Beam Loads : 3 (WIND LOAD - WL) Cont...

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
305	UNI kg/m	GY	368.000	-	-	-	-
401	UNI kg/m	GY	368.000	-	-	-	-
402	UNI kg/m	GY	368.000	-	-	-	-
403	UNI kg/m	GY	368.000	-	-	-	-
404	UNI kg/m	GY	368.000	-	-	-	-
405	UNI kg/m	GY	368.000	-	-	-	-
406	UNI kg/m	GY	368.000	-	-	-	-

Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
1	1:(DEAD LOA	0.444	1.049	0.058	1.141	-0.000	0.002	-0.041
	2:(LIVE LOAD	0.255	0.559	0.033	0.615	0.000	0.001	-0.022
	3:(WIND LOA	-0.816	-1.780	-0.105	1.969	-0.000	-0.004	0.069
	4:(DL+LL)	0.699	1.608	0.091	1.766	-0.000	0.003	-0.062
	5:0.75(DL+LL+	-0.088	-0.135	-0.011	0.162	-0.000	-0.000	0.005
2	1:(DEAD LOA	0.444	-0.035	0.001	0.445	-0.000	0.002	-0.046
	2:(LIVE LOAD	0.255	-0.021	0.000	0.256	0.000	0.001	-0.026
	3:(WIND LOA	-0.816	0.068	-0.001	0.819	-0.000	-0.004	0.085
	4:(DL+LL)	0.699	-0.056	0.001	0.701	-0.000	0.003	-0.073
	5:0.75(DL+LL+	-0.088	0.009	0.000	0.088	-0.000	-0.000	0.009
3	1:(DEAD LOA	0.429	-1.741	0.033	1.793	0.026	-0.004	-0.083
	2:(LIVE LOAD	0.246	-1.021	0.019	1.050	0.015	-0.002	-0.049
	3:(WIND LOA	-0.787	3.267	-0.060	3.361	-0.049	0.007	0.156
	4:(DL+LL)	0.675	-2.762	0.051	2.844	0.041	-0.006	-0.132
	5:0.75(DL+LL+	-0.084	0.379	-0.006	0.388	-0.005	0.001	0.018
4	1:(DEAD LOA	0.408	-3.471	0.134	3.498	0.037	-0.005	-0.070
	2:(LIVE LOAD	0.233	-2.021	0.077	2.035	0.022	-0.003	-0.040
	3:(WIND LOA	-0.744	6.466	-0.246	6.513	-0.069	0.009	0.128
	4:(DL+LL)	0.640	-5.492	0.211	5.533	0.059	-0.008	-0.110
	5:0.75(DL+LL+	-0.078	0.730	-0.027	0.735	-0.008	0.001	0.014
5	1:(DEAD LOA	0.350	-4.791	0.240	4.810	0.043	-0.004	-0.054
	2:(LIVE LOAD	0.199	-2.766	0.138	2.777	0.025	-0.002	-0.030
	3:(WIND LOA	-0.638	8.852	-0.442	8.885	-0.079	0.008	0.097
	4:(DL+LL)	0.549	-7.557	0.378	7.586	0.067	-0.007	-0.084
	5:0.75(DL+LL+	-0.066	0.971	-0.048	0.974	-0.009	0.001	0.009
6	1:(DEAD LOA	0.292	-5.852	0.292	5.866	0.047	0.000	-0.045
	2:(LIVE LOAD	0.166	-3.359	0.169	3.367	0.027	0.000	-0.025
	3:(WIND LOA	-0.532	10.748	-0.539	10.775	-0.087	-0.000	0.081
	4:(DL+LL)	0.459	-9.210	0.461	9.233	0.074	0.000	-0.070
	5:0.75(DL+LL+	-0.055	1.153	-0.059	1.156	-0.010	-0.000	0.008
7	1:(DEAD LOA	0.224	-6.750	0.309	6.761	0.048	-0.001	-0.037
	2:(LIVE LOAD	0.127	-3.876	0.178	3.882	0.028	-0.001	-0.021
	3:(WIND LOA	-0.407	12.404	-0.569	12.423	-0.089	0.003	0.067
	4:(DL+LL)	0.351	-10.626	0.487	10.643	0.076	-0.002	-0.058
	5:0.75(DL+LL+	-0.042	1.333	-0.062	1.335	-0.010	0.000	0.007
8	1:(DEAD LOA	0.155	-7.434	0.342	7.443	0.053	-0.001	-0.024
	2:(LIVE LOAD	0.098	-4.266	0.197	4.271	0.031	-0.001	-0.014
	3:(WIND LOA	-0.282	13.651	-0.630	13.669	-0.099	0.002	0.043
	4:(DL+LL)	0.243	-11.700	0.539	11.714	0.084	-0.002	-0.036
	5:0.75(DL+LL+	-0.029	1.464	-0.068	1.466	-0.011	0.000	0.004
9	1:(DEAD LOA	0.077	-7.798	0.378	7.808	0.059	-0.002	-0.011
	2:(LIVE LOAD	0.044	-4.470	0.217	4.475	0.034	-0.001	-0.006
	3:(WIND LOA	-0.141	14.303	-0.695	14.320	-0.109	0.003	0.019
	4:(DL+LL)	0.121	-12.268	0.595	12.283	0.093	-0.003	-0.017
	5:0.75(DL+LL+	-0.015	1.526	-0.075	1.528	-0.012	0.000	0.001
10	1:(DEAD LOA	-0.000	-7.921	0.400	7.931	0.064	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	2:(LIVE LOAD	-0.000	-4.531	0.230	4.536	0.037	-0.000	-0.000
	3:(WIND LOA	0.000	14.498	-0.735	14.516	-0.118	0.000	0.000
	4:(DL+LL)	-0.000	-12.452	0.630	12.468	0.101	-0.000	-0.000
	5:0.75(DL+LL+	0.000	1.534	-0.079	1.536	-0.013	0.000	0.000
11	1:(DEAD LOA	-0.077	-7.798	0.378	7.808	0.059	0.002	0.011
	2:(LIVE LOAD	-0.044	-4.470	0.217	4.475	0.034	0.001	0.006
	3:(WIND LOA	0.141	14.303	-0.695	14.320	-0.109	-0.003	-0.019
	4:(DL+LL)	-0.121	-12.268	0.595	12.283	0.093	0.003	0.017
	5:0.75(DL+LL+	0.015	1.526	-0.075	1.528	-0.012	-0.000	-0.001
12	1:(DEAD LOA	-0.155	-7.434	0.342	7.443	0.053	0.001	0.024
	2:(LIVE LOAD	-0.088	-4.266	0.197	4.271	0.031	0.001	0.014
	3:(WIND LOA	0.282	13.651	-0.630	13.669	-0.099	-0.002	-0.043
	4:(DL+LL)	-0.243	-11.700	0.539	11.715	0.084	0.002	0.038
	5:0.75(DL+LL+	0.029	1.464	-0.068	1.466	-0.011	-0.000	-0.004
13	1:(DEAD LOA	-0.224	-6.750	0.309	6.761	0.048	0.001	0.037
	2:(LIVE LOAD	-0.127	-3.876	0.178	3.882	0.028	0.001	0.021
	3:(WIND LOA	0.407	12.404	-0.569	12.423	-0.089	-0.003	-0.067
	4:(DL+LL)	-0.351	-10.626	0.487	10.643	0.076	0.002	0.058
	5:0.75(DL+LL+	0.042	1.333	-0.062	1.335	-0.010	-0.000	-0.007
14	1:(DEAD LOA	-0.292	-5.852	0.292	5.866	0.047	-0.000	0.045
	2:(LIVE LOAD	-0.166	-3.359	0.169	3.367	0.027	-0.000	0.025
	3:(WIND LOA	0.532	10.748	-0.539	10.775	-0.087	0.000	-0.081
	4:(DL+LL)	-0.459	-9.210	0.461	9.233	0.074	-0.000	0.070
	5:0.75(DL+LL+	0.055	1.153	-0.059	1.156	-0.010	0.000	-0.008
15	1:(DEAD LOA	-0.350	-4.791	0.240	4.810	0.043	0.004	0.054
	2:(LIVE LOAD	-0.199	-2.766	0.138	2.777	0.025	0.002	0.030
	3:(WIND LOA	0.638	8.862	-0.442	8.885	-0.079	-0.008	-0.097
	4:(DL+LL)	-0.549	-7.557	0.378	7.586	0.067	0.007	0.084
	5:0.75(DL+LL+	0.066	0.971	-0.048	0.974	-0.009	-0.001	-0.009
16	1:(DEAD LOA	-0.408	-3.471	0.134	3.498	0.037	0.005	0.070
	2:(LIVE LOAD	-0.233	-2.021	0.077	2.035	0.022	0.003	0.040
	3:(WIND LOA	0.744	6.466	-0.246	6.513	-0.069	-0.009	-0.126
	4:(DL+LL)	-0.640	-5.492	0.211	5.533	0.059	0.008	0.110
	5:0.75(DL+LL+	0.078	0.730	-0.027	0.735	-0.008	-0.001	-0.014
17	1:(DEAD LOA	-0.423	-1.741	0.033	1.793	0.026	0.004	0.083
	2:(LIVE LOAD	-0.246	-1.021	0.019	1.050	0.015	0.002	0.049
	3:(WIND LOA	0.787	3.267	-0.060	3.361	-0.049	-0.007	-0.156
	4:(DL+LL)	-0.675	-2.762	0.051	2.844	0.041	0.006	0.132
	5:0.75(DL+LL+	0.084	0.379	-0.006	0.388	-0.005	-0.001	-0.018
18	1:(DEAD LOA	-0.444	-0.035	0.001	0.445	-0.000	-0.002	0.046
	2:(LIVE LOAD	-0.255	-0.021	0.000	0.256	0.000	-0.001	0.026
	3:(WIND LOA	0.816	0.068	-0.001	0.819	-0.000	0.004	-0.085
	4:(DL+LL)	-0.699	-0.056	0.001	0.701	-0.000	-0.003	0.073
	5:0.75(DL+LL+	0.088	0.009	0.000	0.088	-0.000	0.000	-0.009
19	1:(DEAD LOA	-0.444	1.049	0.058	1.141	-0.000	-0.002	0.041
	2:(LIVE LOAD	-0.255	0.559	0.033	0.615	0.000	-0.001	0.022
	3:(WIND LOA	0.816	-1.789	-0.105	1.969	-0.000	0.004	-0.069
	4:(DL+LL)	-0.699	1.608	0.091	1.756	-0.000	-0.003	0.062
	5:0.75(DL+LL+	0.088	-0.135	-0.011	0.162	-0.000	0.000	-0.005
20	1:(DEAD LOA	0.049	-1.747	-0.104	1.751	0.026	-0.001	-0.081
	2:(LIVE LOAD	0.025	-1.024	-0.061	1.026	0.015	-0.001	-0.047
	3:(WIND LOA	-0.081	3.278	0.196	3.284	-0.049	0.002	0.150
	4:(DL+LL)	0.074	-2.771	-0.166	2.777	0.042	-0.002	-0.127
	5:0.75(DL+LL+	-0.005	0.380	0.023	0.381	-0.006	0.000	0.017
21	1:(DEAD LOA	-0.234	-3.472	-0.232	3.487	0.037	-0.001	-0.067
	2:(LIVE LOAD	-0.135	-2.020	-0.135	2.029	0.021	-0.001	-0.036
	3:(WIND LOA	0.433	6.465	0.433	6.494	-0.068	0.002	0.122
	4:(DL+LL)	-0.369	-5.492	-0.368	5.517	0.058	-0.002	-0.105
	5:0.75(DL+LL+	0.048	0.730	0.049	0.733	-0.008	0.000	0.013

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
22	1:[DEAD LOAI	-0.425	-4.783	-0.381	4.817	0.043	-0.002	-0.052
	2:[LIVE LOAD	-0.240	-2.760	-0.222	2.779	0.025	-0.001	-0.029
	3:[WIND LOAI	0.768	8.832	0.709	8.894	-0.079	0.004	0.094
	4:[DL+LL)	-0.665	-7.543	-0.602	7.596	0.067	-0.003	-0.082
	5:0.75[DL+LL+	0.077	0.967	0.080	0.973	-0.009	0.000	0.009
23	1:[DEAD LOAI	-0.532	-5.808	-0.572	5.860	0.046	0.000	-0.044
	2:[LIVE LOAD	-0.301	-3.333	-0.332	3.363	0.026	0.000	-0.025
	3:[WIND LOAI	0.963	10.666	1.063	10.762	-0.085	-0.000	0.079
	4:[DL+LL)	-0.833	-9.141	-0.904	9.224	0.072	0.000	-0.068
	5:0.75[DL+LL+	0.097	1.144	0.119	1.154	-0.009	0.000	0.008
24	1:[DEAD LOAI	-0.428	-6.740	-0.613	6.782	0.048	0.002	-0.036
	2:[LIVE LOAD	-0.243	-3.869	-0.356	3.893	0.028	0.001	-0.021
	3:[WIND LOAI	0.778	12.381	1.138	12.458	-0.086	-0.004	0.067
	4:[DL+LL)	-0.671	-10.609	-0.969	10.675	0.075	0.003	-0.057
	5:0.75[DL+LL+	0.081	1.329	0.127	1.337	-0.010	-0.000	0.007
25	1:[DEAD LOAI	-0.284	-7.434	-0.684	7.471	0.053	0.004	-0.024
	2:[LIVE LOAD	-0.161	-4.266	-0.396	4.287	0.031	0.002	-0.013
	3:[WIND LOAI	0.514	13.650	1.267	13.718	-0.099	-0.007	0.043
	4:[DL+LL)	-0.445	-11.699	-1.080	11.758	0.084	0.006	-0.037
	5:0.75[DL+LL+	0.052	1.463	0.140	1.471	-0.011	-0.001	0.004
26	1:[DEAD LOAI	-0.141	-7.788	-0.753	7.825	0.059	0.002	-0.011
	2:[LIVE LOAD	-0.078	-4.462	-0.435	4.484	0.034	0.001	-0.006
	3:[WIND LOAI	0.249	14.278	1.393	14.348	-0.109	-0.003	0.018
	4:[DL+LL)	-0.218	-12.249	-1.189	12.309	0.093	0.003	-0.016
	5:0.75[DL+LL+	0.023	1.522	0.153	1.529	-0.012	-0.000	0.002
27	1:[DEAD LOAI	-0.000	-7.887	-0.783	7.926	0.063	-0.000	-0.000
	2:[LIVE LOAD	-0.000	-4.510	-0.452	4.532	0.036	-0.000	-0.000
	3:[WIND LOAI	0.000	14.431	1.448	14.503	-0.115	0.000	0.000
	4:[DL+LL)	-0.000	-12.396	-1.236	12.458	0.099	-0.000	-0.000
	5:0.75[DL+LL+	0.000	1.526	0.159	1.534	-0.013	0.000	0.000
28	1:[DEAD LOAI	0.141	-7.788	-0.753	7.825	0.059	-0.002	0.011
	2:[LIVE LOAD	0.078	-4.462	-0.435	4.484	0.034	-0.001	0.006
	3:[WIND LOAI	-0.249	14.278	1.393	14.348	-0.109	0.003	-0.018
	4:[DL+LL)	0.218	-12.249	-1.189	12.309	0.093	-0.003	0.016
	5:0.75[DL+LL+	-0.023	1.522	0.153	1.529	-0.012	0.000	-0.002
29	1:[DEAD LOAI	0.284	-7.434	-0.684	7.471	0.053	-0.004	0.024
	2:[LIVE LOAD	0.161	-4.266	-0.396	4.287	0.031	-0.002	0.013
	3:[WIND LOAI	-0.514	13.650	1.267	13.718	-0.099	0.007	-0.043
	4:[DL+LL)	0.445	-11.699	-1.080	11.758	0.084	-0.006	0.037
	5:0.75[DL+LL+	-0.052	1.463	0.140	1.471	-0.011	0.001	-0.004
30	1:[DEAD LOAI	0.428	-6.740	-0.613	6.782	0.048	-0.002	0.036
	2:[LIVE LOAD	0.243	-3.869	-0.356	3.893	0.028	-0.001	0.021
	3:[WIND LOAI	-0.778	12.381	1.138	12.458	-0.088	0.004	-0.067
	4:[DL+LL)	0.671	-10.609	-0.969	10.675	0.075	-0.003	0.057
	5:0.75[DL+LL+	-0.081	1.329	0.127	1.337	-0.010	0.000	-0.007
31	1:[DEAD LOAI	0.532	-5.808	-0.572	5.860	0.046	-0.000	0.044
	2:[LIVE LOAD	0.301	-3.333	-0.332	3.363	0.026	-0.000	0.025
	3:[WIND LOAI	-0.963	10.666	1.063	10.762	-0.085	0.000	-0.079
	4:[DL+LL)	0.833	-9.141	-0.904	9.224	0.072	-0.000	0.068
	5:0.75[DL+LL+	-0.097	1.144	0.119	1.154	-0.009	-0.000	-0.008
32	1:[DEAD LOAI	0.425	-4.783	-0.381	4.817	0.043	0.002	0.052
	2:[LIVE LOAD	0.240	-2.760	-0.222	2.779	0.025	0.001	0.029
	3:[WIND LOAI	-0.768	8.832	0.709	8.894	-0.079	-0.004	-0.094
	4:[DL+LL)	0.665	-7.543	-0.602	7.596	0.067	0.003	0.082
	5:0.75[DL+LL+	-0.077	0.967	0.080	0.973	-0.009	-0.000	-0.009
33	1:[DEAD LOAI	0.234	-3.472	-0.232	3.487	0.037	0.001	0.067
	2:[LIVE LOAD	0.135	-2.020	-0.135	2.029	0.021	0.001	0.038
	3:[WIND LOAI	-0.433	6.465	0.433	6.494	-0.068	-0.002	-0.122
	4:[DL+LL)	0.369	-5.492	-0.368	5.517	0.058	0.002	0.105

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	5:0.75[DL+LL+	-0.048	0.730	0.049	0.733	-0.008	-0.000	-0.013
34	1:[DEAD LOAI	-0.049	-1.747	-0.104	1.751	0.026	0.001	0.081
	2:[LIVE LOAD	-0.025	-1.024	-0.061	1.026	0.015	0.001	0.047
	3:[WIND LOAI	0.081	3.278	0.196	3.284	-0.049	-0.002	-0.150
	4:[DL+LL)	-0.074	-2.771	-0.166	2.777	0.042	0.002	0.127
	5:0.75[DL+LL+	0.005	0.380	0.023	0.381	-0.006	-0.000	-0.017
35	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.000	0.002	0.005
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	-0.000	0.001	0.003
	3:[WIND LOAI	0.000	0.000	0.000	0.000	0.000	-0.004	-0.009
	4:[DL+LL)	0.000	0.000	0.000	0.000	0.000	0.003	0.008
	5:0.75[DL+LL+	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
36	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.000	-0.002	-0.005
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	-0.000	-0.001	-0.003
	3:[WIND LOAI	0.000	0.000	0.000	0.000	0.000	0.004	0.009
	4:[DL+LL)	0.000	0.000	0.000	0.000	0.000	-0.003	-0.008
	5:0.75[DL+LL+	-0.000	0.000	0.000	0.000	0.000	0.000	0.001
101	1:[DEAD LOAI	0.596	1.450	0.000	1.568	0.000	0.000	-0.056
	2:[LIVE LOAD	0.343	0.792	0.000	0.863	0.000	0.000	-0.031
	3:[WIND LOAI	-1.099	-2.533	-0.000	2.761	-0.000	-0.000	0.098
	4:[DL+LL)	0.940	2.242	0.000	2.431	0.000	0.000	-0.087
	5:0.75[DL+LL+	-0.119	-0.218	-0.000	0.249	-0.000	-0.000	0.008
102	1:[DEAD LOAI	0.596	-0.040	0.000	0.598	0.000	0.000	-0.062
	2:[LIVE LOAD	0.343	-0.025	0.000	0.344	0.000	0.000	-0.035
	3:[WIND LOAI	-1.099	0.079	-0.000	1.101	-0.000	-0.000	0.114
	4:[DL+LL)	0.940	-0.065	0.000	0.942	0.000	0.000	-0.097
	5:0.75[DL+LL+	-0.119	0.010	-0.000	0.120	-0.000	-0.000	0.012
103	1:[DEAD LOAI	0.578	-2.288	-0.000	2.360	0.000	0.000	-0.110
	2:[LIVE LOAD	0.332	-1.339	-0.000	1.379	0.000	0.000	-0.064
	3:[WIND LOAI	-1.063	4.284	0.000	4.413	-0.000	-0.000	0.206
	4:[DL+LL)	0.911	-3.627	-0.000	3.739	0.000	0.000	-0.175
	5:0.75[DL+LL+	-0.114	0.493	0.000	0.506	-0.000	-0.000	0.023
104	1:[DEAD LOAI	0.552	-4.600	-0.000	4.633	0.000	-0.000	-0.094
	2:[LIVE LOAD	0.316	-2.675	-0.000	2.694	-0.000	-0.000	-0.054
	3:[WIND LOAI	-1.011	8.560	0.000	8.619	0.000	0.000	0.173
	4:[DL+LL)	0.867	-7.275	-0.000	7.326	0.000	-0.000	-0.148
	5:0.75[DL+LL+	-0.107	0.964	0.000	0.970	0.000	0.000	0.019
105	1:[DEAD LOAI	0.474	-6.396	-0.000	6.414	0.000	-0.000	-0.074
	2:[LIVE LOAD	0.271	-3.696	0.000	3.706	0.000	-0.000	-0.042
	3:[WIND LOAI	-0.868	11.828	-0.000	11.860	-0.000	0.000	0.133
	4:[DL+LL)	0.746	-10.092	0.000	10.120	0.000	-0.000	-0.115
	5:0.75[DL+LL+	-0.092	1.302	-0.000	1.305	0.000	0.000	0.013
106	1:[DEAD LOAI	0.397	-7.853	0.000	7.863	0.000	-0.000	-0.061
	2:[LIVE LOAD	0.227	-4.518	0.000	4.523	-0.000	-0.000	-0.035
	3:[WIND LOAI	-0.725	14.456	-0.000	14.474	0.000	0.000	0.111
	4:[DL+LL)	0.624	-12.370	0.000	12.386	0.000	-0.000	-0.095
	5:0.75[DL+LL+	-0.076	1.564	-0.000	1.566	0.000	-0.000	0.011
107	1:[DEAD LOAI	0.304	-9.061	0.000	9.066	0.000	0.000	-0.049
	2:[LIVE LOAD	0.174	-5.213	0.000	5.216	0.000	0.000	-0.028
	3:[WIND LOAI	-0.556	16.681	-0.000	16.690	-0.000	-0.000	0.091
	4:[DL+LL)	0.478	-14.274	0.000	14.282	0.000	0.000	-0.078
	5:0.75[DL+LL+	-0.058	1.805	-0.000	1.806	0.000	-0.000	0.010
108	1:[DEAD LOAI	0.211	-9.589	-0.000	9.991	0.000	0.000	-0.033
	2:[LIVE LOAD	0.120	-5.743	-0.000	5.744	0.000	0.000	-0.019
	3:[WIND LOAI	-0.385	18.376	0.000	18.380	-0.000	-0.000	0.060
	4:[DL+LL)	0.331	-15.731	-0.000	15.735	0.000	0.000	-0.052
	5:0.75[DL+LL+	-0.040	1.984	0.000	1.984	-0.000	-0.000	0.006
109	1:[DEAD LOAI	0.106	-10.498	-0.000	10.499	0.000	0.000	-0.016
	2:[LIVE LOAD	0.060	-6.028	-0.000	6.029	0.000	0.000	-0.009
	3:[WIND LOAI	-0.192	19.291	0.000	19.292	-0.000	-0.000	0.028

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	4:(DL+LL)	0.166	-16.527	-0.000	16.528	0.000	0.000	-0.025
	5:0.75(DL+LL+	-0.020	2.073	0.000	2.073	-0.000	-0.000	0.002
110	1:(DEAD LOAI	-0.000	-10.686	-0.000	10.686	0.000	-0.000	-0.000
	2:(LIVE LOAD	-0.000	-6.126	-0.000	6.126	0.000	-0.000	-0.000
	3:(WIND LOAI	0.000	19.605	0.000	19.605	-0.000	0.000	0.000
	4:(DL+LL)	-0.000	-16.813	-0.000	16.813	0.000	-0.000	-0.000
	5:0.75(DL+LL+	0.000	2.094	0.000	2.094	-0.000	0.000	0.000
111	1:(DEAD LOAI	-0.106	-10.498	-0.000	10.499	0.000	-0.000	0.016
	2:(LIVE LOAD	-0.060	-6.028	-0.000	6.029	0.000	-0.000	0.009
	3:(WIND LOAI	0.192	19.291	0.000	19.292	-0.000	0.000	-0.028
	4:(DL+LL)	-0.166	-16.527	-0.000	16.528	0.000	-0.000	0.025
	5:0.75(DL+LL+	0.020	2.073	0.000	2.073	-0.000	0.000	-0.002
112	1:(DEAD LOAI	-0.211	-9.989	-0.000	9.991	0.000	-0.000	0.033
	2:(LIVE LOAD	-0.120	-5.743	-0.000	5.744	0.000	-0.000	0.019
	3:(WIND LOAI	0.385	18.376	0.000	18.380	-0.000	0.000	-0.060
	4:(DL+LL)	-0.331	-15.731	-0.000	15.735	0.000	-0.000	0.052
	5:0.75(DL+LL+	0.040	1.994	0.000	1.994	-0.000	0.000	-0.006
113	1:(DEAD LOAI	-0.304	-9.061	0.000	9.066	0.000	-0.000	0.049
	2:(LIVE LOAD	-0.174	-5.213	0.000	5.216	0.000	-0.000	0.028
	3:(WIND LOAI	0.556	16.681	-0.000	16.690	-0.000	0.000	-0.091
	4:(DL+LL)	-0.478	-14.274	0.000	14.282	0.000	-0.000	0.078
	5:0.75(DL+LL+	0.058	1.805	-0.000	1.806	0.000	0.000	-0.010
114	1:(DEAD LOAI	-0.397	-7.853	0.000	7.863	0.000	0.000	0.061
	2:(LIVE LOAD	-0.227	-4.518	0.000	4.523	-0.000	0.000	0.035
	3:(WIND LOAI	0.725	14.456	-0.000	14.474	0.000	-0.000	-0.111
	4:(DL+LL)	-0.624	-12.370	0.000	12.386	0.000	0.000	0.095
	5:0.75(DL+LL+	0.076	1.564	-0.000	1.566	0.000	0.000	-0.011
115	1:(DEAD LOAI	-0.474	-6.396	-0.000	6.414	0.000	0.000	0.074
	2:(LIVE LOAD	-0.271	-3.696	0.000	3.706	0.000	0.000	0.042
	3:(WIND LOAI	0.868	11.828	-0.000	11.860	-0.000	-0.000	-0.133
	4:(DL+LL)	-0.746	-10.092	0.000	10.120	0.000	0.000	0.115
	5:0.75(DL+LL+	0.092	1.302	-0.000	1.305	0.000	-0.000	-0.013
116	1:(DEAD LOAI	-0.552	-4.600	-0.000	4.633	0.000	0.000	0.094
	2:(LIVE LOAD	-0.316	-2.675	-0.000	2.694	-0.000	0.000	0.054
	3:(WIND LOAI	1.011	8.560	0.000	8.619	0.000	-0.000	-0.173
	4:(DL+LL)	-0.867	-7.275	-0.000	7.326	0.000	0.000	0.148
	5:0.75(DL+LL+	0.107	0.964	0.000	0.970	0.000	-0.000	-0.019
117	1:(DEAD LOAI	-0.578	-2.288	-0.000	2.360	0.000	-0.000	0.110
	2:(LIVE LOAD	-0.332	-1.339	-0.000	1.379	0.000	-0.000	0.064
	3:(WIND LOAI	1.063	4.284	0.000	4.414	-0.000	0.000	-0.206
	4:(DL+LL)	-0.911	-3.627	-0.000	3.739	0.000	-0.000	0.175
	5:0.75(DL+LL+	0.114	0.493	0.000	0.506	-0.000	0.000	-0.023
118	1:(DEAD LOAI	-0.596	-0.040	0.000	0.598	0.000	-0.000	0.062
	2:(LIVE LOAD	-0.343	-0.025	0.000	0.344	0.000	-0.000	0.035
	3:(WIND LOAI	1.099	0.079	-0.000	1.101	-0.000	0.000	-0.114
	4:(DL+LL)	-0.940	-0.065	0.000	0.942	0.000	-0.000	0.067
	5:0.75(DL+LL+	0.119	0.010	-0.000	0.120	-0.000	0.000	-0.012
119	1:(DEAD LOAI	-0.596	1.450	0.000	1.568	0.000	-0.000	0.056
	2:(LIVE LOAD	-0.343	0.792	0.000	0.863	0.000	-0.000	0.031
	3:(WIND LOAI	1.099	-2.533	-0.000	2.761	-0.000	0.000	-0.098
	4:(DL+LL)	-0.940	2.242	0.000	2.431	0.000	-0.000	0.067
	5:0.75(DL+LL+	0.119	-0.218	-0.000	0.249	-0.000	0.000	-0.008
120	1:(DEAD LOAI	0.073	-2.296	-0.000	2.297	0.000	0.000	-0.107
	2:(LIVE LOAD	0.039	-1.343	-0.000	1.344	0.000	0.000	-0.062
	3:(WIND LOAI	-0.125	4.298	0.000	4.300	-0.000	-0.000	0.199
	4:(DL+LL)	0.112	-3.639	-0.000	3.641	0.000	0.000	-0.169
	5:0.75(DL+LL+	-0.010	0.494	0.000	0.494	-0.000	0.000	0.022
121	1:(DEAD LOAI	-0.309	-4.600	-0.000	4.610	0.000	-0.000	-0.096
	2:(LIVE LOAD	-0.179	-2.675	-0.000	2.681	0.000	-0.000	-0.054

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	3:(WIND LOAI	0.574	8.559	0.000	8.578	-0.000	0.000	0.165
	4:(DL+LL)	-0.489	-7.274	-0.000	7.291	0.000	-0.000	-0.141
	5:0.75(DL+LL+	0.064	0.964	0.000	0.966	0.000	0.000	0.018
122	1:(DEAD LOAI	-0.576	-6.387	-0.000	6.413	0.000	-0.000	-0.072
	2:(LIVE LOAD	-0.328	-3.690	0.000	3.704	0.000	-0.000	-0.041
	3:(WIND LOAI	1.048	11.808	-0.000	11.854	-0.000	0.000	0.130
	4:(DL+LL)	-0.904	-10.077	-0.000	10.118	0.000	-0.000	-0.113
	5:0.75(DL+LL+	0.108	1.298	-0.000	1.302	0.000	0.000	0.013
123	1:(DEAD LOAI	-0.728	-7.827	0.000	7.861	0.000	-0.000	-0.059
	2:(LIVE LOAD	-0.414	-4.502	0.000	4.521	-0.000	0.000	-0.034
	3:(WIND LOAI	1.324	14.408	-0.000	14.468	0.000	-0.000	0.108
	4:(DL+LL)	-1.142	-12.329	0.000	12.382	0.000	-0.000	-0.093
	5:0.75(DL+LL+	0.137	1.559	-0.000	1.565	0.000	0.000	0.011
124	1:(DEAD LOAI	-0.582	-8.050	0.000	9.068	0.000	0.000	-0.049
	2:(LIVE LOAD	-0.332	-5.205	0.000	5.215	-0.000	0.000	-0.028
	3:(WIND LOAI	1.062	16.655	-0.000	16.689	0.000	-0.000	0.089
	4:(DL+LL)	-0.914	-14.254	0.000	14.284	0.000	0.000	-0.077
	5:0.75(DL+LL+	0.111	1.801	-0.000	1.804	0.000	-0.000	0.010
125	1:(DEAD LOAI	-0.390	-9.989	-0.000	9.996	0.000	0.000	-0.032
	2:(LIVE LOAD	-0.221	-5.742	-0.000	5.746	0.000	0.000	-0.018
	3:(WIND LOAI	0.707	18.374	0.000	18.388	-0.000	-0.000	0.059
	4:(DL+LL)	-0.611	-15.731	-0.000	15.743	0.000	0.000	-0.051
	5:0.75(DL+LL+	0.073	1.983	0.000	1.984	-0.000	-0.000	0.006
126	1:(DEAD LOAI	-0.197	-10.485	-0.000	10.487	0.000	0.000	-0.016
	2:(LIVE LOAD	-0.110	-6.019	-0.000	6.020	0.000	0.000	-0.009
	3:(WIND LOAI	0.352	19.262	0.000	19.265	-0.000	-0.000	0.028
	4:(DL+LL)	-0.307	-16.504	-0.000	16.507	0.000	0.000	-0.024
	5:0.75(DL+LL+	0.034	2.068	0.000	2.069	-0.000	-0.000	0.003
127	1:(DEAD LOAI	-0.000	-10.686	-0.000	10.686	0.000	-0.000	-0.000
	2:(LIVE LOAD	-0.000	-6.125	-0.000	6.125	0.000	-0.000	-0.000
	3:(WIND LOAI	0.000	19.601	0.000	19.601	-0.000	0.000	0.000
	4:(DL+LL)	-0.000	-16.811	-0.000	16.811	0.000	-0.000	-0.000
	5:0.75(DL+LL+	0.000	2.092	0.000	2.092	-0.000	-0.000	0.000
128	1:(DEAD LOAI	0.197	-10.485	-0.000	10.487	0.000	-0.000	0.016
	2:(LIVE LOAD	0.110	-6.019	-0.000	6.020	0.000	-0.000	0.009
	3:(WIND LOAI	-0.352	19.262	0.000	19.265	-0.000	0.000	-0.028
	4:(DL+LL)	0.307	-16.504	-0.000	16.507	0.000	-0.000	0.024
	5:0.75(DL+LL+	-0.034	2.068	0.000	2.069	-0.000	0.000	-0.003
129	1:(DEAD LOAI	0.390	-8.989	-0.000	9.996	0.000	-0.000	0.032
	2:(LIVE LOAD	0.221	-5.742	-0.000	5.746	0.000	-0.000	0.018
	3:(WIND LOAI	-0.707	18.374	0.000	18.388	-0.000	0.000	-0.059
	4:(DL+LL)	0.611	-15.731	-0.000	15.743	0.000	-0.000	0.051
	5:0.75(DL+LL+	-0.073	1.983	0.000	1.984	-0.000	0.000	-0.006
130	1:(DEAD LOAI	0.582	-9.050	0.000	9.068	0.000	-0.000	0.049
	2:(LIVE LOAD	0.332	-5.205	0.000	5.215	-0.000	0.000	0.028
	3:(WIND LOAI	-1.062	16.655	-0.000	16.689	0.000	-0.000	-0.089
	4:(DL+LL)	0.914	-14.254	0.000	14.284	0.000	-0.000	0.077
	5:0.75(DL+LL+	-0.111	1.801	-0.000	1.804	0.000	0.000	-0.010
131	1:(DEAD LOAI	0.728	-7.827	0.000	7.861	0.000	-0.000	0.059
	2:(LIVE LOAD	0.414	-4.502	0.000	4.521	-0.000	0.000	0.034
	3:(WIND LOAI	-1.324	14.408	-0.000	14.468	0.000	-0.000	-0.108
	4:(DL+LL)	1.142	-12.329	0.000	12.382	0.000	0.000	0.093
	5:0.75(DL+LL+	-0.137	1.559	-0.000	1.565	0.000	-0.000	-0.011
132	1:(DEAD LOAI	0.576	-6.387	-0.000	6.413	0.000	0.000	0.072
	2:(LIVE LOAD	0.328	-3.690	0.000	3.704	0.000	0.000	0.041
	3:(WIND LOAI	-1.048	11.808	-0.000	11.854	-0.000	-0.000	-0.130
	4:(DL+LL)	0.904	-10.077	-0.000	10.118	0.000	0.000	0.113
	5:0.75(DL+LL+	-0.108	1.298	-0.000	1.302	0.000	-0.000	-0.013
133	1:(DEAD LOAI	0.309	-4.600	-0.000	4.610	0.000	0.000	0.050

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	2:[LIVE LOAD	0.179	-2.675	-0.000	2.681	0.000	0.000	0.052
	3:[WIND LOAI	-0.574	8.559	0.000	8.578	-0.000	-0.000	-0.165
	4:[DL+LL)	0.489	-7.274	-0.000	7.291	0.000	0.000	0.141
	5:0.75[DL+LL+	-0.064	0.964	0.000	0.966	0.000	-0.000	-0.018
134	1:[DEAD LOAI	-0.073	-2.296	-0.000	2.297	0.000	-0.000	0.107
	2:[LIVE LOAD	-0.039	-1.343	-0.000	1.344	0.000	-0.000	0.062
	3:[WIND LOAI	0.125	4.298	0.000	4.300	-0.000	0.000	-0.199
	4:[DL+LL)	-0.112	-3.639	-0.000	3.641	0.000	-0.000	0.169
	5:0.75[DL+LL+	0.010	0.494	0.000	0.494	-0.000	-0.000	-0.022
135	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.000	0.000	0.006
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	0.000	0.000	0.004
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.012
	4:[DL+LL)	0.000	0.000	0.000	0.000	0.000	0.000	0.010
	5:0.75[DL+LL+	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
136	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.000	-0.000	-0.006
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	0.000	-0.000	-0.004
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.000	0.000	0.012
	4:[DL+LL)	0.000	0.000	0.000	0.000	0.000	-0.000	-0.010
	5:0.75[DL+LL+	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
201	1:[DEAD LOAI	0.444	1.049	-0.058	1.141	0.000	-0.002	-0.041
	2:[LIVE LOAD	0.255	0.599	-0.033	0.615	-0.000	-0.001	-0.022
	3:[WIND LOAI	-0.816	-1.789	0.105	1.969	0.000	0.004	0.069
	4:[DL+LL)	0.699	1.608	-0.091	1.756	0.000	-0.003	-0.062
	5:0.75[DL+LL+	-0.088	-0.135	0.011	0.162	0.000	0.000	0.005
202	1:[DEAD LOAI	0.444	-0.035	-0.001	0.445	0.000	-0.002	-0.046
	2:[LIVE LOAD	0.255	-0.021	-0.000	0.256	-0.000	-0.001	-0.026
	3:[WIND LOAI	-0.816	0.068	0.001	0.819	0.000	0.004	0.065
	4:[DL+LL)	0.699	-0.056	-0.001	0.701	0.000	-0.003	-0.073
	5:0.75[DL+LL+	-0.088	0.009	-0.000	0.088	0.000	0.000	0.009
203	1:[DEAD LOAI	0.429	-1.741	-0.033	1.793	-0.026	0.004	-0.083
	2:[LIVE LOAD	0.246	-1.021	-0.019	1.050	-0.015	0.002	-0.049
	3:[WIND LOAI	-0.787	3.267	0.060	3.361	0.049	-0.007	0.156
	4:[DL+LL)	0.675	-2.762	-0.051	2.844	-0.041	0.006	-0.132
	5:0.75[DL+LL+	-0.084	0.379	0.006	0.388	0.005	-0.001	0.018
204	1:[DEAD LOAI	0.408	-3.471	-0.134	3.498	-0.037	0.005	-0.070
	2:[LIVE LOAD	0.233	-2.021	-0.077	2.035	-0.022	0.003	-0.040
	3:[WIND LOAI	-0.744	6.466	0.246	6.513	0.069	-0.009	0.128
	4:[DL+LL)	0.640	-5.492	-0.211	5.533	-0.059	0.008	-0.110
	5:0.75[DL+LL+	-0.078	0.730	0.027	0.735	0.008	-0.001	0.014
205	1:[DEAD LOAI	0.350	-4.791	-0.240	4.810	-0.043	0.004	-0.054
	2:[LIVE LOAD	0.199	-2.766	-0.138	2.777	-0.025	0.002	-0.030
	3:[WIND LOAI	-0.638	8.851	0.442	8.865	0.079	-0.008	0.097
	4:[DL+LL)	0.549	-7.557	-0.378	7.586	-0.067	0.007	-0.084
	5:0.75[DL+LL+	-0.066	0.971	0.048	0.974	0.009	-0.001	0.009
206	1:[DEAD LOAI	0.292	-5.852	-0.292	5.866	-0.047	-0.000	-0.045
	2:[LIVE LOAD	0.166	-3.359	-0.169	3.367	-0.027	-0.000	-0.025
	3:[WIND LOAI	-0.532	10.748	0.539	10.775	0.087	0.000	0.081
	4:[DL+LL)	0.459	-9.210	-0.461	9.233	-0.074	-0.000	-0.070
	5:0.75[DL+LL+	-0.055	1.153	0.059	1.156	0.010	0.000	0.008
207	1:[DEAD LOAI	0.224	-6.750	-0.309	6.761	-0.048	0.001	-0.037
	2:[LIVE LOAD	0.127	-3.976	-0.178	3.982	-0.028	0.001	-0.021
	3:[WIND LOAI	-0.407	12.404	0.569	12.423	0.089	-0.003	0.067
	4:[DL+LL)	0.351	-10.626	-0.487	10.643	-0.076	0.002	-0.058
	5:0.75[DL+LL+	-0.042	1.333	0.062	1.335	0.010	-0.000	0.007
208	1:[DEAD LOAI	0.155	-7.434	-0.342	7.443	-0.053	0.001	-0.024
	2:[LIVE LOAD	0.088	-4.266	-0.197	4.271	-0.031	0.001	-0.014
	3:[WIND LOAI	-0.282	13.651	0.630	13.669	0.099	-0.002	0.043
	4:[DL+LL)	0.243	-11.700	-0.539	11.715	-0.084	0.002	-0.038
	5:0.75[DL+LL+	-0.029	1.464	0.068	1.466	0.011	-0.000	0.004

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
209	1:[DEAD LOAI	0.077	-7.798	-0.378	7.808	-0.059	0.002	-0.011
	2:[LIVE LOAD	0.044	-4.470	-0.217	4.475	-0.034	0.001	-0.006
	3:[WIND LOAI	-0.141	14.303	0.695	14.320	0.109	-0.003	0.019
	4:[DL+LL)	0.121	-12.268	-0.595	12.283	-0.093	0.003	-0.017
	5:0.75[DL+LL+	-0.015	1.526	0.075	1.528	0.012	-0.000	0.001
210	1:[DEAD LOAI	-0.000	-7.921	-0.400	7.931	-0.064	0.000	-0.000
	2:[LIVE LOAD	-0.000	-4.531	-0.230	4.536	-0.037	0.000	-0.000
	3:[WIND LOAI	0.000	14.498	0.735	14.516	0.118	-0.000	0.000
	4:[DL+LL)	-0.000	-12.452	-0.630	12.468	-0.101	0.000	-0.000
	5:0.75[DL+LL+	0.000	1.534	0.079	1.536	0.013	-0.000	0.000
211	1:[DEAD LOAI	-0.077	-7.798	-0.378	7.808	-0.059	-0.002	0.011
	2:[LIVE LOAD	-0.044	-4.470	-0.217	4.475	-0.034	-0.001	0.006
	3:[WIND LOAI	0.141	14.303	0.695	14.320	0.109	0.003	-0.019
	4:[DL+LL)	-0.121	-12.268	-0.595	12.283	-0.093	-0.003	0.017
	5:0.75[DL+LL+	0.015	1.526	0.075	1.528	0.012	0.000	-0.001
212	1:[DEAD LOAI	-0.155	-7.434	-0.342	7.443	-0.053	-0.001	0.024
	2:[LIVE LOAD	-0.088	-4.266	-0.197	4.271	-0.031	-0.001	0.014
	3:[WIND LOAI	0.282	13.651	0.630	13.669	0.099	0.002	-0.043
	4:[DL+LL)	-0.243	-11.700	-0.539	11.715	-0.084	-0.002	0.036
	5:0.75[DL+LL+	0.029	1.464	0.068	1.466	0.011	0.000	-0.004
213	1:[DEAD LOAI	-0.224	-6.750	-0.309	6.761	-0.048	-0.001	0.037
	2:[LIVE LOAD	-0.127	-3.876	-0.178	3.882	-0.028	-0.001	0.021
	3:[WIND LOAI	0.407	12.404	0.569	12.423	0.089	0.003	-0.067
	4:[DL+LL)	-0.351	-10.626	-0.487	10.643	-0.076	-0.002	0.058
	5:0.75[DL+LL+	0.042	1.333	0.062	1.335	0.010	0.000	-0.007
214	1:[DEAD LOAI	-0.292	-5.852	-0.292	5.866	-0.047	0.000	0.045
	2:[LIVE LOAD	-0.166	-3.359	-0.169	3.367	-0.027	0.000	0.025
	3:[WIND LOAI	0.532	10.748	0.539	10.775	0.087	-0.000	-0.081
	4:[DL+LL)	-0.459	-9.210	-0.461	9.233	-0.074	0.000	0.070
	5:0.75[DL+LL+	0.055	1.153	0.059	1.156	0.010	-0.000	-0.008
215	1:[DEAD LOAI	-0.350	-4.791	-0.240	4.810	-0.043	-0.004	0.054
	2:[LIVE LOAD	-0.199	-2.766	-0.138	2.777	-0.025	-0.002	0.030
	3:[WIND LOAI	0.638	8.852	0.442	8.885	0.079	0.008	-0.097
	4:[DL+LL)	-0.549	-7.557	-0.378	7.586	-0.067	-0.007	0.084
	5:0.75[DL+LL+	0.066	0.971	0.048	0.974	0.009	0.001	-0.009
216	1:[DEAD LOAI	-0.408	-3.471	-0.134	3.498	-0.037	-0.005	0.070
	2:[LIVE LOAD	-0.233	-2.021	-0.077	2.035	-0.022	-0.003	0.040
	3:[WIND LOAI	0.744	6.466	0.246	6.513	0.069	0.009	-0.128
	4:[DL+LL)	-0.640	-5.492	-0.211	5.533	-0.059	-0.006	0.110
	5:0.75[DL+LL+	0.078	0.730	0.027	0.735	0.008	0.001	-0.014
217	1:[DEAD LOAI	-0.429	-1.741	-0.033	1.793	-0.026	-0.004	0.083
	2:[LIVE LOAD	-0.246	-1.021	-0.019	1.050	-0.015	-0.002	0.049
	3:[WIND LOAI	0.787	3.267	0.060	3.361	0.049	0.007	-0.156
	4:[DL+LL)	-0.675	-2.762	-0.051	2.844	-0.041	-0.006	0.132
	5:0.75[DL+LL+	0.084	0.379	0.006	0.388	0.005	0.001	-0.018
218	1:[DEAD LOAI	-0.444	-0.035	-0.001	0.445	0.000	0.002	0.046
	2:[LIVE LOAD	-0.255	-0.021	-0.000	0.256	-0.000	0.001	0.026
	3:[WIND LOAI	0.816	0.068	0.001	0.819	0.000	-0.004	-0.085
	4:[DL+LL)	-0.699	-0.056	-0.001	0.701	0.000	0.003	0.073
	5:0.75[DL+LL+	0.088	0.009	0.000	0.088	0.000	-0.000	-0.009
219	1:[DEAD LOAI	-0.444	1.049	-0.058	1.141	0.000	0.002	0.041
	2:[LIVE LOAD	-0.255	0.599	-0.033	0.615	-0.000	0.001	0.022
	3:[WIND LOAI	0.816	-1.789	0.105	1.969	0.000	-0.004	-0.069
	4:[DL+LL)	-0.699	1.606	-0.091	1.756	0.000	0.003	0.062
	5:0.75[DL+LL+	0.088	-0.135	0.011	0.162	0.000	-0.000	-0.005
220	1:[DEAD LOAI	0.049	-1.747	0.104	1.751	-0.026	0.001	-0.081
	2:[LIVE LOAD	0.025	-1.024	0.061	1.026	-0.015	0.001	-0.047
	3:[WIND LOAI	-0.081	3.278	-0.196	3.284	0.049	-0.002	0.150
	4:[DL+LL)	0.074	-2.771	0.166	2.777	-0.042	0.002	-0.127

KINGDOM OF THAILAND
CHOKCHAI KHATKHAJORN
โชคชัย ขัตขจร
สย. 4522
REGISTERED PROFESSIONAL ENGINEER

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	4:(DL+LL)	0.665	-7.543	0.602	7.596	-0.067	-0.003	0.082
	5:0.75(DL+LL+	-0.077	0.967	-0.080	0.973	0.009	0.000	-0.009
233	1:(DEAD LOAI	0.234	-3.472	0.232	3.487	-0.037	-0.001	0.067
	2:(LIVE LOAD	0.135	-2.020	0.135	2.029	-0.021	-0.001	0.038
	3:(WIND LOAI	-0.433	6.465	-0.434	6.494	0.068	0.002	-0.122
	4:(DL+LL)	0.369	-5.492	0.368	5.517	-0.058	-0.002	0.105
	5:0.75(DL+LL+	-0.048	0.730	-0.049	0.733	0.008	0.000	-0.013
234	1:(DEAD LOAI	-0.049	-1.747	0.104	1.751	-0.026	-0.001	0.081
	2:(LIVE LOAD	-0.025	-1.024	0.061	1.026	-0.015	-0.001	0.047
	3:(WIND LOAI	0.081	3.278	-0.196	3.284	0.049	0.002	-0.150
	4:(DL+LL)	-0.074	-2.771	0.166	2.777	-0.042	-0.002	0.127
	5:0.75(DL+LL+	0.005	0.380	-0.023	0.381	0.006	0.000	-0.017
235	1:(DEAD LOAI	0.000	0.000	0.000	0.000	-0.000	-0.002	0.005
	2:(LIVE LOAD	0.000	0.000	0.000	0.000	-0.000	-0.001	0.003
	3:(WIND LOAI	0.000	0.000	0.000	0.000	-0.000	0.004	-0.009
	4:(DL+LL)	0.000	0.000	0.000	0.000	-0.000	-0.003	0.008
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.000	0.000	-0.001
236	1:(DEAD LOAI	0.000	0.000	0.000	0.000	-0.000	0.002	-0.005
	2:(LIVE LOAD	0.000	0.000	0.000	0.000	-0.000	0.001	-0.003
	3:(WIND LOAI	0.000	0.000	0.000	0.000	-0.000	-0.004	0.009
	4:(DL+LL)	0.000	0.000	0.000	0.000	-0.000	0.003	-0.008
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.000	-0.000	0.001
301	1:(DEAD LOAI	0.005	-0.020	-0.011	0.023	-0.002	-0.000	0.001
	2:(LIVE LOAD	0.003	-0.014	-0.006	0.016	-0.000	-0.000	0.001
	3:(WIND LOAI	-0.011	0.045	0.019	0.050	0.000	0.001	-0.002
	4:(DL+LL)	0.008	-0.034	-0.017	0.039	-0.002	-0.001	0.001
	5:0.75(DL+LL+	-0.002	0.008	0.001	0.009	-0.001	0.000	-0.000
302	1:(DEAD LOAI	0.005	-0.010	-0.002	0.011	-0.002	-0.000	-0.002
	2:(LIVE LOAD	0.003	-0.006	-0.000	0.007	-0.000	-0.000	-0.002
	3:(WIND LOAI	-0.011	0.019	0.001	0.022	0.000	0.001	0.006
	4:(DL+LL)	0.008	-0.016	-0.002	0.018	-0.002	-0.001	-0.004
	5:0.75(DL+LL+	-0.002	0.002	-0.001	0.003	-0.001	0.000	0.001
303	1:(DEAD LOAI	0.002	-0.032	-0.457	0.458	-0.075	0.002	0.000
	2:(LIVE LOAD	0.002	-0.019	-0.261	0.262	-0.042	0.001	0.000
	3:(WIND LOAI	-0.006	0.060	0.836	0.838	0.135	-0.003	-0.000
	4:(DL+LL)	0.004	-0.061	-0.718	0.720	-0.117	0.003	0.000
	5:0.75(DL+LL+	-0.001	0.007	0.098	0.098	0.013	-0.000	-0.000
304	1:(DEAD LOAI	-0.000	-0.039	-0.621	0.622	-0.101	0.000	0.000
	2:(LIVE LOAD	-0.000	-0.022	-0.354	0.354	-0.057	0.000	0.000
	3:(WIND LOAI	0.000	0.071	1.132	1.134	0.181	-0.000	-0.000
	4:(DL+LL)	-0.000	-0.061	-0.975	0.977	-0.158	0.000	0.000
	5:0.75(DL+LL+	0.000	0.008	0.118	0.118	0.018	-0.000	-0.000
305	1:(DEAD LOAI	-0.002	-0.032	-0.457	0.458	-0.075	-0.002	-0.000
	2:(LIVE LOAD	-0.002	-0.019	-0.261	0.262	-0.042	-0.001	-0.000
	3:(WIND LOAI	0.006	0.060	0.836	0.838	0.135	0.003	0.000
	4:(DL+LL)	-0.004	-0.051	-0.718	0.720	-0.117	-0.003	-0.000
	5:0.75(DL+LL+	0.001	0.007	0.098	0.098	0.013	0.000	0.000
306	1:(DEAD LOAI	-0.005	-0.010	-0.002	0.011	-0.002	0.000	0.002
	2:(LIVE LOAD	-0.003	-0.006	-0.000	0.007	-0.000	0.000	0.002
	3:(WIND LOAI	0.011	0.019	0.001	0.022	0.000	-0.001	-0.006
	4:(DL+LL)	-0.006	-0.016	-0.002	0.018	-0.002	0.001	0.004
	5:0.75(DL+LL+	0.002	0.002	-0.001	0.003	-0.001	-0.000	-0.001
307	1:(DEAD LOAI	-0.005	-0.020	-0.011	0.023	-0.002	0.000	-0.001
	2:(LIVE LOAD	-0.003	-0.014	-0.006	0.016	-0.000	0.000	-0.001
	3:(WIND LOAI	0.011	0.045	0.019	0.050	0.000	-0.001	0.002
	4:(DL+LL)	-0.008	-0.034	-0.017	0.039	-0.002	0.001	-0.001
	5:0.75(DL+LL+	0.002	0.008	0.001	0.009	-0.001	-0.000	0.000
308	1:(DEAD LOAI	0.000	0.000	0.000	0.000	0.000	-0.000	0.001
	2:(LIVE LOAD	0.000	0.000	0.000	0.000	0.000	-0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	5:0.75(DL+LL+	-0.005	0.380	-0.023	0.381	0.006	-0.000	0.017
221	1:(DEAD LOAI	-0.234	-3.472	0.232	3.487	-0.037	0.001	-0.067
	2:(LIVE LOAD	-0.135	-2.020	0.135	2.029	-0.021	0.001	-0.038
	3:(WIND LOAI	0.433	6.465	-0.434	6.494	0.068	-0.002	0.122
	4:(DL+LL)	-0.369	-5.492	0.368	5.517	-0.058	0.002	-0.105
	5:0.75(DL+LL+	0.048	0.730	-0.049	0.733	0.008	-0.000	0.013
222	1:(DEAD LOAI	-0.425	-4.783	0.381	4.817	-0.043	0.002	-0.052
	2:(LIVE LOAD	-0.240	-2.760	0.222	2.779	-0.025	0.001	-0.029
	3:(WIND LOAI	0.768	8.832	-0.709	8.894	0.079	-0.004	0.094
	4:(DL+LL)	-0.665	-7.543	0.602	7.596	-0.067	0.003	-0.082
	5:0.75(DL+LL+	0.077	0.967	-0.080	0.973	0.009	-0.000	0.009
223	1:(DEAD LOAI	-0.532	-5.808	0.572	5.860	-0.046	-0.000	-0.044
	2:(LIVE LOAD	-0.301	-3.333	0.332	3.363	-0.026	-0.000	-0.025
	3:(WIND LOAI	0.963	10.666	-1.063	10.762	0.085	0.000	0.079
	4:(DL+LL)	-0.833	-9.141	0.904	9.224	-0.072	-0.000	-0.068
	5:0.75(DL+LL+	0.097	1.144	-0.119	1.154	0.009	-0.000	0.008
224	1:(DEAD LOAI	-0.428	-6.740	0.613	6.782	-0.048	-0.002	-0.036
	2:(LIVE LOAD	-0.243	-3.869	0.356	3.893	-0.028	-0.001	-0.021
	3:(WIND LOAI	0.778	12.381	-1.138	12.458	0.088	0.004	0.067
	4:(DL+LL)	-0.671	-10.609	0.969	10.675	-0.075	-0.003	-0.057
	5:0.75(DL+LL+	0.081	1.329	-0.127	1.337	0.010	0.000	0.007
225	1:(DEAD LOAI	-0.284	-7.434	0.684	7.471	-0.053	-0.004	-0.024
	2:(LIVE LOAD	-0.161	-4.266	0.396	4.287	-0.031	-0.002	-0.013
	3:(WIND LOAI	0.514	13.650	-1.267	13.718	0.099	0.007	0.043
	4:(DL+LL)	-0.445	-11.699	1.080	11.758	-0.084	-0.006	-0.037
	5:0.75(DL+LL+	0.052	1.463	-0.140	1.471	0.011	0.001	0.004
226	1:(DEAD LOAI	-0.141	-7.788	0.753	7.826	-0.059	-0.002	-0.011
	2:(LIVE LOAD	-0.078	-4.462	0.435	4.484	-0.034	-0.001	-0.006
	3:(WIND LOAI	0.249	14.278	-1.393	14.348	0.109	0.003	0.018
	4:(DL+LL)	-0.218	-12.249	1.189	12.309	-0.093	-0.003	-0.016
	5:0.75(DL+LL+	0.023	1.522	-0.153	1.529	0.012	0.000	0.002
227	1:(DEAD LOAI	-0.000	-7.887	0.783	7.926	-0.063	0.000	-0.000
	2:(LIVE LOAD	-0.000	-4.510	0.452	4.532	-0.036	0.000	-0.000
	3:(WIND LOAI	0.000	14.431	-1.446	14.503	0.115	-0.000	0.000
	4:(DL+LL)	-0.000	-12.396	1.236	12.458	-0.099	0.000	-0.000
	5:0.75(DL+LL+	0.000	1.526	-0.159	1.534	0.013	-0.000	0.000
228	1:(DEAD LOAI	0.141	-7.788	0.753	7.825	-0.059	0.002	0.011
	2:(LIVE LOAD	0.078	-4.462	0.435	4.484	-0.034	0.001	0.006
	3:(WIND LOAI	-0.249	14.278	-1.393	14.348	0.109	-0.003	-0.018
	4:(DL+LL)	0.218	-12.249	1.189	12.308	-0.093	0.003	0.016
	5:0.75(DL+LL+	-0.023	1.522	-0.153	1.529	0.012	-0.000	-0.002
229	1:(DEAD LOAI	0.284	-7.434	0.684	7.471	-0.053	0.004	0.024
	2:(LIVE LOAD	0.161	-4.266	0.396	4.287	-0.031	0.002	0.013
	3:(WIND LOAI	-0.514	13.650	-1.267	13.718	0.099	-0.007	-0.043
	4:(DL+LL)	0.445	-11.699	1.080	11.758	-0.084	0.006	0.037
	5:0.75(DL+LL+	-0.052	1.463	-0.140	1.471	0.011	-0.001	-0.004
230	1:(DEAD LOAI	0.428	-6.740	0.613	6.782	-0.048	0.002	0.036
	2:(LIVE LOAD	0.243	-3.869	0.356	3.893	-0.028	0.001	0.021
	3:(WIND LOAI	-0.778	12.381	-1.138	12.458	0.088	-0.004	-0.067
	4:(DL+LL)	0.671	-10.609	0.969	10.675	-0.075	0.003	0.057
	5:0.75(DL+LL+	-0.081	1.329	-0.127	1.337	0.010	-0.000	-0.007
231	1:(DEAD LOAI	0.532	-5.808	0.572	5.860	-0.046	0.000	0.044
	2:(LIVE LOAD	0.301	-3.333	0.332	3.363	-0.026	0.000	0.025
	3:(WIND LOAI	-0.963	10.666	-1.063	10.762	0.085	-0.000	-0.079
	4:(DL+LL)	0.833	-9.141	0.904	9.224	-0.072	0.000	0.069
	5:0.75(DL+LL+	-0.097	1.144	-0.119	1.154	0.009	0.000	-0.008
232	1:(DEAD LOAI	0.425	-4.783	0.381	4.817	-0.043	-0.002	0.052
	2:(LIVE LOAD	0.240	-2.760	0.222	2.779	-0.025	-0.001	0.029
	3:(WIND LOAI	-0.768	8.832	-0.709	8.894	0.079	0.004	-0.094

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	4:(DL+LL)	0.000	0.000	0.000	0.000	-0.001	0.001	0.002
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
409	1:[DEAD LOAI	0.000	0.000	0.000	0.000	-0.021	-0.002	-0.000
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	-0.012	-0.001	-0.000
	3:[WIND LOAI	0.000	0.000	0.000	0.000	0.037	0.003	0.000
	4:(DL+LL)	0.000	0.000	0.000	0.000	-0.032	-0.003	-0.000
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	0.003	0.000	0.000
410	1:[DEAD LOAI	0.000	0.000	0.000	0.000	-0.028	-0.000	0.000
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.015	-0.000	0.000
	4:(DL+LL)	0.000	0.000	0.000	0.000	0.050	0.000	-0.000
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.043	-0.000	0.000
411	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.005	0.000	-0.000
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	-0.021	0.002	0.000
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.012	0.001	0.000
	4:(DL+LL)	0.000	0.000	0.000	0.000	0.037	-0.003	-0.000
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.032	0.003	0.000
412	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.003	-0.000	-0.000
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	3:[WIND LOAI	0.000	0.000	0.000	0.000	0.000	0.001	0.002
	4:(DL+LL)	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.002
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
501	1:[DEAD LOAI	0.238	-4.795	0.351	4.814	0.058	0.005	-0.041
	2:[LIVE LOAD	0.136	-2.740	0.202	2.751	0.034	0.003	-0.023
	3:[WIND LOAI	-0.434	8.768	-0.647	8.803	-0.109	-0.008	0.074
	4:(DL+LL)	0.374	-7.535	0.553	7.565	0.092	0.007	-0.064
	5:0.75(DL+LL+	-0.045	0.925	-0.070	0.929	-0.012	-0.001	0.007
502	1:[DEAD LOAI	0.136	-3.507	0.410	3.534	0.073	0.005	-0.035
	2:[LIVE LOAD	0.078	-1.991	0.236	2.006	0.042	0.003	-0.020
	3:[WIND LOAI	-0.248	6.371	-0.754	6.420	-0.135	-0.009	0.064
	4:(DL+LL)	0.214	-5.498	0.645	5.540	0.116	0.008	-0.055
	5:0.75(DL+LL+	-0.026	0.654	-0.082	0.660	-0.015	-0.001	0.006
503	1:[DEAD LOAI	0.039	-1.847	0.436	1.898	0.089	0.004	-0.025
	2:[LIVE LOAD	0.022	-1.041	0.250	1.070	0.050	0.002	-0.014
	3:[WIND LOAI	-0.071	3.330	-0.799	3.425	-0.161	-0.008	0.045
	4:(DL+LL)	0.061	-2.897	0.685	2.968	0.139	0.006	-0.039
	5:0.75(DL+LL+	-0.008	0.332	-0.085	0.343	-0.017	-0.001	0.005
504	1:[DEAD LOAI	0.312	-6.678	0.224	6.689	0.037	0.002	-0.046
	2:[LIVE LOAD	0.178	-3.831	0.129	3.837	0.021	0.001	-0.026
	3:[WIND LOAI	-0.569	12.259	-0.413	12.279	-0.067	-0.003	0.083
	4:(DL+LL)	0.490	-10.509	0.353	10.527	0.058	0.002	-0.072
	5:0.75(DL+LL+	-0.059	1.312	-0.045	1.314	-0.007	-0.000	0.009
505	1:[DEAD LOAI	0.345	-7.324	0.155	7.334	0.025	0.001	-0.051
	2:[LIVE LOAD	0.196	-4.202	0.089	4.207	0.015	0.001	-0.029
	3:[WIND LOAI	-0.628	13.445	-0.286	13.463	-0.047	-0.003	0.093
	4:(DL+LL)	0.541	-11.525	0.245	11.541	0.040	0.002	-0.080
	5:0.75(DL+LL+	-0.065	1.440	-0.031	1.442	-0.005	-0.000	0.010
506	1:[DEAD LOAI	0.378	-7.693	0.078	7.703	0.013	0.002	-0.056
	2:[LIVE LOAD	0.215	-4.418	0.045	4.424	0.008	0.001	-0.032
	3:[WIND LOAI	-0.690	14.139	-0.143	14.156	-0.026	-0.003	0.102
	4:(DL+LL)	0.593	-12.111	0.122	12.126	0.021	0.003	-0.088
	5:0.75(DL+LL+	-0.072	1.521	-0.016	1.522	-0.003	-0.000	0.011
507	1:[DEAD LOAI	0.378	-7.693	-0.078	7.703	-0.013	-0.002	-0.056
	2:[LIVE LOAD	0.215	-4.418	-0.045	4.424	-0.008	-0.001	-0.032
	3:[WIND LOAI	-0.690	14.139	0.143	14.156	0.026	0.003	0.102
	4:(DL+LL)	0.593	-12.111	-0.122	12.126	-0.021	-0.003	-0.088
	5:0.75(DL+LL+	-0.072	1.521	0.016	1.522	0.003	0.000	0.011

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.000	0.001	-0.002
	4:(DL+LL)	0.000	0.000	0.000	0.000	-0.001	0.001	0.002
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	0.001	0.000	-0.000
309	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.021	0.002	-0.000
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	0.012	0.001	-0.000
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.037	-0.003	0.000
	4:(DL+LL)	0.000	0.000	0.000	0.000	0.032	0.003	-0.000
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.028	-0.000	0.000
310	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.028	0.000	0.000
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	0.015	0.000	0.000
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.050	-0.000	-0.000
	4:(DL+LL)	0.000	0.000	0.000	0.000	0.043	0.000	0.000
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.005	-0.000	-0.000
311	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.021	-0.002	0.000
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	0.012	-0.001	0.000
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.037	0.003	-0.000
	4:(DL+LL)	0.000	0.000	0.000	0.000	0.032	-0.003	0.000
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	-0.003	0.000	-0.000
312	1:[DEAD LOAI	0.000	0.000	0.000	0.000	0.001	0.000	-0.001
	2:[LIVE LOAD	0.000	0.000	0.000	0.000	0.000	0.000	-0.001
	3:[WIND LOAI	0.000	0.000	0.000	0.000	-0.000	-0.001	0.002
	4:(DL+LL)	0.000	0.000	0.000	0.000	0.001	0.001	-0.002
	5:0.75(DL+LL+	0.000	0.000	0.000	0.000	0.001	-0.000	0.000
401	1:[DEAD LOAI	0.005	-0.020	0.011	0.023	0.002	0.000	0.001
	2:[LIVE LOAD	0.003	-0.014	0.006	0.016	0.000	0.000	0.001
	3:[WIND LOAI	-0.011	0.045	-0.019	0.050	-0.000	-0.001	-0.002
	4:(DL+LL)	0.008	-0.034	0.017	0.039	0.002	0.001	0.001
	5:0.75(DL+LL+	-0.002	0.008	-0.001	0.009	0.001	0.000	-0.000
402	1:[DEAD LOAI	0.005	-0.010	0.002	0.011	0.002	0.000	-0.002
	2:[LIVE LOAD	0.003	-0.006	0.000	0.007	0.000	0.000	-0.002
	3:[WIND LOAI	-0.011	0.019	-0.001	0.022	-0.000	-0.001	0.006
	4:(DL+LL)	0.008	-0.016	0.002	0.018	0.002	0.001	-0.004
	5:0.75(DL+LL+	-0.002	0.002	0.001	0.003	0.001	-0.000	0.001
403	1:[DEAD LOAI	0.002	-0.032	0.457	0.458	0.075	-0.002	0.000
	2:[LIVE LOAD	0.002	-0.019	0.261	0.262	0.042	-0.001	0.000
	3:[WIND LOAI	-0.006	0.060	-0.836	0.838	-0.135	0.003	-0.000
	4:(DL+LL)	0.004	-0.051	0.718	0.720	0.117	-0.003	0.000
	5:0.75(DL+LL+	-0.001	0.007	-0.098	0.098	-0.013	0.000	-0.000
404	1:[DEAD LOAI	-0.000	-0.039	0.621	0.622	0.101	-0.000	0.000
	2:[LIVE LOAD	-0.000	-0.022	0.354	0.354	0.057	-0.000	0.000
	3:[WIND LOAI	0.000	0.071	-1.132	1.134	-0.181	0.000	-0.000
	4:(DL+LL)	-0.000	-0.061	0.975	0.977	0.158	-0.000	0.000
	5:0.75(DL+LL+	0.000	0.008	-0.118	0.118	-0.018	0.000	-0.000
405	1:[DEAD LOAI	-0.002	-0.032	0.457	0.458	0.075	0.002	-0.000
	2:[LIVE LOAD	-0.002	-0.019	0.261	0.262	0.042	0.001	-0.000
	3:[WIND LOAI	0.006	0.060	-0.836	0.838	-0.135	-0.003	0.000
	4:(DL+LL)	-0.004	-0.051	0.718	0.720	0.117	0.003	-0.000
	5:0.75(DL+LL+	0.001	0.007	-0.098	0.098	-0.013	-0.000	0.000
406	1:[DEAD LOAI	-0.005	-0.010	0.002	0.011	0.002	-0.000	0.002
	2:[LIVE LOAD	-0.003	-0.006	0.000	0.007	0.000	-0.000	0.002
	3:[WIND LOAI	0.011	0.019	-0.001	0.022	-0.000	0.001	-0.006
	4:(DL+LL)	-0.008	-0.016	0.002	0.018	0.002	-0.001	0.004
	5:0.75(DL+LL+	0.002	0.002	0.001	0.003	0.001	0.000	-0.001
407	1:[DEAD LOAI	-0.005	-0.020	0.011	0.023	0.002	-0.000	-0.001
	2:[LIVE LOAD	-0.003	-0.014	0.006	0.016	0.000	-0.000	-0.001
	3:[WIND LOAI	0.011	0.045	-0.019	0.050	-0.000	0.001	0.002
	4:(DL+LL)	-0.008	-0.034	0.017	0.039	0.002	-0.001	-0.001
	5:0.75(DL+LL+	0.002	0.008	-0.001	0.009	0.001	0.000	0.000
408	1:[DEAD LOAI	0.000	0.000	0.000	0.000	-0.001	0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
508	1:[DEAD LOAI	0.345	-7.324	-0.156	7.334	-0.025	-0.001	-0.051
	2:[LIVE LOAD	0.196	-4.202	-0.089	4.207	-0.015	-0.001	-0.029
	3:[WIND LOAI	-0.628	13.445	0.286	13.463	0.047	0.003	0.093
	4:[DL+LL)	0.541	-11.525	-0.245	11.541	-0.040	-0.002	-0.080
	5:0.75[DL+LL+	-0.065	1.440	0.031	1.442	0.005	0.000	0.010
509	1:[DEAD LOAI	0.312	-6.678	-0.224	6.689	-0.037	-0.002	-0.046
	2:[LIVE LOAD	0.178	-3.831	-0.129	3.837	-0.021	-0.001	-0.026
	3:[WIND LOAI	-0.569	12.259	0.413	12.279	0.067	0.003	0.083
	4:[DL+LL)	0.490	-10.509	-0.353	10.527	-0.058	-0.002	-0.072
	5:0.75[DL+LL+	-0.059	1.312	0.045	1.314	0.007	0.000	0.009
510	1:[DEAD LOAI	0.238	-4.795	-0.351	4.814	-0.058	-0.005	-0.041
	2:[LIVE LOAD	0.136	-2.740	-0.202	2.751	-0.034	-0.003	-0.023
	3:[WIND LOAI	-0.434	8.768	0.647	8.803	0.109	0.008	0.074
	4:[DL+LL)	0.374	-7.535	-0.553	7.565	-0.092	-0.007	-0.064
	5:0.75[DL+LL+	-0.045	0.925	0.070	0.929	0.012	0.001	0.007
511	1:[DEAD LOAI	0.136	-3.507	-0.410	3.524	-0.073	-0.005	-0.035
	2:[LIVE LOAD	0.078	-1.991	-0.236	2.006	-0.042	-0.003	-0.020
	3:[WIND LOAI	-0.248	6.371	0.754	6.420	0.135	0.009	0.064
	4:[DL+LL)	0.214	-5.498	-0.645	5.540	-0.116	-0.008	-0.055
	5:0.75[DL+LL+	-0.026	0.654	0.082	0.660	0.015	0.001	0.006
512	1:[DEAD LOAI	0.039	-1.847	-0.436	1.898	-0.089	-0.004	-0.025
	2:[LIVE LOAD	0.022	-1.041	-0.250	1.070	-0.050	-0.002	-0.014
	3:[WIND LOAI	-0.071	3.330	0.799	3.425	0.161	0.008	0.045
	4:[DL+LL)	0.061	-2.887	-0.685	2.968	-0.139	-0.006	-0.039
	5:0.75[DL+LL+	-0.008	0.332	0.085	0.343	0.017	0.001	0.005
513	1:[DEAD LOAI	-0.352	-4.790	-0.467	4.825	0.056	0.002	-0.041
	2:[LIVE LOAD	-0.199	-2.738	-0.272	2.758	0.033	0.001	-0.023
	3:[WIND LOAI	0.636	8.760	0.870	8.826	-0.104	-0.004	0.073
	4:[DL+LL)	-0.550	-7.527	-0.739	7.583	0.088	0.003	-0.064
	5:0.75[DL+LL+	0.064	0.925	0.098	0.932	-0.012	-0.000	0.007
514	1:[DEAD LOAI	-0.211	-3.507	-0.266	3.524	0.071	0.001	-0.035
	2:[LIVE LOAD	-0.119	-1.991	-0.152	2.000	0.041	0.001	-0.020
	3:[WIND LOAI	0.381	6.370	0.487	6.400	-0.131	-0.002	0.064
	4:[DL+LL)	-0.331	-5.498	-0.418	5.524	0.112	0.002	-0.055
	5:0.75[DL+LL+	0.038	0.654	0.052	0.657	-0.014	-0.000	0.006
515	1:[DEAD LOAI	-0.091	-1.852	0.023	1.855	0.066	0.001	-0.025
	2:[LIVE LOAD	-0.051	-1.044	0.015	1.045	0.049	0.001	-0.014
	3:[WIND LOAI	0.164	3.340	-0.049	3.344	-0.156	-0.002	0.045
	4:[DL+LL)	-0.143	-2.896	0.038	2.900	0.134	0.002	-0.039
	5:0.75[DL+LL+	0.016	0.333	-0.007	0.333	-0.016	-0.000	0.005
516	1:[DEAD LOAI	-0.569	-6.672	-0.450	6.711	0.037	-0.002	-0.046
	2:[LIVE LOAD	-0.322	-3.827	-0.260	3.859	0.021	-0.001	-0.026
	3:[WIND LOAI	1.031	12.247	0.831	12.319	-0.068	0.004	0.083
	4:[DL+LL)	-0.891	-10.499	-0.710	10.561	0.059	-0.003	-0.072
	5:0.75[DL+LL+	0.105	1.311	0.091	1.319	-0.007	0.000	0.008
517	1:[DEAD LOAI	-0.634	-7.324	-0.304	7.358	0.025	-0.004	-0.051
	2:[LIVE LOAD	-0.360	-4.201	-0.177	4.220	0.014	-0.002	-0.029
	3:[WIND LOAI	1.151	13.444	0.565	13.505	-0.046	0.007	0.093
	4:[DL+LL)	-0.994	-11.525	-0.481	11.578	0.040	-0.006	-0.080
	5:0.75[DL+LL+	0.118	1.439	0.063	1.445	-0.005	0.001	0.010
518	1:[DEAD LOAI	-0.699	-7.685	-0.158	7.718	0.013	-0.002	-0.056
	2:[LIVE LOAD	-0.397	-4.414	-0.093	4.433	0.008	-0.001	-0.032
	3:[WIND LOAI	1.271	14.125	0.298	14.185	-0.024	0.004	0.102
	4:[DL+LL)	-1.097	-12.099	-0.252	12.151	0.020	-0.003	-0.088
	5:0.75[DL+LL+	0.131	1.519	0.035	1.525	-0.003	0.000	0.012
519	1:[DEAD LOAI	-0.699	-7.685	0.158	7.718	-0.013	0.002	-0.056
	2:[LIVE LOAD	-0.397	-4.414	0.093	4.433	-0.008	0.001	-0.032
	3:[WIND LOAI	1.271	14.125	-0.298	14.185	0.024	-0.004	0.102
	4:[DL+LL)	-1.097	-12.099	0.252	12.151	-0.020	0.003	-0.088

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	5:0.75[DL+LL+	0.131	1.519	-0.035	1.525	0.003	-0.000	0.011
520	1:[DEAD LOAI	-0.634	-7.324	0.304	7.358	-0.025	0.004	-0.051
	2:[LIVE LOAD	-0.360	-4.201	0.177	4.220	-0.014	0.002	-0.029
	3:[WIND LOAI	1.151	13.444	-0.565	13.505	0.046	-0.007	0.093
	4:[DL+LL)	-0.964	-11.525	0.481	11.578	-0.040	0.006	-0.080
	5:0.75[DL+LL+	0.118	1.439	-0.063	1.445	0.005	-0.001	0.010
521	1:[DEAD LOAI	-0.569	-6.672	0.450	6.711	-0.037	0.002	-0.046
	2:[LIVE LOAD	-0.322	-3.827	0.260	3.850	-0.021	0.001	-0.026
	3:[WIND LOAI	1.031	12.247	-0.831	12.319	0.068	-0.004	0.083
	4:[DL+LL)	-0.891	-10.499	0.710	10.561	-0.059	0.003	-0.072
	5:0.75[DL+LL+	0.105	1.311	-0.091	1.319	0.007	-0.000	0.008
522	1:[DEAD LOAI	-0.352	-4.790	0.467	4.825	-0.056	-0.002	-0.041
	2:[LIVE LOAD	-0.199	-2.738	0.272	2.758	-0.033	-0.001	-0.023
	3:[WIND LOAI	0.636	8.760	-0.870	8.826	0.104	0.004	0.073
	4:[DL+LL)	-0.550	-7.527	0.739	7.583	-0.088	-0.003	-0.064
	5:0.75[DL+LL+	0.064	0.925	-0.098	0.932	0.012	0.000	0.007
523	1:[DEAD LOAI	-0.211	-3.507	0.266	3.524	-0.071	-0.001	-0.035
	2:[LIVE LOAD	-0.119	-1.991	0.152	2.000	-0.041	-0.001	-0.020
	3:[WIND LOAI	0.381	6.370	-0.497	6.400	0.131	0.002	0.064
	4:[DL+LL)	-0.331	-5.498	0.418	5.524	-0.112	-0.002	-0.055
	5:0.75[DL+LL+	0.038	0.654	-0.052	0.657	0.014	0.000	0.006
524	1:[DEAD LOAI	-0.091	-1.852	-0.023	1.855	-0.096	-0.001	-0.025
	2:[LIVE LOAD	-0.051	-1.044	-0.015	1.045	-0.049	-0.001	-0.014
	3:[WIND LOAI	0.164	3.340	0.048	3.344	0.156	0.002	0.045
	4:[DL+LL)	-0.143	-2.896	-0.038	2.900	-0.134	-0.002	-0.039
	5:0.75[DL+LL+	0.016	0.333	0.007	0.333	0.016	0.000	0.005
601	1:[DEAD LOAI	-0.000	-6.479	0.479	6.496	0.079	-0.000	-0.000
	2:[LIVE LOAD	-0.000	-3.693	0.275	3.703	0.046	-0.000	-0.000
	3:[WIND LOAI	0.000	11.817	-0.879	11.849	-0.147	0.000	0.000
	4:[DL+LL)	-0.000	-10.171	0.754	10.199	0.125	-0.000	-0.000
	5:0.75[DL+LL+	0.000	1.234	-0.094	1.238	-0.016	0.000	0.000
602	1:[DEAD LOAI	-0.000	-4.727	0.558	4.759	0.099	-0.000	-0.000
	2:[LIVE LOAD	-0.000	-2.680	0.320	2.699	0.057	-0.000	-0.000
	3:[WIND LOAI	0.000	8.576	-1.023	8.637	-0.183	0.000	0.000
	4:[DL+LL)	-0.000	-7.407	0.878	7.459	0.156	-0.000	-0.000
	5:0.75[DL+LL+	0.000	0.877	-0.109	0.884	-0.020	0.000	0.000
603	1:[DEAD LOAI	-0.000	-2.480	0.592	2.550	0.120	-0.000	-0.000
	2:[LIVE LOAD	-0.000	-1.399	0.338	1.439	0.068	-0.000	-0.000
	3:[WIND LOAI	0.000	4.476	-1.083	4.605	-0.218	0.000	0.000
	4:[DL+LL)	-0.000	-3.879	0.931	3.999	0.188	-0.000	-0.000
	5:0.75[DL+LL+	0.000	0.447	-0.114	0.462	-0.022	0.000	0.000
604	1:[DEAD LOAI	-0.000	-9.055	0.307	9.060	0.051	-0.000	-0.000
	2:[LIVE LOAD	-0.000	-5.177	0.176	5.180	0.029	-0.000	-0.000
	3:[WIND LOAI	0.000	16.568	-0.564	16.577	-0.092	0.000	0.000
	4:[DL+LL)	-0.000	-14.232	0.483	14.240	0.079	-0.000	-0.000
	5:0.75[DL+LL+	0.000	1.752	-0.061	1.753	-0.010	0.000	0.000
605	1:[DEAD LOAI	-0.000	-9.944	0.214	9.946	0.035	-0.000	-0.000
	2:[LIVE LOAD	-0.000	-5.688	0.123	5.689	0.020	-0.000	-0.000
	3:[WIND LOAI	0.000	18.200	-0.383	18.204	-0.065	0.000	0.000
	4:[DL+LL)	-0.000	-15.631	0.336	15.635	0.055	-0.000	-0.000
	5:0.75[DL+LL+	0.000	1.927	-0.042	1.927	-0.007	0.000	0.000
606	1:[DEAD LOAI	-0.000	-10.459	0.107	10.460	0.019	-0.000	-0.000
	2:[LIVE LOAD	-0.000	-5.988	0.061	5.989	0.011	-0.000	-0.000
	3:[WIND LOAI	0.000	19.162	-0.196	19.163	-0.036	0.000	0.000
	4:[DL+LL)	-0.000	-16.447	0.168	16.448	0.030	-0.000	-0.000
	5:0.75[DL+LL+	0.000	2.036	-0.021	2.036	-0.004	0.000	0.000
607	1:[DEAD LOAI	-0.000	-10.459	0.107	10.460	-0.019	0.000	-0.000
	2:[LIVE LOAD	-0.000	-5.988	0.061	5.989	-0.011	0.000	-0.000
	3:[WIND LOAI	0.000	19.162	-0.196	19.163	0.036	-0.000	0.000

KINGDOM OF THAILAND
CHOKCHAI KHATKHAJORN
โชคชัย ขัตขจร
สย. 4522
REGISTERED PROFESSIONAL ENGINEER

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	4:(DL+LL)	-0.000	-16.447	-0.168	16.448	-0.030	0.000	-0.000
	5:0.75(DL+LL+	0.000	2.036	0.021	2.036	0.004	-0.000	0.000
608	1:(DEAD LOAI	-0.000	-9.944	-0.214	9.946	-0.035	0.000	-0.000
	2:(LIVE LOAD	-0.000	-5.688	-0.123	5.689	-0.020	0.000	-0.000
	3:(WIND LOAI	0.000	18.200	0.393	18.204	0.065	-0.000	0.000
	4:(DL+LL)	-0.000	-15.631	-0.336	15.635	-0.055	0.000	-0.000
	5:0.75(DL+LL+	0.000	1.927	0.042	1.927	0.007	-0.000	0.000
609	1:(DEAD LOAI	-0.000	-9.055	-0.307	9.060	-0.051	0.000	-0.000
	2:(LIVE LOAD	-0.000	-5.177	-0.176	5.180	-0.029	0.000	-0.000
	3:(WIND LOAI	0.000	16.568	0.564	16.577	0.092	-0.000	0.000
	4:(DL+LL)	-0.000	-14.232	-0.483	14.240	-0.079	0.000	-0.000
	5:0.75(DL+LL+	0.000	1.752	0.061	1.753	0.010	-0.000	0.000
610	1:(DEAD LOAI	-0.000	-6.479	-0.479	6.496	-0.079	0.000	-0.000
	2:(LIVE LOAD	-0.000	-3.693	-0.275	3.703	-0.046	0.000	-0.000
	3:(WIND LOAI	0.000	11.817	0.879	11.849	0.147	-0.000	0.000
	4:(DL+LL)	-0.000	-10.171	-0.754	10.199	-0.125	0.000	-0.000
	5:0.75(DL+LL+	0.000	1.234	0.094	1.238	0.016	-0.000	0.000
611	1:(DEAD LOAI	-0.000	-4.727	-0.558	4.759	-0.099	0.000	-0.000
	2:(LIVE LOAD	-0.000	-2.680	-0.320	2.699	-0.057	0.000	-0.000
	3:(WIND LOAI	0.000	8.576	1.023	8.637	0.183	-0.000	0.000
	4:(DL+LL)	-0.000	-7.407	-0.878	7.459	-0.156	0.000	-0.000
	5:0.75(DL+LL+	0.000	0.877	0.109	0.884	0.020	-0.000	0.000
612	1:(DEAD LOAI	-0.000	-2.480	-0.592	2.550	-0.120	0.000	-0.000
	2:(LIVE LOAD	-0.000	-1.399	-0.338	1.439	-0.068	0.000	-0.000
	3:(WIND LOAI	0.000	4.476	1.083	4.605	0.218	-0.000	0.000
	4:(DL+LL)	-0.000	-3.879	-0.931	3.989	-0.188	0.000	-0.000
	5:0.75(DL+LL+	0.000	0.447	0.114	0.462	0.022	-0.000	0.000
613	1:(DEAD LOAI	-0.000	-6.472	-0.634	6.503	0.076	-0.000	-0.000
	2:(LIVE LOAD	-0.000	-3.689	-0.367	3.706	0.044	-0.000	-0.000
	3:(WIND LOAI	0.000	11.806	1.173	11.864	-0.142	0.000	0.000
	4:(DL+LL)	-0.000	-10.162	-1.001	10.211	0.121	-0.000	-0.000
	5:0.75(DL+LL+	0.000	1.233	0.129	1.240	-0.016	0.000	0.000
614	1:(DEAD LOAI	-0.000	-4.726	-0.358	4.740	0.096	-0.000	-0.000
	2:(LIVE LOAD	-0.000	-2.680	-0.204	2.698	0.055	-0.000	-0.000
	3:(WIND LOAI	0.000	8.576	0.653	8.601	-0.177	0.000	0.000
	4:(DL+LL)	-0.000	-7.406	-0.562	7.428	0.151	-0.000	-0.000
	5:0.75(DL+LL+	0.000	0.877	0.068	0.880	-0.019	0.000	0.000
615	1:(DEAD LOAI	-0.000	-2.488	0.035	2.488	0.116	-0.000	-0.000
	2:(LIVE LOAD	-0.000	-1.403	0.022	1.403	0.066	-0.000	-0.000
	3:(WIND LOAI	0.000	4.489	-0.071	4.489	-0.210	0.000	0.000
	4:(DL+LL)	-0.000	-3.891	0.057	3.891	0.181	-0.000	-0.000
	5:0.75(DL+LL+	0.000	0.449	-0.010	0.449	-0.021	0.000	0.000
616	1:(DEAD LOAI	-0.000	-9.046	-0.618	9.067	0.051	-0.000	-0.000
	2:(LIVE LOAD	-0.000	-5.173	-0.356	5.185	0.029	-0.000	-0.000
	3:(WIND LOAI	0.000	16.553	1.138	16.592	-0.093	0.000	0.000
	4:(DL+LL)	-0.000	-14.219	-0.973	14.252	0.080	-0.000	-0.000
	5:0.75(DL+LL+	0.000	1.750	0.123	1.755	-0.010	0.000	0.000
617	1:(DEAD LOAI	-0.000	-9.944	-0.419	9.952	0.035	-0.000	-0.000
	2:(LIVE LOAD	-0.000	-5.687	-0.242	5.692	0.020	-0.000	-0.000
	3:(WIND LOAI	0.000	18.199	0.775	18.215	-0.064	0.000	0.000
	4:(DL+LL)	-0.000	-15.631	-0.661	15.645	0.055	-0.000	-0.000
	5:0.75(DL+LL+	0.000	1.926	0.085	1.928	-0.007	0.000	0.000
618	1:(DEAD LOAI	-0.000	-10.448	-0.220	10.450	0.018	-0.000	-0.000
	2:(LIVE LOAD	-0.000	-5.982	-0.129	5.983	0.011	-0.000	-0.000
	3:(WIND LOAI	0.000	19.142	0.412	19.147	-0.035	0.000	0.000
	4:(DL+LL)	-0.000	-16.430	-0.349	16.434	0.029	-0.000	-0.000
	5:0.75(DL+LL+	0.000	2.034	0.047	2.035	-0.004	0.000	0.000
619	1:(DEAD LOAI	-0.000	-10.448	0.220	10.450	-0.018	0.000	-0.000
	2:(LIVE LOAD	-0.000	-5.982	0.129	5.983	-0.011	0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	3:(WIND LOAI	0.000	19.142	-0.412	19.147	0.035	-0.000	0.000
	4:(DL+LL)	-0.000	-16.430	0.349	16.434	-0.029	0.000	-0.000
	5:0.75(DL+LL+	0.000	2.034	-0.047	2.035	0.004	-0.000	0.000
620	1:(DEAD LOAI	-0.000	-9.944	0.419	9.952	-0.035	0.000	-0.000
	2:(LIVE LOAD	-0.000	-5.687	0.242	5.692	-0.020	0.000	-0.000
	3:(WIND LOAI	0.000	18.199	-0.775	18.215	0.064	-0.000	0.000
	4:(DL+LL)	-0.000	-15.631	0.661	15.645	-0.055	0.000	-0.000
	5:0.75(DL+LL+	0.000	1.926	-0.085	1.928	0.007	-0.000	0.000
621	1:(DEAD LOAI	-0.000	-9.046	0.618	9.067	-0.051	0.000	-0.000
	2:(LIVE LOAD	-0.000	-5.173	0.356	5.185	-0.029	0.000	-0.000
	3:(WIND LOAI	0.000	16.553	-1.138	16.592	0.093	-0.000	0.000
	4:(DL+LL)	-0.000	-14.219	0.973	14.252	-0.080	0.000	-0.000
	5:0.75(DL+LL+	0.000	1.750	-0.123	1.755	0.010	-0.000	0.000
622	1:(DEAD LOAI	-0.000	-6.472	0.634	6.503	-0.076	0.000	-0.000
	2:(LIVE LOAD	-0.000	-3.689	0.367	3.708	-0.044	0.000	-0.000
	3:(WIND LOAI	0.000	11.806	-1.173	11.864	0.142	-0.000	0.000
	4:(DL+LL)	-0.000	-10.162	1.001	10.211	-0.121	0.000	-0.000
	5:0.75(DL+LL+	0.000	1.233	-0.129	1.240	0.016	-0.000	0.000
623	1:(DEAD LOAI	-0.000	-4.726	0.358	4.740	-0.096	0.000	-0.000
	2:(LIVE LOAD	-0.000	-2.680	0.204	2.688	-0.055	0.000	-0.000
	3:(WIND LOAI	0.000	8.576	-0.653	8.601	0.177	-0.000	0.000
	4:(DL+LL)	-0.000	-7.406	0.562	7.428	-0.151	0.000	-0.000
	5:0.75(DL+LL+	0.000	0.877	-0.068	0.880	0.019	-0.000	0.000
624	1:(DEAD LOAI	-0.000	-2.488	-0.035	2.488	-0.116	0.000	-0.000
	2:(LIVE LOAD	-0.000	-1.403	-0.022	1.403	-0.066	0.000	-0.000
	3:(WIND LOAI	0.000	4.489	0.071	4.489	0.210	-0.000	0.000
	4:(DL+LL)	-0.000	-3.891	-0.057	3.891	-0.181	0.000	-0.000
	5:0.75(DL+LL+	0.000	0.449	0.010	0.449	0.021	-0.000	0.000
701	1:(DEAD LOAI	-0.236	-4.795	0.351	4.814	0.058	-0.005	0.041
	2:(LIVE LOAD	-0.136	-2.740	0.202	2.751	0.034	-0.003	0.023
	3:(WIND LOAI	0.434	8.768	-0.647	8.803	-0.109	0.008	-0.074
	4:(DL+LL)	-0.374	-7.535	0.553	7.565	0.092	-0.007	0.064
	5:0.75(DL+LL+	0.045	0.925	-0.070	0.929	-0.012	0.001	-0.007
702	1:(DEAD LOAI	-0.136	-3.507	0.410	3.534	0.073	-0.005	0.035
	2:(LIVE LOAD	-0.078	-1.991	0.236	2.006	0.042	-0.003	0.020
	3:(WIND LOAI	0.248	6.371	-0.754	6.420	-0.135	0.009	-0.064
	4:(DL+LL)	-0.214	-5.498	0.645	5.540	0.116	-0.008	0.055
	5:0.75(DL+LL+	0.026	0.654	-0.062	0.660	-0.015	0.001	-0.006
703	1:(DEAD LOAI	-0.039	-1.847	0.436	1.868	0.089	-0.004	0.025
	2:(LIVE LOAD	-0.022	-1.041	0.250	1.070	0.050	-0.002	0.014
	3:(WIND LOAI	0.071	3.330	-0.799	3.425	-0.161	0.008	-0.045
	4:(DL+LL)	-0.061	-2.867	0.685	2.968	0.139	-0.006	0.039
	5:0.75(DL+LL+	0.008	0.332	-0.065	0.343	-0.017	0.001	-0.005
704	1:(DEAD LOAI	-0.312	-6.678	0.224	6.689	0.037	-0.002	0.046
	2:(LIVE LOAD	-0.178	-3.831	0.129	3.837	0.021	-0.001	0.026
	3:(WIND LOAI	0.569	12.259	-0.413	12.279	-0.067	0.003	-0.083
	4:(DL+LL)	0.400	-10.509	0.353	10.527	0.058	-0.002	0.072
	5:0.75(DL+LL+	0.059	1.312	-0.045	1.314	-0.007	0.000	-0.009
705	1:(DEAD LOAI	-0.345	-7.324	0.155	7.334	0.025	-0.001	0.051
	2:(LIVE LOAD	-0.196	-4.202	0.089	4.207	0.015	-0.001	0.029
	3:(WIND LOAI	0.628	13.445	-0.286	13.463	-0.047	0.003	-0.093
	4:(DL+LL)	-0.541	-11.525	0.245	11.541	0.040	-0.002	0.080
	5:0.75(DL+LL+	0.065	1.440	-0.031	1.442	-0.005	0.000	-0.010
706	1:(DEAD LOAI	-0.378	-7.693	0.078	7.703	0.013	-0.002	0.056
	2:(LIVE LOAD	-0.215	-4.418	0.045	4.424	0.008	-0.001	0.032
	3:(WIND LOAI	0.690	14.139	-0.143	14.156	-0.026	0.003	-0.102
	4:(DL+LL)	-0.593	-12.111	0.122	12.126	0.021	-0.003	0.088
	5:0.75(DL+LL+	0.072	1.521	-0.016	1.522	-0.003	0.000	-0.011
707	1:(DEAD LOAI	-0.378	-7.693	-0.078	7.703	-0.013	0.002	0.056

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Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
	2:[LIVE LOAD	-0.215	-4.418	-0.045	4.424	-0.008	0.001	0.032
	3:[WIND LOAI	0.690	14.139	0.143	14.156	0.026	-0.003	-0.102
	4:[DL+LL)	-0.593	-12.111	-0.122	12.126	-0.021	0.003	0.088
	5:0.75[DL+LL+	0.072	1.521	0.016	1.522	0.003	-0.000	-0.011
708	1:[DEAD LOAI	-0.345	-7.324	-0.156	7.334	-0.025	0.001	0.051
	2:[LIVE LOAD	-0.196	-4.202	-0.089	4.207	-0.015	0.001	0.029
	3:[WIND LOAI	0.628	13.445	0.286	13.463	0.047	-0.003	-0.093
	4:[DL+LL)	-0.541	-11.525	-0.245	11.541	-0.040	0.002	0.080
	5:0.75[DL+LL+	0.065	1.440	0.031	1.442	0.005	-0.000	-0.010
709	1:[DEAD LOAI	-0.312	-6.678	-0.224	6.689	-0.037	0.002	0.046
	2:[LIVE LOAD	-0.178	-3.831	-0.129	3.837	-0.021	0.001	0.026
	3:[WIND LOAI	0.569	12.259	0.413	12.279	0.067	-0.003	-0.083
	4:[DL+LL)	-0.490	-10.509	-0.353	10.527	-0.058	0.002	0.072
	5:0.75[DL+LL+	0.059	1.312	0.045	1.314	0.007	-0.000	-0.009
710	1:[DEAD LOAI	-0.238	-4.795	-0.351	4.814	-0.058	0.005	0.041
	2:[LIVE LOAD	-0.136	-2.740	-0.202	2.751	-0.034	0.003	0.023
	3:[WIND LOAI	0.434	8.768	0.647	8.803	0.109	-0.008	-0.074
	4:[DL+LL)	-0.374	-7.535	-0.553	7.565	-0.092	0.007	0.064
	5:0.75[DL+LL+	0.045	0.925	0.070	0.929	0.012	-0.001	-0.007
711	1:[DEAD LOAI	-0.136	-3.507	-0.410	3.534	-0.073	0.005	0.035
	2:[LIVE LOAD	-0.078	-1.991	-0.236	2.006	-0.042	0.003	0.020
	3:[WIND LOAI	0.248	6.371	0.754	6.420	0.135	-0.009	-0.064
	4:[DL+LL)	-0.214	-5.498	-0.645	5.540	-0.116	0.008	0.055
	5:0.75[DL+LL+	0.026	0.654	0.082	0.660	0.015	-0.001	-0.006
712	1:[DEAD LOAI	-0.039	-1.847	-0.436	1.896	-0.089	0.004	0.025
	2:[LIVE LOAD	-0.022	-1.041	-0.250	1.070	-0.050	0.002	0.014
	3:[WIND LOAI	0.071	3.330	0.799	3.425	0.161	-0.008	-0.045
	4:[DL+LL)	-0.061	-2.887	-0.685	2.968	-0.139	0.006	0.039
	5:0.75[DL+LL+	0.008	0.332	0.085	0.343	0.017	-0.001	-0.005
713	1:[DEAD LOAI	0.352	-4.790	-0.467	4.825	0.056	-0.002	0.041
	2:[LIVE LOAD	0.199	-2.738	-0.272	2.758	0.033	-0.001	0.023
	3:[WIND LOAI	-0.636	8.760	0.870	8.826	-0.104	0.004	-0.073
	4:[DL+LL)	0.550	-7.527	-0.739	7.583	0.088	-0.003	0.064
	5:0.75[DL+LL+	-0.064	0.925	0.098	0.932	-0.012	0.000	-0.007
714	1:[DEAD LOAI	0.211	-3.507	-0.266	3.524	0.071	-0.001	0.035
	2:[LIVE LOAD	0.119	-1.991	-0.152	2.000	0.041	-0.001	0.020
	3:[WIND LOAI	-0.381	6.370	0.487	6.400	-0.131	0.002	-0.064
	4:[DL+LL)	0.331	-5.498	-0.418	5.524	0.112	-0.002	0.055
	5:0.75[DL+LL+	-0.038	0.654	0.052	0.657	-0.014	0.000	-0.006
715	1:[DEAD LOAI	0.091	-1.852	0.023	1.855	0.086	-0.001	0.025
	2:[LIVE LOAD	0.051	-1.044	0.015	1.045	0.049	-0.001	0.014
	3:[WIND LOAI	-0.164	3.340	-0.048	3.344	-0.156	0.002	-0.045
	4:[DL+LL)	0.143	-2.896	0.038	2.900	0.134	-0.002	0.039
	5:0.75[DL+LL+	-0.016	0.333	-0.007	0.333	-0.016	0.000	-0.005
716	1:[DEAD LOAI	0.569	-6.672	-0.450	6.711	0.037	0.002	0.046
	2:[LIVE LOAD	0.322	-3.827	-0.260	3.850	0.021	0.001	0.026
	3:[WIND LOAI	-1.031	12.247	0.831	12.319	-0.068	-0.004	-0.083
	4:[DL+LL)	0.891	-10.499	-0.710	10.561	0.059	0.003	0.072
	5:0.75[DL+LL+	-0.105	1.311	0.091	1.319	-0.007	-0.000	-0.008
717	1:[DEAD LOAI	0.634	-7.324	-0.304	7.358	0.025	0.004	0.051
	2:[LIVE LOAD	0.360	-4.201	-0.177	4.220	0.014	0.002	0.029
	3:[WIND LOAI	-1.151	13.444	0.565	13.505	-0.046	-0.007	-0.093
	4:[DL+LL)	0.994	-11.525	-0.481	11.578	0.040	0.006	0.080
	5:0.75[DL+LL+	-0.118	1.439	0.063	1.445	-0.005	-0.001	-0.010
718	1:[DEAD LOAI	0.699	-7.685	-0.158	7.718	0.013	0.002	0.056
	2:[LIVE LOAD	0.397	-4.414	-0.093	4.433	0.008	0.001	0.032
	3:[WIND LOAI	-1.271	14.125	0.298	14.185	-0.024	-0.004	-0.102
	4:[DL+LL)	1.097	-12.099	-0.252	12.151	0.020	0.003	0.088
	5:0.75[DL+LL+	-0.131	1.519	0.035	1.525	-0.003	-0.000	-0.011

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
719	1:[DEAD LOAI	0.699	-7.685	0.158	7.718	-0.013	-0.002	0.056
	2:[LIVE LOAD	0.397	-4.414	0.093	4.433	-0.008	-0.001	0.032
	3:[WIND LOAI	-1.271	14.125	-0.298	14.185	0.024	0.004	-0.102
	4:[DL+LL)	1.097	-12.099	0.252	12.151	-0.020	-0.003	0.088
	5:0.75[DL+LL+	-0.131	1.519	-0.035	1.525	0.003	0.000	-0.011
720	1:[DEAD LOAI	0.634	-7.324	0.304	7.358	-0.025	-0.004	0.051
	2:[LIVE LOAD	0.360	-4.201	0.177	4.220	-0.014	-0.002	0.029
	3:[WIND LOAI	-1.151	13.444	-0.565	13.505	0.046	0.007	-0.093
	4:[DL+LL)	0.994	-11.525	0.481	11.578	-0.040	-0.006	0.080
	5:0.75[DL+LL+	-0.118	1.439	-0.063	1.445	0.005	0.001	-0.010
721	1:[DEAD LOAI	0.569	-6.672	0.450	6.711	-0.037	-0.002	0.046
	2:[LIVE LOAD	0.322	-3.827	0.260	3.850	-0.021	-0.001	0.026
	3:[WIND LOAI	-1.031	12.247	-0.831	12.319	0.068	0.004	-0.083
	4:[DL+LL)	0.891	-10.499	0.710	10.561	-0.059	-0.003	0.072
	5:0.75[DL+LL+	-0.105	1.311	-0.091	1.319	0.007	0.000	-0.008
722	1:[DEAD LOAI	0.352	-4.790	0.467	4.825	-0.056	0.002	0.041
	2:[LIVE LOAD	0.199	-2.738	0.272	2.768	-0.033	0.001	0.023
	3:[WIND LOAI	-0.636	8.760	-0.870	8.826	0.104	-0.004	-0.073
	4:[DL+LL)	0.550	-7.527	0.739	7.583	-0.088	0.003	0.064
	5:0.75[DL+LL+	-0.064	0.925	-0.098	0.932	0.012	-0.000	-0.007
723	1:[DEAD LOAI	0.211	-3.507	0.266	3.524	-0.071	0.001	0.035
	2:[LIVE LOAD	0.119	-1.991	0.152	2.000	-0.041	0.001	0.020
	3:[WIND LOAI	-0.381	6.370	-0.487	6.400	0.131	-0.002	-0.064
	4:[DL+LL)	0.331	-5.498	0.418	5.524	-0.112	0.002	0.055
	5:0.75[DL+LL+	-0.038	0.654	-0.052	0.657	0.014	-0.000	-0.006
724	1:[DEAD LOAI	0.091	-1.852	0.023	1.855	-0.086	0.001	0.025
	2:[LIVE LOAD	0.051	-1.044	0.015	1.045	-0.049	0.001	0.014
	3:[WIND LOAI	-0.164	3.340	0.048	3.344	0.156	-0.002	-0.045
	4:[DL+LL)	0.143	-2.896	-0.038	2.900	-0.134	0.002	0.039
	5:0.75[DL+LL+	-0.016	0.333	0.007	0.333	0.016	-0.000	-0.005

Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (kg)	Fy (kg)	Fz (kg)	Mx (kg m)	My (kg m)	Mz (kg m)

Results are not available - This Printing is possible only from Post Processing

Reactions

Node	L/C	Horizontal FX (kg)	Vertical FY (kg)	Horizontal FZ (kg)	Moment MX (kg m)	MY (kg m)	MZ (kg m)
35	1:[DEAD LOAI	641.154	2.74E+3	-0.926	0.000	0.000	0.000
	2:[LIVE LOAD	364.973	1.62E+3	0.695	0.000	0.000	0.000
	3:[WIND LOAI	-1.17E+3	-5.17E+3	-2.223	0.000	0.000	0.000
	4:[DL+LL)	1.01E+3	4.35E+3	-2.232	0.000	0.000	0.000
	5:0.75[DL+LL+	-121.339	-612.607	-1.841	0.000	0.000	0.000
36	1:[DEAD LOAI	-641.154	2.74E+3	-0.926	0.000	0.000	0.000
	2:[LIVE LOAD	-364.973	1.62E+3	0.695	0.000	0.000	0.000
	3:[WIND LOAI	1.17E+3	-5.17E+3	-2.223	0.000	0.000	0.000
	4:[DL+LL)	-1.01E+3	4.35E+3	-2.232	0.000	0.000	0.000
	5:0.75[DL+LL+	121.339	-612.607	-1.841	0.000	0.000	0.000
135	1:[DEAD LOAI	854.135	3.18E+3	-0.000	0.000	0.000	0.000
	2:[LIVE LOAD	486.651	1.88E+3	-0.000	0.000	0.000	0.000
	3:[WIND LOAI	-1.56E+3	-6.03E+3	0.000	0.000	0.000	0.000
	4:[DL+LL)	1.34E+3	5.06E+3	-0.000	0.000	0.000	0.000
	5:0.75[DL+LL+	-165.673	-723.011	0.000	0.000	0.000	0.000
136	1:[DEAD LOAI	-854.135	3.18E+3	-0.000	0.000	0.000	0.000

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Reactions Cont...

Node	L/C	Horizontal FX (kg)	Vertical FY (kg)	Horizontal FZ (kg)	Moment MX (kg m)	Moment MY (kg m)	Moment MZ (kg m)
	4:(DL+LL)	-1.34E+3	5.06E+3	-0.000	0.000	0.000	0.000
	5:0.75(DL+LL+	165.673	-723.011	0.000	0.000	0.000	0.000
235	1:(DEAD LOAI	641.148	2.74E+3	0.926	0.000	0.000	0.000
	2:(LIVE LOAD	364.969	1.62E+3	-0.695	0.000	0.000	0.000
	3:(WIND LOAI	-1.17E+3	-5.17E+3	2.223	0.000	0.000	0.000
	4:(DL+LL)	1.01E+3	4.35E+3	0.232	0.000	0.000	0.000
	5:0.75(DL+LL+	-121.338	-612.607	1.841	0.000	0.000	0.000
236	1:(DEAD LOAI	-641.148	2.74E+3	0.926	0.000	0.000	0.000
	2:(LIVE LOAD	-364.969	1.62E+3	-0.695	0.000	0.000	0.000
	3:(WIND LOAI	1.17E+3	-5.17E+3	2.223	0.000	0.000	0.000
	4:(DL+LL)	-1.01E+3	4.35E+3	0.232	0.000	0.000	0.000
	5:0.75(DL+LL+	121.338	-612.607	1.841	0.000	0.000	0.000
308	1:(DEAD LOAI	41.659	849.710	-12.603	0.000	0.000	0.000
	2:(LIVE LOAD	31.295	452.200	-0.810	0.000	0.000	0.000
	3:(WIND LOAI	-100.143	-1.45E+3	2.591	0.000	0.000	0.000
	4:(DL+LL)	72.954	1.3E+3	-13.413	0.000	0.000	0.000
	5:0.75(DL+LL+	-20.392	-108.848	-8.116	0.000	0.000	0.000
309	1:(DEAD LOAI	-3.150	2.54E+3	-408.034	0.000	0.000	0.000
	2:(LIVE LOAD	-2.763	1.43E+3	-228.650	0.000	0.000	0.000
	3:(WIND LOAI	8.842	-4.57E+3	731.681	0.000	0.000	0.000
	4:(DL+LL)	-5.913	3.97E+3	-636.685	0.000	0.000	0.000
	5:0.75(DL+LL+	2.197	-452.978	71.247	0.000	0.000	0.000
310	1:(DEAD LOAI	0.000	3.03E+3	-547.955	0.000	0.000	0.000
	2:(LIVE LOAD	0.000	1.7E+3	-307.678	0.000	0.000	0.000
	3:(WIND LOAI	-0.000	-5.45E+3	984.570	0.000	0.000	0.000
	4:(DL+LL)	0.000	4.74E+3	-855.633	0.000	0.000	0.000
	5:0.75(DL+LL+	-0.000	-535.625	96.702	0.000	0.000	0.000
311	1:(DEAD LOAI	3.150	2.54E+3	-408.034	0.000	0.000	0.000
	2:(LIVE LOAD	2.763	1.43E+3	-228.650	0.000	0.000	0.000
	3:(WIND LOAI	-8.842	-4.57E+3	731.681	0.000	0.000	0.000
	4:(DL+LL)	5.913	3.97E+3	-636.685	0.000	0.000	0.000
	5:0.75(DL+LL+	-2.197	-452.978	71.247	0.000	0.000	0.000
312	1:(DEAD LOAI	-41.659	849.710	-12.603	0.000	0.000	0.000
	2:(LIVE LOAD	-31.295	452.200	-0.810	0.000	0.000	0.000
	3:(WIND LOAI	100.143	-1.45E+3	2.591	0.000	0.000	0.000
	4:(DL+LL)	-72.954	1.3E+3	-13.413	0.000	0.000	0.000
	5:0.75(DL+LL+	20.392	-108.848	-8.116	0.000	0.000	0.000
408	1:(DEAD LOAI	41.659	849.710	12.603	0.000	0.000	0.000
	2:(LIVE LOAD	31.295	452.200	0.810	0.000	0.000	0.000
	3:(WIND LOAI	-100.143	-1.45E+3	-2.591	0.000	0.000	0.000
	4:(DL+LL)	72.954	1.3E+3	13.413	0.000	0.000	0.000
	5:0.75(DL+LL+	-20.392	-108.848	8.116	0.000	0.000	0.000
409	1:(DEAD LOAI	-3.150	2.54E+3	408.034	0.000	0.000	0.000
	2:(LIVE LOAD	-2.763	1.43E+3	228.650	0.000	0.000	0.000
	3:(WIND LOAI	8.842	-4.57E+3	-731.681	0.000	0.000	0.000
	4:(DL+LL)	-5.913	3.97E+3	636.685	0.000	0.000	0.000
	5:0.75(DL+LL+	2.197	-452.978	-71.247	0.000	0.000	0.000
410	1:(DEAD LOAI	0.000	3.03E+3	547.955	0.000	0.000	0.000
	2:(LIVE LOAD	0.000	1.7E+3	307.678	0.000	0.000	0.000
	3:(WIND LOAI	-0.000	-5.45E+3	-984.570	0.000	0.000	0.000
	4:(DL+LL)	0.000	4.74E+3	855.633	0.000	0.000	0.000
	5:0.75(DL+LL+	-0.000	-535.624	-96.702	0.000	0.000	0.000
411	1:(DEAD LOAI	3.150	2.54E+3	408.035	0.000	0.000	0.000
	2:(LIVE LOAD	2.763	1.43E+3	228.650	0.000	0.000	0.000
	3:(WIND LOAI	-8.842	-4.57E+3	-731.681	0.000	0.000	0.000
	4:(DL+LL)	5.913	3.97E+3	636.685	0.000	0.000	0.000
	5:0.75(DL+LL+	-2.197	-452.978	-71.247	0.000	0.000	0.000
412	1:(DEAD LOAI	-41.659	849.710	12.603	0.000	0.000	0.000

Reactions Cont...

Node	L/C	Horizontal FX (kg)	Vertical FY (kg)	Horizontal FZ (kg)	Moment MX (kg m)	Moment MY (kg m)	Moment MZ (kg m)
	2:(LIVE LOAD	-31.295	452.200	0.810	0.000	0.000	0.000
	3:(WIND LOAI	100.143	-1.45E+3	-2.591	0.000	0.000	0.000
	4:(DL+LL)	-72.954	1.3E+3	13.413	0.000	0.000	0.000
	5:0.75(DL+LL+	20.392	-108.848	8.116	0.000	0.000	0.000

Steel Design (Track 0) Checks

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
1	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.070	4
		0.00 T	0.00	558.73	1.50
2	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.405	4
		1857.97 C	22.05	2879.33	0.00
3	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.133	4
		2729.36 C	-2.10	-702.51	1.25
4	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.198	4
		7098.37 C	3.39	-648.32	0.00
5	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.164	4
		7686.29 C	-8.85	-343.65	0.42
6	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.176	4
		8410.84 C	3.11	-307.23	0.83
7	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.199	4
		8460.30 C	-1.70	-487.61	1.04
8	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.207	4
		9517.34 C	1.96	-486.88	0.31
9	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.197	4
		9504.03 C	-3.84	-387.68	0.63
10	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.197	4
		9504.03 C	-3.84	-387.68	0.62
11	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.207	4
		9517.34 C	1.96	-486.88	0.94
12	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.199	4
		8460.30 C	-1.70	-487.61	0.21
13	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.176	4
		8410.84 C	3.11	-307.23	0.42

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Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
14	ST H300X150X6.5	PASS 7086.29 C	(JAPANESE SECTIONS) AISC- H1-3 -8.85	0.164 -343.65	4 0.83
15	ST H300X150X6.5	PASS 7098.37 C	(JAPANESE SECTIONS) AISC- H1-3 3.39	0.198 -648.32	4 1.25
16	ST H300X150X6.5	PASS 2729.36 C	(JAPANESE SECTIONS) AISC- H1-3 -2.10	0.133 -702.51	4 0.00
17	ST H300X150X6.5	PASS 1857.98 C	(JAPANESE SECTIONS) AISC- H1-3 22.05	0.405 2875.33	4 1.25
18	ST H300X150X6.5	PASS 0.00 T	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.070 558.73	4 0.00
19	ST H100X100X6	PASS 935.82 T	(JAPANESE SECTIONS) AISC- H2-1 -5.76	0.213 198.84	4 0.00
20	ST H100X100X6	PASS 4731.38 T	(JAPANESE SECTIONS) AISC- H2-1 -0.10	0.200 -63.64	4 1.28
21	ST H100X100X6	PASS 4896.64 T	(JAPANESE SECTIONS) AISC- H2-1 -0.23	0.174 -27.28	4 0.32
22	ST H100X100X6	PASS 5963.30 T	(JAPANESE SECTIONS) AISC- H2-1 -2.65	0.214 -31.46	4 0.00
23	ST H100X100X6	PASS 5861.79 T	(JAPANESE SECTIONS) AISC- H2-1 1.89	0.212 -36.77	4 1.25
24	ST H100X100X6	PASS 8157.14 T	(JAPANESE SECTIONS) AISC- H2-1 0.07	0.278 -37.17	4 1.25
25	ST H100X100X6	PASS 8173.99 T	(JAPANESE SECTIONS) AISC- H2-1 0.22	0.272 -28.39	4 0.10
26	ST H100X100X6	PASS 7887.10 T	(JAPANESE SECTIONS) AISC- H2-1 -0.36	0.260 -23.98	4 0.00
27	ST H100X100X6	PASS 7887.10 T	(JAPANESE SECTIONS) AISC- H2-1 -0.36	0.260 -23.98	4 1.25
28	ST H100X100X6	PASS 8173.99 T	(JAPANESE SECTIONS) AISC- H2-1 0.22	0.272 -28.39	4 1.15
29	ST H100X100X6	PASS 8157.14 T	(JAPANESE SECTIONS) AISC- H2-1 0.07	0.278 -37.17	4 0.00

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
30	ST H100X100X6	PASS 5861.79 T	(JAPANESE SECTIONS) AISC- H2-1 1.89	0.212 -36.77	4 0.00
31	ST H100X100X6	PASS 5963.30 T	(JAPANESE SECTIONS) AISC- H2-1 -2.65	0.214 -31.46	4 1.28
32	ST H100X100X6	PASS 4896.64 T	(JAPANESE SECTIONS) AISC- H2-1 -0.23	0.174 -27.28	4 0.96
33	ST H100X100X6	PASS 4731.38 T	(JAPANESE SECTIONS) AISC- H2-1 -0.10	0.200 -63.64	4 0.00
34	ST H100X100X6	PASS 935.82 T	(JAPANESE SECTIONS) AISC- H2-1 -5.76	0.213 198.84	4 1.29
35	ST H100X100X6	PASS 1402.21 T	(JAPANESE SECTIONS) AISC- H2-1 -0.26	0.164 -151.92	4 0.00
36	ST H100X100X6	PASS 4.42 C	(JAPANESE SECTIONS) AISC- H1-3 1.18	0.051 -61.08	4 0.00
37	ST H100X100X6	PASS 761.33 C	(JAPANESE SECTIONS) AISC- H1-3 0.22	0.033 -8.79	4 0.83
38	ST H100X100X6	PASS 2831.75 C	(JAPANESE SECTIONS) AISC- H1-3 5.66	0.121 -14.26	4 0.00
39	ST H100X100X6	PASS 702.04 C	(JAPANESE SECTIONS) AISC- H1-3 0.68	0.047 26.64	4 1.10
40	ST H100X100X6	PASS 0.47 C	(JAPANESE SECTIONS) AISC- H1-3 0.05	0.008 -10.10	4 0.00
41	ST H100X100X6	PASS 774.61 C	(JAPANESE SECTIONS) AISC- H1-3 0.08	0.034 -8.10	4 1.10
42	ST H100X100X6	PASS 2271.60 C	(JAPANESE SECTIONS) AISC- H1-3 7.47	0.094 0.00	4 0.00
43	ST H100X100X6	PASS 774.61 C	(JAPANESE SECTIONS) AISC- H1-3 0.08	0.034 8.10	4 1.10
44	ST H100X100X6	PASS 0.47 C	(JAPANESE SECTIONS) AISC- H1-3 0.05	0.008 10.10	4 0.00
45	ST H100X100X6	PASS 702.04 C	(JAPANESE SECTIONS) AISC- H1-3 0.68	0.047 -26.64	4 1.10

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ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
46	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.121	4
		2831.75 C	5.66	14.26	0.00
47	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.033	4
		761.33 C	0.22	8.79	0.83
48	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.051	4
		4.42 C	1.18	61.08	0.00
49	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.164	4
		1402.21 T	-0.26	151.92	0.00
50	ST H250X250X9	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.210	4
		4174.74 C	-0.58	2515.32	2.50
51	ST H250X250X9	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.210	4
		4174.74 C	-0.58	2515.32	0.00
52	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.153	4
		2977.51 C	2.62	-45.96	1.29
53	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.089	4
		1566.00 T	-3.50	-39.07	0.00
54	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.021	4
		299.83 T	0.04	-13.09	1.13
55	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.080	4
		2071.83 T	1.45	-16.14	0.00
56	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.061	4
		918.43 C	3.64	-20.43	1.67
57	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.043	4
		463.74 T	-3.71	-25.10	0.00
58	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.048	4
		829.00 T	2.68	-20.11	1.67
59	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.048	4
		829.00 T	2.68	-20.11	0.00
60	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.043	4
		463.74 T	-3.71	-25.10	1.67
61	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.061	4
		918.43 C	3.64	-20.43	0.00

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
62	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.080	4
		2071.83 T	1.45	-16.14	1.67
63	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.021	4
		299.83 T	0.04	-13.09	0.38
64	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.089	4
		1566.00 T	-3.50	-39.07	1.50
65	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.153	4
		2977.51 C	2.62	-45.96	0.00
101	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.070	4
		0.00 T	0.00	558.73	1.50
102	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.493	4
		2265.90 C	0.00	3662.80	0.00
103	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.167	4
		3384.59 C	0.00	-902.69	1.25
104	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.241	4
		9522.62 C	0.00	-823.45	0.00
105	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.203	4
		9532.75 C	0.00	-464.74	0.42
106	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.228	4
		11410.92 C	0.00	-411.32	0.83
107	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.254	4
		11465.50 C	0.00	-645.88	1.15
108	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.277	4
		12965.20 C	0.00	-636.21	0.21
109	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.269	4
		12963.68 C	0.00	-558.41	0.83
110	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.269	4
		12963.68 C	0.00	-558.41	0.42
111	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.277	4
		12965.20 C	0.00	-636.21	1.04
112	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.254	4
		11465.50 C	0.00	-645.88	0.10

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
113 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.228 -411.32	4 0.42
		11410.92 C	0.00		
114 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.203 -464.74	4 0.83
		9532.75 C	0.00		
115 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.241 -823.45	4 1.25
		9522.63 C	0.00		
116 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.167 -902.69	4 0.00
		3384.60 C	0.00		
117 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.493 3662.80	4 1.25
		2265.90 C	0.00		
118 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.070 558.73	4 0.00
		0.00 T	0.00		
119 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.251 253.04	4 0.00
		1019.57 T	0.00		
120 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.258 -83.81	4 1.28
		6055.51 T	0.00		
121 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.220 -32.35	4 0.53
		6292.80 T	0.00		
122 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.282 -29.72	4 0.00
		8367.83 T	0.00		
123 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.279 -36.06	4 1.25
		8225.87 T	0.00		
124 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.374 -50.52	4 1.25
		10949.34 T	0.00		
125 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.365 -38.74	4 0.00
		10973.01 T	0.00		
126 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.366 -35.54	4 1.25
		11076.46 T	0.00		
127 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.366 -35.54	4 0.00
		11076.46 T	0.00		
128 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.365 -38.74	4 1.25
		10973.01 T	0.00		

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
129 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.374 -50.52	4 0.00
		10949.34 T	0.00		
130 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.279 -36.06	4 0.00
		8225.87 T	0.00		
131 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.282 -29.72	4 1.28
		8367.83 T	0.00		
132 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.220 -32.35	4 0.75
		6292.80 T	0.00		
133 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.258 -83.81	4 0.00
		6055.52 T	0.00		
134 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.251 253.04	4 1.29
		1019.58 T	0.00		
135 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.211 -193.94	4 0.00
		1875.63 T	0.00		
136 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.069 -87.19	4 0.00
		8.40 C	0.00		
137 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.034 -8.77	4 0.00
		818.66 C	0.00		
138 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.072 -17.72	4 0.00
		1672.59 C	0.00		
139 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.052 -31.42	4 0.00
		791.31 C	0.00		
140 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.012 -14.26	4 0.00
		18.07 C	0.00		
141 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.033 -0.94	4 1.10
		925.33 C	0.00		
142 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.003 0.00	4 1.10
		89.76 C	0.00		
143 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.033 0.94	4 1.10
		925.33 C	0.00		
144 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.012 14.26	4 0.00
		18.07 C	0.00		

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
145	ST H100X100X6	PASS 791.31 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.052 31.42	4 0.00
146	ST H100X100X6	PASS 1672.59 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.072 17.72	4 0.00
147	ST H100X100X6	PASS 818.66 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.034 8.77	4 0.00
148	ST H100X100X6	PASS 8.40 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.069 87.19	4 0.00
149	ST H100X100X6	PASS 1875.63 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.211 193.94	4 0.00
150	ST H250X250X9	PASS 4883.80 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.274 3356.97	4 2.50
151	ST H250X250X9	PASS 4883.80 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.274 3356.97	4 0.00
152	ST H100X100X6	PASS 3983.08 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.195 -58.60	4 1.29
153	ST H100X100X6	PASS 2426.25 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.118 -50.65	4 0.00
154	ST H100X100X6	PASS 14.45 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.017 -18.99	4 1.25
155	ST H100X100X6	PASS 2457.11 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.096 -23.66	4 0.00
156	ST H100X100X6	PASS 1098.12 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.068 -28.84	4 1.67
157	ST H100X100X6	PASS 862.42 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.058 -35.96	4 0.00
158	ST H100X100X6	PASS 726.56 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.048 -29.95	4 1.67
159	ST H100X100X6	PASS 726.56 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.048 -29.95	4 0.00
160	ST H100X100X6	PASS 862.42 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.058 -35.96	4 1.67

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METR (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
161	ST H100X100X6	PASS 1698.12 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.068 -28.84	4 0.00
162	ST H100X100X6	PASS 2457.11 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.096 -23.66	4 1.67
163	ST H100X100X6	PASS 14.45 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.017 -18.99	4 0.25
164	ST H100X100X6	PASS 2426.25 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.118 -50.65	4 1.50
165	ST H100X100X6	PASS 3983.68 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.195 -58.60	4 0.00
201	ST H300X150X6.5	PASS 0.00 T	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.070 558.73	4 1.50
202	ST H300X150X6.5	PASS 1857.98 C	(JAPANESE SECTIONS) AISC- H1-3 -22.05	0.405 2875.31	4 0.00
203	ST H300X150X6.5	PASS 2729.34 C	(JAPANESE SECTIONS) AISC- H1-3 2.10	0.133 -702.42	4 1.25
204	ST H300X150X6.5	PASS 7098.53 C	(JAPANESE SECTIONS) AISC- H1-3 -3.39	0.198 -648.23	4 0.00
205	ST H300X150X6.5	PASS 7086.46 C	(JAPANESE SECTIONS) AISC- H1-3 8.85	0.164 -343.69	4 0.42
206	ST H300X150X6.5	PASS 8410.84 C	(JAPANESE SECTIONS) AISC- H1-3 -3.11	0.176 -307.23	4 0.83
207	ST H300X150X6.5	PASS 8469.30 C	(JAPANESE SECTIONS) AISC- H1-3 1.70	0.199 -487.61	4 1.04
208	ST H300X150X6.5	PASS 9517.34 C	(JAPANESE SECTIONS) AISC- H1-1 -1.96	0.207 -486.88	4 0.31
209	ST H300X150X6.5	PASS 9504.03 C	(JAPANESE SECTIONS) AISC- H1-1 3.84	0.197 -387.68	4 0.63
210	ST H300X150X6.5	PASS 9504.03 C	(JAPANESE SECTIONS) AISC- H1-1 3.84	0.197 -387.68	4 0.62
211	ST H300X150X6.5	PASS 9517.34 C	(JAPANESE SECTIONS) AISC- H1-1 -1.96	0.207 -486.88	4 0.94

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG MSTS (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ PX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
212 ST	H300X150X6.5	PASS 8460.31 C	(JAPANESE SECTIONS) AISC- H1-3 1.70	0.159 -487.61	4 0.21
213 ST	H300X150X6.5	PASS 8410.84 C	(JAPANESE SECTIONS) AISC- H1-3 -3.11	0.176 -307.23	4 0.42
214 ST	H300X150X6.5	PASS 7086.46 C	(JAPANESE SECTIONS) AISC- H1-3 8.85	0.164 -343.69	4 0.83
215 ST	H300X150X6.5	PASS 7098.53 C	(JAPANESE SECTIONS) AISC- H1-3 -3.39	0.198 -648.23	4 1.25
216 ST	H300X150X6.5	PASS 2729.34 C	(JAPANESE SECTIONS) AISC- H1-3 2.10	0.133 -702.42	4 0.00
217 ST	H300X150X6.5	PASS 1857.98 C	(JAPANESE SECTIONS) AISC- H1-3 -22.05	0.405 2875.31	4 1.25
218 ST	H300X150X6.5	PASS 0.00 T	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.070 558.73	4 0.00
219 ST	H100X100X6	PASS 935.83 T	(JAPANESE SECTIONS) AISC- H2-1 5.76	0.213 198.84	4 0.00
220 ST	H100X100X6	PASS 4731.35 T	(JAPANESE SECTIONS) AISC- H2-1 0.10	0.200 -63.63	4 1.28
221 ST	H100X100X6	PASS 4896.54 T	(JAPANESE SECTIONS) AISC- H2-1 0.23	0.174 -27.27	4 0.32
222 ST	H100X100X6	PASS 5963.36 T	(JAPANESE SECTIONS) AISC- H2-1 2.65	0.215 -31.46	4 0.00
223 ST	H100X100X6	PASS 5861.81 T	(JAPANESE SECTIONS) AISC- H2-1 -1.89	0.212 -36.77	4 1.25
224 ST	H100X100X6	PASS 8157.15 T	(JAPANESE SECTIONS) AISC- H2-1 -0.07	0.278 -37.17	4 1.25
225 ST	H100X100X6	PASS 8174.00 T	(JAPANESE SECTIONS) AISC- H2-1 -0.22	0.272 -28.39	4 0.10
226 ST	H100X100X6	PASS 7887.11 T	(JAPANESE SECTIONS) AISC- H2-1 0.36	0.260 -23.98	4 0.00
227 ST	H100X100X6	PASS 7887.11 T	(JAPANESE SECTIONS) AISC- H2-1 0.36	0.260 -23.98	4 1.25

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MEMBER	TABLE	RESULT/ PX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
228 ST	H100X100X6	PASS 8174.00 T	(JAPANESE SECTIONS) AISC- H2-1 -0.22	0.272 -28.39	4 1.15
229 ST	H100X100X6	PASS 8157.15 T	(JAPANESE SECTIONS) AISC- H2-1 -0.07	0.278 -37.17	4 0.00
230 ST	H100X100X6	PASS 5861.81 T	(JAPANESE SECTIONS) AISC- H2-1 -1.89	0.212 -36.77	4 0.00
231 ST	H100X100X6	PASS 5963.36 T	(JAPANESE SECTIONS) AISC- H2-1 2.65	0.215 -31.46	4 1.28
232 ST	H100X100X6	PASS 4896.54 T	(JAPANESE SECTIONS) AISC- H2-1 0.23	0.174 -27.27	4 0.96
233 ST	H100X100X6	PASS 4731.36 T	(JAPANESE SECTIONS) AISC- H2-1 0.10	0.200 -63.63	4 0.00
234 ST	H100X100X6	PASS 935.84 T	(JAPANESE SECTIONS) AISC- H2-1 5.76	0.213 198.84	4 1.29
235 ST	H100X100X6	PASS 1402.30 T	(JAPANESE SECTIONS) AISC- H2-1 0.26	0.164 -151.91	4 0.00
236 ST	H100X100X6	PASS 4.77 C	(JAPANESE SECTIONS) AISC- H1-3 -1.18	0.051 -62.08	4 0.00
237 ST	H100X100X6	PASS 761.15 C	(JAPANESE SECTIONS) AISC- H1-3 -0.22	0.033 -8.79	4 0.83
238 ST	H100X100X6	PASS 2831.89 C	(JAPANESE SECTIONS) AISC- H1-3 -5.66	0.121 -14.26	4 0.00
239 ST	H100X100X6	PASS 702.04 C	(JAPANESE SECTIONS) AISC- H1-3 -0.68	0.047 26.64	4 1.10
240 ST	H100X100X6	PASS 0.46 C	(JAPANESE SECTIONS) AISC- H1-3 -0.05	0.008 -10.10	4 0.00
241 ST	H100X100X6	PASS 774.62 C	(JAPANESE SECTIONS) AISC- H1-3 -0.08	0.034 -8.10	4 1.10
242 ST	H100X100X6	PASS 2271.60 C	(JAPANESE SECTIONS) AISC- H1-3 -7.47	0.094 0.00	4 0.00
243 ST	H100X100X6	PASS 774.62 C	(JAPANESE SECTIONS) AISC- H1-3 -0.08	0.034 8.10	4 1.10

KINGDOM OF THAILAND
CHOKCHAI KHATKHAJORN
โชคชัย ขัตขจร
สย. 4522
REGISTERED PROFESSIONAL ENGINEER

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
244	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -0.05	0.008 10.10	4 0.00
		0.46 C			
245	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -0.68	0.047 -26.64	4 1.10
		702.04 C			
246	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -5.66	0.121 14.26	4 0.00
		2831.89 C			
247	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -0.22	0.033 8.79	4 0.83
		761.15 C			
248	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -1.18	0.051 61.08	4 0.00
		4.77 C			
249	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 0.26	0.164 151.91	4 0.00
		1402.30 T			
250	ST H250X250X9	PASS	(JAPANESE SECTIONS) AISC- H1-3 0.58	0.210 2515.29	4 2.50
		4174.74 C			
251	ST H250X250X9	PASS	(JAPANESE SECTIONS) AISC- H1-3 0.58	0.210 2515.29	4 0.00
		4174.74 C			
252	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -2.62	0.153 -45.96	4 1.29
		2977.46 C			
253	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 3.50	0.089 -39.06	4 0.00
		1566.25 T			
254	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -0.04	0.021 -13.09	4 1.13
		300.02 T			
255	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -1.45	0.080 -16.14	4 0.00
		2071.82 T			
256	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -3.64	0.061 -20.43	4 1.67
		918.42 C			
257	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 3.71	0.043 -25.10	4 0.00
		463.74 T			
258	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -2.68	0.048 -20.11	4 1.67
		829.00 T			
259	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -2.68	0.048 -20.11	4 0.00
		829.00 T			

Steel Design (Track 0) Checks Cont...

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
260	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 3.71	0.043 -25.10	4 1.67
		463.74 T			
261	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -3.64	0.061 -20.43	4 0.00
		918.42 C			
262	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -1.45	0.080 -16.14	4 1.67
		2071.82 T			
263	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -0.04	0.021 -13.09	4 0.38
		300.02 T			
264	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 3.50	0.089 -39.06	4 1.50
		1566.25 T			
265	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -2.62	0.153 -45.96	4 0.00
		2977.46 C			
301	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.037 299.98	4 1.50
		0.00 T			
302	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 14.57	0.174 580.97	4 5.00
		79.86 C			
303	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 -2.45	0.160 563.85	4 0.00
		81.22 C			
304	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 -2.45	0.160 563.85	4 5.00
		81.22 C			
305	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 14.57	0.174 580.97	4 0.00
		79.86 C			
306	ST H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.037 299.98	4 0.00
		0.00 T			
307	ST H250X250X9	PASS	(JAPANESE SECTIONS) AISC- H1-3 -33.53	0.028 -182.38	4 0.00
		1122.86 C			
308	ST H250X250X9	PASS	(JAPANESE SECTIONS) AISC- H1-3 -1591.71	0.319 14.78	4 0.00
		3788.49 C			
309	ST H250X250X9	PASS	(JAPANESE SECTIONS) AISC- H1-3 -2139.08	0.423 0.00	4 0.00
		4557.62 C			
310	ST H250X250X9	PASS	(JAPANESE SECTIONS) AISC- H1-3 -1591.71	0.319 -14.78	4 0.00
		3788.49 C			

Steel Design (Track 0) Checks Cont...

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
311	ST H250X250X9	PASS 1122.86 C	(JAPANESE SECTIONS) AISC- H1-3 -33.53	0.028 182.38	4 0.00
401	ST H300X150X6.5	PASS 0.00 T	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.037 299.98	4 1.50
402	ST H300X150X6.5	PASS 79.86 C	(JAPANESE SECTIONS) AISC- H1-3 -14.57	0.174 580.97	4 5.00
403	ST H300X150X6.5	PASS 81.22 C	(JAPANESE SECTIONS) AISC- H1-3 2.45	0.160 563.85	4 0.00
404	ST H300X150X6.5	PASS 81.22 C	(JAPANESE SECTIONS) AISC- H1-3 2.45	0.160 563.85	4 5.00
405	ST H300X150X6.5	PASS 79.86 C	(JAPANESE SECTIONS) AISC- H1-3 -14.57	0.174 580.97	4 0.00
406	ST H300X150X6.5	PASS 0.00 T	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.037 299.98	4 0.00
407	ST H250X250X9	PASS 1122.86 C	(JAPANESE SECTIONS) AISC- H1-3 33.53	0.028 -182.38	4 0.00
408	ST H250X250X9	PASS 3788.49 C	(JAPANESE SECTIONS) AISC- H1-3 1591.71	0.319 14.78	4 0.00
409	ST H250X250X9	PASS 4557.62 C	(JAPANESE SECTIONS) AISC- H1-3 2139.08	0.423 0.00	4 0.00
410	ST H250X250X9	PASS 3788.49 C	(JAPANESE SECTIONS) AISC- H1-3 1591.71	0.319 -14.78	4 0.00
411	ST H250X250X9	PASS 1122.86 C	(JAPANESE SECTIONS) AISC- H1-3 33.53	0.028 182.38	4 0.00
501	ST H300X150X6.5	PASS 19.73 C	(JAPANESE SECTIONS) AISC- H1-3 14.75	0.030 71.12	4 4.60
502	ST H300X150X6.5	PASS 25.96 C	(JAPANESE SECTIONS) AISC- H1-3 4.49	0.020 60.77	4 4.60
503	ST H300X150X6.5	PASS 25.96 C	(JAPANESE SECTIONS) AISC- H1-3 4.49	0.020 60.77	4 0.00
504	ST H300X150X6.5	PASS 19.73 C	(JAPANESE SECTIONS) AISC- H1-3 14.75	0.030 71.12	4 0.00

Steel Design (Track 0) Checks Cont...

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
505	ST H300X150X6.5	PASS 19.73 C	(JAPANESE SECTIONS) AISC- H1-3 -14.75	0.030 71.12	4 4.60
506	ST H300X150X6.5	PASS 25.96 C	(JAPANESE SECTIONS) AISC- H1-3 -4.49	0.020 60.77	4 4.60
507	ST H300X150X6.5	PASS 25.96 C	(JAPANESE SECTIONS) AISC- H1-3 -4.49	0.020 60.77	4 0.00
508	ST H300X150X6.5	PASS 19.73 C	(JAPANESE SECTIONS) AISC- H1-3 -14.75	0.030 71.12	4 0.00
601	ST H300X150X6.5	PASS 2802.47 C	(JAPANESE SECTIONS) AISC- H1-3 23.42	0.247 1476.27	4 0.00
602	ST H300X150X6.5	PASS 3403.63 C	(JAPANESE SECTIONS) AISC- H1-3 -2.24	0.147 -731.73	4 1.15
603	ST H300X150X6.5	PASS 7841.59 C	(JAPANESE SECTIONS) AISC- H1-3 3.63	0.216 -703.96	4 0.00
604	ST H300X150X6.5	PASS 7851.31 C	(JAPANESE SECTIONS) AISC- H1-3 -15.92	0.194 -453.76	4 1.15
605	ST H300X150X6.5	PASS 9189.18 C	(JAPANESE SECTIONS) AISC- H1-3 5.17	0.206 -443.67	4 0.00
606	ST H300X150X6.5	PASS 9202.41 C	(JAPANESE SECTIONS) AISC- H1-3 -2.68	0.216 -536.16	4 1.15
607	ST H300X150X6.5	PASS 10396.85 C	(JAPANESE SECTIONS) AISC- H1-1 2.89	0.223 -522.91	4 0.00
608	ST H300X150X6.5	PASS 10402.53 C	(JAPANESE SECTIONS) AISC- H1-1 -6.44	0.239 -648.35	4 1.15
609	ST H300X150X6.5	PASS 10402.53 C	(JAPANESE SECTIONS) AISC- H1-1 -6.44	0.239 -648.35	4 0.00
610	ST H300X150X6.5	PASS 10396.85 C	(JAPANESE SECTIONS) AISC- H1-1 2.89	0.223 -522.91	4 1.15
611	ST H300X150X6.5	PASS 9202.41 C	(JAPANESE SECTIONS) AISC- H1-3 -2.68	0.216 -536.16	4 0.00
612	ST H300X150X6.5	PASS 9189.18 C	(JAPANESE SECTIONS) AISC- H1-3 5.17	0.206 -443.67	4 1.15

Steel Design (Track 0) Checks Cont...

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
613 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 -15.92	0.194 -453.75	4 0.00
		7851.31 C			
614 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 3.63	0.216 -703.96	4 1.15
		7841.59 C			
615 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 -2.24	0.147 -731.74	4 0.00
		3403.64 C			
616 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3 23.42	0.247 1476.27	4 1.15
		2802.47 C			
617 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -6.66	0.174 115.65	4 0.00
		2287.05 T			
618 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -0.15	0.210 -54.76	4 1.18
		5467.41 T			
619 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -0.25	0.194 -29.76	4 0.20
		5560.68 T			
620 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -2.75	0.267 -29.80	4 0.00
		7813.94 T			
621 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 1.81	0.259 -29.12	4 1.15
		7626.44 T			
622 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 0.04	0.301 -34.04	4 1.15
		8977.89 T			
623 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 0.20	0.297 -28.77	4 0.10
		8986.94 T			
624 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 2.97	0.332 -31.18	4 1.15
		9879.83 T			
625 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 2.97	0.332 -31.18	4 0.00
		9879.83 T			
626 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 0.20	0.297 -28.77	4 1.05
		8986.94 T			
627 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 0.04	0.301 -34.04	4 0.00
		8977.89 T			
628 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 1.81	0.259 -29.12	4 0.00
		7626.44 T			

Steel Design (Track 0) Checks Cont...

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
629 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -2.75	0.267 -29.80	4 1.18
		7813.95 T			
630 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -0.25	0.194 -29.76	4 0.98
		5560.68 T			
631 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -0.15	0.210 -54.76	4 0.00
		5467.41 T			
632 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -6.66	0.174 115.65	4 1.19
		2287.05 T			
633 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -6.18	0.026 0.02	4 0.00
		408.91 C			
634 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -31.73	0.064 -1.43	4 0.00
		8.54 C			
635 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -98.47	0.233 0.27	4 0.00
		1296.76 T			
636 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -3.64	0.025 0.01	4 0.00
		506.57 C			
637 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 -5.13	0.010 -0.06	4 0.00
		1.63 T			
638 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 7.59	0.031 -1.05	4 1.10
		428.14 C			
639 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 -7.59	0.031 -1.05	4 1.10
		428.14 C			
640 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 5.13	0.010 -0.06	4 0.00
		1.63 T			
641 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 3.64	0.025 0.01	4 0.00
		506.57 C			
642 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 6.18	0.026 0.02	4 0.00
		408.91 C			
643 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3 31.73	0.064 -1.43	4 0.00
		8.54 C			
644 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1 98.47	0.233 0.27	4 0.00
		1296.76 T			

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Steel Design (Track 0) Checks Cont...

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
645 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.133	4
		2637.68 C	2.77	-43.35	1.19
646 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.109	4
		2204.96 T	-3.89	-39.39	0.00
647 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.040	4
		492.99 C	0.27	-24.18	1.42
648 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.066	4
		1285.12 T	1.48	-27.67	0.00
649 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.046	4
		553.59 C	3.79	-19.59	1.59
650 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.065	4
		1078.21 T	-3.87	-27.71	0.00
651 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.038	4
		152.68 C	2.81	-30.63	1.59
652 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.038	4
		152.68 C	2.81	-30.63	0.00
653 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.065	4
		1078.21 T	-3.87	-27.71	1.59
654 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.046	4
		553.59 C	3.79	-19.59	0.00
655 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.066	4
		1285.12 T	1.48	-27.67	1.59
656 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.040	4
		492.99 C	0.27	-24.18	0.00
657 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.109	4
		2204.96 T	-3.89	-39.39	1.42
658 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.133	4
		2637.68 C	2.77	-43.35	0.00
701 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.306	4
		3713.25 C	0.00	1984.69	0.00
702 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.194	4
		4517.12 C	0.00	-975.23	1.15

Steel Design (Track 0) Checks Cont...

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703 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.268	4
		10543.06 C	0.00	-936.26	0.00
704 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.233	4
		10559.85 C	0.00	-604.96	1.15
705 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.261	4
		12465.04 C	0.00	-588.47	0.00
706 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.277	4
		12482.25 C	0.00	-730.11	1.15
707 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.303	4
		14291.52 C	0.00	-709.64	0.00
708 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.326	4
		14303.49 C	0.00	-920.72	1.15
709 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.326	4
		14303.48 C	0.00	-920.72	0.00
710 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.303	4
		14291.52 C	0.00	-709.64	1.15
711 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.277	4
		12482.24 C	0.00	-730.11	0.00
712 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.261	4
		12465.04 C	0.00	-588.47	1.15
713 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.233	4
		10559.85 C	0.00	-604.96	0.00
714 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-1	0.268	4
		10543.05 C	0.00	-936.26	1.15
715 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.194	4
		4517.12 C	0.00	-975.23	0.00
716 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.306	4
		3713.25 C	0.00	1984.69	1.15
717 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.214	4
		3013.65 T	0.00	154.62	0.00
718 ST	H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.281	4
		7298.80 T	0.00	-74.20	1.18

Steel Design (Track 0) Checks Cont...

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719	ST H100X100X6	PASS 7424.61 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.258 -39.83	4 0.00
720	ST H100X100X6	PASS 10569.52 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.348 -32.19	4 0.00
721	ST H100X100X6	PASS 10303.53 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.339 -31.63	4 1.15
722	ST H100X100X6	PASS 12242.34 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.412 -48.60	4 1.15
723	ST H100X100X6	PASS 12255.96 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.407 -41.36	4 0.00
724	ST H100X100X6	PASS 13692.03 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.466 -60.66	4 1.15
725	ST H100X100X6	PASS 13692.03 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.466 -60.66	4 0.00
726	ST H100X100X6	PASS 12255.96 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.407 -41.36	4 1.15
727	ST H100X100X6	PASS 12242.34 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.412 -48.60	4 0.00
728	ST H100X100X6	PASS 10303.53 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.339 -31.63	4 0.00
729	ST H100X100X6	PASS 10569.52 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.348 -32.19	4 1.18
730	ST H100X100X6	PASS 7424.61 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.258 -39.83	4 1.18
731	ST H100X100X6	PASS 7298.80 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.281 -74.20	4 0.00
732	ST H100X100X6	PASS 3013.64 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.214 154.62	4 1.19
733	ST H100X100X6	PASS 520.42 C	(JAPANESE SECTIONS) AISC- H1-3 -9.51	0.036 0.00	4 0.00
734	ST H100X100X6	PASS 23.27 C	(JAPANESE SECTIONS) AISC- H1-3 -43.13	0.086 0.00	4 0.00

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
735	ST H100X100X6	PASS 1739.38 T	(JAPANESE SECTIONS) AISC- H2-1 -131.62	0.312 0.00	4 0.00
736	ST H100X100X6	PASS 697.79 C	(JAPANESE SECTIONS) AISC- H1-3 -6.87	0.038 0.00	4 0.00
737	ST H100X100X6	PASS 19.66 C	(JAPANESE SECTIONS) AISC- H1-3 -7.75	0.016 0.00	4 0.00
738	ST H100X100X6	PASS 552.31 C	(JAPANESE SECTIONS) AISC- H1-3 9.55	0.038 0.00	4 1.10
739	ST H100X100X6	PASS 552.31 C	(JAPANESE SECTIONS) AISC- H1-3 -9.55	0.038 0.00	4 1.10
740	ST H100X100X6	PASS 19.66 C	(JAPANESE SECTIONS) AISC- H1-3 7.75	0.016 0.00	4 0.00
741	ST H100X100X6	PASS 697.79 C	(JAPANESE SECTIONS) AISC- H1-3 6.87	0.038 0.00	4 0.00
742	ST H100X100X6	PASS 520.42 C	(JAPANESE SECTIONS) AISC- H1-3 9.51	0.036 0.00	4 0.00
743	ST H100X100X6	PASS 23.27 C	(JAPANESE SECTIONS) AISC- H1-3 43.13	0.086 0.00	4 0.00
744	ST H100X100X6	PASS 1739.37 T	(JAPANESE SECTIONS) AISC- H2-1 131.62	0.312 0.00	4 0.00
745	ST H100X100X6	PASS 3558.44 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.172 -58.38	4 1.19
746	ST H100X100X6	PASS 3018.76 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.139 -54.21	4 0.00
747	ST H100X100X6	PASS 735.82 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.655 -31.44	4 1.42
748	ST H100X100X6	PASS 1797.14 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.087 -36.72	4 0.00
749	ST H100X100X6	PASS 848.20 C	(JAPANESE SECTIONS) AISC- H1-3 0.00	0.057 -28.09	4 1.59
750	ST H100X100X6	PASS 1622.94 T	(JAPANESE SECTIONS) AISC- H2-1 0.00	0.085 -40.80	4 0.00

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Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
751	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.050	4
		346.24 C	AISC- H1-3 0.00	-42.30	1.59
752	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.050	4
		346.24 C	AISC- H1-3 0.00	-42.30	0.00
753	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.085	4
		1622.94 T	AISC- H2-1 0.00	-40.80	1.59
754	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.057	4
		848.21 C	AISC- H1-3 0.00	-28.09	0.00
755	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.087	4
		1797.14 T	AISC- H2-1 0.00	-36.72	1.59
756	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.055	4
		735.82 C	AISC- H1-3 0.00	-31.44	0.00
757	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.139	4
		3018.76 T	AISC- H2-1 0.00	-54.21	1.42
758	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.172	4
		3558.44 C	AISC- H1-3 0.00	-58.38	0.00
801	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.247	4
		2802.47 C	AISC- H1-3 -23.42	1476.27	0.00
802	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.147	4
		3403.63 C	AISC- H1-3 2.24	-731.73	1.15
803	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.216	4
		7841.59 C	AISC- H1-3 -3.63	-703.96	0.00
804	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.194	4
		7851.31 C	AISC- H1-3 15.92	-453.76	1.15
805	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.206	4
		9189.18 C	AISC- H1-3 -5.17	-443.67	0.00
806	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.216	4
		9202.41 C	AISC- H1-3 2.68	-536.16	1.15
807	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.223	4
		10396.85 C	AISC- H1-1 -2.89	-522.91	0.00
808	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.239	4
		10402.53 C	AISC- H1-1 6.44	-648.35	1.15

Steel Design (Track 0) Checks Cont...

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
809	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.239	4
		10402.53 C	AISC- H1-1 6.44	-648.35	0.00
810	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.223	4
		10396.86 C	AISC- H1-1 -2.89	-522.91	1.15
811	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.216	4
		9202.41 C	AISC- H1-3 2.68	-536.16	0.00
812	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.206	4
		9189.18 C	AISC- H1-3 -5.17	-443.67	1.15
813	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.194	4
		7851.31 C	AISC- H1-3 15.92	-453.75	0.00
814	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.216	4
		7841.59 C	AISC- H1-3 -3.63	-703.96	1.15
815	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.147	4
		3403.64 C	AISC- H1-3 2.24	-731.74	0.00
816	ST H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.247	4
		2802.47 C	AISC- H1-3 -23.42	1476.27	1.15
817	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.174	4
		2287.05 T	AISC- H2-1 6.66	115.65	0.00
818	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.210	4
		5467.41 T	AISC- H2-1 0.15	-54.76	1.18
819	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.194	4
		5560.68 T	AISC- H2-1 0.25	-29.76	0.20
820	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.267	4
		7813.94 T	AISC- H2-1 2.75	-29.80	0.00
821	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.259	4
		7626.44 T	AISC- H2-1 -1.81	-29.12	1.15
822	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.301	4
		8977.89 T	AISC- H2-1 -0.04	-34.04	1.15
823	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.297	4
		8986.94 T	AISC- H2-1 -0.20	-28.77	0.10
824	ST H100X100X6	PASS	(JAPANESE SECTIONS)	0.332	4
		9879.83 T	AISC- H2-1 -2.97	-31.18	1.15

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Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
841	ST H100X100X6	PASS 506.57 C	(JAPANESE SECTIONS) AISC- H1-3 3.64	0.025 -0.01	4 0.00
842	ST H100X100X6	PASS 408.91 C	(JAPANESE SECTIONS) AISC- H1-3 6.18	0.026 -0.02	4 0.00
843	ST H100X100X6	PASS 8.54 C	(JAPANESE SECTIONS) AISC- H1-3 31.73	0.064 1.43	4 0.00
844	ST H100X100X6	PASS 1296.76 T	(JAPANESE SECTIONS) AISC- H2-1 98.47	0.233 -0.27	4 0.00
845	ST H100X100X6	PASS 2637.68 C	(JAPANESE SECTIONS) AISC- H1-3 -2.77	0.133 -43.35	4 1.19
846	ST H100X100X6	PASS 2204.96 T	(JAPANESE SECTIONS) AISC- H2-1 3.89	0.109 -39.39	4 0.00
847	ST H100X100X6	PASS 492.99 C	(JAPANESE SECTIONS) AISC- H1-3 -0.27	0.040 -24.18	4 1.42
848	ST H100X100X6	PASS 1285.12 T	(JAPANESE SECTIONS) AISC- H2-1 -1.48	0.066 -27.67	4 0.00
849	ST H100X100X6	PASS 553.59 C	(JAPANESE SECTIONS) AISC- H1-3 -3.79	0.046 -19.59	4 1.59
850	ST H100X100X6	PASS 1078.21 T	(JAPANESE SECTIONS) AISC- H2-1 3.87	0.065 -27.71	4 0.00
851	ST H100X100X6	PASS 152.68 C	(JAPANESE SECTIONS) AISC- H1-3 -2.81	0.038 -30.63	4 1.59
852	ST H100X100X6	PASS 152.68 C	(JAPANESE SECTIONS) AISC- H1-3 -2.81	0.038 -30.63	4 0.00
853	ST H100X100X6	PASS 1078.21 T	(JAPANESE SECTIONS) AISC- H2-1 3.87	0.065 -27.71	4 1.59
854	ST H100X100X6	PASS 553.59 C	(JAPANESE SECTIONS) AISC- H1-3 -3.79	0.046 -19.59	4 0.00
855	ST H100X100X6	PASS 1285.12 T	(JAPANESE SECTIONS) AISC- H2-1 -1.48	0.066 -27.67	4 1.59
856	ST H100X100X6	PASS 492.99 C	(JAPANESE SECTIONS) AISC- H1-3 -0.27	0.040 -24.18	4 0.00

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE Noted)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
825	ST H100X100X6	PASS 9879.83 T	(JAPANESE SECTIONS) AISC- H2-1 -2.97	0.332 -31.18	4 0.00
826	ST H100X100X6	PASS 8986.94 T	(JAPANESE SECTIONS) AISC- H2-1 -0.20	0.297 -28.77	4 1.05
827	ST H100X100X6	PASS 8977.89 T	(JAPANESE SECTIONS) AISC- H2-1 -0.04	0.301 -34.04	4 0.00
828	ST H100X100X6	PASS 7626.44 T	(JAPANESE SECTIONS) AISC- H2-1 -1.81	0.259 -29.12	4 0.00
829	ST H100X100X6	PASS 7813.95 T	(JAPANESE SECTIONS) AISC- H2-1 2.75	0.267 -29.80	4 1.18
830	ST H100X100X6	PASS 5560.68 T	(JAPANESE SECTIONS) AISC- H2-1 0.25	0.194 -29.76	4 0.98
831	ST H100X100X6	PASS 5467.41 T	(JAPANESE SECTIONS) AISC- H2-1 0.15	0.210 -54.76	4 0.00
832	ST H100X100X6	PASS 2287.05 T	(JAPANESE SECTIONS) AISC- H2-1 6.66	0.174 115.65	4 1.19
833	ST H100X100X6	PASS 408.91 C	(JAPANESE SECTIONS) AISC- H1-3 -6.18	0.026 -0.02	4 0.00
834	ST H100X100X6	PASS 8.54 C	(JAPANESE SECTIONS) AISC- H1-3 -31.73	0.064 1.43	4 0.00
835	ST H100X100X6	PASS 1296.76 T	(JAPANESE SECTIONS) AISC- H2-1 -98.47	0.233 -0.27	4 0.00
836	ST H100X100X6	PASS 506.57 C	(JAPANESE SECTIONS) AISC- H1-3 -3.64	0.025 -0.01	4 0.00
837	ST H100X100X6	PASS 1.63 T	(JAPANESE SECTIONS) AISC- H2-1 -5.13	0.010 0.06	4 0.00
838	ST H100X100X6	PASS 428.14 C	(JAPANESE SECTIONS) AISC- H1-3 7.59	0.031 1.05	4 1.10
839	ST H100X100X6	PASS 428.14 C	(JAPANESE SECTIONS) AISC- H1-3 -7.59	0.031 1.05	4 1.10
840	ST H100X100X6	PASS 1.63 T	(JAPANESE SECTIONS) AISC- H2-1 5.13	0.010 0.06	4 0.00

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Steel Design (Track 0) Checks Cont...

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MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
857	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H2-1	0.109	4
		2204.96 T	3.89	-39.39	1.42
858	ST H100X100X6	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.133	4
		2637.68 C	-2.77	-43.35	0.00

DESIGN OF PURLIN **- Roofing (Metal sheet)** แป 21-Apr-21

SECTION PROPERTIES

Selected **C 200x75x20x3.2, 9.27 kg/m**

Moment of inertia	Ix	=	716.00	cm^4
	Iy	=	84.10	cm^4
Section modulus	Sx	=	71.60	cm^3
	Sy	=	15.80	cm^3
Section area	A	=	11.81	cm^2
	weight	=	9.27	kg/m
Height of king post		=	0.300	m
Span of rafter in horizontal		=	3.500	m
Span along slope		=	3.513	m
Roof slope, θ		=	4.90	deg.
No. of purlin per panel		=	5	#
Purlin spacing		=	0.878	m
Purlin span or rafter spacing		=	8.40	m
No. of sag rod per span		=	1	#
Sag rod spacing		=	4.20	m

DESIGN LOAD

- Roofing (Metal sheet) = 10*.87		=	8.78	kg/m^2
- Purlin weight = 9.27/0.878		=	10.56	kg/m^2
- Fastenner		=	3.00	kg/m^2
Dead load (vertical)				
	dl = 8.78+10.56+3.00	=	22.34	kg/m^2
	dlx = 22.34*sin 4.90	=	1.91	kg/m^2
	dly = 22.34*cos 4.90	=	22.25	kg/m^2
Live load (vertical)				
	ll	=	50.00	kg/m^2
	llx = 50.00*sin 4.90	=	4.27	kg/m^2
	lly = 50.00*cos 4.90	=	49.82	kg/m^2
Wind load (horizontal)				
	wl	=	160.00	kg/m^2
	wly = 160.00*4.90/45	=	17.42	kg/m^2
SUM LOAD				
about X-axis :	wx = 1.91+4.27	=	6.18	kg/m^2
(parallel to roof)	= 6.18*0.878	=	5.43	kg/m
about Y-axis :	wy = 22.25+49.82+17.42	=	89.49	kg/m^2
(perpendicular to roof)	= 89.49*0.878	=	78.59	kg/m

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CHECK BENDING STRESS

Yield strength of steel	Fy	=	2,500.00	ksc
Moment about X-axis :	Mx = 78.59*8.40^2/8	=	693.17	kg-m
Moment about Y-axis :	My = 5.43*4.20^2/8	=	11.96	kg-m
	fbx = 693.17*100/71.60	=	968.12	ksc
	fby = 11.96*100/15.80	=	75.71	ksc
Allowable bending stress				
	Fbx = 0.75*Fy	=	1,875.00	ksc
	Fby = 0.60*Fy	=	1,500.00	ksc
	fbx/Fbx+fby/Fby			
	968.12/1,875+75.71/1,500 =		0.57	< 1.0, O.K.

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CHECK DEFLECTION

Allowable deflection = L/360		=	2.333	cm
Dx = 5/384*wx*L^4/(Es*Iy)		=	0.124	cm
Dy = 5/384*wy*L^4/(Es*Ix)		=	3.388	cm
D_max. = (Dx^2+Dy^2)^0.5		=	3.391	cm, No.K.

****

DYNAMIC ENGINEERING CONSULTANTS CO., LTD.
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Job No. 193018

Job Title โครงหลังคาเหล็ก

Subject DESIGN SAG ROD **Date :** 4/21/2021

Made by : CKJ

[1] : STRUCTURAL LAYOUT :

Span of purlins :	8.40	m.
Purlins spacing @	0.88	m.
Sag rod spacing @	4.20	m.
Length of truss	3.50	m
Roof sheet :	Metal sheet on steel purlin	

[2] : DESIGN SAG ROD :

Min. Fy	=	2400	kg/cm2
SLOPE	=	5	degreee
Purlins	=	9.27	kg/m
Metal roofing :	=	15	kg/m2
Live load	=	100	kg/m2
DL + LL	=	115	kg/m2
W purlin	=	154	kg
W dl+ll	=	845	kg
TOTAL LOAD	=	1000	kg
Ft =	0.6*Fy =	1440	kg/cm2
Tension =	W*SIN () =	87.11	kg.
Req'd AREA =	T/Ft =	0.06	cm2

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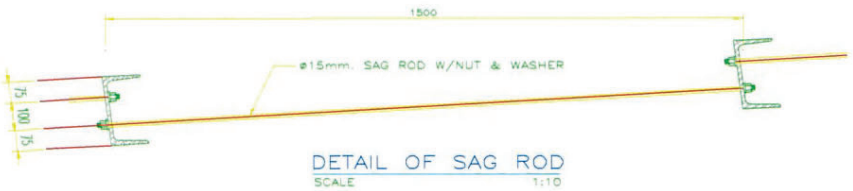
USE Sag Rod RB 12 As = 1.13 cm2 > Areq'd O.K.



DETAIL OF SAG ROD
SCALE 1:10

DESIGN OF STEEL BEAM **T1,T1A,T1B,T1C,T1D** 22-Apr-21

SECTION PROPERTIES

Selected: **น 100x100x4.5, 13.10 kg/m**

Flange width	bf	=	10.00	cm
Depth of section	d	=	10.00	cm
Flange thickness	tf	=	0.45	cm
Wep thickness	tw	=	0.45	cm
Section area	A	=	16.67	cm^2
Moment of inertia	Ix	=	249.00	cm^4
	Iy	=	249.00	cm^4
Section modulus	Sx	=	49.90	cm^3
	Sy	=	49.90	cm^3
Section area of flange	Af	=	4.50	cm^2
Section area of wep	Aw	=	4.10	cm^2
	Weight	=	13.10	kg/m
	Es	=	2.10E+06	ksc
	Fy	=	2,500.00	ksc

Distance between lateral support	=	88.00	cm
<= 637.2bf/(Fy)^0.5	=	127.44	cm
<= 1,406,000/(d/Af)/Fy	=	253.08	cm

*** Laterally supported beam ***

437.7/(Fy)^0.5	=	8.75	***
bf/2tf	=	11.11	***
796.5/(Fy)^0.5	=	15.93	***

437.7/(Fy)^0.5 < bf/2tf < 796.5/(Fy)^0.5

*** Partially Compact Section ***

Fb = Fy[0.733 - 0.000167*(bf/(2tf))*(Fy)^0.5] = 1,600.56 ksc

CHECK BENDING STRESS

For laterally supported beam

Allowable bending stress	Fb	=	1,600.56	ksc
Bending moment	M	=	628.00	kg-m
Required section modulus	M/Fb	=	39.24	cm^3

< Sx = 49.90 cm^3, O.K.

CHECK SHEAR STRESS

Allowable shear stress	Fv = 0.40*Fy	=	1,000.00	ksc
Shear force	V	=	1,478.00	kg
Transverse shear	vt = V/A	=	88.66	ksc
Longitudinal shear	Q = A*y	=	26.15	cm^3
	vh = VQ/(Ix*b)	=	344.87	ksc
approx.	vh = V/(d*tw)	=	328.44	ksc, O.K.

CHECK WEP CRIPPLING

Allowable bearing stress	0.75*Fy	=	1,875.00	ksc
Maximum Reaction	R	=	1,478.00	kg
Bearing length	N	=	10.00	cm
Wep crippling stress	R/[tw*(N+k)]	=	314.30	ksc, O.K.

CHECK DEFLECTION

Span length, L	=	0.88	m
Allowable deflection = L/360	=	0.244	cm
Equal w	=	6,487.60	kg/m
D = 5/384*w*L^4/(Es*I)	=	0.097	cm, O.K.

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AXIAL FORCE MEMBER T1,T1A,T1B,T1C,T1D (ตั้ง,ทะแยง) 22-Apr-21

Section properties

Selected ฉ 75x75x3.2, 7.01 kg/m

Fy = 2,500 ksc
Es = 2.10E+06 ksc

K = 1.00 ***

Cc = (2*PI^2*Es/Fy)^0.5 = 128.77 ***

ALLOWABLE COMPRESSIVE STRESS

Fca = ((1-1/2*(KL/r/Cc)^2)*Fy)/F.S. (KL/r <= Cc)
F.S. = 5/3+3/8*(KL/r/Cc)-1/8*(KL/r/Cc)^3

Fca = 12*PI^2*Es/(23*(KL/r)^2) (KL/r > Cc)

ALLOWABLE TENSILE STRESS

Fta = 0.60*Fy ======> [KL/r < 240 for main member]
[KL/r < 300 for secondary member]

Elem No.	Length (cm)	A (cm^2)	r (cm)	Force (kg)	Stress (ksc)	KL/r	Fa (ksc)
1	0.77	8.93	2.91	1,478.00	165.57	0.26	1,500.00
2	0.77	8.93	2.91	1,478.00	165.57	0.26	1,500.00
3	0.77	8.93	2.91	1,478.00	165.57	0.26	1,500.00
4	1.20	8.93	2.91	1,818.00	203.65	0.41	1,500.00
5	1.20	8.93	2.91	1,818.00	203.65	0.41	1,500.00

KINGDOM OF THAILAND
CHOKCHAI KHATKHAJORN
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สย. 4522
REGISTERED PROFESSIONAL ENGINEER

DESIGN OF STEEL BEAM **T2,T2A,T2B,T2C,T2D** 22-Apr-21

SECTION PROPERTIES

Selected: **น 100x100x4.5, 13.10 kg/m**

Flange width	bf	=	10.00	cm
Depth of section	d	=	10.00	cm
Flange thickness	tf	=	0.45	cm
Wep thickness	tw	=	0.45	cm
Section area	A	=	16.67	cm^2
Moment of inertia	Ix	=	249.00	cm^4
	Iy	=	249.00	cm^4
Section modulus	Sx	=	49.90	cm^3
	Sy	=	49.90	cm^3
Section area of flange	Af	=	4.50	cm^2
Section area of wep	Aw	=	4.10	cm^2
	Weight	=	13.10	kg/m
	Es	=	2.10E+06	ksc
	Fy	=	2,500.00	ksc

Distance between lateral support	=	70.00	cm
<= 637.2bf/(Fy)^0.5	=	127.44	cm
<= 1,406,000/(d/Af)/Fy	=	253.08	cm

*** Laterally supported beam ***

437.7/(Fy)^0.5	=	8.75	***
bf/2tf	=	11.11	***
796.5/(Fy)^0.5	=	15.93	***

437.7/(Fy)^0.5 < bf/2tf < 796.5/(Fy)^0.5

*** Partially Compact Section ***

Fb = Fy[0.733 - 0.000167*(bf/(2tf))*(Fy)^0.5] = 1,600.56 ksc

CHECK BENDING STRESS

For laterally supported beam

Allowable bending stress	Fb	=	1,600.56	ksc
Bending moment	M	=	320.00	kg-m
Required section modulus	M/Fb	=	19.99	cm^3

< Sx = 49.90 cm^3, O.K.

CHECK SHEAR STRESS

Allowable shear stress	Fv = 0.40*Fy	=	1,000.00	ksc
Shear force	V	=	378.00	kg
Transverse shear	vt = V/A	=	22.68	ksc
Longitudinal shear	Q = A*y	=	26.15	cm^3
	vh = VQ/(Ix*b)	=	88.20	ksc
approx.	vh = V/(d*tw)	=	84.00	ksc, O.K.

CHECK WEP CRIPPLING

Allowable bearing stress	0.75*Fy	=	1,875.00	ksc
Maximum Reaction	R	=	378.00	kg
Bearing length	N	=	10.00	cm
Wep crippling stress	R/[tw*(N+k)]	=	80.38	ksc, O.K.

CHECK DEFLECTION

Span length, L	=	0.70	m
Allowable deflection = L/360	=	0.194	cm
Equal w	=	5,224.49	kg/m
D = 5/384*w*L^4/(Es*I)	=	0.031	cm, O.K.

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AXIAL FORCE MEMBER T2,T2A,T2B,T2C,T2D (ตั้ง,ทะแยง) 22-Apr-21

Section properties

Selected ฉ 75x75x3.2, 7.01 kg/m

Fy = 2,500 ksc
Es = 2.10E+06 ksc

K = 1.00 ***

Cc = (2*PI^2*Es/Fy)^0.5 = 128.77 ***

ALLOWABLE COMPRESSIVE STRESS

Fca = ((1-1/2*(KL/r/Cc)^2)*Fy)/F.S. (KL/r <= Cc)

F.S. = 5/3+3/8*(KL/r/Cc)-1/8*(KL/r/Cc)^3

Fca = 12*PI^2*Es/(23*(KL/r)^2) (KL/r > Cc)

ALLOWABLE TENSILE STRESS

Fta = 0.60*Fy ======> [KL/r < 240 for main member]
[KL/r < 300 for secondary member]

Elem No.	Length (cm)	A (cm^2)	r (cm)	Force (kg)	Stress (ksc)	KL/r	Fa (ksc)
1	0.53	8.93	2.91	1,182.00	132.41	0.18	1,500.00
2	0.53	8.93	2.91	1,182.00	132.41	0.18	1,500.00
3	0.53	8.93	2.91	1,182.00	132.41	0.18	1,500.00
4	0.75	8.93	2.91	1,454.00	162.88	0.26	1,500.00
5	0.75	8.93	2.91	1,454.00	162.88	0.26	1,500.00

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DESIGN OF STEEL COLUMN **เสาเหล็ก** 22-Apr-21

SECTION PROPERTIES

Selected **ห 100x100x4.5, 13.10 kg/m**

Flange width	bf	=	10.00	cm
Depth of section	d	=	10.00	cm
Flange thickness	tf	=	0.45	cm
Wep thickness	tw	=	0.45	cm
Section area	A	=	16.67	cm^2
Moment of inertia	Ix	=	249.00	cm^4
	Iy	=	249.00	cm^4
	rx	=	3.87	cm
Section modulus	Sx	=	49.90	cm^3
	Sy	=	49.90	cm^3
Section area of flange	Af	=	4.50	cm^2
Section area of wep	Aw	=	4.10	cm^2
	Weight	=	13.10	kg/m
	Es	=	2.10E+06	ksc
	Fy	=	2,500.00	ksc

DESIGN LOAD

Axial force :	P	=	4,200.00	kg
Moment about X-axis :	Mx	=	420.00	kg-m
Moment about Y-axis :	My	=	210.00	kg-m
	fa = P/A	=	251.95	ksc
	fbx= Mx/Sx	=	841.68	ksc
	fby= My/Sy	=	420.84	ksc
Required section modulus	M/Fb	=	26.24	cm^3
			< Sx = 49.90 cm^3, O.K.	
Slenderness Ratio	K	=	1.00	***
	l	=	50.00	cm
	Kl/r	=	12.92	<= 240 O.K.
Cc = (2*PI^2*Es/Fy)^0.5		=	128.77	***

Kl/r <= Cc :

Fa = ((1-1/2*(Kl/r/Cc)^2)*Fy)/F.S.		=	1,459.61	ksc
F.S. = 5/3+3/8*(Kl/r/Cc)-1/8*(Kl/r/Cc)^3		=	1.70	***
	fa/Fa	=	0.17	> 0.15
			**********	
Distance between lateral support		=	50.00	cm
<= 637.2bf/(Fy)^0.5		=	127.44	cm
<= 1,406,000/(d/Af)/Fy		=	253.08	cm
	*** Laterally supported beam ***			
437.7/(Fy)^0.5		=	8.75	***
bf/2tf		=	11.11	***
796.5/(Fy)^0.5		=	15.93	***

437.7/(Fy)^0.5 < bf/2tf < 796.5/(Fy)^0.5

*** Partially Compact Section ***

Fb = Fy[0.733-0.000167*(bf/(2tf))*(Fy)^0.5]		=	1,600.56	ksc
For laterally supported beam :				
	Fb	=	1,600.56	ksc
F'e = 12*PI^2*Es/(23*(Kl/r)^2)		=	64,782.00	ksc
1-fa/F'e		=	1.00	
Cm = (1+(-0.20)*fa/F'e)		=	1.00	***

for fa/Fa > 0.15 Use formular : AISC 1.6-1a & AISC 1.6-1b

(AISC 1.6-1a) : fa/Fa+Cm*fbx/(1-fa/F'e)/Fbx		=	0.96	<= 1.0 O.K.
(AISC 1.6-1b) : fa/0.60Fy+fbx/Fbx+fby/Fby		=	0.96	<= 1.0 O.K.

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DESIGN OF COLUMN BASE PLATE แผ่นเหล็กรองเสา 22-Apr-21

Yeild strength of steel structure		Fy	=	2,400	ksc
Strength of concrete		f'c	=	350	ksc
Allowable bending stress,	Fb = 0.75*Fy		=	1,800	ksc
Allowable bearing stress,	Fp = 0.25*f'c		=	87.50	ksc
Column load		P	=	2.10	ton
Bending moment		M	=	0.00	ton-m

Size of column			Size of base plate		
b =	80.00	cm	B =	25.00	cm
d =	80.00	cm	D =	25.00	cm

Actual bearing stress				
	fp = (P/B.D)+[6*M/(B.D^2)]	=	3.36	ksc, O.K.
Critical section	0.80b	=	64.00	cm
	0.95d	=	76.00	cm
	(B-0.80b)/2	=	-19.50	cm
	(D-0.95d)/2	=	-25.50	cm
	Moment arm, r	=	-19.50	cm
Moment at base plate per 1 cm of width				
	M = 3.36*-19.50^2/2	=	638.82	kg-cm
	S = M/Fb	=	0.35	cm^3
from S = I/c = (b.t^3/12)/(t/2) = t^2/6				
	Required t	=	1.46	cm
	Used t	=	1.50	cm
	USE PLATE SIZE		25.00*25.00*1.50 cm	

FIND SIZE OF ANCHOR BOLTS

Allowable tensile stress,	Ft = 0.60*Fy	=	1,440	ksc
	bolt dia.	=	16	mm
	A	=	2.01	cm^2
	r	=	15.00	cm
	Tensin force, T = M/r	=	0.00	kg
	Required A	=	0.00	cm^2
Allowable shear stress,	Fv = 0.40*Fy	=	960.00	ksc
	Shear force 10% of Column load	=	210.00	kg
	Required A	=	0.22	cm^2
	Required bolt	=	0.11	bolts
	So, use bolt	=	4	bolts

DEVELOPMENT LENGTH OF ANCHOR BOLTS

Allowable bond stress, uall = 1.615(f'c)^0.5/D < 11	=	11.00	ksc
L = D.fs/4.u = 1.60*1,200/(4*11.00)	=	43.64	cm