

TABLE A-XII Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 3 ($T = 1.5$ sec, $\beta = 17\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH. (325)	3.63	4.05	3.76	5.00	1.23	0.194	0.200	0.107	0.116	0.0581	0.0639
22 EUREKA (022)	3.43	3.27	3.48	4.05	1.24	0.156	0.182	0.092	0.102	0.0501	0.0559
23 EUREKA (023)	13.55	7.62	14.00	9.68	1.27	0.492	0.286	0.249	0.146	0.1352	0.0794
24 FERDALE (023)	4.50	3.58	4.95	3.92	1.10	0.185	0.181	0.110	0.122	0.0600	0.0676
25 SAN FERNANDO (241)	5.83	8.13	7.70	10.40	1.32	0.250	0.314	0.128	0.160	0.0696	0.0872
26 SAN FERNANDO (458)	8.65	5.13	9.44	6.29	1.23	0.357	0.203	0.180	0.103	0.0978	0.0560
27 SAN FERNANDO (264)	7.82	4.52	8.09	5.25	1.16	0.306	0.178	0.153	0.100	0.0832	0.0546
28 SAN FERNANDO (267)	5.50	4.86	5.78	5.52	1.14	0.245	0.227	0.132	0.123	0.0716	0.0672
29 PUGET SOUND (325)	3.07	10.93	4.80	14.07	1.56	0.172	0.404	0.093	0.207	0.0504	0.1124
MEAN	6.22	5.79	6.89	7.13	1.25	0.262	0.242	0.138	0.131	0.0751	0.0716
σ	3.17	2.41	3.16	3.27	0.13	0.102	0.073	0.048	0.033	0.0258	0.0178
MEAN OF MAX (L,T)	7.40		8.42			0.298		0.158		0.0861	
σ OF MAX (L,T)	3.19		3.62			0.101		0.045		0.0241	

TABLE A-XIII Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 4 (T = 1.5 sec, $\beta = 37\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION		BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
		L	T	L	T		L	T	L	T	L	T
21	WESTERN WASH. (325)	3.63	3.05	3.67	3.91	1.28	0.194	0.182	0.141	0.130	0.0766	0.0715
22	EUREKA (022)	3.33	2.74	3.52	3.01	1.10	0.185	0.162	0.096	0.107	0.0523	0.0588
23	EUREKA (023)	8.65	5.20	8.79	5.81	1.12	0.232	0.211	0.119	0.110	0.0648	0.0602
24	FERNDAL (023)	4.79	4.14	4.95	4.36	1.05	0.170	0.201	0.120	0.147	0.0653	0.0807
25	SAN FERNANDO (241)	3.15	4.86	3.56	5.56	1.14	0.181	0.200	0.094	0.107	0.0511	0.0580
26	SAN FERNANDO (458)	4.75	3.09	5.25	3.89	1.26	0.210	0.174	0.109	0.090	0.0590	0.0490
27	SAN FERNANDO (264)	6.03	3.55	6.10	3.93	1.11	0.225	0.174	0.131	0.124	0.0711	0.0679
28	SAN FERNANDO (267)	4.57	3.81	4.94	4.42	1.16	0.196	0.179	0.126	0.136	0.0685	0.0746
29	PUGET SOUND (325)	2.58	6.27	2.94	7.31	1.17	0.178	0.219	0.113	0.150	0.0614	0.0819

MEAN	4.61	4.08	4.86	4.69	1.15	0.197	0.189	0.117	0.122	0.0633	0.0670
σ	1.74	1.10	1.69	1.23	0.07	0.020	0.018	0.020	0.019	0.0079	0.0106
MEAN OF MAX (L,T)	5.21		5.59			0.207		0.127		0.0695	
σ OF MAX (L,T)	1.51		1.55			0.015		0.016		0.0091	

TABLE A-XIV Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 5 (T = 2.0 sec, β = 9%). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S₂). Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	$\frac{BASE\ SHEAR}{WEIGHT}$		$\frac{1^{ST}\ STORY\ SHEAR}{WEIGHT}$		$\frac{1^{ST}\ STORY\ DRIFT}{HEIGHT}\ (%)$	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH. (325)	8.10	10.83	8.76	14.92	1.38	0.203	0.256	0.105	0.134	0.0573	0.0721
22 EUREKA (022)	6.26	7.49	6.51	9.74	1.30	0.155	0.184	0.080	0.094	0.0435	0.0513
23 EUREKA (023)	20.11	8.89	20.96	9.64	1.08	0.466	0.225	0.236	0.115	0.1282	0.0637
24 FERNDAL (023)	4.29	3.27	4.44	3.44	1.05	0.111	0.101	0.058	0.062	0.0315	0.0341
25 SAN FERNANDO (241)	20.55	17.59	24.94	24.83	1.41	0.472	0.399	0.237	0.202	0.1286	0.1088
26 SAN FERNANDO (458)	16.45	10.68	17.02	14.86	1.39	0.385	0.249	0.194	0.127	0.1055	0.0682
27 SAN FERNANDO (264)	12.26	8.98	13.00	11.61	1.29	0.293	0.210	0.148	0.107	0.0803	0.0582
28 SAN FERNANDO (267)	8.49	6.56	9.23	8.48	1.29	0.226	0.159	0.116	0.081	0.0633	0.0448
29 PUGET SOUND (325)	3.34	15.31	5.68	18.42	1.70	0.094	0.359	0.051	0.183	0.0278	0.1002

MEAN	11.09	9.96	12.28	12.88	1.32	0.267	0.238	0.136	0.123	0.0740	0.0668
σ	6.20	4.12	6.82	5.89	0.18	0.137	0.088	0.068	0.043	0.0368	0.0231
MEAN OF MAX (L,T)	12.86		14.74			0.306		0.156		0.0848	
σ OF MAX (L,T)	5.34		6.02			0.118		0.058		0.0313	

TABLE A-XIVa Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 5 ($T = 2.0$ sec, $\beta = 9\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Bidirectional Interaction Neglected. Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASIL (325)	7.55	10.13	7.77	13.12	1.30	0.207	0.248	0.108	0.126	0.0597	0.0707
22 EUREKA (022)	6.22	6.00	6.48	7.48	1.25	0.177	0.167	0.090	0.086	0.0511	0.0503
23 EUREKA (023)	20.28	8.23	21.04	9.43	1.15	0.489	0.213	0.245	0.111	0.1391	0.0710
24 FERNDAL (023)	4.80	2.82	4.97	2.92	1.04	0.146	0.102	0.082	0.057	0.0464	0.0371
25 SAN FERNANDO (241)	16.41	15.63	20.76	22.88	1.46	0.403	0.367	0.201	0.184	0.1161	0.1049
26 SAN FERNANDO (458)	16.55	10.87	17.27	15.07	1.39	0.407	0.264	0.204	0.133	0.1129	0.0762
27 SAN FERNANDO (264)	11.37	8.63	12.02	11.66	1.35	0.291	0.220	0.149	0.113	0.0827	0.0634
28 SAN FERNANDO (267)	7.18	5.86	7.57	7.00	1.19	0.198	0.167	0.101	0.090	0.0553	0.0565
29 PUGET SOUND (325)	3.36	15.73	5.80	18.32	1.73	0.111	0.376	0.061	0.193	0.0348	0.1166

MEAN	10.41	9.32	11.52	11.99	1.32	0.270	0.236	0.138	0.121	0.0776	0.0719
σ	5.67	4.09	6.15	5.81	0.19	0.126	0.086	0.061	0.042	0.0347	0.0238
MEAN OF MAX (L,T)	12.07		13.85			0.304		0.155		0.0880	
σ OF MAX (L,T)	5.11		6.03			0.113		0.055		0.0321	

TABLE A-XV Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 6 ($T = 2.0$ sec, $\beta = 17\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION		BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
		L	T	L	T		L	T	L	T	L	T
21	WESTERN WASH. (325)	5.89	8.31	6.00	10.86	1.31	0.159	0.193	0.089	0.101	0.0484	0.0550
22	EUREKA (022)	5.02	5.53	5.49	7.44	1.35	0.135	0.137	0.068	0.070	0.0379	0.0384
23	EUREKA (023)	16.56	7.83	17.09	8.42	1.08	0.340	0.195	0.171	0.100	0.0929	0.0548
24	FERNDAL (023)	4.78	2.89	5.03	3.25	1.12	0.120	0.109	0.069	0.070	0.0374	0.0388
25	SAN FERNANDO (241)	17.01	12.16	19.06	15.71	1.29	0.349	0.262	0.176	0.133	0.0956	0.0720
26	SAN FERNANDO (458)	10.70	9.24	11.34	12.87	1.39	0.249	0.219	0.128	0.111	0.0696	0.0603
27	SAN FERNANDO (264)	8.81	6.08	9.46	7.95	1.31	0.210	0.137	0.111	0.070	0.0602	0.0384
28	SAN FERNANDO (267)	5.92	5.16	6.25	5.99	1.16	0.167	0.145	0.089	0.075	0.0485	0.0409
29	PUGET SOUND (325)	3.01	11.13	3.83	13.55	1.27	0.104	0.253	0.060	0.132	0.0328	0.0722

MEAN	8.63	7.59	9.28	9.56	1.25	0.204	0.183	0.107	0.096	0.0581	0.0523
σ	4.85	2.81	5.20	3.76	0.10	0.086	0.051	0.041	0.024	0.0222	0.0132
MEAN OF MAX (L,T)	9.86		11.29			0.224		0.116		0.0635	
σ OF MAX (L,T)	4.24		4.53			0.077		0.037		0.0199	

TABLE A-XVI Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 7 (T = 2.0 sec, $\beta = 31\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S₂). Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH. (325)	4.75	5.00	4.85	6.15	1.23	0.143	0.145	0.091	0.088	0.0496	0.0481
22 EUREKA (022)	5.05	4.46	5.24	5.08	1.14	0.140	0.123	0.084	0.067	0.0457	0.0369
23 EUREKA (023)	13.05	5.94	13.25	6.25	1.05	0.217	0.146	0.110	0.077	0.0597	0.0422
24 FERNDAL (023)	4.54	2.77	5.08	3.63	1.31	0.117	0.125	0.076	0.091	0.0413	0.0503
25 SAN FERNANDO (241)	7.57	7.51	8.05	9.43	1.26	0.153	0.174	0.079	0.088	0.0430	0.0479
26 SAN FERNANDO (458)	7.66	6.24	7.98	8.01	1.28	0.183	0.164	0.094	0.082	0.0511	0.0450
27 SAN FERNANDO (264)	7.67	4.43	7.76	4.69	1.06	0.178	0.112	0.100	0.076	0.0545	0.0420
28 SAN FERNANDO (267)	5.35	4.74	5.71	5.47	1.15	0.158	0.133	0.090	0.097	0.0488	0.0527
29 PUGET SOUND (325)	3.21	7.42	3.67	9.24	1.25	0.126	0.173	0.079	0.101	0.0431	0.0556

MEAN	6.54	5.39	6.84	6.44	1.19	0.157	0.144	0.089	0.085	0.0485	0.0467
σ	2.75	1.45	2.70	1.92	0.09	0.029	0.021	0.010	0.010	0.0057	0.0055
MEAN OF MAX (L,T)	7.03		7.76			0.166		0.095		0.0519	
σ OF MAX (L,T)	2.46		2.48			0.026		0.007		0.0040	

TABLE A-XVIa Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 7 (T = 2.0 sec, $\beta = 31\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Bidirectional Interaction Neglected. Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH. (325)	4.45	4.75	4.52	6.20	1.31	0.149	0.142	0.091	0.097	0.0493	0.0532
22 EUREKA (022)	4.52	2.94	4.92	3.92	1.33	0.149	0.125	0.080	0.089	0.0436	0.0488
23 EUREKA (023)	12.39	5.57	12.87	5.98	1.07	0.246	0.156	0.125	0.086	0.0678	0.0471
24 FERNDAL (023)	5.23	2.70	5.85	3.35	1.24	0.158	0.126	0.095	0.083	0.0516	0.0458
25 SAN FERNANDO (241)	4.52	7.20	4.56	8.50	1.18	0.149	0.182	0.075	0.099	0.0408	0.0544
26 SAN FERNANDO (458)	6.93	4.05	7.57	5.77	1.42	0.179	0.141	0.090	0.071	0.0489	0.0384
27 SAN FERNANDO (264)	8.29	4.28	8.49	4.90	1.14	0.196	0.145	0.115	0.105	0.0624	0.0575
28 SAN FERNANDO (267)	5.61	4.93	6.11	5.41	1.10	0.163	0.154	0.089	0.089	0.0482	0.0489
29 PUGET SOUND (325)	3.13	7.82	3.13	8.87	1.13	0.132	0.189	0.089	0.117	0.0480	0.0641

MEAN	6.12	4.92	6.45	5.88	1.21	0.169	0.151	0.095	0.093	0.0512	0.0509
σ	2.64	1.64	2.74	1.74	0.11	0.032	0.021	0.015	0.013	0.0081	0.0070
MEAN OF MAX (L,T)	6.97		7.71			0.179		0.102		0.0556	
σ OF MAX (L,T)	2.30		2.24			0.029		0.013		0.0069	

TABLE A-XVII Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 8 ($T = 2.5$ sec, $\beta = 6\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION		BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
		L	T	L	T		L	T	L	T	L	T
21	WESTERN WASH (325)	11.74	18.80	13.55	28.47	1.51	0.184	0.277	0.093	0.139	0.0507	0.0750
22	EUREKA (022)	11.12	12.07	14.02	14.90	1.26	0.173	0.184	0.088	0.094	0.0477	0.0512
23	EUREKA (023)	18.77	8.38	19.24	10.50	1.25	0.297	0.143	0.149	0.072	0.0809	0.0394
24	FERNDALE (023)	3.54	2.97	3.69	3.12	1.05	0.061	0.067	0.031	0.037	0.0169	0.0204
25	SAN FERNANDO (241)	39.77	15.05	43.18	28.24	1.88	0.602	0.215	0.301	0.108	0.0164	0.0593
26	SAN FERNANDO (458)	26.51	18.11	30.76	29.89	1.65	0.412	0.258	0.207	0.129	0.1123	0.0689
27	SAN FERNANDO (264)	20.19	9.48	21.20	10.58	1.12	0.321	0.164	0.161	0.084	0.0873	0.0463
28	SAN FERNANDO (267)	9.54	7.08	9.65	8.02	1.13	0.158	0.112	0.081	0.058	0.0438	0.0319
29	PUGET SOUND (325)	3.56	14.54	5.55	16.72	1.56	0.064	0.225	0.035	0.113	0.0191	0.0618

MEAN	16.08	11.83	17.87	16.72	1.38	0.252	0.183	0.127	0.093	0.0528	0.0505
σ	11.03	4.99	11.89	9.34	0.27	0.165	0.065	0.082	0.031	0.0323	0.0168
MEAN OF MAX (L,T)	18.19		20.87			0.283		0.142		0.0658	
σ OF MAX (L,T)	9.89		11.21			0.147		0.073		0.0253	

TABLE A-XVIII Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 9 ($T = 2.5$ sec, $\beta = 15\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION		BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
		L	T	L	T		L	T	L	T	L	T
21	WESTERN WASH. (325)	8.30	13.53	10.86	18.95	1.40	0.128	0.180	0.065	0.091	0.0351	0.0495
22	EUREKA (022)	8.24	8.86	10.01	10.81	1.22	0.136	0.131	0.068	0.066	0.0369	0.0363
23	EUREKA (023)	17.44	6.49	17.80	7.21	1.11	0.240	0.117	0.121	0.060	0.0656	0.0331
24	FERNDAL (023)	4.12	2.81	4.24	2.85	1.03	0.073	0.077	0.047	0.041	0.0223	0.0259
25	SAN FERNANDO (241)	29.33	13.34	30.06	16.19	1.21	0.384	0.182	0.193	0.093	0.1047	0.0508
26	SAN FERNANDO (458)	16.97	16.06	17.17	20.02	1.25	0.236	0.226	0.118	0.114	0.0644	0.0624
27	SAN FERNANDO (264)	10.47	7.17	10.83	8.11	1.13	0.153	0.118	0.080	0.060	0.0434	0.0327
28	SAN FERNANDO (267)	5.61	6.77	5.95	8.08	1.19	0.105	0.110	0.057	0.060	0.0309	0.0331
29	PUGET SOUND (325)	3.55	11.92	3.83	13.03	1.09	0.073	0.165	0.048	0.085	0.0260	0.0464

MEAN	11.56	9.66	12.31	11.69	1.18	0.170	0.145	0.089	0.074	0.0477	0.0411
σ	7.87	4.04	7.86	5.47	0.10	0.095	0.044	0.045	0.021	0.0248	0.0111
MEAN OF MAX (L,T)	13.27		14.87			0.187		0.096		0.0522	
σ OF MAX (L,T)	7.02		7.29			0.086		0.0041		0.0223	

TABLE A-XVIIIa Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 9 ($T = 2.5$ sec, $\beta = 15\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Bidirectional Interaction Neglected. Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH (325)	7.26	12.60	9.07	15.51	1.25	0.132	0.186	0.071	0.094	0.0382	0.0514
22 EUREKA (022)	6.21	7.26	7.01	9.30	1.28	0.119	0.128	0.062	0.065	0.0333	0.0354
23 EUREKA (023)	17.48	6.32	18.00	7.13	1.13	0.256	0.120	0.131	0.064	0.0710	0.0352
24 FERNDALE (023)	4.69	3.01	4.81	3.05	1.03	0.101	0.080	0.060	0.044	0.0325	0.0244
25 SAN FERNANDO (241)	24.47	11.79	26.94	13.43	1.14	0.341	0.184	0.171	0.093	0.0928	0.0509
26 SAN FERNANDO (458)	16.54	15.05	16.89	18.60	1.24	0.245	0.220	0.123	0.111	0.0666	0.0603
27 SAN FERNANDO (264)	10.08	7.02	10.28	9.13	1.30	0.166	0.125	0.084	0.065	0.0454	0.0355
28 SAN FERNANDO (267)	5.41	6.61	5.83	7.84	1.19	0.110	0.122	0.057	0.067	0.0307	0.0363
29 PUGET SOUND (325)	3.49	12.54	3.99	13.80	1.14	0.086	0.192	0.048	0.098	0.0257	0.0536

MEAN	10.63	9.13	11.42	10.87	1.19	0.173	0.151	0.090	0.078	0.0485	0.0426
σ	6.82	3.73	7.23	4.55	0.08	0.083	0.043	0.040	0.021	0.0217	0.0111
MEAN OF MAX (L,T)	12.47		13.90			0.193		0.099		0.0539	
σ OF MAX (L,T)	5.90		6.37			0.072		0.035		0.0187	

TABLE A-XIX Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 10 (T = 2.5 sec, $\beta = 26\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH. (325)	5.92	6.63	6.13	9.01	1.36	0.101	0.117	0.059	0.060	0.0322	0.0328
22 EUREKA (022)	6.43	6.79	7.21	8.11	1.19	0.109	0.112	0.062	0.059	0.0334	0.0324
23 EUREKA (023)	16.39	6.07	16.59	6.37	1.05	0.194	0.109	0.098	0.056	0.0531	0.0304
24 FERNDAL (023)	4.75	2.80	4.97	2.81	1.05	0.086	0.089	0.053	0.059	0.0290	0.0325
25 SAN FERNANDO (241)	13.16	12.32	13.87	13.94	1.13	0.174	0.153	0.087	0.078	0.0474	0.0424
26 SAN FERNANDO (458)	11.30	11.50	11.60	15.26	1.33	0.142	0.161	0.071	0.082	0.0388	0.0445
27 SAN FERNANDO (264)	8.98	4.53	9.14	5.22	1.15	0.132	0.091	0.071	0.050	0.0385	0.0275
28 SAN FERNANDO (267)	4.94	5.83	5.33	6.63	1.14	0.105	0.111	0.060	0.063	0.0328	0.0346
29 PUGET SOUND (325)	3.31	8.92	3.71	9.93	1.12	0.089	0.126	0.058	0.073	0.0312	0.0404

MEAN	8.35	7.27	8.73	8.59	1.17	0.126	0.119	0.069	0.064	0.0374	0.0353
σ	4.17	2.94	4.17	3.78	0.10	0.036	0.023	0.014	0.010	0.0076	0.0055
MEAN OF MAX (L,T)	9.22		10.40			0.135		0.073		0.0397	
σ OF MAX (L,T)	3.60		3.76			0.032		0.013		0.0069	

TABLE A-XX Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 11 ($T = 3.0$ sec, $\beta = 9\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION		BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
		L	T	L	T		L	T	L	T	L	T
21	WESTERN WASH. (325)	9.73	21.66	14.07	33.32	1.54	0.114	0.214	0.058	0.108	0.0314	0.0579
22	EUREKA (022)	14.06	12.17	16.52	13.74	1.17	0.154	0.130	0.077	0.067	0.0420	0.0365
23	EUREKA (023)	18.89	6.06	19.19	6.70	1.11	0.206	0.077	0.104	0.040	0.0564	0.0218
24	FERNDAL (023)	3.39	3.07	3.52	3.12	1.04	0.045	0.055	0.024	0.030	0.0128	0.0164
25	SAN FERNANDO (241)	34.76	14.78	35.80	16.30	1.10	0.367	0.161	0.185	0.081	0.1007	0.0444
26	SAN FERNANDO (458)	24.01	21.90	24.76	31.57	1.44	0.247	0.224	0.124	0.112	0.0675	0.0614
27	SAN FERNANDO (264)	14.64	9.68	15.26	11.06	1.14	0.168	0.109	0.085	0.055	0.0464	0.0301
28	SAN FERNANDO (267)	7.06	10.16	7.34	12.49	1.23	0.081	0.111	0.042	0.056	0.0229	0.0305
29	PUGET SOUND (325)	3.37	11.28	4.71	12.62	1.40	0.049	0.131	0.031	0.067	0.0169	0.0372

MEAN	14.43	12.31	15.69	15.66	1.24	0.159	0.135	0.081	0.068	0.0441	0.0374
σ	9.69	5.99	9.67	9.70	0.17	0.098	0.054	0.048	0.026	0.0263	0.0143
MEAN OF MAX (L,T)	16.98		20.03			0.184		0.093		0.0506	
σ OF MAX (L,T)	8.62		10.43			0.085		0.042		0.0229	

TABLE A-XXI Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 12 ($T = 3.0$ sec, $\beta = 22\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH. (325)	7.70	11.56	8.38	15.13	1.31	0.077	0.112	0.039	0.060	0.0213	0.0326
22 EUREKA (022)	9.97	10.12	11.45	11.70	1.16	0.095	0.095	0.051	0.050	0.0276	0.0275
23 EUREKA (023)	17.34	5.88	17.60	6.42	1.09	0.160	0.070	0.081	0.036	0.0441	0.0197
24 FERNDAL (023)	4.00	2.85	4.08	2.90	1.02	0.058	0.066	0.035	0.042	0.0188	0.0229
25 SAN FERNANDO (241)	20.38	15.22	20.64	17.45	1.15	0.189	0.146	0.095	0.073	0.0516	0.0401
26 SAN FERNANDO (458)	18.29	16.34	18.75	20.34	1.24	0.152	0.154	0.077	0.078	0.0417	0.0425
27 SAN FERNANDO (264)	11.74	6.28	12.06	7.23	1.15	0.118	0.075	0.060	0.038	0.0327	0.0209
28 SAN FERNANDO (267)	4.59	8.23	4.94	10.17	1.24	0.074	0.092	0.044	0.048	0.0240	0.0266
29 PUGET SOUND (325)	3.34	8.46	4.08	9.03	1.22	0.064	0.095	0.041	0.053	0.0222	0.0290

MEAN	10.82	8.33	11.33	11.15	1.18	0.110	0.101	0.058	0.053	0.0316	0.0291
σ	6.17	4.73	6.11	5.29	0.08	0.045	0.030	0.020	0.014	0.0110	0.0076
MEAN OF MAX (L,T)	12.24		13.42			0.120		0.063		0.0344	
σ OF MAX (L,T)	5.08		5.19			0.037		0.017		0.0090	

TABLE A-XXII Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 13 ($T = 3.0$ sec, $\beta = 37\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S_2). Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH (325)	5.46	5.80	5.51	7.26	1.25	0.081	0.089	0.057	0.053	0.0309	0.0289
22 EUREKA (022)	7.36	7.28	8.35	8.64	1.19	0.087	0.087	0.047	0.047	0.0257	0.0259
23 EUREKA (023)	16.61	5.35	16.83	5.84	1.09	0.127	0.077	0.064	0.040	0.0346	0.0218
24 FERNDAL (023)	4.71	2.74	4.90	2.75	1.04	0.074	0.078	0.046	0.055	0.0249	0.0303
25 SAN FERNANDO (241)	11.36	11.74	12.20	13.35	1.14	0.103	0.110	0.052	0.057	0.0281	0.0310
26 SAN FERNANDO (458)	10.30	13.63	10.78	16.62	1.22	0.097	0.120	0.049	0.060	0.0269	0.0329
27 SAN FERNANDO (264)	8.54	4.32	8.78	5.21	1.21	0.101	0.081	0.063	0.050	0.0342	0.0277
28 SAN FERNANDO (267)	4.05	6.55	4.48	7.46	1.14	0.084	0.092	0.053	0.073	0.0289	0.0398
29 PUGET SOUND (325)	3.56	7.13	3.84	7.29	1.08	0.077	0.089	0.056	0.058	0.0303	0.0319

MEAN	7.99	7.17	8.41	8.27	1.15	0.092	0.091	0.054	0.055	0.0294	0.0300
σ	4.00	3.27	4.06	4.00	0.07	0.016	0.014	0.006	0.009	0.0033	0.0047
MEAN OF MAX (L,T)	9.12		10.13			0.099		0.059		0.0324	
σ OF MAX (L,T)	3.77		4.11			0.016		0.007		0.0036	

TABLE A-XXIIa Nonlinear Dynamic Analysis Results for 1-Story Isolated Structure with Isolation System Type # 13 (T = 3.0 sec, $\beta = 37\%$). Excitation is Represented by Pairs of Scaled Earthquake Motions Recorded on Medium Soil Sites (Representative of Soil Type S₂). Bidirectional Interaction Neglected. Weight = 2560 kips, Height = 12 ft

EXCITATION	BASE CENTER DISPL (INCH)		CORNER BEARING DISPL (INCH)		CORNER TO CENTER DISPL RATIO	BASE SHEAR WEIGHT		1st STORY SHEAR WEIGHT		1st STORY DRIFT HEIGHT (%)	
	L	T	L	T		L	T	L	T	L	T
21 WESTERN WASH. (325)	6.10	6.51	6.15	7.15	1.10	0.094	0.095	0.059	0.058	0.0340	0.0374
22 EUREKA (022)	6.30	5.64	6.90	7.00	1.24	0.095	0.091	0.050	0.053	0.0292	0.0340
23 EUREKA (023)	17.42	6.07	17.57	6.50	1.07	0.143	0.094	0.074	0.048	0.0421	0.0313
24 FERNDAL (023)	6.25	3.13	6.42	3.18	1.03	0.095	0.081	0.061	0.048	0.0344	0.0310
25 SAN FERNANDO (241)	9.10	11.94	10.25	13.62	1.14	0.107	0.118	0.054	0.061	0.0304	0.0377
26 SAN FERNANDO (458)	9.46	12.80	10.02	15.94	1.25	0.108	0.121	0.055	0.061	0.0309	0.0349
27 SAN FERNANDO (264)	8.73	5.09	8.91	5.28	1.04	0.105	0.090	0.066	0.073	0.0373	0.0466
28 SAN FERNANDO (267)	4.23	6.27	4.38	7.07	1.13	0.086	0.093	0.054	0.067	0.0296	0.0417
29 PUGET SOUND (325)	3.86	7.56	4.01	7.87	1.04	0.084	0.099	0.063	0.064	0.0358	0.0413

MEAN	7.94	7.22	8.29	8.18	1.12	0.102	0.098	0.060	0.059	0.0337	0.0373
σ	3.85	2.98	3.90	3.80	0.08	0.017	0.012	0.007	0.008	0.0040	0.0049
MEAN OF MAX (L,T)	9.31		10.17			0.107		0.064		0.0389	
σ OF MAX (L,T)	3.71		4.08			0.016		0.006		0.0040	