4	5,890	2,210	3,580	5,180	6,710	7,620	D	5,580	2,210	3,580	5,180	6,710	7,620	D		
		H-1 Freeway	4	3,550	2,210	3,580	5,180	6,710	7,620	B	4	3,460	2,210	3,580	5,180	6,710	7,620	B	3,060	2,210	3,580	5,180	6,710	7,620	B		
		H-1 Freeway HOV	1	1,410	515	839	1,213	1,568	1,783	D	1	1,320	515	839	1,213	1,568	1,783	D	1,090	515	839	1,213	1,568	1,783	C		
		H-1 Freeway Future zipper lane	n/a	n/a	515	839	1,213	1,568	1,783	n/a	1	810	515	839	1,213	1,568	1,783	B	660	515	839	1,213	1,568	1,783	B		
		Nimitz Highway	3	2,460	**	310	1,920	2,340	2,460	F	3	3,150	**	310	1,920	2,340	2,460	F	2,970	**	310	1,920	2,340	2,460	F		
		Salt Lake Boulevard	1	730	**	**	440	700	740	E	2	990	**	**	1,020	1,480	1,560	C <sup>3</sup>	860	**	**	1,020	1,480	1,560	C <sup>3</sup>		
	<b>Totals</b>		<b>14,050</b>						<b>D</b>		<b>15,620</b>						<b>D</b>	<b>14,220</b>						<b>D</b>			
	Koko Head-bound	Moanalua Freeway	2	3,330	1,030	1,680	2,420	3,130	3,560	E	2	3,510	1,030	1,680	2,420	3,130	3,560	E	3,490	1,030	1,680	2,420	3,130	3,560	E		
		Moanalua Freeway HOV	1	240	515	839	1,213	1,568	1,783	A	1	960	515	839	1,213	1,568	1,783	C	1,070	515	839	1,213	1,568	1,783	C		
		H-1 Freeway + Shoulder Express (1 lane)	4	4,500	2,210	3,580	5,180	6,710	7,620	C	4	4,090	2,210	3,580	5,180	6,710	7,620	C	3,750	2,210	3,580	5,180	6,710	7,620	C		
H-1 Freeway HOV (1 lane)		1	330	515	839	1,213	1,568	1,783	A	1	1,070	515	839	1,213	1,568	1,783	C	990	515	839	1,213	1,568	1,783	C			
<b>Totals</b>			<b>10,250</b>						<b>D</b>		<b>13,210</b>						<b>D</b>	<b>12,800</b>						<b>D</b>			

**Table 3-10** P.M. Peak-Hour Screenline Impacts Analysis—Existing Conditions, No Build Alternative, and Project (continued from previous page)

Screenlines		Year 2005 Conditions								2030 No Build Alternative								2030 Project					Screenline Impact Analysis					
		# of Lanes	Observed Volume (vph) <sup>1</sup>	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	# of Lanes	Forecast Volume (vph)	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	Forecast Volume (vph)	Maximum Volume Threshold <sup>2</sup>					LOS <sup>2</sup>	Project Impact?	Cumulative Impact?		
				A	B	C	D	E				A	B	C	D	E			A	B	C	D	E					
Kapālama Canal	'Ewa-bound	Nimitz Highway	3	1,780	**	310	1,920	2,340	2,460	C	3	1,790	**	310	1,920	2,340	2,460	C	1,590	**	310	1,920	2,340	2,460	C			
		Nimitz Flyover (Future Facility)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	880	1,030	1,680	2,420	3,130	3,560	A	810	1,030	1,680	2,420	3,130	3,560	A			
		Dillingham Boulevard	2	1,460	**	200	1,240	1,560	1,640	D	2	1,350	**	200	1,240	1,560	1,640	D	1,260	**	200	1,240	1,560	1,640	D			
		North King Street	2	1,340	**	**	1,020	1,480	1,560	D	2	1,440	**	**	1,020	1,480	1,560	D	1,280	**	**	1,020	1,480	1,560	D			
		H-1 Freeway	4	7,570	2,210	3,580	5,180	6,710	7,620	E	4	8,050	2,210	3,580	5,180	6,710	7,620	F	7,860	2,210	3,580	5,180	6,710	7,620	F			
		Hālonā Street	2	1,800	**	**	1,220	1,770	1,870	E	2	2,230	**	**	1,220	1,770	1,870	F	2,110	**	**	1,220	1,770	1,870	F			
		School Street	2	1,220	**	**	1,020	1,480	1,560	D	2	1,380	**	**	1,020	1,480	1,560	D	1,280	**	**	1,020	1,480	1,560	D			
	<b>Totals</b>		<b>15,170</b>						<b>E</b>		<b>17,120</b>							<b>E</b>	<b>16,190</b>							<b>E</b>	<b>NO</b>	<b>NO</b>
	Koko Head-bound	Nimitz Highway	3	2,770	**	310	1,920	2,340	2,460	F	3	4,250	**	310	1,920	2,340	2,460	F	4,060	**	310	1,920	2,340	2,460	F			
		Dillingham Boulevard	2	1,080	**	200	1,240	1,560	1,640	C	2	1,100	**	200	1,240	1,560	1,640	C	910	**	200	1,240	1,560	1,640	C			
		North King Street	2	1,110	**	**	1,020	1,480	1,560	D	2	1,560	**	**	1,020	1,480	1,560	D	1,480	**	**	1,020	1,480	1,560	D			
		Olomea Street	2	1,670	**	**	1,220	1,770	1,870	D	2	1,890	**	**	1,220	1,770	1,870	F	1,880	**	**	1,220	1,770	1,870	F			
		H-1 Freeway	4	7,320	2,210	3,580	5,180	6,710	7,620	E	5	8,040	2,800	4,540	6,570	8,490	9,660	D	7,940	2,800	4,540	6,570	8,490	9,660	D			
		School Street	2	990	**	**	1,020	1,480	1,560	C <sup>3</sup>	2	1,210	**	**	1,020	1,480	1,560	D	1,150	**	**	1,020	1,480	1,560	D			
<b>Totals</b>			<b>14,940</b>						<b>E</b>		<b>18,050</b>							<b>D</b>	<b>17,420</b>							<b>E</b>	<b>NO</b>	<b>NO</b>
Ward Avenue	'Ewa-bound	H-1 Freeway	3	6,790	1,620	2,630	3,800	4,920	5,590	F	3	7,130	1,620	2,630	3,800	4,920	5,590	F	6,990	1,620	2,630	3,800	4,920	5,590	F			
		Beretania Street	5	2,510	**	**	3,170	4,450	4,690	C <sup>3</sup>	5	3,020	**	**	3,170	4,450	4,690	C <sup>3</sup>	2,780	**	**	3,170	4,450	4,690	C <sup>3</sup>			
		Kapi'olani Boulevard	2	1,420	**	**	1,020	1,480	1,560	D	2	1,620	**	**	1,020	1,480	1,560	F	1,520	**	**	1,020	1,480	1,560	E			
		Ala Moana Boulevard	3	1,650	**	310	1,920	2,340	2,460	C	3	2,190	**	310	1,920	2,340	2,460	D	1,980	**	310	1,920	2,340	2,460	D			
		<b>Totals</b>		<b>12,370</b>						<b>E</b>		<b>13,960</b>							<b>E</b>	<b>13,270</b>							<b>E</b>	<b>NO</b>
	Koko Head-bound	H-1 Freeway	3	6,150	1,620	2,630	3,800	4,920	5,590	F	4	7,370	2,210	3,580	5,180	6,710	7,620	E	7,310	2,210	3,580	5,180	6,710	7,620	E			
		Kīna'u Street	4	1,870	**	**	2,540	3,560	3,750	C <sup>3</sup>	4	1,800	**	**	2,540	3,560	3,750	C <sup>3</sup>	1,780	**	**	2,540	3,560	3,750	C <sup>3</sup>			
		South King Street	6	3,370	**	**	3,800	5,340	5,630	C <sup>3</sup>	6	3,710	**	**	3,800	5,340	5,630	C <sup>3</sup>	3,560	**	**	3,800	5,340	5,630	C <sup>3</sup>			
		Kapi'olani Boulevard	4	1,840	**	**	2,110	2,970	3,130	C <sup>3</sup>	4	2,550	**	**	2,110	2,970	3,130	D	2,490	**	**	2,110	2,970	3,130	D			
		Ala Moana Boulevard	3	2,120	**	310	1,920	2,340	2,460	D	3	2,330	**	310	1,920	2,340	2,460	D	2,270	**	310	1,920	2,340	2,460	D			
<b>Totals</b>		<b>15,350</b>						<b>D</b>		<b>17,760</b>							<b>D</b>	<b>17,410</b>							<b>D</b>	<b>NO</b>	<b>NO</b>	

<sup>1</sup> Peak hour traffic count data was obtained from the State of Hawai'i Department of Transportation (2005).

<sup>2</sup> LOS thresholds were adapted from Quality Level of Service Handbook (2002) by the State of Florida's Department of Transportation. The Handbook provides the Generalized Peak Hour Two-Way Volumes for Florida's Urbanized Areas (2002). A directional split of 50% was applied to the two-way volumes to generate the peak hour direction volume thresholds for the purpose of this analysis.

<sup>3</sup> The reported LOS "C<sup>3</sup>" means C or better and "B<sup>3</sup>" means B or better.

\*\*LOS thresholds not reported due to type of facility.

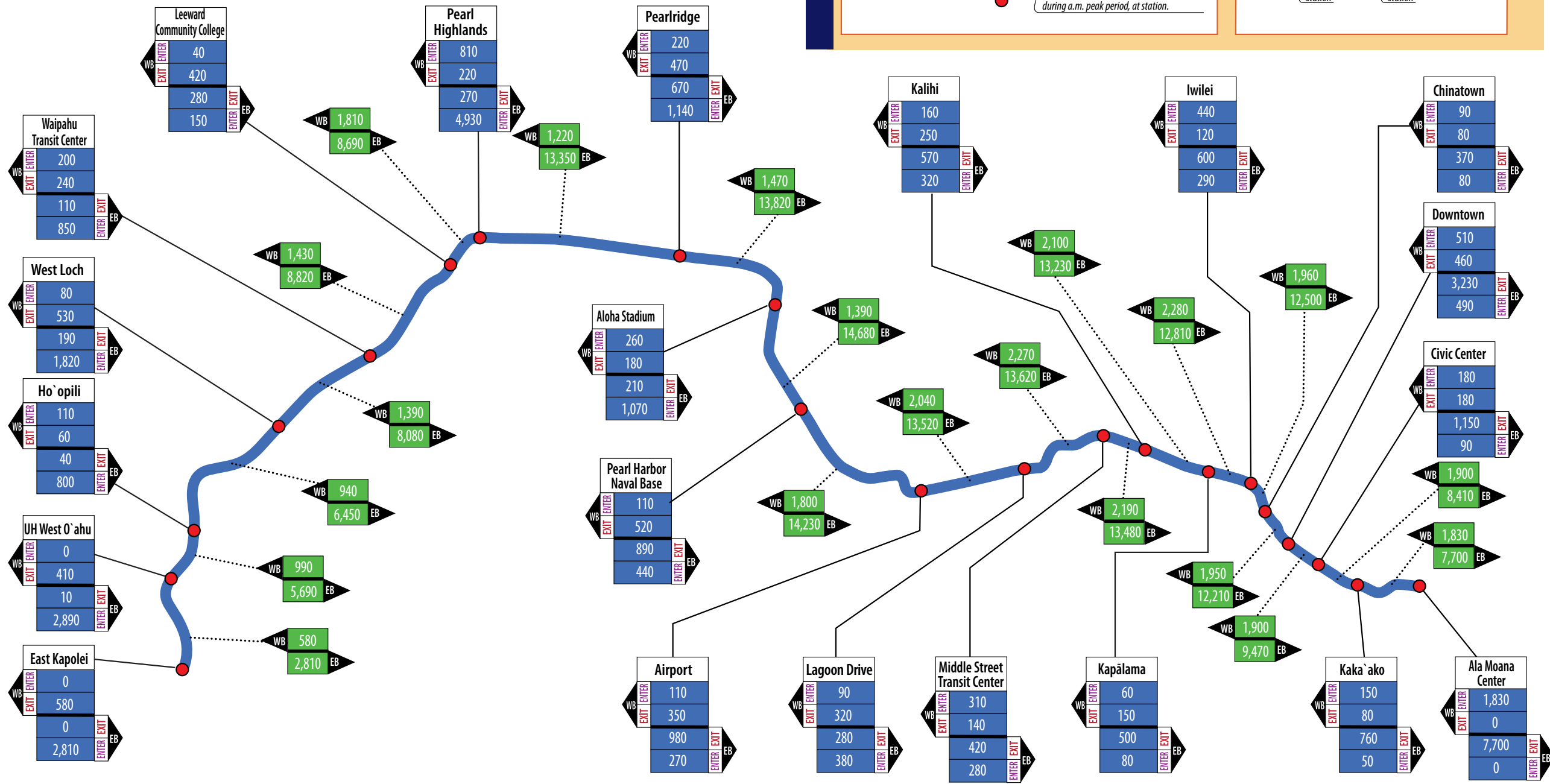


Figure 3-9 2030 A.M. Two-hour Peak Period Boardings, Alightings, and Link Volumes

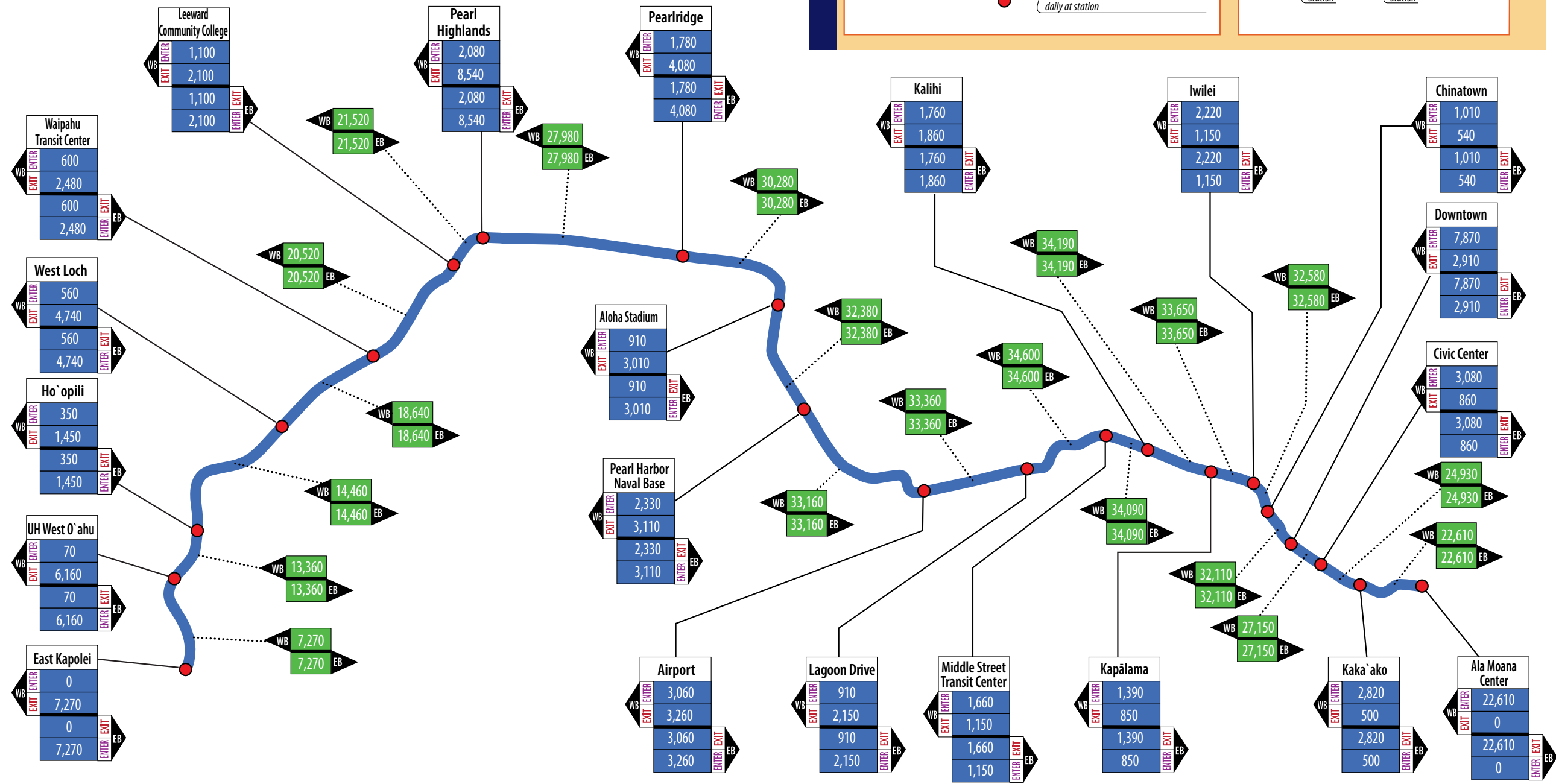
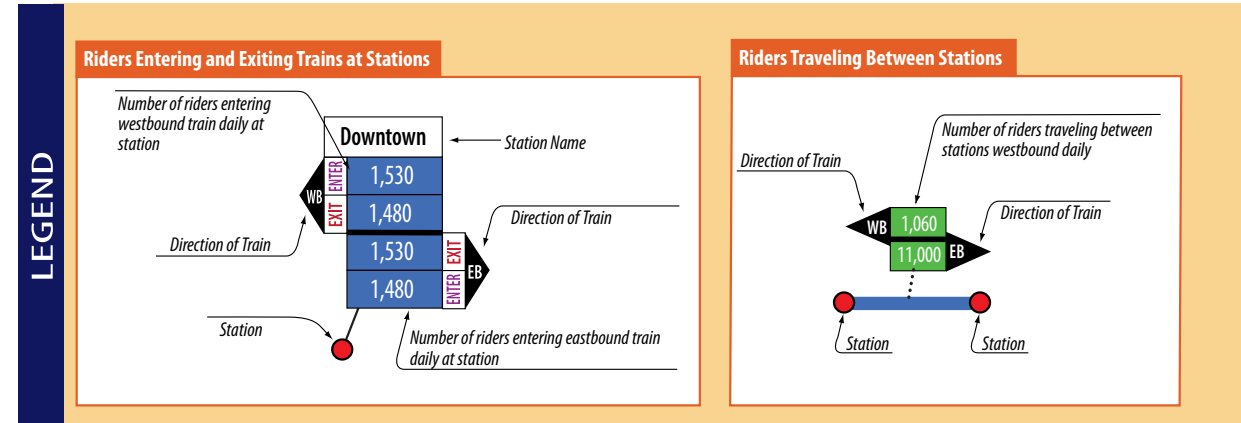


Figure 3-10 2030 Daily Boardings, Alightings, and Link Volumes