

APPENDIX L

CITY OF LACEY STRUCTURAL NUMBER FOR GIVEN R-VALUES

R	M _r	Alley	Minor Local	Major Local	Minor Collector	Major Collector	Boulevard & Arterial	Truck Route
5	3775	2.55	3.18	4.00	4.99	5.44	5.82	6.76
6	4330	2.43	3.02	3.81	4.77	5.21	5.58	6.49
7	4885	2.32	2.89	3.65	4.58	5.01	5.37	6.26
8	5440	2.23	2.78	3.51	4.41	4.83	5.18	6.06
9	5995	2.15	2.68	3.39	4.26	4.68	5.02	5.88
10	6550	2.07	2.60	3.28	4.13	4.54	4.87	5.72
11	7105	2.01	2.52	3.18	4.02	4.42	4.74	5.57
12	7660	1.95	2.45	3.09	3.91	4.30	4.62	5.44
13	8215	1.90	2.39	3.02	3.81	4.20	4.51	5.32
14	8770	1.85	2.33	2.94	3.72	4.10	4.41	5.21
15	9325	1.81	2.28	2.88	3.64	4.01	4.31	5.11
16	9880	1.77	2.23	2.82	3.56	3.93	4.23	5.01
17	10435	1.73	2.18	2.76	3.49	3.86	4.14	4.92
18	10990	1.69	2.14	2.71	3.42	3.78	4.07	4.84
19	11545	1.66	2.10	2.66	3.36	3.72	3.99	4.76
20	12100	1.63	2.06	2.61	3.30	3.65	3.93	4.68
21	12655	1.60	2.03	2.57	3.25	3.59	3.86	4.61
22	13210	1.57	1.99	2.53	3.20	3.54	3.80	4.54
23	13765	1.54	1.96	2.49	3.15	3.48	3.74	4.48
24	14320	1.52	1.93	2.45	3.10	3.43	3.69	4.42
25	14875	1.50	1.90	2.42	3.06	3.38	3.64	4.36
26	15430	1.47	1.88	2.38	3.02	3.34	3.59	4.30
27	15985	1.45	1.85	2.35	2.98	3.29	3.54	4.25
28	16540	1.43	1.83	2.32	2.94	3.25	3.49	4.20
29	17095	1.41	1.80	2.29	2.90	3.21	3.45	4.15
30	17650	1.39	1.78	2.26	2.87	3.17	3.41	4.10
31	18205	1.37	1.76	2.24	2.83	3.14	3.37	4.05
32	18760	1.35	1.74	2.21	2.80	3.10	3.33	4.01
33	19315	1.34	1.72	2.19	2.77	3.07	3.29	3.97
34	19870	1.32	1.70	2.16	2.74	3.04	3.26	3.93
35	20425	1.30	1.68	2.14	2.71	3.01	3.22	3.88
36	20980	1.29	1.66	2.12	2.68	2.97	3.19	3.85
37	21535	1.27	1.64	2.10	2.66	2.94	3.16	3.81
38	22090	1.26	1.63	2.08	2.63	2.92	3.13	3.77
39	22645	1.25	1.61	2.06	2.61	2.89	3.10	3.74
40	23200	1.23	1.59	2.04	2.58	2.86	3.07	3.71

R	M _r	Alley	Minor Local	Major Local	Minor Collector	Major Collector	Boulevard & Arterial	Truck Route
41	23755	1.22	1.58	2.02	2.56	2.84	3.04	3.67
42	24310	1.21	1.56	2.00	2.54	2.81	3.01	3.64
43	24865	1.19	1.55	1.98	2.52	2.79	2.99	3.61
44	25420	1.18	1.53	1.97	2.50	2.77	2.96	3.58
45	25975	1.17	1.52	1.95	2.48	2.74	2.94	3.55
46	26530	1.16	1.51	1.94	2.46	2.72	2.91	3.52
47	27085	1.15	1.49	1.92	2.44	2.70	2.89	3.49
48	27640	1.14	1.48	1.90	2.42	2.68	2.87	3.47
49	28195	1.12	1.47	1.89	2.40	2.66	2.85	3.44
50	28750	1.12	1.46	1.88	2.38	2.64	2.83	3.42
51	29305	1.11	1.45	1.86	2.36	2.62	2.80	3.39
52	29860	1.10	1.43	1.85	2.35	2.60	2.78	3.37
53	30415	1.09	1.42	1.83	2.33	2.58	2.77	3.34
54	30970	1.08	1.41	1.82	2.31	2.57	2.75	3.32
55	31525	1.07	1.40	1.81	2.30	2.55	2.73	3.30
56	32080	1.06	1.39	1.80	2.28	2.53	2.71	3.28
57	32635	1.05	1.38	1.78	2.27	2.52	2.69	3.26
58	33190	1.04	1.37	1.77	2.25	2.50	2.67	3.23
59	33745	1.03	1.36	1.76	2.24	2.48	2.66	3.21
60	34300	1.02	1.35	1.75	2.23	2.47	2.64	3.19
61	34855	1.02	1.34	1.74	2.21	2.45	2.62	3.17
62	35410	1.01	1.33	1.73	2.20	2.44	2.61	3.15
63	35965	1.00	1.32	1.72	2.19	2.42	2.59	3.14
64	36520	0.99	1.31	1.70	2.17	2.41	2.58	3.12
65	37075	0.99	1.31	1.69	2.16	2.40	2.56	3.10
66	37630	0.98	1.30	1.68	2.15	2.38	2.55	3.08
67	38185	0.97	1.29	1.67	2.14	2.37	2.53	3.06
68	38740	0.96	1.28	1.66	2.12	2.36	2.52	3.05
69	39295	0.96	1.27	1.65	2.11	2.34	2.51	3.03
70	39850	0.95	1.26	1.65	2.10	2.33	2.49	3.01
71	40405	0.94	1.26	1.64	2.09	2.32	2.48	3.00
72	40960	0.94	1.25	1.63	2.08	2.31	2.47	2.98
73	41515	0.93	1.24	1.62	2.07	2.29	2.45	2.97
74	42070	0.92	1.23	1.61	2.06	2.28	2.44	2.95
75	42625	0.92	1.23	1.60	2.05	2.27	2.43	2.94

See Development Guidelines Detail 4-6.1 for minimum structural section allowed.

Constants used to arrive at the SN shown in this table are on Detail 4-6.1.

R = Resistance Value

M_r = Resilient modulus of subgrade in pounds per square inch

Numbers calculated by Tyson Poekh on November 8, 2011 based on the 1993 AASHTO Empirical Equation Flexible Pavements