

Trail Assessment Tables

Table A - Length and Steepness

Western Connections		
Name	Total	
	Trail Length (ft)	Average Total Slope (%)
Alignment A	5710	16%
Alignment B	8851	12%
Alignment C	7595	12%
Alignment G	18307	8%
Alignment G Segment 1	9659	7%
Alignment G segment 2	1798	12%
Alignment G segment 3	6850	8%
Alignment M	2788	3%
Eastern Connections		
Alignment H	1339	12%
Alignment I	8179	2%
Alignment I Segment 1	2598	1%
Alignment I Segment 2	573	1%
Alignment I segment 3	1933	3%
Alignment I segment 4	1160	5%
Alignment I segment 5	1914	3%
Alignment J	5617	7%
Alignment J Segment 1	1362	8%
Alignment J Segment 2	841	9%
Alignment J Segment 3	3414	7%
Alignment K	4012	12%
Alignment L	10648	9%

Table B – Cross-Slope

Western Connections											
		0-20%	20% - 35%	35% - 50%	50% - 60%	60% - 70%	70% - 80%	80% - 92%	92% - 111%	111% and above	Total Length(ft)
Alignment A	Length (ft)	334	1901	1537	1086	528	195	130	-	-	5710
	Percentage(%)	6%	33%	27%	19%	9%	3%	2%	-	-	
Alignment B	Length (ft)	1238	2440	1471	1078	1178	619	747	81	-	8851
	Percentage(%)	14%	28%	17%	12%	13%	7%	8%	0	-	
Alignment C	Length (ft)	433	1495	718	713	933	956	1727	604	16	7595
	Percentage(%)	6%	20%	9%	9%	12%	13%	23%	0	0	
Alignment G	Length (ft)	2367	4648	3998	3565	2077	842	721	9	80	18307
	Percentage(%)	13%	25%	22%	19%	11%	5%	4%	0	0	
Alignment G Segment 1	Length (ft)	1593	1845	2028	2034	1068	386	617	9	80	9659
	Percentage(%)	16%	19%	21%	21%	11%	4%	6%	0%	1%	
Alignment G segment 2	Length (ft)	272	1008	275	132	44	66	-	-	-	1798
	Percentage(%)	15%	56%	15%	7%	2%	4%	-	-	-	
Alignment G segment 3	Length (ft)	502	1794	1695	1400	965	389	105	-	-	6850
	Percentage(%)	7%	26%	25%	20%	14%	6%	2%	-	-	
Alignment M	Length (ft)	2265	325	198	-	-	-	-	-	-	2788
	Percentage(%)	81%	12%	7%	-	-	-	-	-	-	
Eastern Connections											
		0-20%	20% - 35%	35% - 50%	50% - 60%	60% - 70%	70% - 80%	80% - 92%	92% - 111%	111% and above	Total Length(ft)
Alignment H	Length (ft)	122	125	418	331	185	126	33	-	-	1339
	Percentage(%)	9%	9%	31%	25%	14%	9%	2%	-	-	
Alignment I	Length (ft)	3274	2169	1395	691	348	212	90	-	-	8179
	Percentage(%)	40%	27%	17%	8%	4%	3%	1%	-	-	
Alignment I Segment 1	Length (ft)	1310	923	365	-	-	-	-	-	-	2598
	Percentage(%)	50%	36%	14%	-	-	-	-	-	-	
Alignment I Segment 2	Length (ft)	392	30	45	40	32	32	1	-	-	573
	Percentage(%)	68%	5%	8%	7%	6%	6%	0%	-	-	
Alignment I segment 3	Length (ft)	929	533	284	166	23	-	-	-	-	1933
	Percentage(%)	48%	28%	15%	9%	1%	-	-	-	-	
Alignment I segment 4	Length (ft)	417	249	288	158	49	-	-	-	-	1160
	Percentage(%)	36%	21%	25%	14%	4%	-	-	-	-	
Alignment I segment 5	Length (ft)	226	434	413	327	244	179	89	-	-	1914
	Percentage(%)	12%	23%	22%	17%	13%	9%	5%	-	-	
Alignment J	Length (ft)	517	2032	1506	869	419	218	56	-	-	5617
	Percentage(%)	9%	36%	27%	15%	7%	4%	1%	-	-	
Alignment J Segment 1	Length (ft)	179	700	369	114	-	-	-	-	-	1362
	Percentage(%)	13%	51%	27%	8%	-	-	-	-	-	
Alignment J Segment 2	Length (ft)	33	473	303	31	-	-	-	-	-	841
	Percentage(%)	4%	56%	36%	4%	-	-	-	-	-	
Alignment J Segment 3	Length (ft)	305	859	834	724	419	218	56	-	-	3414
	Percentage(%)	9%	25%	24%	21%	12%	6%	2%	-	-	
Alignment K	Length (ft)	524	801	1510	615	410	146	5	-	-	4012
	Percentage(%)	13%	20%	38%	15%	10%	4%	0%	-	-	
Alignment L	Length (ft)	191	1642	2021	1771	1826	2174	891	132	-	10648
	Percentage(%)	2%	15%	19%	17%	17%	20%	8%	1%	-	
* Crossing Slope is calculated by percentage rise											
** This is the summary of crossing slope for each trail alignment, including both the trails on existing road cut and the new trails alignment.											

Table C - Stream and Drainage Crossings

Western Connections											
Name	Number of Drainage Crossings By Type				Sub Total	Number of Drainage Crossings by Implied Improvements				Sub Total	
	Perennial Stream Crossing	Intermittent Stream Crossing	Upper end of Ravine	Low in a ravine	Total Number of Drainage Crossings	Major Improvements	Moderate Improvements	Minor Improvements	None	Total Number of Drainage Crossings	
Alignment A	-	-	3	3	6	-	3	3	-	6	
Alignment B	-	1	9	5	15	3	10	2	-	15	
Alignment C	-	1	7	14	22	2	6	14	-	22	
Alignment G	-	1	14	11	26	3	7	8	8	26	
Alignment G Segment 1	-	1	6	4	11	1	2	3	5	11	
Alignment G segment 2	-	-	3	-	3	-	-	-	3	3	
Alignment G segment 3	-	-	5	7	12	2	5	5	-	12	
Alignment M	-	-	1	-	1	-	-	1	-	1	
Eastern Connections											
Alignment H	-	-	-	1	-	-	-	-	1	-	
Alignment I	2	-	1	-	3	1	2	-	-	3	
Alignment I Segment 1	1	-	1	-	2	1	1	-	-	2	
Alignment I Segment 2	-	-	-	-	-	-	-	-	-	-	
Alignment I segment 3	-	-	-	-	-	-	-	-	-	-	
Alignment I segment 4	1	-	-	-	1	-	1	-	-	1	
Alignment I segment 5	-	-	-	-	-	-	-	-	-	-	
Alignment J	-	-	6	4	10	-	6	4	-	10	
Alignment J Segment 1	-	-	-	3	3	-	3	-	-	3	
Alignment J Segment 2	-	-	2	-	2	-	1	1	-	2	
Alignment J Segment 3	-	-	4	1	5	-	2	3	-	5	
Alignment K	-	1	3	6	10	1	3	6	-	10	
Alignment L	-	1	5	10	16	1	5	5	5	16	

Table D - Geological Conditions

Western Connections									
Name	Length of Trail on Landslide Hazard Areas(ft)	Percentage of Trails on Landslide Hazard Areas (%)	Length of Trail on State Seismic Hazard Zones(ft)	Percentage of Trails on Seismic Hazard Zones (%)	Length of Trail on Fault Rupture Hazard Zones(ft)	Percentage of Trails Fault Rupture Hazard Zones (%)	Length of Trail on Liquefaction Hazard Zones(ft)	Percentage of Trails Liquefaction Hazard Zones (%)	Length - Total (ft)
Alignment A	5710	100%	3994	70%	-	0%	-	0%	5710
Alignment B	7732	87%	4683	53%	-	0%	-	0%	8851
Alignment C	7111	94%	6023	79%	-	0%	-	0%	7595
Alignment D	12316	83%	8941	60%	-	0%	393	3%	14804
Alignment E	17882	91%	14525	74%	10795	55%	558	3%	19556
Alignment F	25421	95%	24613	92%	15846	59%	-	0%	26883
Alignment G	14190	78%	9870	54%	4156	23%	-	0%	18307
Alignment G Segment 1	5902	61%	6760	70%	4156	43%	-	0%	9659
Alignment G Segment 2	1438	80%	448	25%	-	0%	-	0%	1798
Alignment G segment 3	6850	100%	2662	39%	-	0%	-	0%	6850
Alignment M	2077	74%	1572	56%	-	0%	-	0%	2788
Eastern Connections									
Alignment H	1097	82%	416	31%	-	0%	-	0%	1339
Alignment I	5129	63%	2932	36%	-	0%	-	0%	8179
Alignment I Segment 1	1907	73%	-	0%	-	0%	-	0%	2598
Alignment I Segment 2	435	76%	-	0%	178	31%	-	0%	573
Alignment I segment 3	1494	77%	996	52%	1586	82%	-	0%	1933
Alignment I segment 4	785	68%	543	47%	-	0%	-	0%	1160
Alignment I segment 5	508	27%	1392	73%	579	30%	-	0%	1914
Alignment J	5563	99%	1891	34%	2727	49%	-	0%	5617
Alignment J Segment 1	1362	100%	415	31%	1362	100%	-	0%	1362
Alignment J Segment 2	787	94%	185	22%	518	62%	-	0%	841
Alignment J Segment 3	3414	100%	1290	38%	847	25%	-	0%	3414
Alignment K	4012	100%	3205	80%	-	0%	-	0%	4012
Alignment L	9249	87%	8741	82%	-	0%	-	0%	10648

Table E - Ownership Pattern

Western Connections													
	Public Park/O.S.		Private		Caltrans		SCVWD		San Jose Water Company		Santa Clara County		Total
	Length (ft)	%	Length (ft)	%	Length (ft)	%	Length (ft)	%	Length (ft)	%	Length (ft)	%	Length (ft)
Alignment A	1682	29%	2950	52%	1078	19%	-	-	-	-	-	-	5710
Alignment B	623	7%	-	-	1386	16%	-	-	6842	1	-	-	8851
Alignment C	1872	25%	-	-	179	2%	-	-	5544	1	-	-	7595
Alignment G	9229	50%	577	3%	-	-	-	-	1798	10%	6703	37%	18307
Alignment G Segment 1	2379	25%	577	6%	-	-	-	-	-	N/A	6703	69%	9659
Alignment G segment 2	-	-	-	-	-	-	-	-	1798	100%	-	-	1798
Alignment G segment 3	6850	100%	-	-	-	-	-	-	-	-	-	-	6850
Alignment M	-	-	-	-	2788	100%	-	-	-	-	-	-	2788
Eastern Connections													
	Public Park/O.S.		Private		Caltrans		SCVWD		San Jose Water Company		Santa Clara County		Total
	Length (ft)	%	Length (ft)	%	Length (ft)	%	Length (ft)	%	Length (ft)	%	Length (ft)	%	Length (ft)
Alignment H	-	-	-	-	484	36%	855	64%	-	-	-	-	1339
Alignment I	-	-	-	-	493	6%	7686	94%	-	-	-	-	8179
Alignment I Segment 1	-	-	-	-	493	19%	2106	81%	-	-	-	-	2598
Alignment I Segment 2	-	-	-	-	-	-	573	100%	-	-	-	-	573
Alignment I segment 3	-	-	-	-	-	-	1933	100%	-	-	-	-	1933
Alignment I segment 4	-	-	-	-	-	-	1160	100%	-	-	-	-	1160
Alignment I segment 5	-	-	-	-	-	-	1914	100%	-	-	-	-	1914
Alignment J	1819	32%	-	-	-	-	3798	68%	-	-	-	-	5617
Alignment J Segment 1	657	48%	-	-	-	-	705	52%	-	-	-	-	1362
Alignment J Segment 2	-	-	-	-	-	-	841	100%	-	-	-	-	841
Alignment J Segment 3	1161	34%	-	-	-	-	2253	66%	-	-	-	-	3414
Alignment K	3648	91%	100	2%	-	-	264	7%	-	-	-	-	4012
Alignment L	6299	59%	1493	14%	-	-	2856	27%	-	-	-	-	10648

Table F - New Trail Construction vs. Existing Roads

Western Connections				
Name	Length of Existing Road Cut or Shoulder (ft)	Length of New Trails (ft)	Length of Trail on Alma Bridge Road (ft)	Length - Total (ft)
Alignment A	2446	3264	-	5710
Alignment B	1596	7256	-	8851
Alignment C	-	7595	-	7595
Alignment D	1052	13751	-	14804
Alignment E	1527	18030	-	19556
Alignment F	26883	-	-	26883
Alignment G	13633	4674	-	18307
Alignment G Segment 1	4985	4674	-	9659
Alignment G Segment 2	1798	-	-	1798
Alignment G segment 3	6850	-	-	6850
Alignment M	2788	-	-	2788
Eastern Connections				
Alignment H	1040	299	-	1339
Alignment I	-	-	8179	8179
Alignment I Segment 1	-	-	2598	2598
Alignment I Segment 2	-	-	573	573
Alignment I segment 3	-	-	1933	1933
Alignment I segment 4	-	-	1160	1160
Alignment I segment 5	-	-	1914	1914
Alignment J	2101	3515	-	5617
Alignment J Segment 1	1362	-	-	1362
Alignment J Segment 2	740	101	-	841
Alignment J Segment 3	-	3414	-	3414
Alignment K	1963	2048	-	4012
Alignment L	10648	-	-	10648