

## Appendix PP3-A

### 2014 Existing Turning Movement Summary AM Peak

No	Intersection	Traffic Control	PHF	HV	Approach											
					Eastbound			Westbound			Northbound			Southbound		
					LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
1	EB Ramp @ SR 902 / I-90	TW	0.92	10%	84	3	57	0	0	0	0	210	230	260	273	0
2	WB Ramp @ SR902 / I-90	TW	0.88	10%	0	0	0	174	1	193	79	204	0	0	363	60
3	Aero Rd @ Westbow Blvd	AW	0.88	10%	78	5	1	5	3	99	1	179	6	81	68	73
4	Westbow Blvd @ Hayford Rd	TW	0.79	10%	0	28	1	68	15	0	1	0	52	0	0	0
5	Hayford Rd @ Medical Lake Rd	TW	0.91	10%	1	3	11	90	2	23	6	267	123	64	329	0

1. S: Signalized intersection, TW: two way stop controlled intersection, AW: all way controlled intersection  
Assuming Peak Hour %HV=10%

### 2014 Existing Turning Movement Summary PM Peak

No.	Intersection	Traffic Control	PHF	%HV	Approach											
					Eastbound			Westbound			Northbound			Southbound		
					LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
1	EB Ramp @ SR 902 / I-90	TW	0.9	10%	94	0	102	0	0	0	0	180	237	189	360	0
2	WB Ramp @ SR902 / I-90	TW	0.91	10%	0	0	0	172	1	227	61	221	0	0	383	136
3	Aero Rd @ Westbow Blvd	AW	0.92	10%	98	4	5	3	5	122	1	116	4	77	195	79
4	Westbow Blvd @ Hayford Rd	TW	0.87	10%	0	32	3	72	22	0	3	0	77	0	0	0
5	Hayford Rd @ Medical Lake Rd	TW	0.91	10%	0	0	9	215	4	68	9	266	168	51	292	0

1. S: Signalized intersection, TW: two way stop controlled intersection, AW: all way controlled intersection  
Assuming Peak Hour %HV=10%

### 2020 Base Conditions Turning Movement Summary AM Peak

No	Intersection	Traffic Control	PHF	%HV	Approach											
					Eastbound			Westbound			Northbound			Southbound		
					LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
1	EB Ramp @ SR 902 / I-90	TW	0.92	10%	152	3	88	0	0	0	0	239	230	307	437	0
2	WB Ramp @ SR902 / I-90	TW	0.92	10%	0	0	0	280	1	247	86	310	0	0	468	92
3	Aero Rd @ Westbow Blvd	AW	0.92	10%	83	5	1	5	13	122	1	187	6	150	85	183
4	Westbow Blvd @ Hayford Rd	TW	0.92	10%	0	30	1	76	17	110	1	0	55	0	0	0
5	Hayford Rd @ Medical Lake Rd	TW	0.92	10%	1	3	11	211	0	31	0	475	358	90	449	0

1. S: Signalized intersection, TW: two way stop controlled intersection, AW: all way controlled intersection  
Assuming Peak Hour %HV=10%

### 2020 Base Conditions Turning Movement Summary PM Peak

No	Intersection	Traffic Control	PHF	%HV	Approach											
					Eastbound			Westbound			Northbound			Southbound		
					LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
1	EB Ramp @ SR 902 / I-90	TW	0.92	10%	137	0	113	0	0	0	0	266	331	348	473	0
2	WB Ramp @ SR902 / I-90	TW	0.92	10%	0	0	0	239	1	322	93	327	0	0	588	196
3	Aero Rd @ Westbow Blvd	AW	0.92	10%	211	11	5	3	5	174	1	130	4	182	203	91
4	Westbow Blvd @ Hayford Rd	TW	0.92	10%	0	35	3	82	24	0	3	0	83	110	0	0
5	Hayford Rd @ Medical Lake Rd	TW	0.92	10%	0	0	9	488	4	101	9	517	294	91	577	0

1. S: Signalized intersection, TW: two way stop controlled intersection, AW: all way controlled intersection  
Assuming Peak Hour %HV=10%

## 2040 Base Conditions Turning Movement Summary AM Peak

No	Intersection	Traffic Control	PHF	%HV	Approach											
					Eastbound			Westbound			Northbound			Southbound		
					LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
1	EB Ramp @ SR 902 / I-90	TW	0.92	10%	239	3	137	0	0	0	0	294	195	354	486	0
2	WB Ramp @ SR902 / I-90	TW	0.92	10%	0	0	0	287	1	342	83	454	0	0	558	128
3	Aero Rd @ Westbow Blvd	AW	0.92	10%	86	5	1	5	13	136	1	199	6	200	116	198
4	Westbow Blvd @ Hayford Rd	TW	0.92	10%	0	31	1	85	19	113	1	0	59	0	0	0
5	Hayford Rd @ Medical Lake Rd	TW	0.92	10%	1	3	11	265	0	46	0	599	473	71	522	0

1. S: Signalized intersection, TW: two way stop controlled intersection, AW: all way controlled intersection  
Assuming Peak Hour %HV=10%

## 2040 Base Conditions Turning Movement Summary PM Peak

No	Intersection	Traffic Control	PHF	%HV	Approach											
					Eastbound			Westbound			Northbound			Southbound		
					LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
1	EB Ramp @ SR 902 / I-90	TW	0.92	10.0%	191	0	122	0	0	0	0	313	253	434	488	0
2	WB Ramp @ SR902 / I-90	TW	0.92	10.0%	0	0	0	212	1	386	112	388	0	0	715	283
3	Aero Rd @ Westbow Blvd	AW	0.92	10.0%	217	14	5	3	5	197	1	154	4	164	235	100
4	Westbow Blvd @ Hayford Rd	TW	0.92	10.0%	0	40	3	83	32	0	3	0	94	113	0	0
5	Hayford Rd @ Medical Lake Rd	TW	0.92	10.0%	0	0	9	609	4	118	9	589	362	71	683	0

1. S: Signalized intersection, TW: two way stop controlled intersection, AW: all way controlled intersection  
Assuming Peak Hour %HV=10%

## 2020 Forecasting Traffic Volumes on I-90 Mainline and Ramps

Location	Type	AM Peak Hour				PM Peak Hour			
		2020 Base Condition	2020 Alternative 2	2020 Alternative 3A	2020 Alternative 3B	2020 Base Condition	2020 Alternative 2	2020 Alternative 3A	2020 Alternative 3B
I-90, WB									
I-90 WB offramp to SR 904	Mainline	1400	1400	1400	1400	1951	1951	1951	1951
	SR 904 Off Ramp	604	604	604	604	810	810	810	810
I-90 WB, between SR 902 and SR 904	Mainline	1400	1400	1400	1400	1951	1951	1951	1951
I-90 WB onramp from SR 902	Mainline	1220	1220	1216	1216	1697	1697	1693	1693
	SR 902 On Ramp	180	180	184	184	286	286	290	290
I-90 WB Under SR 902	Mainline	1220	1220	1216	1216	1697	1697	1693	1693
I-90 WB offramp to SR 902	Mainline	1676	1676	1676	1676	2246	2246	2246	2246
	SR 902 Off Ramp	456	456	460	460	548	548	552	552
I-90 WB, East of SR 902	Mainline	1676	1676	1676	1676	2246	2246	2246	2246
I-90, EB									
I-90 EB, between SR 902 and SR 904	Mainline	1706	1706	1706	1706	1366	1366	1366	1366
I-90 EB offramp to SR 902	Mainline	1706	1706	1706	1706	1366	1366	1366	1366
	SR 902 Off Ramp	233	237	237	237	251	255	255	255
I-90 EB, Under SR 902	Mainline	1473	1469	1469	1469	1115	1111	1111	1111
I-90 EB onramp from SR 902	Mainline	1473	1469	1469	1469	1115	1111	1111	1111
	SR 902 On Ramp	535	535	535	535	599	599	599	599
I-90 EB, East of SR 902	Mainline	2008	2008	2008	2008	1715	1715	1715	1715

## 2040 Forecasting Traffic Volumes on I-90 Mainline and Ramps

Location	Type	AM Peak Hour				PM Peak Hour			
		2040 Base Condition	2040 Alternative 2	2040 Alternative 3A	2040 Alternative 3B	2040 Base Condition	2040 Alternative 2	2040 Alternative 3A	2040 Alternative 3B
I-90, WB									
I-90 WB offramp to SR 904	Mainline	1566	1566	1566	1566	2314	2314	2314	2314
	SR 904 Off Ramp	705	705	705	705	996	996	996	996
I-90 WB, between SR 902 and SR 904	Mainline	1566	1566	1566	1566	2314	2314	2314	2314
I-90 WB onramp from SR 902	Mainline	1359	1359	1355	1355	1940	1940	1936	1936
	SR 902 On Ramp	208	208	212	212	404	404	408	408
I-90 WB Under SR 902	Mainline	1359	1359	1355	1355	1940	1940	1936	1936
I-90 WB offramp to SR 902	Mainline	2028	2028	2028	2028	2526	2526	2526	2526
	SR 902 Off Ramp	669	669	673	673	585	585	589	589
I-90 WB, East of SR 902	Mainline	2028	2028	2028	2028	2526	2526	2526	2526
I-90, EB									
I-90 EB, between SR 902 and SR 904	Mainline	2094	1706	1706	1706	1592	1592	1592	1592
I-90 EB offramp to SR 902	Mainline	2094	1706	1706	1706	1592	1592	1592	1592
	SR 902 Off Ramp	378	382	382	382	300	304	304	304
I-90 EB, Under SR 902	Mainline	1716	1712	1712	1712	1291	1287	1287	1287
I-90 EB onramp from SR 902	Mainline	1716	1712	1712	1712	1291	1287	1287	1287
	SR 902 On Ramp	563	535	535	535	764	764	764	764
I-90 EB, East of SR 902	Mainline	2279	2008	2008	2008	2056	2056	2056	2056

## 2020 Forecasting Traffic Turning Movements at Intersections

Intersection	Control	Movement	AM Peak Hour				PM Peak Hour			
			2020 Base Condition	2020 Alternative 2	2020 Alternative 3A	2020 Alternative 3B	2020 Base Condition	2020 Alternative 2	2020 Alternative 3A	2020 Alternative 3B
EB Ramp @ SR902 / I-90	Two Way	Overall	1,456	1,461	1,461	1,461	1,668	1,673	1,673	1,673
		EB-L	152	152	152	152	137	137	137	137
		EB-T	3	7	7	7	0	4	4	4
		EB-R	88	88	88	88	113	113	113	113
		NB-T	239	239	239	239	266	266	266	266
		NB-R	230	230	230	230	331	331	331	331
		SB-L	307	307	307	307	348	348	348	348
		SB-T	437	438	438	438	473	474	474	474
WB Ramp @ SR 902 / I-90	Two Way	Overall	1,484	1,484	1,488	1,484	1,766	1,766	1,770	1,766
		WB-L	280	281	281	281	239	240	240	240
		WB-T	1	1	5	1	1	1	5	1
		WB-R	247	246	246	246	322	321	321	321
		NB-L	86	86	86	86	93	93	93	93
		NB-T	310	310	310	310	327	327	327	327
		SB-T	468	468	468	468	588	588	588	588
		SB-R	92	92	92	92	196	196	196	196
Aero Rd @ Westbow Blvd	All Way	Overall	841	843	843	843	1,020	1,022	1,022	1,022
		EB-L	83	83	83	83	211	211	211	211
		EB-T	5	5	5	5	11	11	11	11
		EB-R	1	1	1	1	5	5	5	5
		WB-L	5	5	5	5	3	3	3	3
		WB-T	13	13	13	13	5	5	5	5
		WB-R	122	122	122	122	174	174	174	174
		NB-L	1	1	1	1	1	1	1	1
		NB-T	187	187	187	187	130	130	130	130
		NB-R	6	6	6	6	4	4	4	4
		SB-L	150	150	150	150	182	182	182	182
		SB-T	85	85	85	85	203	203	203	203
		SB-R	183	185	185	185	91	93	93	93
Westbow Blvd @ Hayford Rd	Two Way	Overall	290	292	292	292	340	342	342	342
		EB-L	0	0	0	0	0	0	0	0
		EB-T	30	30	30	30	35	35	35	35
		EB-R	1	1	1	1	3	3	3	3
		WB-L	76	76	76	76	82	82	82	82
		WB-T	17	17	17	17	24	24	24	24
		WB-R	110	112	112	112	0	2	2	2
		NB-L	1	1	1	1	3	3	3	3
		NB-T	0	0	0	0	0	0	0	0
		NB-R	55	55	55	55	83	83	83	83
		SB-L	0	0	0	0	110	110	110	110
		SB-T	0	0	0	0	0	0	0	0
		SB-R	0	0	0	0	0	0	0	0
Hayford Rd @ Medical Lake Rd	Two Way	Overall	1,629	1,629	1,629	1,629	2,090	2,090	2,090	2,090
		EB-L	1	1	1	1	0	0	0	0
		EB-T	3	3	3	3	0	0	0	0
		EB-R	11	11	11	11	9	9	9	9
		WB-L	211	211	211	211	488	488	488	488
		WB-T	0	0	0	0	4	4	4	4
		WB-R	31	31	31	31	101	101	101	101
		NB-L	0	0	0	0	9	9	9	9
		NB-T	475	475	475	475	517	517	517	517
		NB-R	358	358	358	358	294	294	294	294
		SB-L	90	90	90	90	91	91	91	91
		SB-T	449	449	449	449	577	577	577	577
		SB-R	0	0	0	0	0	0	0	0

## 2040 Forecasting Traffic Turning Movements at Intersections

Intersection	Control	Movement	AM Peak Hour				PM Peak Hour			
			2040 Base Condition	2040 Alternative 2	2040 Alternative 3A	2040 Alternative 3B	2040 Base Condition	2040 Alternative 2	2040 Alternative 3A	2040 Alternative 3B
EB Ramp @ SR902 / I-90	Two Way	Overall	1,708	1,713	1,713	1,713	1,801	1,806	1,806	1,806
		EB-L	239	239	239	239	191	191	191	191
		EB-T	3	7	7	7	0	4	4	4
		EB-R	137	137	137	137	122	122	122	122
		NB-T	294	294	294	294	313	313	313	313
		NB-R	195	195	195	195	253	253	253	253
		SB-L	354	354	354	354	434	434	434	434
		SB-T	486	487	487	487	488	489	489	489
WB Ramp @ SR 902 / I-90	Two Way	Overall	1,853	1,853	1,857	1,853	2,097	2,097	2,101	2,097
		WB-L	287	288	288	288	212	213	213	213
		WB-T	1	1	5	1	1	1	5	1
		WB-R	342	341	341	341	386	385	385	385
		NB-L	83	83	83	83	112	112	112	112
		NB-T	454	454	454	454	388	388	388	388
		SB-T	558	558	558	558	715	715	715	715
		SB-R	128	128	128	128	283	283	283	283
Aero Rd @ Westbow Blvd	All Way	Overall	966	968	968	968	1,099	1,101	1,101	1,101
		EB-L	86	86	86	86	217	217	217	217
		EB-T	5	5	5	5	14	14	14	14
		EB-R	1	1	1	1	5	5	5	5
		WB-L	5	5	5	5	3	3	3	3
		WB-T	13	13	13	13	5	5	5	5
		WB-R	136	136	136	136	197	197	197	197
		NB-L	1	1	1	1	1	1	1	1
		NB-T	199	199	199	199	154	154	154	154
		NB-R	6	6	6	6	4	4	4	4
		SB-L	200	200	200	200	164	164	164	164
		SB-T	116	116	116	116	235	235	235	235
		SB-R	198	200	200	200	100	102	102	102
Westbow Blvd @ Hayford Rd	Two Way	Overall	309	311	311	311	368	370	370	370
		EB-L	0	0	0	0	0	0	0	0
		EB-T	31	31	31	31	40	40	40	40
		EB-R	1	1	1	1	3	3	3	3
		WB-L	85	85	85	85	83	83	83	83
		WB-T	19	19	19	19	32	32	32	32
		WB-R	113	115	115	115	0	2	2	2
		NB-L	1	1	1	1	3	3	3	3
		NB-T	0	0	0	0	0	0	0	0
		NB-R	59	59	59	59	94	94	94	94
		SB-L	0	0	0	0	113	113	113	113
		SB-T	0	0	0	0	0	0	0	0
		SB-R	0	0	0	0	0	0	0	0
Hayford Rd @ Medical Lake Rd	Two Way	Overall	1,991	1,991	1,991	1,991	2,454	2,454	2,454	2,454
		EB-L	1	1	1	1	0	0	0	0
		EB-T	3	3	3	3	0	0	0	0
		EB-R	11	11	11	11	9	9	9	9
		WB-L	265	265	265	265	609	609	609	609
		WB-T	0	0	0	0	4	4	4	4
		WB-R	46	46	46	46	118	118	118	118
		NB-L	0	0	0	0	9	9	9	9
		NB-T	599	599	599	599	589	589	589	589
		NB-R	473	473	473	473	362	362	362	362
		SB-T	71	71	71	71	71	71	71	71
		SB-T	522	522	522	522	683	683	683	683
		SB-R	0	0	0	0	0	0	0	0