



รายงานการออกแบบ Design Note รายการคำนวณงานโครงสร้าง

(สัญญาก่อสร้างอาคารทิศตะวันตก Final Detailed Design)

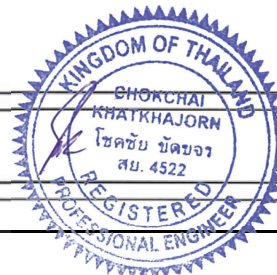
(ส่วนงานโครงสร้าง งานสถาปัตยกรรม และงานระบบหลัก)

โครงการพัฒนาพื้นที่ส่วนขยายศูนย์ราชการเฉลิมพระเกียรติ ๘๐ พรรษา ๕ ธันวาคม ๒๕๕๐ พื้นที่โซน C

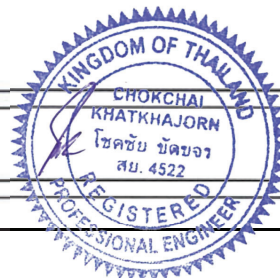
6. รายการคำนวณบันได และเปิดเตล็ด



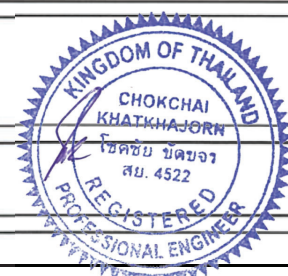
 DYNAMIC ENGINEERING CONSULTANTS CO., LTD. 281 SOI PHANIT ANAN 7 SUKHUMVIT 71 BANGKOK 10110 PHONE: (66-2) 713-3888, FAX: (66-2) 713-3889	Project No. : 193018 Date : 1/8/2021 Project Name : ศูนย์ราชการ โซน ซี Subject : อาคารทิศตะวันตก Made by : โชคชัย Checked by : โชคชัย																																																																																																																																																																																																																																																					
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Fs (all)	0.5*Fy	=	2000 ksc.	SR24	Pmin	=	0.0025	SD30,40	Pmin	=	0.002	SD50	Pmin	=	0.0015	pmax	= 0.75*pb	=	0.0287	Beta		=	0.8	w1=1.4*DL1+1.7*LL		=	1014 ksm.	w2=1.4(DL1+DL2)+1.7*LL		=	1325 ksm.	w3=1.4*DL1+1.7*LL		=	1014 ksm.	REACTION (Ra)		=	3513 kg.	REACTION (Rb)		=	3184 kg.	POINT GIVE MAX.MOMENT		=	2.71 m.	MAX MOMENT		=	4853 kg-m.	d		=	7.6 cm.	p		=	0.00920	As	= pbd	=	11.5 cm.2	Ast	= 0.002*b*t	=	4.50 cm.2		DESIGN	ACTUAL	CHECK	DESIGN EFFECTIVE DEPTH	12.50	7.64 cm.	O.K.	SHEAR STRESS	5.43	2.81 ksc.	O.K.		DB	10	12	16	20	22	25	mm.	MAIN STEEL									SPACING		6.3	9.3	17.0	26.8	30.0	30.0	cm.	BOND STRESS		14.9	12.4	9.3	7.5	6.8	6.0	ksc.	ALLOWABLE BOND STRESS		11.00	11.00	11.00	11.00	11.00	11.00		BOND CHECKING		FAIL	FAIL	O.K	O.K	O.K	O.K		TEMPERATURE STEEL	RB	6	9	12	15			mm.			5.8	13.6	24.6	30.0			cm.		DB	15	cm.	THICKNESS OF STAIR				MAIN STEEL	DB	16	SPACING 15 cm.	TEMPERATURE STEEL	RB	9	SPACING 20 cm.	REACTION ON LEFT BEAM (Ra) =	3513	kg/m	REACTION ON RIGHT BEAM (Rb) =	3184	kg/m
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Fs (all)	0.5*Fy	=	2000 ksc.	SR24	Pmin	=	0.0025	SD30,40	Pmin	=	0.002	SD50	Pmin	=	0.0015	pmax	= 0.75*pb	=	0.0287	Beta		=	0.8	w1=1.4*DL1+1.7*LL		=	1014 ksm.	w2=1.4(DL1+DL2)+1.7*LL		=	1350 ksm.	w3=1.4*DL1+1.7*LL		=	1014 ksm.	REACTION (Ra)		=	3310 kg.	REACTION (Rb)		=	2929 kg.	POINT GIVE MAX.MOMENT		=	2.45 m.	MAX MOMENT		=	4067 kg-m.	d		=	7.0 cm.	p		=	0.00762	As	= pbd	=	9.5 cm.2	Ast	= 0.002*b*t	=	3.75 cm.2		DESIGN	ACTUAL	CHECK	DESIGN EFFECTIVE DEPTH	12.50	6.99 cm.	O.K.	SHEAR STRESS	5.43	2.65 ksc.	O.K.		DB	10	12	16	20	22	25	mm.	MAIN STEEL									SPACING		7.7	11.4	20.6	30.0	30.0	30.0	cm.	BOND STRESS		14.0	11.7	8.8	7.0	6.4	5.6	ksc.	ALLOWABLE BOND STRESS		11.00	11.00	11.00	11.00	11.00	11.00		BOND CHECKING		FAIL	FAIL	O.K	O.K	O.K	O.K		TEMPERATURE STEEL	RB	6	9	12	15			mm.			7.0	16.5	29.7	30.0			cm.		THICKNESS OF STAIR	15	cm.	MAIN STEEL	DB	16	SPACING 15 cm.	TEMPERATURE STEEL	RB	9	SPACING 20 cm.	REACTION ON LEFT BEAM (Ra) =	3310	kg/m	REACTION ON RIGHT BEAM (Rb) =	2929	kg/m
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รายงานการออกแบบ Design Note รายการคำนวณงานโครงสร้าง

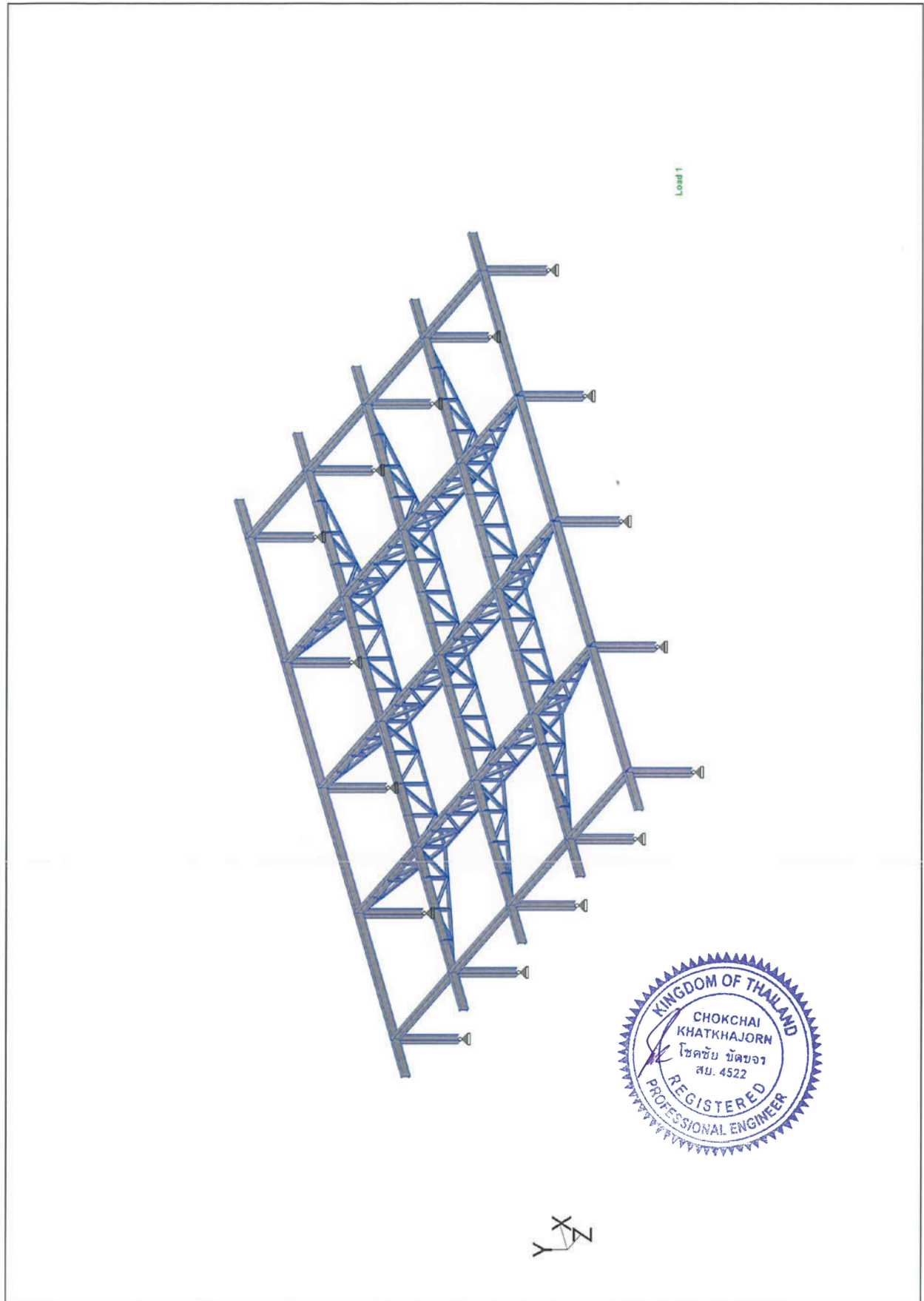
(สัญญาก่อสร้างอาคารทิศตะวันตก Final Detailed Design)

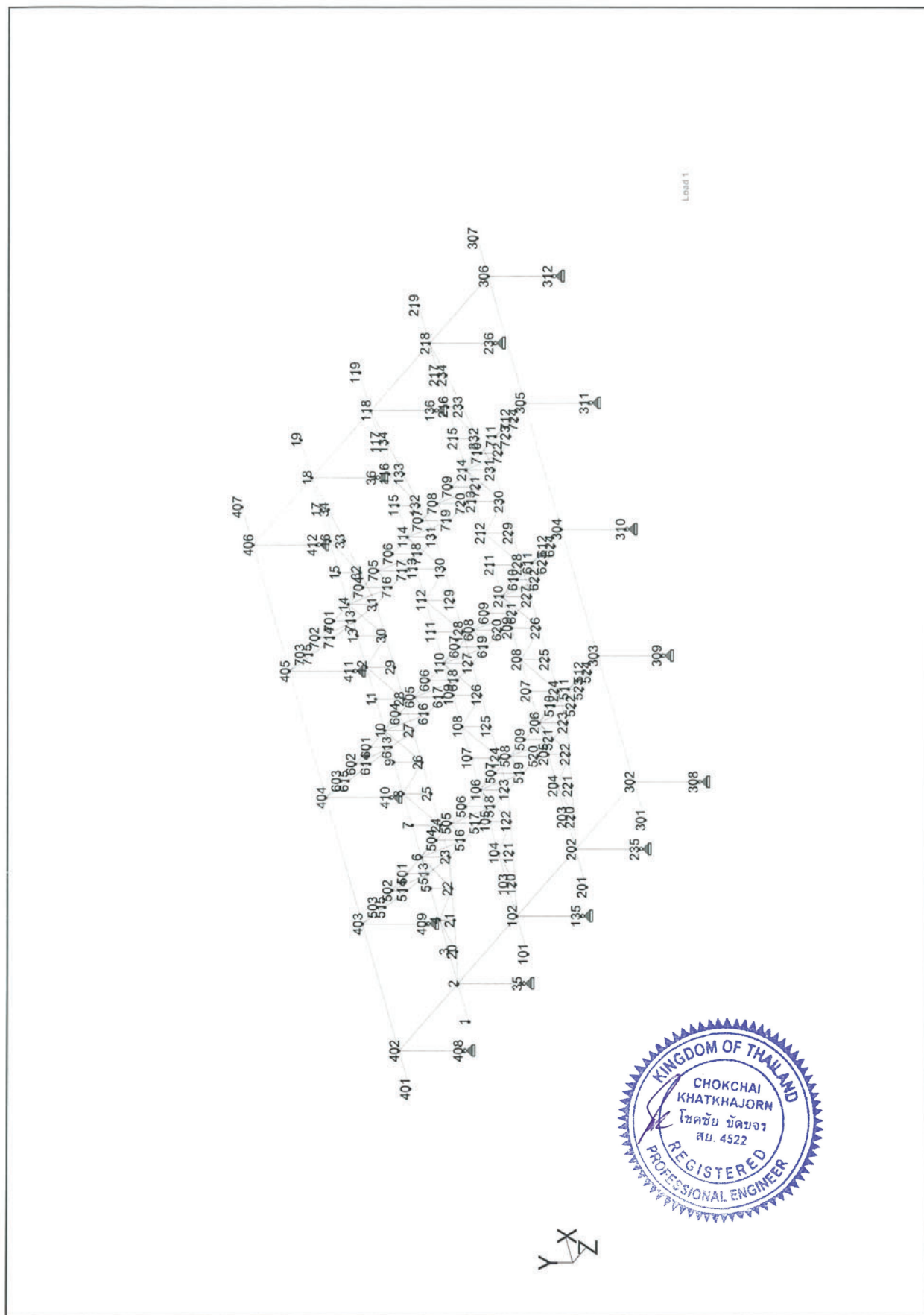
(ส่วนงานโครงสร้าง งานสถาปัตยกรรม และงานระบบหลัก)

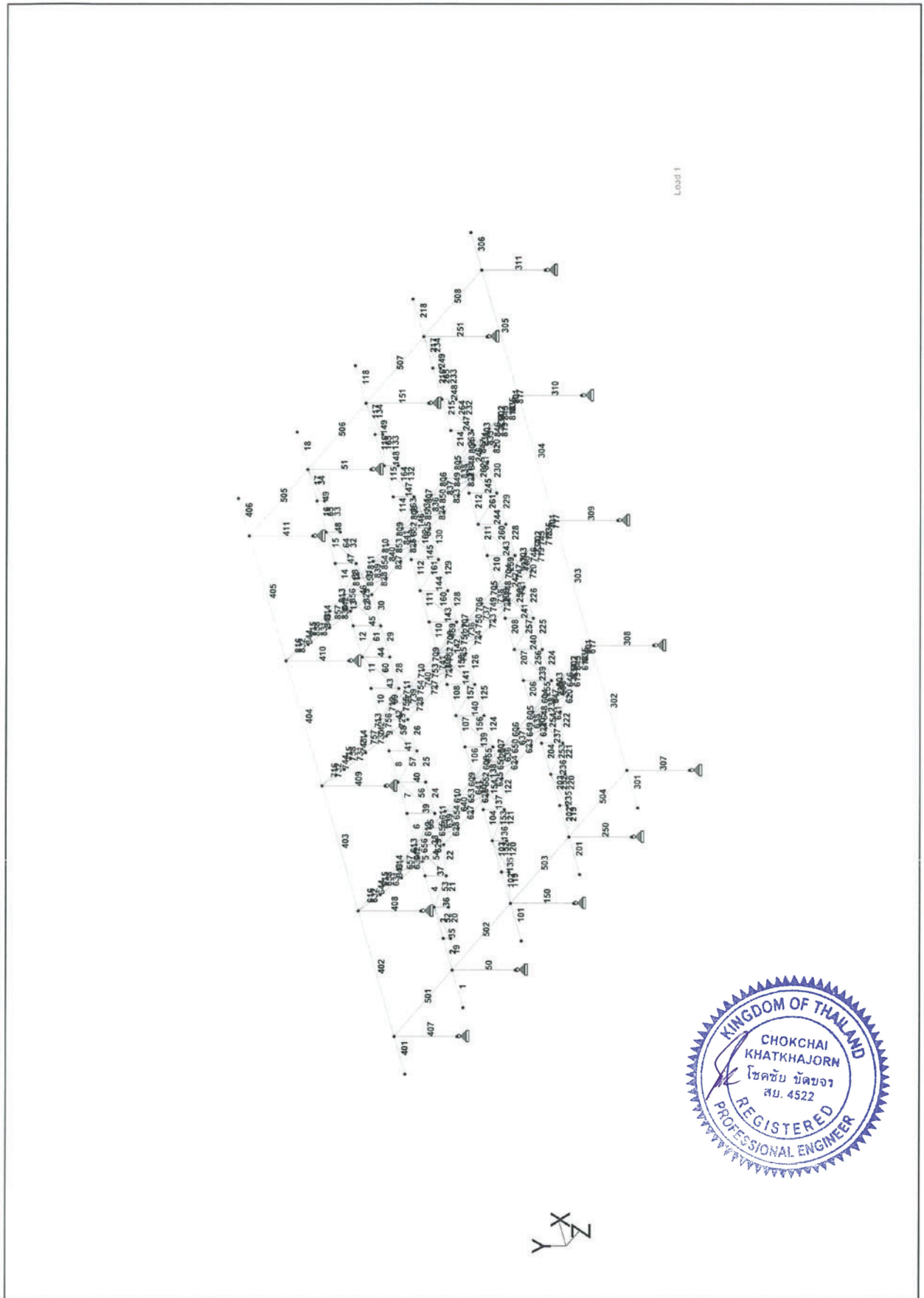
โครงการพัฒนาพื้นที่ส่วนขยายศูนย์ราชการเฉลิมพระเกียรติ ๘๐ พรรษา ๕ ธันวาคม ๒๕๕๐ พื้นที่โซน C

7. รายการคำนวณ โครงสร้างเหล็ก











รายงานการออกแบบ Design Note รายการคำนวณงานโครงสร้าง

(สัญญาก่อสร้างอาคารทิศตะวันตก Final Detailed Design)

(ส่วนงานโครงสร้าง งานสถาปัตยกรรม และงานระบบหลัก)

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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
33	19.000	-0.567	0.000
34	20.250	-0.500	0.000
35	1.500	-2.500	0.000
36	21.500	-2.500	0.000
101	0.000	0.000	4.600
102	1.500	0.000	4.600
103	2.750	0.000	4.600
104	4.000	0.000	4.600
105	5.250	0.000	4.600
106	6.500	0.000	4.600
107	7.750	0.000	4.600
108	9.000	0.000	4.600
109	10.250	0.000	4.600
110	11.500	0.000	4.600
111	12.750	0.000	4.600
112	14.000	0.000	4.600
113	15.250	0.000	4.600
114	16.500	0.000	4.600
115	17.750	0.000	4.600
116	19.000	0.000	4.600
117	20.250	0.000	4.600
118	21.500	0.000	4.600
119	23.000	0.000	4.600
120	2.750	-0.500	4.600
121	4.000	-0.567	4.600
122	5.250	-0.833	4.600
123	6.500	-1.100	4.600
124	7.750	-1.100	4.600
125	9.000	-1.100	4.600
126	10.250	-1.100	4.600
127	11.500	-1.100	4.600
128	12.750	-1.100	4.600
129	14.000	-1.100	4.600
130	15.250	-1.100	4.600
131	16.500	-1.100	4.600
132	17.750	-0.833	4.600
133	19.000	-0.567	4.600
134	20.250	-0.500	4.600
135	1.500	-2.500	4.600
136	21.500	-2.500	4.600
201	0.000	0.000	9.200
202	1.500	0.000	9.200
203	2.750	0.000	9.200
204	4.000	0.000	9.200
205	5.250	0.000	9.200
206	6.500	0.000	9.200
207	7.750	0.000	9.200
208	9.000	0.000	9.200
209	10.250	0.000	9.200
210	11.500	0.000	9.200
211	12.750	0.000	9.200
212	14.000	0.000	9.200
213	15.250	0.000	9.200
214	16.500	0.000	9.200
215	17.750	0.000	9.200
216	19.000	0.000	9.200
217	20.250	0.000	9.200
218	21.500	0.000	9.200
219	23.000	0.000	9.200

Job Information

Engineer	Checked	Approved
Name: Noppadon	Samit	Samit
Date: 2-Feb-15	3-Feb-15	3-Feb-15

Structure Type

SPACE FRAME

Number of Nodes	204	Highest Node	724
Number of Elements	399	Highest Beam	856

Number of Basic Load Cases	3
Number of Combination Load Cases	2

Included in this printout are data for:

All	The Whole Structure
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Included in this printout are results for load cases:

Type	L/C	Name
Primary	1	(DEAD LOAD - DL)
Primary	2	(LIVE LOAD - LL)
Primary	3	(WIND LOAD - WL)
Combination	4	(DL+LL)
Combination	5	0.75(DL+LL+WL)

Nodes

Node	X (m)	Y (m)	Z (m)
1	0.000	0.000	0.000
2	1.500	0.000	0.000
3	2.750	0.000	0.000
4	4.000	0.000	0.000
5	5.250	0.000	0.000
6	6.500	0.000	0.000
7	7.750	0.000	0.000
8	9.000	0.000	0.000
9	10.250	0.000	0.000
10	11.500	0.000	0.000
11	12.750	0.000	0.000
12	14.000	0.000	0.000
13	15.250	0.000	0.000
14	16.500	0.000	0.000
15	17.750	0.000	0.000
16	19.000	0.000	0.000
17	20.250	0.000	0.000
18	21.500	0.000	0.000
19	23.000	0.000	0.000
20	2.750	-0.500	0.000
21	4.000	-0.567	0.000
22	5.250	-0.833	0.000
23	6.500	-1.100	0.000
24	7.750	-1.100	0.000
25	9.000	-1.100	0.000
26	10.250	-1.100	0.000
27	11.500	-1.100	0.000
28	12.750	-1.100	0.000
29	14.000	-1.100	0.000
30	15.250	-1.100	0.000
31	16.500	-1.100	0.000
32	17.750	-0.833	0.000

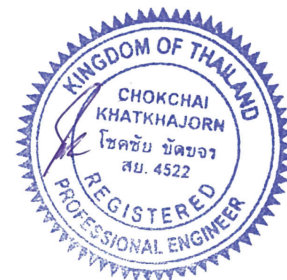


Nodes Cont...

Node	X (m)	Y (m)	Z (m)
519	6.500	-1.100	5.750
520	6.500	-1.100	6.900
521	6.500	-1.100	8.050
522	6.500	-0.833	10.350
523	6.500	-0.567	11.500
524	6.500	-0.300	12.650
601	11.500	0.000	-1.150
602	11.500	0.000	-2.300
603	11.500	0.000	-3.450
604	11.500	0.000	-1.150
605	11.500	0.000	2.300
606	11.500	0.000	3.450
607	11.500	0.000	5.750
608	11.500	0.000	6.900
609	11.500	0.000	8.050
610	11.500	0.000	10.350
611	11.500	0.000	11.500
612	11.500	0.000	12.650
613	11.500	-0.833	-1.150
614	11.500	-0.567	-2.300
615	11.500	-0.300	-3.450
616	11.500	-1.100	1.150
617	11.500	-1.100	2.300
618	11.500	-1.100	3.450
619	11.500	-1.100	5.750
620	11.500	-1.100	6.900
621	11.500	-1.100	8.050
622	11.500	-0.833	10.350
623	11.500	-0.567	11.500
624	11.500	-0.300	12.650
701	16.500	0.000	-1.150
702	16.500	0.000	-2.300
703	16.500	0.000	-3.450
704	16.500	0.000	1.150
705	16.500	0.000	2.300
706	16.500	0.000	3.450
707	16.500	0.000	5.750
708	16.500	0.000	6.900
709	16.500	0.000	8.050
710	16.500	0.000	10.350
711	16.500	0.000	11.500
712	16.500	0.000	12.650
713	16.500	-0.833	-1.150
714	16.500	-0.567	-2.300
715	16.500	-0.300	-3.450
716	16.500	-1.100	1.150
717	16.500	-1.100	2.300
718	16.500	-1.100	3.450
719	16.500	-1.100	5.750
720	16.500	-1.100	6.900
721	16.500	-1.100	8.050
722	16.500	-0.833	10.350
723	16.500	-0.567	11.500
724	16.500	-0.300	12.650

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
220	2.750	-0.300	9.200
221	4.000	-0.567	9.200
222	5.250	-0.833	9.200
223	6.500	-1.100	9.200
224	7.750	-1.100	9.200
225	9.000	-1.100	9.200
226	10.250	-1.100	9.200
227	11.500	-1.100	9.200
228	12.750	-1.100	9.200
229	14.000	-1.100	9.200
230	15.250	-1.100	9.200
231	16.500	-1.100	9.200
232	17.750	-0.833	9.200
233	19.000	-0.567	9.200
234	20.250	-0.300	9.200
235	1.500	-2.500	9.200
236	21.500	-2.500	9.200
301	0.000	0.000	13.800
302	1.500	0.000	13.800
303	3.000	0.000	13.800
304	4.500	0.000	13.800
305	6.000	0.000	13.800
306	7.500	0.000	13.800
307	9.000	0.000	13.800
308	10.500	0.000	13.800
309	12.000	0.000	13.800
310	13.500	0.000	13.800
311	15.000	0.000	13.800
312	16.500	0.000	13.800
401	0.000	0.000	-4.600
402	1.500	0.000	-4.600
403	3.000	0.000	-4.600
404	4.500	0.000	-4.600
405	6.000	0.000	-4.600
406	7.500	0.000	-4.600
407	9.000	0.000	-4.600
408	10.500	0.000	-4.600
409	12.000	0.000	-4.600
410	13.500	0.000	-4.600
411	15.000	0.000	-4.600
412	16.500	0.000	-4.600
501	0.000	0.000	-1.150
502	1.500	0.000	-2.300
503	3.000	0.000	-3.450
504	4.500	0.000	-1.150
505	6.000	0.000	2.300
506	7.500	0.000	3.450
507	9.000	0.000	5.750
508	10.500	0.000	6.900
509	12.000	0.000	8.050
510	13.500	0.000	10.350
511	15.000	0.000	11.500
512	16.500	0.000	12.650
513	18.000	-0.833	-1.150
514	19.500	-0.567	-2.300
515	21.000	-0.300	-3.450
516	22.500	-1.100	1.150
517	24.000	-1.100	2.300
518	25.500	-1.100	3.450



Beams Cont.:

Beam	Node A	Node B	Length (m)	Property	μ (degrees)
60	28	12	1.665	4	0
61	12	30	1.665	4	0
62	30	14	1.665	4	0
63	14	32	1.502	4	0
64	32	16	1.502	4	0
65	16	34	1.285	4	0
101	101	102	1.500	5	0
102	102	103	1.250	5	0
103	103	104	1.250	5	0
104	104	105	1.250	5	0
105	105	106	1.250	5	0
106	106	107	1.250	5	0
107	107	108	1.250	5	0
108	108	109	1.250	5	0
109	109	110	1.250	5	0
110	110	111	1.250	5	0
111	111	112	1.250	5	0
112	112	113	1.250	5	0
113	113	114	1.250	5	0
114	114	115	1.250	5	0
115	115	116	1.250	5	0
116	116	117	1.250	5	0
117	117	118	1.250	5	0
118	118	119	1.500	5	0
119	102	120	1.285	6	0
120	120	121	1.278	6	0
121	121	122	1.278	6	0
122	122	123	1.278	6	0
123	123	124	1.250	6	0
124	124	125	1.250	6	0
125	125	126	1.250	6	0
126	126	127	1.250	6	0
127	127	128	1.250	6	0
128	128	129	1.250	6	0
129	129	130	1.250	6	0
130	130	131	1.250	6	0
131	131	132	1.278	6	0
132	132	133	1.278	6	0
133	133	134	1.278	6	0
134	134	118	1.265	6	0
135	103	120	0.300	6	0
136	104	121	0.567	6	0
137	105	122	0.833	6	0
138	106	123	1.100	6	0
139	107	124	1.100	6	0
140	108	125	1.100	6	0
141	109	126	1.100	6	0
142	110	127	1.100	6	0
143	111	128	1.100	6	0
144	112	129	1.100	6	0
145	113	130	1.100	6	0
146	114	131	1.100	6	0
147	115	132	0.833	6	0
148	116	133	0.567	6	0
149	117	134	0.300	6	0
150	135	102	2.500	7	0
151	118	136	2.500	7	0
152	120	104	1.285	8	0
153	104	122	1.502	8	0

Beams

Beam	Node A	Node B	Length (m)	Property	μ (degrees)
1	1	2	1.500	1	0
2	2	3	1.250	1	0
3	3	4	1.250	1	0
4	4	5	1.250	1	0
5	5	6	1.250	1	0
6	6	7	1.250	1	0
7	7	8	1.250	1	0
8	8	9	1.250	1	0
9	9	10	1.250	1	0
10	10	11	1.250	1	0
11	11	12	1.250	1	0
12	12	13	1.250	1	0
13	13	14	1.250	1	0
14	14	15	1.250	1	0
15	15	16	1.250	1	0
16	16	17	1.250	1	0
17	17	18	1.250	1	0
18	18	19	1.500	1	0
19	2	20	1.285	2	0
20	20	21	1.278	2	0
21	21	22	1.278	2	0
22	22	23	1.278	2	0
23	23	24	1.250	2	0
24	24	25	1.250	2	0
25	25	26	1.250	2	0
26	26	27	1.250	2	0
27	27	28	1.250	2	0
28	28	29	1.250	2	0
29	29	30	1.250	2	0
30	30	31	1.250	2	0
31	31	32	1.278	2	0
32	32	33	1.278	2	0
33	33	34	1.278	2	0
34	34	18	1.285	2	0
35	3	20	0.300	2	0
36	4	21	0.567	2	0
37	5	22	0.833	2	0
38	6	23	1.100	2	0
39	7	24	1.100	2	0
40	8	25	1.100	2	0
41	9	26	1.100	2	0
42	10	27	1.100	2	0
43	11	28	1.100	2	0
44	12	29	1.100	2	0
45	13	30	1.100	2	0
46	14	31	1.100	2	0
47	15	32	0.833	2	0
48	16	33	0.567	2	0
49	17	34	0.300	2	0
50	35	2	2.500	3	0
51	18	36	2.500	3	0
52	20	4	1.285	4	0
53	4	22	1.502	4	0
54	22	6	1.502	4	0
55	6	24	1.665	4	0
56	24	8	1.665	4	0
57	8	26	1.665	4	0
58	26	10	1.665	4	0
59	10	28	1.665	4	0





รายงานการออกแบบ Design Note รายการคำนวณงานโครงสร้าง

(สัญญาก่อสร้างอาคารทิศตะวันตก Final Detailed Design)

(ส่วนงานโครงสร้าง งานสถาปัตยกรรม และงานระบบหลัก)

โครงการพัฒนาพื้นที่ส่วนขยายศูนย์ราชการเฉลิมพระเกียรติ ๘๐ พรรษา ๕ ธันวาคม ๒๕๕๐ พื้นที่โซน C

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
248	216	233	0.567	10	0
249	217	234	0.300	10	0
250	235	202	2.500	11	0
251	218	236	2.500	11	0
252	220	204	1.285	12	0
253	204	222	1.502	12	0
254	222	206	1.502	12	0
255	206	224	1.665	12	0
256	224	208	1.665	12	0
257	208	226	1.665	12	0
258	226	210	1.665	12	0
259	210	228	1.665	12	0
260	228	212	1.665	12	0
261	212	230	1.665	12	0
262	230	214	1.665	12	0
263	214	232	1.502	12	0
264	232	216	1.502	12	0
265	216	234	1.205	12	0
301	301	302	1.500	13	0
302	302	303	5.000	13	0
303	303	304	5.000	13	0
304	304	305	5.000	13	0
305	305	306	5.000	13	0
306	306	307	1.500	13	0
307	307	308	2.500	14	0
308	308	309	2.500	14	0
309	309	310	2.500	14	0
310	305	311	2.500	14	0
311	306	312	2.500	14	0
401	401	402	1.500	15	0
402	402	403	5.000	15	0
403	403	404	5.000	15	0
404	404	405	5.000	15	0
405	405	406	5.000	15	0
406	406	407	1.500	15	0
407	402	408	2.500	16	0
408	403	409	2.500	16	0
409	404	410	2.500	16	0
410	405	411	2.500	16	0
411	406	412	2.500	16	0
501	402	2	4.600	17	0
502	2	102	4.600	17	0
503	102	202	4.600	17	0
504	202	302	4.600	17	0
505	406	18	4.600	17	0
506	18	118	4.600	17	0
507	118	218	4.600	17	0
508	218	306	4.600	17	0
601	303	512	1.150	18	0
602	512	511	1.150	18	0
603	511	510	1.150	18	0
604	510	206	1.150	18	0
605	206	509	1.150	18	0
606	509	508	1.150	18	0
607	508	507	1.150	18	0
608	507	106	1.150	18	0
609	106	506	1.150	18	0
610	506	505	1.150	18	0
611	505	504	1.150	18	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
154	122	106	1.502	8	0
155	106	124	1.665	8	0
156	124	108	1.665	8	0
157	108	126	1.665	8	0
158	126	110	1.665	8	0
159	110	128	1.665	8	0
160	128	112	1.665	8	0
161	112	130	1.665	8	0
162	130	114	1.665	8	0
163	114	132	1.502	8	0
164	132	116	1.502	8	0
165	116	134	1.285	8	0
201	201	202	1.500	9	0
202	202	203	1.250	9	0
203	203	204	1.250	9	0
204	204	205	1.250	9	0
205	205	206	1.250	9	0
206	206	207	1.250	9	0
207	207	208	1.250	9	0
208	208	209	1.250	9	0
209	209	210	1.250	9	0
210	210	211	1.250	9	0
211	211	212	1.250	9	0
212	212	213	1.250	9	0
213	213	214	1.250	9	0
214	214	215	1.250	9	0
215	215	216	1.250	9	0
216	216	217	1.250	9	0
217	217	218	1.250	9	0
218	218	219	1.500	9	0
219	202	220	1.285	10	0
220	220	221	1.278	10	0
221	221	222	1.278	10	0
222	222	223	1.278	10	0
223	223	224	1.250	10	0
224	224	225	1.250	10	0
225	225	226	1.250	10	0
226	226	227	1.250	10	0
227	227	228	1.250	10	0
228	228	229	1.250	10	0
229	229	230	1.250	10	0
230	230	231	1.250	10	0
231	231	232	1.278	10	0
232	232	233	1.278	10	0
233	233	234	1.278	10	0
234	234	235	1.285	10	0
235	203	220	0.300	10	0
236	204	221	0.567	10	0
237	205	222	0.833	10	0
238	206	223	1.000	10	0
239	207	224	1.000	10	0
240	208	225	1.000	10	0
241	209	226	1.000	10	0
242	210	227	1.000	10	0
243	211	228	1.000	10	0
244	212	229	1.000	10	0
245	213	230	1.000	10	0
246	214	231	1.000	10	0
247	215	232	0.833	10	0



Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
713	10	601	1.150	20	0
714	601	602	1.150	20	0
715	602	603	1.150	20	0
716	603	404	1.150	20	0
717	304	624	1.188	21	0
718	624	623	1.181	21	0
719	623	622	1.180	21	0
720	622	227	1.181	21	0
721	227	621	1.150	21	0
722	621	620	1.150	21	0
723	620	619	1.150	21	0
724	619	127	1.150	21	0
725	127	618	1.150	21	0
726	618	617	1.150	21	0
727	617	616	1.150	21	0
728	616	27	1.150	21	0
729	27	613	1.181	21	0
730	613	614	1.180	21	0
731	614	615	1.181	21	0
732	615	404	1.188	21	0
733	610	622	0.833	21	0
734	611	623	0.567	21	0
735	612	624	0.300	21	0
736	607	619	1.100	21	0
737	608	620	1.100	21	0
738	609	621	1.100	21	0
739	604	616	1.100	21	0
740	605	617	1.100	21	0
741	606	618	1.100	21	0
742	601	613	0.833	21	0
743	602	614	0.567	21	0
744	603	615	0.300	21	0
745	624	611	1.188	21	0
746	611	622	1.420	21	0
747	622	210	1.420	21	0
748	210	621	1.591	21	0
749	621	608	1.591	21	0
750	608	619	1.591	21	0
751	619	110	1.591	21	0
752	110	618	1.591	21	0
753	618	605	1.591	21	0
754	605	616	1.591	21	0
755	616	10	1.591	21	0
756	10	613	1.420	21	0
757	613	602	1.420	21	0
758	602	615	1.188	21	0
801	305	712	1.150	22	0
802	712	711	1.150	22	0
803	711	710	1.150	22	0
804	710	214	1.150	22	0
805	214	709	1.150	22	0
806	709	708	1.150	22	0
807	708	707	1.150	22	0
808	707	114	1.150	22	0
809	114	706	1.150	22	0
810	706	705	1.150	22	0
811	705	704	1.150	22	0
812	704	14	1.150	22	0
813	14	701	1.150	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
612	504	6	1.150	18	0
613	6	501	1.150	18	0
614	501	502	1.150	18	0
615	502	503	1.150	18	0
616	503	403	1.150	18	0
617	303	524	1.188	19	0
618	524	523	1.181	19	0
619	523	522	1.180	19	0
620	522	223	1.181	19	0
621	223	521	1.150	19	0
622	521	520	1.150	19	0
623	520	519	1.150	19	0
624	519	123	1.150	19	0
625	123	518	1.150	19	0
626	518	517	1.150	19	0
627	517	516	1.150	19	0
628	516	23	1.150	19	0
629	23	513	1.181	19	0
630	513	514	1.180	19	0
631	514	515	1.181	19	0
632	515	403	1.188	19	0
633	510	522	0.833	19	0
634	511	523	0.567	19	0
635	512	524	0.300	19	0
636	507	519	1.100	19	0
637	508	520	1.100	19	0
638	509	521	1.100	19	0
639	504	516	1.100	19	0
640	505	517	1.100	19	0
641	506	518	1.100	19	0
642	501	513	0.833	19	0
643	502	514	0.567	19	0
644	503	515	0.300	19	0
645	524	511	1.188	19	0
646	511	522	1.420	19	0
647	522	206	1.420	19	0
648	206	521	1.591	19	0
649	521	508	1.591	19	0
650	508	519	1.591	19	0
651	519	106	1.591	19	0
652	106	518	1.591	19	0
653	518	505	1.591	19	0
654	505	516	1.591	19	0
655	516	6	1.591	19	0
656	6	513	1.420	19	0
657	513	502	1.420	19	0
658	502	515	1.188	19	0
701	304	612	1.150	20	0
702	612	611	1.150	20	0
703	611	610	1.150	20	0
704	610	210	1.150	20	0
705	210	609	1.150	20	0
706	609	608	1.150	20	0
707	608	607	1.150	20	0
708	607	110	1.150	20	0
709	110	606	1.150	20	0
710	606	605	1.150	20	0
711	605	604	1.150	20	0
712	604	10	1.150	20	0



Section Properties

Prop	Section	Area (cm ²)	I _{yy} (cm ⁴)	I _{xx} (cm ⁴)	J (cm ⁴)	Material
1	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
2	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1
3	H250X250X9	91.430	3.65E+3	10.7E+3	51.468	MATERIAL 1
4	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1
5	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
6	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1
7	H250X250X9	91.430	3.65E+3	10.7E+3	51.468	MATERIAL 1
8	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1
9	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
10	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1
11	H250X250X9	91.430	3.65E+3	10.7E+3	51.468	MATERIAL 1
12	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1
13	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
14	H250X250X9	91.430	3.65E+3	10.7E+3	51.468	MATERIAL 1
15	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
16	H250X250X9	91.430	3.65E+3	10.7E+3	51.468	MATERIAL 1
17	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
18	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
19	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1
20	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
21	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1
22	H300X150X6.5	46.780	508.000	7.21E+3	9.954	MATERIAL 1
23	H100X100X6	21.590	134.000	378.000	4.076	MATERIAL 1

Materials

Mat	Name	E (kN/mm ²)	v	Density (kg/m ³)	α (°C)
1	STEEL	205.000	0.300	7.85E+3	12E-6
2	STAINLESSSTEEL	197.930	0.300	7.85E+3	18E-6
3	ALUMINUM	68.948	0.330	2.71E+3	22E-6
4	MATERIAL 1	205.000	0.300	7.85E+3	0.000
5	CONCRETE	21.718	0.170	2.4E+3	10E-6

Supports

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN/m/deg)	rY (kN/m/deg)	rZ (kN/m/deg)
35	Fixed	Fixed	Fixed	-	-	-
36	Fixed	Fixed	Fixed	-	-	-
135	Fixed	Fixed	Fixed	-	-	-
136	Fixed	Fixed	Fixed	-	-	-
235	Fixed	Fixed	Fixed	-	-	-
236	Fixed	Fixed	Fixed	-	-	-
308	Fixed	Fixed	Fixed	-	-	-
309	Fixed	Fixed	Fixed	-	-	-
310	Fixed	Fixed	Fixed	-	-	-
311	Fixed	Fixed	Fixed	-	-	-
312	Fixed	Fixed	Fixed	-	-	-
408	Fixed	Fixed	Fixed	-	-	-
409	Fixed	Fixed	Fixed	-	-	-
410	Fixed	Fixed	Fixed	-	-	-
411	Fixed	Fixed	Fixed	-	-	-
412	Fixed	Fixed	Fixed	-	-	-

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
814	701	702	1.150	22	0
815	702	703	1.150	22	0
816	703	405	1.150	22	0
817	305	724	1.188	23	0
818	724	723	1.181	23	0
819	723	722	1.180	23	0
820	722	231	1.181	23	0
821	231	721	1.150	23	0
822	721	720	1.150	23	0
823	720	719	1.150	23	0
824	719	131	1.150	23	0
825	131	718	1.150	23	0
826	718	717	1.150	23	0
827	717	716	1.150	23	0
828	716	31	1.150	23	0
829	31	713	1.181	23	0
830	713	714	1.180	23	0
831	714	715	1.181	23	0
832	715	405	1.188	23	0
833	710	722	0.833	23	0
834	711	723	0.567	23	0
835	712	724	0.300	23	0
836	707	719	1.100	23	0
837	708	720	1.100	23	0
838	709	721	1.100	23	0
839	704	716	1.100	23	0
840	705	717	1.100	23	0
841	706	718	1.100	23	0
842	701	713	0.833	23	0
843	702	714	0.567	23	0
844	703	715	0.300	23	0
845	724	711	1.188	23	0
846	711	722	1.420	23	0
847	722	714	1.420	23	0
848	214	721	1.591	23	0
849	721	708	1.591	23	0
850	708	719	1.591	23	0
851	719	114	1.591	23	0
852	114	718	1.591	23	0
853	718	705	1.591	23	0
854	705	716	1.591	23	0
855	716	14	1.591	23	0
856	14	713	1.420	23	0
857	713	702	1.420	23	0
858	702	715	1.188	23	0



Beam Loads : 1 (DEAD LOAD - DL) Cont...

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
205	UNI	GY	-230.000	-	-	-	-
206	UNI	GY	-230.000	-	-	-	-
207	UNI	GY	-230.000	-	-	-	-
208	UNI	GY	-230.000	-	-	-	-
209	UNI	GY	-230.000	-	-	-	-
210	UNI	GY	-230.000	-	-	-	-
211	UNI	GY	-230.000	-	-	-	-
212	UNI	GY	-230.000	-	-	-	-
213	UNI	GY	-230.000	-	-	-	-
214	UNI	GY	-230.000	-	-	-	-
215	UNI	GY	-230.000	-	-	-	-
216	UNI	GY	-230.000	-	-	-	-
217	UNI	GY	-230.000	-	-	-	-
218	UNI	GY	-230.000	-	-	-	-
301	UNI	GY	-115.000	-	-	-	-
302	UNI	GY	-115.000	-	-	-	-
303	UNI	GY	-115.000	-	-	-	-
304	UNI	GY	-115.000	-	-	-	-
305	UNI	GY	-115.000	-	-	-	-
306	UNI	GY	-115.000	-	-	-	-
401	UNI	GY	-115.000	-	-	-	-
402	UNI	GY	-115.000	-	-	-	-
403	UNI	GY	-115.000	-	-	-	-
404	UNI	GY	-115.000	-	-	-	-
405	UNI	GY	-115.000	-	-	-	-
406	UNI	GY	-115.000	-	-	-	-

Selfweight : 1 (DEAD LOAD - DL)

Direction	Factor
Y	-1.000

Beam Loads : 2 (LIVE LOAD - LL)

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
1	UNI	GY	-230.000	-	-	-	-
2	UNI	GY	-230.000	-	-	-	-
3	UNI	GY	-230.000	-	-	-	-
4	UNI	GY	-230.000	-	-	-	-
5	UNI	GY	-230.000	-	-	-	-
6	UNI	GY	-230.000	-	-	-	-
7	UNI	GY	-230.000	-	-	-	-
8	UNI	GY	-230.000	-	-	-	-
9	UNI	GY	-230.000	-	-	-	-
10	UNI	GY	-230.000	-	-	-	-
11	UNI	GY	-230.000	-	-	-	-
12	UNI	GY	-230.000	-	-	-	-
13	UNI	GY	-230.000	-	-	-	-
14	UNI	GY	-230.000	-	-	-	-
15	UNI	GY	-230.000	-	-	-	-
16	UNI	GY	-230.000	-	-	-	-
17	UNI	GY	-230.000	-	-	-	-
18	UNI	GY	-230.000	-	-	-	-
101	UNI	GY	-230.000	-	-	-	-
102	UNI	GY	-230.000	-	-	-	-
103	UNI	GY	-230.000	-	-	-	-

Basic Load Cases

Number	Name
1	(DEAD LOAD - DL)
2	(LIVE LOAD - LL)
3	(WIND LOAD - WL)

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
4	(DL + LL)	1	(DEAD LOAD - DL)	1.00
5	(0.75DL + LL + WL)	2	(LIVE LOAD - LL)	1.00
		1	(DEAD LOAD - DL)	0.75
		2	(LIVE LOAD - LL)	0.75
		3	(WIND LOAD - WL)	0.75

Beam Loads : 1 (DEAD LOAD - DL)

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
1	UNI	GY	-230.000	-	-	-	-
2	UNI	GY	-230.000	-	-	-	-
3	UNI	GY	-230.000	-	-	-	-
4	UNI	GY	-230.000	-	-	-	-
5	UNI	GY	-230.000	-	-	-	-
6	UNI	GY	-230.000	-	-	-	-
7	UNI	GY	-230.000	-	-	-	-
8	UNI	GY	-230.000	-	-	-	-
9	UNI	GY	-230.000	-	-	-	-
10	UNI	GY	-230.000	-	-	-	-
11	UNI	GY	-230.000	-	-	-	-
12	UNI	GY	-230.000	-	-	-	-
13	UNI	GY	-230.000	-	-	-	-
14	UNI	GY	-230.000	-	-	-	-
15	UNI	GY	-230.000	-	-	-	-
16	UNI	GY	-230.000	-	-	-	-
17	UNI	GY	-230.000	-	-	-	-
18	UNI	GY	-230.000	-	-	-	-
101	UNI	GY	-230.000	-	-	-	-
102	UNI	GY	-230.000	-	-	-	-
103	UNI	GY	-230.000	-	-	-	-
104	UNI	GY	-230.000	-	-	-	-
105	UNI	GY	-230.000	-	-	-	-
106	UNI	GY	-230.000	-	-	-	-
107	UNI	GY	-230.000	-	-	-	-
108	UNI	GY	-230.000	-	-	-	-
109	UNI	GY	-230.000	-	-	-	-
110	UNI	GY	-230.000	-	-	-	-
111	UNI	GY	-230.000	-	-	-	-
112	UNI	GY	-230.000	-	-	-	-
113	UNI	GY	-230.000	-	-	-	-
114	UNI	GY	-230.000	-	-	-	-
115	UNI	GY	-230.000	-	-	-	-
116	UNI	GY	-230.000	-	-	-	-
117	UNI	GY	-230.000	-	-	-	-
118	UNI	GY	-230.000	-	-	-	-
201	UNI	GY	-230.000	-	-	-	-
202	UNI	GY	-230.000	-	-	-	-
203	UNI	GY	-230.000	-	-	-	-
204	UNI	GY	-230.000	-	-	-	-



Beam Loads : 3 (WIND LOAD - WL)

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
1	UNI	kg/m	GY	736.000	-	-	-
2	UNI	kg/m	GY	736.000	-	-	-
3	UNI	kg/m	GY	736.000	-	-	-
4	UNI	kg/m	GY	736.000	-	-	-
5	UNI	kg/m	GY	736.000	-	-	-
6	UNI	kg/m	GY	736.000	-	-	-
7	UNI	kg/m	GY	736.000	-	-	-
8	UNI	kg/m	GY	736.000	-	-	-
9	UNI	kg/m	GY	736.000	-	-	-
10	UNI	kg/m	GY	736.000	-	-	-
11	UNI	kg/m	GY	736.000	-	-	-
12	UNI	kg/m	GY	736.000	-	-	-
13	UNI	kg/m	GY	736.000	-	-	-
14	UNI	kg/m	GY	736.000	-	-	-
15	UNI	kg/m	GY	736.000	-	-	-
16	UNI	kg/m	GY	736.000	-	-	-
17	UNI	kg/m	GY	736.000	-	-	-
18	UNI	kg/m	GY	736.000	-	-	-
101	UNI	kg/m	GY	736.000	-	-	-
102	UNI	kg/m	GY	736.000	-	-	-
103	UNI	kg/m	GY	736.000	-	-	-
104	UNI	kg/m	GY	736.000	-	-	-
105	UNI	kg/m	GY	736.000	-	-	-
106	UNI	kg/m	GY	736.000	-	-	-
107	UNI	kg/m	GY	736.000	-	-	-
108	UNI	kg/m	GY	736.000	-	-	-
109	UNI	kg/m	GY	736.000	-	-	-
110	UNI	kg/m	GY	736.000	-	-	-
111	UNI	kg/m	GY	736.000	-	-	-
112	UNI	kg/m	GY	736.000	-	-	-
113	UNI	kg/m	GY	736.000	-	-	-
114	UNI	kg/m	GY	736.000	-	-	-
115	UNI	kg/m	GY	736.000	-	-	-
116	UNI	kg/m	GY	736.000	-	-	-
117	UNI	kg/m	GY	736.000	-	-	-
118	UNI	kg/m	GY	736.000	-	-	-
201	UNI	kg/m	GY	736.000	-	-	-
202	UNI	kg/m	GY	736.000	-	-	-
203	UNI	kg/m	GY	736.000	-	-	-
204	UNI	kg/m	GY	736.000	-	-	-
205	UNI	kg/m	GY	736.000	-	-	-
206	UNI	kg/m	GY	736.000	-	-	-
207	UNI	kg/m	GY	736.000	-	-	-
208	UNI	kg/m	GY	736.000	-	-	-
209	UNI	kg/m	GY	736.000	-	-	-
210	UNI	kg/m	GY	736.000	-	-	-
211	UNI	kg/m	GY	736.000	-	-	-
212	UNI	kg/m	GY	736.000	-	-	-
213	UNI	kg/m	GY	736.000	-	-	-
214	UNI	kg/m	GY	736.000	-	-	-
215	UNI	kg/m	GY	736.000	-	-	-
216	UNI	kg/m	GY	736.000	-	-	-
217	UNI	kg/m	GY	736.000	-	-	-
218	UNI	kg/m	GY	736.000	-	-	-
301	UNI	kg/m	GY	368.000	-	-	-
302	UNI	kg/m	GY	368.000	-	-	-
303	UNI	kg/m	GY	368.000	-	-	-
304	UNI	kg/m	GY	368.000	-	-	-
305	UNI	kg/m	GY	368.000	-	-	-

Beam Loads : 2 (LIVE LOAD - LL) Cont...

Beam	Type	Direction	Fa	Da (m)	Fb	Db	Ecc. (m)
104	UNI	kg/m	GY	-230.000	-	-	-
105	UNI	kg/m	GY	-230.000	-	-	-
106	UNI	kg/m	GY	-230.000	-	-	-
107	UNI	kg/m	GY	-230.000	-	-	-
108	UNI	kg/m	GY	-230.000	-	-	-
109	UNI	kg/m	GY	-230.000	-	-	-
110	UNI	kg/m	GY	-230.000	-	-	-
111	UNI	kg/m	GY	-230.000	-	-	-
112	UNI	kg/m	GY	-230.000	-	-	-
113	UNI	kg/m	GY	-230.000	-	-	-
114	UNI	kg/m	GY	-230.000	-	-	-
115	UNI	kg/m	GY	-230.000	-	-	-
116	UNI	kg/m	GY	-230.000	-	-	-
117	UNI	kg/m	GY	-230.000	-	-	-
118	UNI	kg/m	GY	-230.000	-	-	-
201	UNI	kg/m	GY	-230.000	-	-	-
202	UNI	kg/m	GY	-230.000	-	-	-
203	UNI	kg/m	GY	-230.000	-	-	-
204	UNI	kg/m	GY	-230.000	-	-	-
205	UNI	kg/m	GY	-230.000	-	-	-
206	UNI	kg/m	GY	-230.000	-	-	-
207	UNI	kg/m	GY	-230.000	-	-	-
208	UNI	kg/m	GY	-230.000	-	-	-
209	UNI	kg/m	GY	-230.000	-	-	-
210	UNI	kg/m	GY	-230.000	-	-	-
211	UNI	kg/m	GY	-230.000	-	-	-
212	UNI	kg/m	GY	-230.000	-	-	-
213	UNI	kg/m	GY	-230.000	-	-	-
214	UNI	kg/m	GY	-230.000	-	-	-
215	UNI	kg/m	GY	-230.000	-	-	-
216	UNI	kg/m	GY	-230.000	-	-	-
217	UNI	kg/m	GY	-230.000	-	-	-
218	UNI	kg/m	GY	-230.000	-	-	-
301	UNI	kg/m	GY	-115.000	-	-	-
302	UNI	kg/m	GY	-115.000	-	-	-
303	UNI	kg/m	GY	-115.000	-	-	-
304	UNI	kg/m	GY	-115.000	-	-	-
305	UNI	kg/m	GY	-115.000	-	-	-
306	UNI	kg/m	GY	-115.000	-	-	-
401	UNI	kg/m	GY	-115.000	-	-	-
402	UNI	kg/m	GY	-115.000	-	-	-
403	UNI	kg/m	GY	-115.000	-	-	-
404	UNI	kg/m	GY	-115.000	-	-	-
405	UNI	kg/m	GY	-115.000	-	-	-
406	UNI	kg/m	GY	-115.000	-	-	-



Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	R _X (deg)	R _Y (deg)	R _Z (deg)
21	LIVE LOAD	-0.000	-4.531	0.230	4.536	0.037	-0.000	-0.000
31	WIND LOAD	0.000	14.498	-0.735	14.516	-0.118	0.000	0.000
41	DL+LL	-0.000	-12.452	0.630	12.468	0.101	-0.000	-0.000
50.75	DL+LL+	0.000	1.534	-0.079	1.536	-0.013	0.000	0.000
11	DEAD LOAD	-0.077	-7.798	0.378	7.808	0.059	0.002	0.011
21	LIVE LOAD	-0.044	-4.470	0.217	4.475	0.034	0.001	0.006
31	WIND LOAD	0.141	14.303	-0.695	14.320	-0.109	-0.003	-0.019
41	DL+LL	-0.121	-12.268	0.595	12.283	0.093	0.003	0.017
50.75	DL+LL+	0.015	1.526	-0.075	1.528	-0.012	-0.000	-0.001
12	DEAD LOAD	-0.155	-7.434	0.342	7.443	0.053	0.001	0.024
21	LIVE LOAD	-0.088	-4.266	0.197	4.271	0.031	0.001	0.014
31	WIND LOAD	0.282	13.651	-0.630	13.669	-0.099	-0.002	-0.043
41	DL+LL	-0.243	-11.700	0.539	11.715	0.064	0.002	0.038
50.75	DL+LL+	0.029	1.464	-0.068	1.466	-0.011	-0.000	-0.004
13	DEAD LOAD	-0.224	-6.750	0.309	6.761	0.048	0.001	0.037
21	LIVE LOAD	-0.127	-3.876	0.178	3.882	0.028	0.001	0.021
31	WIND LOAD	0.407	12.404	-0.569	12.423	-0.089	-0.003	-0.067
41	DL+LL	-0.351	-10.626	0.487	10.643	0.076	0.002	0.058
50.75	DL+LL+	0.042	1.333	-0.082	1.335	-0.010	-0.000	-0.007
14	DEAD LOAD	-0.292	-5.852	0.292	5.866	0.047	-0.000	0.045
21	LIVE LOAD	-0.166	-3.369	0.169	3.367	0.027	-0.000	0.025
31	WIND LOAD	0.532	10.748	-0.539	10.775	-0.087	-0.000	-0.081
41	DL+LL	-0.459	-9.210	0.461	9.233	0.074	-0.000	0.070
50.75	DL+LL+	0.055	1.153	-0.059	1.156	-0.010	-0.000	-0.008
15	DEAD LOAD	-0.350	-4.791	0.240	4.810	0.043	0.004	0.054
21	LIVE LOAD	-0.199	-2.766	0.138	2.777	0.025	0.002	0.030
31	WIND LOAD	0.638	8.852	-0.442	8.885	-0.079	-0.008	-0.097
41	DL+LL	-0.549	-7.557	0.378	7.586	0.067	0.007	0.084
50.75	DL+LL+	0.066	0.971	-0.048	0.974	-0.009	-0.001	-0.009
16	DEAD LOAD	-0.408	-3.471	0.134	3.498	0.037	0.005	0.070
21	LIVE LOAD	-0.202	-2.021	0.077	2.035	0.022	0.003	0.040
31	WIND LOAD	0.744	6.466	-0.246	6.513	-0.069	-0.009	-0.128
41	DL+LL	-0.640	-5.492	0.211	5.533	0.059	0.006	0.110
50.75	DL+LL+	0.078	0.730	-0.027	0.735	-0.008	-0.001	-0.014
17	DEAD LOAD	-0.429	-1.741	0.033	1.793	0.026	0.004	0.083
21	LIVE LOAD	-0.246	-1.021	0.019	1.050	0.015	0.002	0.049
31	WIND LOAD	0.787	3.267	-0.060	3.361	-0.049	-0.007	-0.156
41	DL+LL	-0.675	-2.762	0.051	2.844	0.041	0.006	0.132
50.75	DL+LL+	0.084	0.379	-0.006	0.388	-0.005	-0.001	-0.018
18	DEAD LOAD	-0.444	-0.035	0.001	0.445	-0.000	-0.002	0.046
21	LIVE LOAD	-0.255	-0.021	0.000	0.256	0.000	0.000	0.026
31	WIND LOAD	0.816	0.068	-0.001	0.819	-0.000	0.004	0.085
41	DL+LL	-0.699	-0.056	0.001	0.701	-0.000	-0.003	0.073
50.75	DL+LL+	0.088	0.009	0.000	0.088	0.000	0.000	-0.009
19	DEAD LOAD	-0.444	1.049	0.058	1.141	-0.000	-0.002	0.041
21	LIVE LOAD	-0.255	0.559	0.033	0.615	0.000	-0.001	0.022
31	WIND LOAD	0.816	-1.789	-0.105	1.969	-0.000	0.004	-0.069
41	DL+LL	-0.699	1.608	0.091	1.756	-0.000	-0.003	0.062
50.75	DL+LL+	0.088	-0.135	-0.011	0.162	-0.000	0.000	-0.005
20	DEAD LOAD	-0.048	-1.747	-0.104	1.751	0.026	-0.001	-0.081
21	LIVE LOAD	0.025	-1.024	-0.051	1.026	0.015	-0.001	-0.047
31	WIND LOAD	-0.081	3.278	0.196	3.284	-0.049	0.002	0.150
41	DL+LL	0.074	-2.771	-0.166	2.777	0.042	-0.002	-0.127
50.75	DL+LL+	-0.005	0.380	0.023	0.381	-0.006	0.000	0.017
21	LIVE LOAD	-0.234	-3.472	-0.232	3.487	0.037	-0.001	-0.067
31	WIND LOAD	-0.135	-2.020	-0.135	2.029	0.021	-0.001	-0.038
41	DL+LL	0.433	6.465	0.433	6.494	-0.068	0.002	0.122
50.75	DL+LL+	-0.369	-5.492	-0.368	5.517	0.058	-0.002	-0.105
50.75	DL+LL+	0.048	0.740	0.049	0.743	-0.008	0.000	0.013



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

Beam	Type	Direction	F _a	F _b	F _c	Ecc.
306	UNI	GY	368.000	-	-	-
401	UNI	GY	368.000	-	-	-
402	UNI	GY	368.000	-	-	-
403	UNI	GY	368.000	-	-	-
404	UNI	GY	368.000	-	-	-
405	UNI	GY	368.000	-	-	-
406	UNI	GY	368.000	-	-	-

Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	R _X (deg)	R _Y (deg)	R _Z (deg)
1	11	DEAD LOAD	0.444	1.049	0.058	1.141	-0.000	0.002
21	LIVE LOAD	0.255	0.559	0.033	0.615	0.000	0.001	-0.022
31	WIND LOAD	-0.816	-1.789	-0.105	1.969	-0.000	-0.004	0.069
41	DL+LL	0.099	1.608	0.091	1.756	-0.000	0.003	-0.062
50.75	DL+LL+	-0.088	-0.135	-0.011	0.162	-0.000	-0.000	0.005
2	11	DEAD LOAD	0.444	-0.035	0.001	0.445	-0.000	-0.046
21	LIVE LOAD	0.255	-0.021	0.000	0.256	0.000	0.001	-0.026
31	WIND LOAD	-0.816	0.068	-0.001	0.819	-0.000	-0.004	0.085
41	DL+LL	0.099	-0.056	0.001	0.701	-0.000	0.003	-0.073
50.75	DL+LL+	-0.088	0.009	0.000	0.088	-0.000	-0.000	0.009
3	11	DEAD LOAD	0.429	-1.741	0.033	1.793	0.026	-0.004
21	LIVE LOAD	0.246	-1.021	0.019	1.050	0.015	-0.002	-0.049
31	WIND LOAD	-0.787	3.267	-0.060	3.361	-0.049	0.007	0.156
41	DL+LL	0.675	-2.762	0.051	2.844	0.041	-0.006	-0.132
50.75	DL+LL+	-0.084	0.379	-0.006	0.388	-0.005	0.001	0.018
4	11	DEAD LOAD	0.408	-3.471	0.134	3.498	0.037	-0.070
21	LIVE LOAD	0.233	-2.021	0.077	2.035	0.022	-0.003	-0.040
31	WIND LOAD	-0.744	6.466	-0.246	6.513	-0.069	0.009	0.128
41	DL+LL	0.640	-5.492	0.211	5.533	0.059	-0.008	-0.110
50.75	DL+LL+	-0.078	0.730	-0.027	0.735	-0.008	-0.001	0.014
11	DEAD LOAD	0.350	-4.791	0.240	4.810	0.043	-0.004	-0.054
21	LIVE LOAD	0.199	-2.766	0.138	2.777	0.025	-0.002	-0.030
31	WIND LOAD	-0.638	8.852	-0.442	8.885	-0.079	-0.008	0.097
41	DL+LL	0.549	-7.557	0.378	7.586	0.067	-0.007	-0.084
50.75	DL+LL+	-0.066	0.971	-0.048	0.974	-0.009	0.001	0.009
6	11	DEAD LOAD	0.292	-5.852	0.292	5.866	0.047	0.000
21	LIVE LOAD	0.166	-3.369	0.169	3.367	0.027	0.000	-0.025
31	WIND LOAD	-0.532	10.748	-0.539	10.775	-0.087	-0.000	-0.081
41	DL+LL	0.459	-9.210	0.461	9.233	0.074	0.000	-0.070
50.75	DL+LL+	-0.055	1.153	-0.059	1.156	-0.010	-0.000	0.008
11	DEAD LOAD	0.224	-6.750	0.309	6.761	0.048	-0.001	-0.037
21	LIVE LOAD	0.127	-3.876	0.178	3.882	0.028	0.000	-0.021
31	WIND LOAD	-0.407	12.404	-0.569	12.423	-0.089	0.003	0.067
41	DL+LL	0.351	-10.626	0.487	10.643	0.076	-0.002	-0.058
50.75	DL+LL+	-0.042	1.333	-0.062	1.335	-0.010	0.000	0.007
8	11	DEAD LOAD	0.155	-7.434	0.342	7.443	0.053	-0.001
21	LIVE LOAD	0.088	-4.266	0.197	4.271	0.031	-0.001	-0.014
31	WIND LOAD	-0.282	13.651	-0.630	13.669	-0.099	0.002	0.043
41	DL+LL	0.243	-11.700	0.539	11.714	0.084	-0.002	-0.038
50.75	DL+LL+	-0.029	1.464	-0.068	1.466	-0.011	0.000	0.004
9	11	DEAD LOAD	0.077	-7.798	0.378	7.808	0.059	-0.002
21	LIVE LOAD	0.044	-4.470	0.217	4.475	0.034	-0.001	-0.006
31	WIND LOAD	-0.141	14.303	-0.695	14.320	-0.109	0.003	0.019
41	DL+LL	0.121	-12.268	0.595	12.283	0.093	-0.003	-0.017
50.75	DL+LL+	-0.015	1.526	-0.075	1.528	-0.012	0.000	0.001
10	11	DEAD LOAD	-0.000	-7.921	0.400	7.931	0.064	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rx (deg)	ry (deg)	rz (deg)
34	50.75(DL+LL+)	-0.048	0.730	0.049	0.733	-0.008	-0.000	-0.013
	11 DEAD LOAI	-0.049	-1.747	-0.104	1.751	0.026	0.001	0.081
	21 LIVE LOAI	-0.025	-1.024	-0.061	1.026	0.015	0.001	0.047
	31 WIND LOAI	0.081	3.278	0.196	3.284	-0.049	-0.002	-0.150
	41(DL+LL)	-0.074	-2.771	-0.166	2.777	0.042	0.002	0.127
	50.75(DL+LL+)	0.005	0.380	0.023	0.381	-0.006	-0.000	-0.017
35	11 DEAD LOAI	0.000	0.000	0.000	0.000	0.000	0.002	0.005
	21 LIVE LOAI	0.000	0.000	0.000	0.000	0.000	0.001	0.003
	31 WIND LOAI	0.000	0.000	0.000	0.000	0.000	-0.004	-0.009
	41(DL+LL)	0.000	0.000	0.000	0.000	0.000	0.003	0.008
	50.75(DL+LL+)	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
36	11 DEAD LOAI	0.000	0.000	0.000	0.000	0.000	-0.002	-0.005
	21 LIVE LOAI	0.000	0.000	0.000	0.000	0.000	-0.001	-0.003
	31 WIND LOAI	0.000	0.000	0.000	0.000	0.000	0.004	0.009
	41(DL+LL)	0.000	0.000	0.000	0.000	0.000	0.003	0.008
	50.75(DL+LL+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101	11 DEAD LOAI	0.596	1.450	0.000	1.568	0.000	0.000	-0.056
	21 LIVE LOAI	0.343	0.792	0.000	0.863	0.000	0.000	-0.031
	31 WIND LOAI	-1.099	-2.533	-0.000	2.761	-0.000	-0.000	0.098
	41(DL+LL)	0.940	2.242	0.000	2.431	0.000	0.000	-0.087
	50.75(DL+LL+)	-0.119	-0.218	-0.000	0.249	-0.000	-0.000	0.008
102	11 DEAD LOAI	0.596	-0.040	0.000	0.598	0.000	0.000	-0.052
	21 LIVE LOAI	0.343	-0.025	0.000	0.344	0.000	0.000	-0.035
	31 WIND LOAI	-1.099	0.079	-0.000	1.101	-0.000	-0.000	0.114
	41(DL+LL)	0.940	-0.065	0.000	0.942	0.000	0.000	-0.097
	50.75(DL+LL+)	-0.119	0.010	-0.000	0.120	-0.000	-0.000	0.012
103	11 DEAD LOAI	0.578	-2.288	-0.000	2.360	0.000	0.000	-0.110
	21 LIVE LOAI	0.332	-1.339	-0.000	1.379	0.000	0.000	-0.064
	31 WIND LOAI	-1.063	4.284	0.000	4.413	-0.000	-0.000	0.206
	41(DL+LL)	0.911	-3.627	-0.000	3.739	0.000	0.000	-0.175
	50.75(DL+LL+)	-0.114	0.493	0.000	0.506	-0.000	-0.000	0.023
104	11 DEAD LOAI	0.562	-4.600	-0.000	4.633	0.000	0.000	-0.094
	21 LIVE LOAI	0.316	-2.675	-0.000	2.694	-0.000	-0.000	-0.054
	31 WIND LOAI	-1.011	8.560	0.000	8.619	0.000	0.000	0.173
	41(DL+LL)	0.867	-7.275	-0.000	7.326	0.000	0.000	-0.148
	50.75(DL+LL+)	-0.107	0.964	0.000	0.970	0.000	0.000	0.019
105	11 DEAD LOAI	0.474	-6.396	-0.000	6.414	0.000	-0.000	-0.074
	21 LIVE LOAI	0.271	-3.696	0.000	3.706	0.000	-0.000	-0.042
	31 WIND LOAI	-0.868	11.628	0.000	11.680	-0.000	0.000	0.133
	41(DL+LL)	0.746	-10.092	0.000	10.120	0.000	-0.000	-0.115
	50.75(DL+LL+)	-0.092	1.302	-0.000	1.305	0.000	0.000	0.013
106	11 DEAD LOAI	0.397	-7.853	0.000	7.863	0.000	-0.000	-0.061
	21 LIVE LOAI	0.227	-4.518	0.000	4.523	-0.000	-0.000	-0.035
	31 WIND LOAI	-0.725	14.456	-0.000	14.474	0.000	0.000	0.111
	41(DL+LL)	0.624	-12.370	0.000	12.386	0.000	-0.000	-0.095
	50.75(DL+LL+)	-0.076	1.564	-0.000	1.566	0.000	-0.000	0.011
107	11 DEAD LOAI	0.304	-9.061	0.000	9.066	0.000	0.000	-0.049
	21 LIVE LOAI	0.174	-5.213	0.000	5.216	0.000	0.000	-0.028
	31 WIND LOAI	-0.556	16.681	-0.000	16.690	-0.000	-0.000	0.091
	41(DL+LL)	0.478	-14.274	0.000	14.282	0.000	0.000	-0.078
	50.75(DL+LL+)	-0.058	1.805	-0.000	1.806	0.000	-0.000	0.010
108	11 DEAD LOAI	0.211	-9.989	-0.000	9.991	0.000	0.000	-0.033
	21 LIVE LOAI	0.120	-5.743	-0.000	5.744	0.000	0.000	-0.019
	31 WIND LOAI	-0.395	18.376	0.000	18.380	-0.000	-0.000	0.060
	41(DL+LL)	0.331	-15.731	-0.000	15.735	0.000	0.000	-0.052
	50.75(DL+LL+)	-0.040	1.984	0.000	1.984	-0.000	-0.000	0.006
109	11 DEAD LOAI	0.106	-10.498	-0.000	10.499	0.000	0.000	-0.016
	21 LIVE LOAI	0.060	-6.028	-0.000	6.029	0.000	0.000	-0.009
	31 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)
22	11 DEAD LOAI	-0.425	-4.783	-0.381	4.817	0.043	-0.002	-0.052
	21 LIVE LOAI	-0.240	-2.760	-0.222	2.779	0.025	-0.001	-0.029
	31 WIND LOAI	0.768	8.832	0.709	8.894	-0.079	0.004	0.094
	41(DL+LL)	-0.665	-7.543	-0.602	7.596	0.067	-0.003	-0.082
	50.75(DL+LL+)	0.077	5.967	0.080	0.973	-0.009	0.000	0.009
23	11 DEAD LOAI	-0.532	-5.868	-0.572	5.860	0.046	0.000	-0.044
	21 LIVE LOAI	-0.301	-3.333	-0.332	3.363	0.026	0.000	-0.025
	31 WIND LOAI	0.963	10.666	1.063	10.762	-0.085	-0.000	0.079
	41(DL+LL)	-0.833	-9.141	-0.904	9.224	0.072	0.000	-0.068
	50.75(DL+LL+)	0.097	1.144	0.119	1.154	-0.009	0.000	0.008
24	11 DEAD LOAI	-0.428	-6.740	-0.613	6.782	0.048	0.002	-0.036
	21 LIVE LOAI	-0.243	-3.869	-0.356	3.893	0.028	0.001	-0.021
	31 WIND LOAI	0.778	12.381	1.138	12.458	-0.088	-0.004	0.067
	41(DL+LL)	-0.671	-10.609	-0.969	10.675	0.075	0.003	-0.057
	50.75(DL+LL+)	0.081	1.329	0.127	1.337	-0.010	-0.000	0.007
25	11 DEAD LOAI	-0.284	-7.434	-0.684	7.471	0.053	0.004	-0.024
	21 LIVE LOAI	-0.161	-4.266	-0.396	4.287	0.031	0.002	-0.013
	31 WIND LOAI	0.514	13.650	1.267	13.718	-0.099	-0.007	0.043
	41(DL+LL)	-0.445	-11.699	-1.080	11.758	0.084	0.006	-0.037
	50.75(DL+LL+)	0.052	1.463	0.140	1.471	-0.011	-0.001	0.004
26	11 DEAD LOAI	-0.141	-7.788	-0.753	7.825	0.059	0.002	-0.011
	21 LIVE LOAI	-0.078	-4.462	-0.435	4.484	0.034	0.001	-0.006
	31 WIND LOAI	0.249	14.278	1.393	14.348	-0.109	-0.003	0.018
	41(DL+LL)	-0.218	-12.249	-1.189	12.309	0.093	0.003	-0.016
	50.75(DL+LL+)	0.023	1.522	0.153	1.529	-0.012	-0.000	0.002
27	11 DEAD LOAI	-0.000	-7.887	-0.783	7.926	0.063	-0.000	-0.000
	21 LIVE LOAI	-0.000	-4.510	-0.452	4.532	0.036	-0.000	-0.000
	31 WIND LOAI	0.000	14.431	1.448	14.503	-0.115	0.000	0.000
	41(DL+LL)	-0.000	-12.396	-1.236	12.458	0.099	-0.000	-0.000
	50.75(DL+LL+)	0.000	1.526	0.159	1.534	-0.013	0.000	0.000
28	11 DEAD LOAI	0.141	-7.788	-0.753	7.825	0.059	-0.002	0.011
	21 LIVE LOAI	0.078	-4.462	-0.435	4.484	0.034	-0.001	0.006
	31 WIND LOAI	-0.249	14.278	1.393	14.348	-0.109	0.003	-0.018
	41(DL+LL)	0.218	-12.249	-1.189	12.309	0.093	-0.003	0.016
	50.75(DL+LL+)	-0.023	1.522	-0.153	1.529	-0.012	0.000	-0.002
29	11 DEAD LOAI	0.284	-7.434	-0.684	7.471	0.053	-0.004	0.024
	21 LIVE LOAI	0.161	-4.266	-0.396	4.287	0.031	-0.002	0.013
	31 WIND LOAI	-0.514	13.650	1.267	13.718	-0.099	0.007	-0.043
	41(DL+LL)	0.445	-11.699	-1.080	11.758	0.084	-0.006	0.037
	50.75(DL+LL+)	-0.052	1.463	0.140	1.471	-0.011	0.001	-0.004
30	11 DEAD LOAI	0.428	-6.740	-0.613	6.782	0.048	-0.002	0.036
	21 LIVE LOAI	0.243	-3.869	-0.356	3.893	0.028	-0.001	0.021
	31 WIND LOAI	-0.778	12.381	1.138	12.458	-0.088	0.004	-0.067
	41(DL+LL)	0.671	-10.609	-0.969	10.675	0.075	-0.003	0.057
	50.75(DL+LL+)	-0.081	1.329	0.127	1.337	-0.010	0.000	-0.007
31	11 DEAD LOAI	0.532	-5.868	-0.572	5.860	0.046	-0.000	0.044
	21 LIVE LOAI	0.301	-3.333	-0.332	3.363	0.026	-0.000	0.025
	31 WIND LOAI	-0.963	10.666	1.063	10.762	-0.085	0.000	-0.079
	41(DL+LL)	0.833	-9.141	-0.904	9.224	0.072	-0.000	0.068
	50.75(DL+LL+)	-0.097	1.144	0.119	1.154	-0.009	-0.000	-0.008
32	11 DEAD LOAI	0.425	-4.783	-0.381	4.817	0.043	0.002	0.052
	21 LIVE LOAI	0.240	-2.760	-0.222	2.779	0.025	0.001	0.029
	31 WIND LOAI	-0.768	8.832	0.709	8.894	-0.079	-0.004	-0.094
	41(DL+LL)	0.665	-7.543	-0.602	7.596	0.067	0.003	0.082
	50.75(DL+LL+)	-0.077	0.967	0.080	0.973	-0.009	-0.000	-0.009
33	11 DEAD LOAI	0.234	-3.472	-0.232	3.487	0.037	0.001	0.067
	21 LIVE LOAI	0.135	-2.020	-0.135	2.029	0.021	0.001	0.008
	31 WIND LOAI	-0.433	6.465	0.433	6.494	-0.068	-0.002	-0.122
	41(DL+LL)	0.369	-5.452	-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)
122	3:1 WIND LOAI	0.574	8.559	0.000	8.578	-0.000	0.000	0.165
	4:1(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
	1:1 DEAD LOAI	-0.576	-6.387	-0.000	6.413	0.000	-0.000	-0.072
	2:1 LIVE LOAI	-0.328	-3.690	0.000	3.704	0.000	-0.000	-0.041
	3:1 WIND LOAI	1.048	11.808	-0.000	11.854	-0.000	0.000	0.130
	4:1(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	1:1 DEAD LOAI	-0.728	-7.827	0.000	7.861	0.000	-0.000	-0.059
	2:1 LIVE LOAI	-0.414	-4.502	0.000	4.521	0.000	-0.000	-0.034
	3:1 WIND LOAI	1.324	14.408	-0.000	14.468	0.000	0.000	0.108
	4:1(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	1:1 DEAD LOAI	-0.582	-9.050	0.000	9.068	0.000	0.000	-0.049
	2:1 LIVE LOAI	-0.332	-5.205	0.000	5.215	-0.000	0.000	-0.028
	3:1 WIND LOAI	1.062	16.655	-0.000	16.689	0.000	-0.000	0.089
	4:1(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	1:1 DEAD LOAI	-0.390	-9.989	0.000	9.996	0.000	0.000	-0.032
	2:1 LIVE LOAI	-0.221	-5.742	-0.000	5.746	0.000	0.000	-0.018
	3:1 WIND LOAI	0.707	18.374	0.000	18.388	-0.000	-0.000	0.059
	4:1(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	1:1 DEAD LOAI	-0.197	-10.485	-0.000	10.487	0.000	0.000	-0.016
	2:1 LIVE LOAI	-0.110	-6.019	-0.000	6.020	0.000	0.000	-0.009
	3:1 WIND LOAI	0.352	19.262	0.000	19.265	-0.000	-0.000	0.028
	4:1(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	1:1 DEAD LOAI	-0.000	-10.686	-0.000	10.686	0.000	0.000	-0.000
	2:1 LIVE LOAI	-0.000	-6.125	-0.000	6.125	0.000	0.000	-0.000
	3:1 WIND LOAI	0.000	19.601	0.000	19.601	-0.000	0.000	0.000
	4:1(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	1:1 DEAD LOAI	0.197	-10.485	-0.000	10.487	0.000	0.000	0.016
	2:1 LIVE LOAI	0.110	-6.019	-0.000	6.020	0.000	0.000	0.009
	3:1 WIND LOAI	-0.352	19.262	0.000	19.265	-0.000	0.000	-0.028
	4:1(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	1:1 DEAD LOAI	0.390	-9.989	-0.000	9.996	0.000	0.000	0.032
	2:1 LIVE LOAI	0.221	-5.742	-0.000	5.746	0.000	-0.000	0.018
	3:1 WIND LOAI	-0.707	18.374	0.000	18.388	-0.000	0.000	-0.059
	4:1(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	1:1 DEAD LOAI	0.582	-9.050	0.000	9.068	0.000	0.000	0.049
	2:1 LIVE LOAI	0.332	-5.205	0.000	5.215	-0.000	-0.000	0.028
	3:1 WIND LOAI	-1.062	16.655	-0.000	16.689	0.000	0.000	-0.089
	4:1(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	1:1 DEAD LOAI	0.728	-7.827	0.000	7.861	0.000	0.000	0.059
	2:1 LIVE LOAI	0.414	-4.502	0.000	4.521	-0.000	0.000	0.034
	3:1 WIND LOAI	-1.324	14.408	-0.000	14.468	0.000	-0.000	-0.108
	4:1(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	1:1 DEAD LOAI	0.576	-6.387	-0.000	6.413	0.000	0.000	0.072
	2:1 LIVE LOAI	0.328	-3.690	0.000	3.704	0.000	0.000	0.041
	3:1 WIND LOAI	-1.048	11.808	-0.000	11.854	-0.000	-0.000	-0.130
	4:1(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	1:1 DEAD LOAI	0.309	-4.600	-0.000	4.610	0.000	0.000	0.090

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rx (deg)	ry (deg)	rz (deg)
110	4:1(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
	1:1 DEAD LOAI	-0.000	-10.686	-0.000	10.686	0.000	-0.000	-0.000
	2:1 LIVE LOAI	-0.000	-6.126	-0.000	6.126	0.000	-0.000	-0.000
	3:1 WIND LOAI	0.000	19.605	0.000	19.605	-0.000	0.000	0.000
	4:1(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	1:1 DEAD LOAI	-0.106	-10.488	-0.000	10.489	0.000	-0.000	0.016
	2:1 LIVE LOAI	-0.060	-6.028	-0.000	6.029	0.000	-0.000	0.009
	3:1 WIND LOAI	0.192	19.291	0.000	19.292	-0.000	0.000	-0.028
	4:1(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	1:1 DEAD LOAI	-0.210	-9.989	-0.000	9.991	0.000	-0.000	0.033
	2:1 LIVE LOAI	-0.120	-5.743	-0.000	5.744	0.000	-0.000	0.019
	3:1 WIND LOAI	0.385	18.376	0.000	18.380	-0.000	0.000	-0.060
	4:1(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
113	1:1 DEAD LOAI	-0.304	-9.061	0.000	9.066	0.000	-0.000	0.049
	2:1 LIVE LOAI	-0.174	-5.213	0.000	5.216	0.000	-0.000	0.028
	3:1 WIND LOAI	0.556	16.691	-0.000	16.690	-0.000	0.000	-0.091
	4:1(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	1:1 DEAD LOAI	-0.397	-7.853	0.000	7.863	0.000	0.000	0.061
	2:1 LIVE LOAI	-0.227	-4.518	0.000	4.523	-0.000	0.000	0.035
	3:1 WIND LOAI	0.725	14.456	-0.000	14.474	0.000	-0.000	-0.111
	4:1(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	1:1 DEAD LOAI	-0.474	-6.396	-0.000	6.414	0.000	0.000	0.074
	2:1 LIVE LOAI	-0.271	-3.696	0.000	3.706	0.000	0.000	0.042
	3:1 WIND LOAI	0.868	11.828	-0.000	11.860	-0.000	-0.000	-0.133
	4:1(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	1:1 DEAD LOAI	-0.552	-4.600	-0.000	4.633	0.000	0.000	0.094
	2:1 LIVE LOAI	-0.316	-2.675	-0.000	2.684	-0.000	0.000	0.054
	3:1 WIND LOAI	1.011	8.560	0.000	8.619	0.000	-0.000	-0.173
	4:1(DL+LL)	-0.867	-7.275	-0.000	7.326	0.000	0.000	0.148
	5:0.75(DL+LL+)	0.107	0.954	0.000	0.970	0.000	-0.000	-0.019
117	1:1 DEAD LOAI	-0.578	-2.268	-0.000	2.360	0.000	-0.000	0.110
	2:1 LIVE LOAI	-0.332	-1.339	-0.000	1.379	0.000	-0.000	0.064
	3:1 WIND LOAI	1.063	4.294	0.000	4.414	-0.000	0.000	-0.208
	4:1(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	1:1 DEAD LOAI	-0.556	-0.040	0.000	0.588	0.000	-0.000	0.068
	2:1 LIVE LOAI	-0.343	-0.025	0.000	0.344	0.000	-0.000	0.035
	3:1 WIND LOAI	1.059	0.079	-0.000	1.101	-0.000	0.000	-0.111
	4:1(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
119	1:1 DEAD LOAI	-0.556	1.450	0.000	1.568	0.000	-0.000	0.065
	2:1 LIVE LOAI	-0.343	0.792	0.000	0.863	0.000	-0.000	0.031
	3:1 WIND LOAI	1.059	-2.533	-0.000	2.761	-0.000	0.000	-0.098
	4:1(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
120	1:1 DEAD LOAI	0.073	-2.298	-0.000	2.297	0.000	0.000	-0.107
	2:1 LIVE LOAI	0.039	-1.343	-0.000	1.344	0.000	0.000	-0.062
	3:1 WIND LOAI	-0.125	4.298	0.000	4.300	-0.000	-0.000	0.199
	4:1(DL+LL)	0.112	-3.639	-0.000	3.641	0.000	0.000	-0.169
	5:0.75(DL+LL+)	-0.010	0.484	0.000	0.484	-0.000	0.000	0.022
121	1:1 DEAD LOAI	-0.309	-4.600	-0.000	4.610	0.000	-0.000	-0.090
	2:1 LIVE LOAI	-0.178	-2.675	-0.000	2.681	0.000	-0.000	-0.052



Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rx (deg)	ry (deg)	rz (deg)
209	1: DEAD LOAD	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 LOAD	0.044	-4.470	-0.217	4.475	-0.034	0.001	-0.006
	4: (DL+LL)	0.121	-12.268	-0.595	12.283	-0.093	0.003	-0.017
	5: 0.75(DL+LL)	0.075	-5.697	-0.281	5.702	-0.040	0.001	-0.008
210	1: DEAD LOAD	-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 LOAD	-0.000	-4.531	-0.230	4.536	-0.037	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	-5.697	-0.281	5.702	-0.040	0.000	-0.000
211	1: DEAD LOAD	-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 LOAD	-0.044	-4.470	-0.217	4.475	-0.034	-0.001	0.006
	4: (DL+LL)	-0.121	-12.268	-0.595	12.283	-0.093	-0.003	0.017
	5: 0.75(DL+LL)	-0.075	-5.697	-0.281	5.702	-0.040	-0.001	0.008
212	1: DEAD LOAD	0.015	-1.526	0.075	1.528	0.012	0.000	-0.001
	2: LIVE LOAD	-0.155	-7.434	-0.342	7.443	-0.053	-0.001	0.024
	3: WIND LOAD	-0.155	-7.434	-0.342	7.443	-0.053	-0.001	0.024
	4: (DL+LL)	0.282	-13.651	0.630	13.669	0.099	0.002	-0.043
	5: 0.75(DL+LL)	0.282	-13.651	0.630	13.669	0.099	0.002	-0.043
213	1: DEAD LOAD	0.029	-1.464	0.068	1.466	0.011	0.000	-0.004
	2: LIVE LOAD	-0.224	-6.750	-0.309	6.761	-0.048	-0.001	0.037
	3: WIND LOAD	-0.224	-6.750	-0.309	6.761	-0.048	-0.001	0.037
	4: (DL+LL)	-0.127	-8.876	-0.178	8.882	-0.028	-0.001	0.021
	5: 0.75(DL+LL)	0.407	-12.404	0.569	12.423	0.089	0.003	-0.067
214	1: DEAD LOAD	0.042	-1.333	0.062	1.335	0.010	0.000	-0.007
	2: LIVE LOAD	-0.292	-6.852	-0.292	6.866	-0.047	0.000	0.045
	3: WIND LOAD	-0.292	-6.852	-0.292	6.866	-0.047	0.000	0.045
	4: (DL+LL)	0.532	-10.748	0.539	10.775	0.097	-0.000	-0.081
	5: 0.75(DL+LL)	0.532	-10.748	0.539	10.775	0.097	-0.000	-0.081
215	1: DEAD LOAD	0.055	-1.153	0.059	1.156	0.010	0.000	-0.008
	2: LIVE LOAD	-0.350	-7.471	-0.240	7.481	-0.043	-0.001	0.054
	3: WIND LOAD	-0.350	-7.471	-0.240	7.481	-0.043	-0.001	0.054
	4: (DL+LL)	-0.199	-9.766	-0.138	9.777	-0.025	-0.002	0.030
	5: 0.75(DL+LL)	0.638	-13.852	0.442	13.866	0.079	0.008	-0.097
216	1: DEAD LOAD	-0.048	-3.471	-0.134	3.488	-0.037	-0.005	0.070
	2: LIVE LOAD	-0.233	-6.021	-0.077	6.035	-0.022	-0.003	0.040
	3: WIND LOAD	-0.233	-6.021	-0.077	6.035	-0.022	-0.003	0.040
	4: (DL+LL)	-0.640	-9.492	-0.211	9.503	-0.059	-0.008	0.110
	5: 0.75(DL+LL)	-0.640	-9.492	-0.211	9.503	-0.059	-0.008	0.110
217	1: DEAD LOAD	-0.429	-1.741	-0.033	1.753	-0.026	-0.004	0.083
	2: LIVE LOAD	-0.246	-4.021	-0.019	4.030	-0.015	-0.002	0.049
	3: WIND LOAD	-0.246	-4.021	-0.019	4.030	-0.015	-0.002	0.049
	4: (DL+LL)	-0.675	-5.762	-0.051	5.774	-0.041	-0.006	0.132
	5: 0.75(DL+LL)	-0.675	-5.762	-0.051	5.774	-0.041	-0.006	0.132
218	1: DEAD LOAD	-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 LOAD	-0.255	-0.021	-0.000	0.256	0.000	0.001	0.026
	4: (DL+LL)	-0.699	-0.056	-0.001	0.701	0.000	0.003	0.073
	5: 0.75(DL+LL)	-0.699	-0.056	-0.001	0.701	0.000	0.003	0.073
219	1: DEAD LOAD	-0.444	1.049	-0.058	1.141	0.000	0.002	0.041
	2: LIVE LOAD	-0.255	0.569	-0.033	0.575	0.000	0.001	0.022
	3: WIND LOAD	-0.255	0.569	-0.033	0.575	0.000	0.001	0.022
	4: (DL+LL)	-0.699	1.608	-0.091	1.756	0.000	0.003	0.062
	5: 0.75(DL+LL)	-0.699	1.608	-0.091	1.756	0.000	0.003	0.062
220	1: DEAD LOAD	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 LOAD	0.025	-1.024	0.061	1.026	-0.015	0.001	-0.047
	4: (DL+LL)	0.074	-3.278	-0.196	3.284	0.049	-0.002	0.150
	5: 0.75(DL+LL)	0.074	-3.278	-0.196	3.284	0.049	-0.002	0.150



Node Displacements Cont...

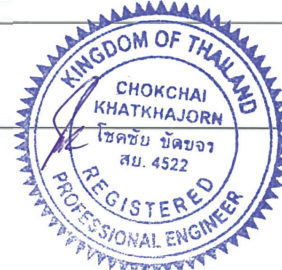
Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rx (deg)	ry (deg)	rz (deg)
221	1: DEAD LOAD	0.179	-2.675	-0.000	2.681	0.000	0.000	0.052
	2: LIVE LOAD	-0.574	8.559	0.000	8.578	-0.000	-0.000	-0.165
	3: WIND LOAD	-0.574	8.559	0.000	8.578	-0.000	-0.000	-0.165
	4: (DL+LL)	-0.489	-7.274	-0.000	7.291	0.000	0.000	0.141
	5: 0.75(DL+LL)	-0.064	0.964	0.000	0.966	0.000	-0.000	-0.018
134	1: DEAD LOAD	-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	0.082
	3: WIND LOAD	-0.039	-1.343	-0.000	1.344	0.000	-0.000	0.082
	4: (DL+LL)	0.125	4.298	0.000	4.300	0.000	0.000	-0.199
	5: 0.75(DL+LL)	-0.112	-3.639	-0.000	3.641	0.000	-0.000	0.169
135	1: DEAD LOAD	0.000	0.000	0.000	0.000	0.000	-0.000	-0.022
	2: LIVE LOAD	0.000	0.000	0.000	0.000	0.000	0.000	0.006
	3: WIND LOAD	0.000	0.000	0.000	0.000	0.000	0.000	0.004
	4: (DL+LL)	0.000	0.000	0.000	0.000	0.000	-0.000	-0.012
	5: 0.75(DL+LL)	0.000	0.000	0.000	0.000	0.000	-0.000	-0.010
136	1: DEAD LOAD	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 LOAD	0.000	0.000	0.000	0.000	0.000	0.000	0.002
	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 LOAD	0.444	1.049	-0.058	1.141	0.000	-0.002	-0.041
	2: LIVE LOAD	0.255	0.569	-0.033	0.575	0.000	-0.001	-0.022
	3: WIND LOAD	0.255	0.569	-0.033	0.575	0.000	-0.001	-0.022
	4: (DL+LL)	-0.816	-1.789	0.105	1.969	0.000	0.004	0.069
	5: 0.75(DL+LL)	0.699	1.608	-0.091	1.756	0.000	-0.003	-0.062
202	1: DEAD LOAD	0.444	-0.035	-0.001	0.445	0.000	-0.002	-0.041
	2: LIVE LOAD	0.255	-0.021	-0.000	0.256	0.000	-0.001	-0.022
	3: WIND LOAD	0.255	-0.021	-0.000	0.256	0.000	-0.001	-0.022
	4: (DL+LL)	-0.816	-1.789	0.105	1.969	0.000	0.004	0.069
	5: 0.75(DL+LL)	0.699	1.608	-0.091	1.756	0.000	-0.003	-0.062
203	1: DEAD LOAD	0.429	-1.741	-0.033	1.753	-0.026	0.004	-0.083
	2: LIVE LOAD	0.246	-1.021	-0.019	1.030	-0.015	0.002	-0.049
	3: WIND LOAD	0.246	-1.021	-0.019	1.030	-0.015	0.002	-0.049
	4: (DL+LL)	-0.675	-5.762	-0.051	5.774	-0.041	-0.006	0.132
	5: 0.75(DL+LL)	-0.675	-5.762	-0.051	5.774	-0.041	-0.006	0.132
204	1: DEAD LOAD	0.408	-3.471	-0.134	3.488	-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 LOAD	0.233	-2.021	-0.077	2.035	-0.022	-0.003	0.040
	4: (DL+LL)	-0.640	-9.492	-0.211	9.503	-0.059	-0.008	0.110
	5: 0.75(DL+LL)	-0.640	-9.492	-0.211	9.503	-0.059	-0.008	0.110
205	1: DEAD LOAD	0.350	-7.471	-0.240	7.481	-0.043	-0.001	0.054
	2: LIVE LOAD	0.199	-4.766	-0.138	4.777	-0.025	-0.002	0.030
	3: WIND LOAD	0.199	-4.766	-0.138	4.777	-0.025	-0.002	0.030
	4: (DL+LL)	-0.638	-13.852	0.442	13.866	0.079	0.008	-0.097
	5: 0.75(DL+LL)	-0.638	-13.852	0.442	13.866	0.079	0.008	-0.097
206	1: DEAD LOAD	-0.066	0.971	0.048	0.974	0.009	-0.001	0.009
	2: LIVE LOAD	-0.292	-6.852	-0.292	6.866	-0.047	-0.000	0.045
	3: WIND LOAD	-0.292	-6.852	-0.292	6.866	-0.047	-0.000	0.045
	4: (DL+LL)	-0.532	-10.748	0.539	10.775	0.097	-0.000	-0.081
	5: 0.75(DL+LL)	-0.532	-10.748	0.539	10.775	0.097	-0.000	-0.081
207	1: DEAD LOAD	0.459	-9.210	-0.461	9.233	-0.074	-0.000	0.070
	2: LIVE LOAD	-0.055	-1.153	0.059	1.156	0.010	0.000	-0.008
	3: WIND LOAD	-0.055	-1.153	0.059	1.156	0.010	0.000	-0.008
	4: (DL+LL)	0.224	-6.750	-0.309	6.761	-0.048	0.001	-0.037
	5: 0.75(DL+LL)	0.224	-6.750	-0.309	6.761	-0.048	0.001	-0.037
208	1: DEAD LOAD	0.155	-7.434	-0.342	7.443	-0.053	-0.001	0.024
	2: LIVE LOAD	-0.155	-7.434	-0.342	7.443	-0.053	-0.001	0.024
	3: WIND LOAD	-0.155	-7.434	-0.342	7.443	-0.053	-0.001	0.024
	4: (DL+LL)	0.282	-13.651	0.630	13.669	0.099	0.002	-0.043
	5: 0.75(DL+LL)	0.282	-13.651	0.630	13.669	0.099	0.002	-0.043

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	7.566	-0.067	-0.003	0.062
	50.75(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 LOAI	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
	50.75(DL+LL+)	-0.048	0.750	-0.049	0.753	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 LOAI	-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	0.000	0.127
	50.75(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 LOAI	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
	50.75(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 LOAI	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
	50.75(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 LOAI	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
	50.75(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 LOAI	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
	50.75(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 LOAI	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
	50.75(DL+LL+)	-0.001	0.007	0.088	0.088	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 LOAI	-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
	50.75(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 LOAI	-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
	50.75(DL+LL+)	0.001	0.007	0.088	0.088	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 LOAI	-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
	50.75(DL+LL+)	0.002	0.002	-0.001	0.003	-0.001	-0.000	-0.001
307	1(DEAD LOAI	0.002	-0.002	-0.011	0.003	-0.001	-0.000	-0.001
	2(LIVE LOAI	-0.005	-0.020	-0.011	0.023	-0.002	0.000	-0.001
	3(WIND LOAI	-0.003	-0.014	-0.006	0.016	-0.000	0.000	-0.001
	4(DL+LL)	0.011	0.045	0.019	0.050	0.000	-0.001	0.002
	50.75(DL+LL+)	-0.008	-0.034	-0.017	0.039	-0.002	0.001	-0.001
308	1(DEAD LOAI	0.002	0.008	0.000	0.009	0.001	-0.000	0.000
	2(LIVE LOAI	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	-0.000	0.001
	4(DL+LL)	0.000	0.000	0.000	0.000	0.000	-0.000	0.001
	50.75(DL+LL+)	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)
	50.75(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 LOAI	-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	0.000	0.122
	4(DL+LL)	-0.369	-5.492	0.368	5.517	-0.058	0.002	-0.105
	50.75(DL+LL+)	0.048	0.750	-0.049	0.753	0.008	-0.000	0.013
222	1(DEAD LOAI	-0.425	-4.783	0.381	4.817	-0.043	0.002	-0.062
	2(LIVE LOAI	-0.240	-2.760	0.222	2.779	-0.025	0.001	-0.029
	3(WIND LOAI	0.768	8.894	-0.769	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
	50.75(DL+LL+)	0.077	0.967	-0.080	0.973	0.009	-0.000	0.009
223	1(DEAD LOAI	-0.532	-5.808	0.512	5.860	-0.046	0.000	-0.044
	2(LIVE LOAI	-0.301	-3.333	0.332	3.363	-0.026	0.000	-0.004
	3(WIND LOAI	0.963	10.666	-0.963	10.762	0.085	0.000	0.079
	4(DL+LL)	-0.833	-9.141	0.804	9.224	-0.072	-0.000	-0.068
	50.75(DL+LL+)	0.097	1.144	-0.119	1.154	0.009	-0.000	0.008
224	1(DEAD LOAI	-0.428	-4.740	0.613	4.782	-0.048	0.000	-0.036
	2(LIVE LOAI	-0.243	-2.869	0.356	2.893	-0.028	0.001	-0.021
	3(WIND LOAI	0.718	12.458	-0.718	12.458	0.088	0.004	0.067
	4(DL+LL)	-0.671	-10.609	0.569	10.675	-0.075	-0.003	-0.067
	50.75(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 LOAI	-0.161	-4.266	0.396	4.287	-0.031	-0.002	-0.013
	3(WIND LOAI	0.514	13.650	-0.514	13.718	0.090	0.007	0.043
	4(DL+LL)	-0.445	-11.659	1.080	11.758	-0.084	-0.006	-0.037
	50.75(DL+LL+)	0.052	1.463	-0.140	1.471	0.011	0.001	0.004
226	1(DEAD LOAI	-0.411	-7.788	0.753	7.825	-0.059	-0.002	-0.011
	2(LIVE LOAI	-0.248	-4.462	0.435	4.484	-0.034	-0.001	-0.006
	3(WIND LOAI	0.249	14.278	-0.249	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
	50.75(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	7.906	-0.063	0.000	-0.000
	2(LIVE LOAI	-0.000	-4.510	0.462	4.532	-0.036	0.000	-0.000
	3(WIND LOAI	0.000	14.431	-0.000	14.503	0.115	-0.000	0.000
	4(DL+LL)	-0.000	-12.336	1.236	12.458	-0.099	0.000	-0.000
	50.75(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 LOAI	0.078	-4.462	0.435	4.484	-0.034	0.001	0.006
	3(WIND LOAI	-0.249	14.278	-0.249	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
	50.75(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 LOAI	0.161	-4.266	0.396	4.287	-0.031	0.002	0.013
	3(WIND LOAI	-0.514	13.650	-0.514	13.718	0.090	-0.007	-0.043
	4(DL+LL)	0.445	-11.659	1.080	11.758	-0.084	0.006	0.037
	50.75(DL+LL+)	-0.052	1.463	-0.140	1.471	0.011	-0.001	-0.004
230	1(DEAD LOAI	0.428	-4.740	0.613	4.782	-0.048	0.002	0.036
	2(LIVE LOAI	0.243	-2.869	0.356	2.893	-0.028	0.001	0.021
	3(WIND LOAI	-0.778	12.331	-0.778	12.458	0.088	-0.004	-0.067
	4(DL+LL)	0.671	-10.609	0.569	10.675	-0.075	0.003	0.057
	50.75(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 LOAI	0.301	-3.333	0.332	3.363	-0.026	0.000	0.025
	3(WIND LOAI	-0.963	10.666	-0.963	10.762	0.085	-0.000	-0.068
	4(DL+LL)	0.833	-9.141	0.804	9.224	-0.072	0.000	0.068
	50.75(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	0.062
	2(LIVE LOAI	0.240	-2.760	0.222	2.779	-0.025	-0.001	0.029
	3(WIND LOAI	0.768	8.894	-0.768	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
	50.75(DL+LL+)	0.077	0.967	-0.080	0.973	0.009	-0.000	0.009



Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
409	2x LIVE LOAD	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	3x WIND LOAI	0.000	0.000	0.000	0.000	0.000	-0.001	-0.002
	4x(DL+LL)	0.000	0.000	0.000	0.000	0.001	0.001	0.002
	5x(0.75DL+LL+)	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.000
	1x DEAD LOAI	0.000	0.000	0.000	0.000	0.000	-0.021	-0.002
	2x LIVE LOAD	0.000	0.000	0.000	0.000	-0.012	-0.001	-0.000
410	3x WIND LOAI	0.000	0.000	0.000	0.000	0.037	0.003	0.000
	4x(DL+LL)	0.000	0.000	0.000	0.000	-0.032	-0.003	-0.000
	5x(0.75DL+LL+)	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	1x DEAD LOAI	0.000	0.000	0.000	0.000	-0.028	-0.000	0.000
	2x LIVE LOAD	0.000	0.000	0.000	0.000	-0.015	-0.000	0.000
	3x WIND LOAI	0.000	0.000	0.000	0.000	0.050	0.000	-0.000
411	4x(DL+LL)	0.000	0.000	0.000	0.000	-0.043	-0.000	0.000
	5x(0.75DL+LL+)	0.000	0.000	0.000	0.000	0.005	0.000	-0.000
	1x DEAD LOAI	0.000	0.000	0.000	0.000	-0.021	0.002	0.000
	2x LIVE LOAD	0.000	0.000	0.000	0.000	-0.012	0.001	0.000
	3x WIND LOAI	0.000	0.000	0.000	0.000	0.037	-0.003	-0.000
	4x(DL+LL)	0.000	0.000	0.000	0.000	-0.032	0.003	0.000
412	5x(0.75DL+LL+)	0.000	0.000	0.000	0.000	0.003	-0.000	-0.001
	1x DEAD LOAI	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	2x LIVE LOAD	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	3x WIND LOAI	0.000	0.000	0.000	0.000	0.000	0.000	0.002
	4x(DL+LL)	0.000	0.000	0.000	0.000	-0.001	0.001	0.002
	5x(0.75DL+LL+)	0.000	0.000	0.000	0.000	0.000	0.000	-0.002
501	3x WIND LOAI	0.000	0.000	0.000	0.000	-0.015	-0.009	0.064
	4x(DL+LL)	0.214	-5.488	0.645	5.540	0.116	0.008	-0.055
	5x(0.75DL+LL+)	-0.026	0.854	-0.082	0.860	-0.015	-0.001	0.006
	1x DEAD LOAI	0.039	-1.847	0.456	1.898	0.089	0.004	-0.025
	2x LIVE LOAD	0.022	-1.041	0.250	1.070	0.050	0.002	-0.014
	3x WIND LOAI	-0.071	3.330	-0.799	3.425	-0.161	-0.008	0.049
502	4x(DL+LL)	0.061	-2.887	0.685	2.968	0.139	0.006	-0.039
	5x(0.75DL+LL+)	-0.008	0.332	-0.085	0.343	-0.017	-0.001	0.005
	1x DEAD LOAI	0.312	-6.678	0.224	6.689	0.037	0.002	-0.046
	2x LIVE LOAD	0.178	-3.831	0.129	3.837	0.021	0.001	-0.026
	3x WIND LOAI	-0.569	12.259	-0.413	12.279	-0.067	-0.003	0.083
	4x(DL+LL)	0.490	-10.509	0.353	10.527	0.058	0.002	-0.072
504	5x(0.75DL+LL+)	-0.059	1.312	-0.045	1.314	-0.007	-0.000	0.009
	1x DEAD LOAI	0.345	-7.324	0.155	7.324	0.025	0.001	-0.051
	2x LIVE LOAD	0.196	-4.202	0.089	4.207	0.015	0.001	-0.029
	3x WIND LOAI	-0.628	13.445	-0.286	13.463	-0.047	-0.003	0.093
	4x(DL+LL)	0.541	-11.525	0.245	11.541	0.040	0.000	-0.080
	5x(0.75DL+LL+)	-0.065	1.440	-0.031	1.442	-0.005	-0.000	0.010
506	1x DEAD LOAI	0.378	-7.693	0.078	7.703	0.013	0.002	-0.056
	2x LIVE LOAD	0.215	-4.418	0.045	4.424	0.008	0.001	-0.032
	3x WIND LOAI	-0.600	14.139	-0.143	14.156	-0.026	-0.003	0.102
	4x(DL+LL)	0.593	-12.111	0.122	12.126	0.021	0.003	-0.088
	5x(0.75DL+LL+)	-0.072	1.521	-0.016	1.522	-0.003	-0.000	0.011
	1x DEAD LOAI	0.378	-7.693	-0.078	7.703	-0.013	-0.002	-0.056
507	2x LIVE LOAD	0.215	-4.418	0.045	4.424	-0.008	-0.001	-0.032
	3x WIND LOAI	-0.690	14.139	-0.143	14.156	0.026	0.003	0.102
	4x(DL+LL)	0.593	-12.111	-0.122	12.126	-0.021	-0.003	-0.088
	5x(0.75DL+LL+)	-0.072	1.521	0.016	1.522	0.003	0.000	0.011
	1x DEAD LOAI	0.378	-7.693	-0.078	7.703	-0.013	-0.002	-0.056
	2x LIVE LOAD	0.215	-4.418	0.045	4.424	-0.008	-0.001	-0.032



Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
309	3x WIND LOAI	0.000	0.000	0.000	0.000	-0.000	0.001	-0.002
	4x(DL+LL)	0.000	0.000	0.000	0.000	0.001	-0.001	0.002
	5x0.75DL+LL+	0.000	0.000	0.000	0.000	0.001	0.001	-0.000
	1x DEAD LOAI	0.000	0.000	0.000	0.000	0.002	0.002	-0.000
	2x LIVE LOAI	0.000	0.000	0.000	0.000	0.012	0.001	-0.000
	3x WIND LOAI	0.000	0.000	0.000	0.000	-0.037	-0.003	0.000
310	4x(DL+LL)	0.000	0.000	0.000	0.000	0.032	0.003	-0.000
	5x0.75DL+LL+	0.000	0.000	0.000	0.000	-0.003	-0.000	0.000
	1x DEAD LOAI	0.000	0.000	0.000	0.000	0.028	0.000	0.000
	2x LIVE LOAI	0.000	0.000	0.000	0.000	0.015	0.000	0.000
	3x WIND LOAI	0.000	0.000	0.000	0.000	-0.050	0.000	-0.000
	4x(DL+LL)	0.000	0.000	0.000	0.000	0.043	0.000	0.000
311	5x0.75DL+LL+	0.000	0.000	0.000	0.000	-0.005	-0.000	-0.000
	1x DEAD LOAI	0.000	0.000	0.000	0.000	0.021	-0.002	0.000
	2x LIVE LOAI	0.000	0.000	0.000	0.000	0.012	-0.001	0.000
	3x WIND LOAI	0.000	0.000	0.000	0.000	-0.037	0.003	-0.000
	4x(DL+LL)	0.000	0.000	0.000	0.000	0.032	0.003	-0.000
	5x0.75DL+LL+	0.000	0.000	0.000	0.000	-0.003	-0.000	0.000
312	4x(DL+LL)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	1x DEAD LOAI	0.000	0.000	0.000	0.000	0.001	0.000	-0.001
	2x LIVE LOAI	0.000	0.000	0.000	0.000	0.000	0.000	-0.001
	3x WIND LOAI	0.000	0.000	0.000	0.000	-0.000	-0.001	0.002
	4x(DL+LL)	0.000	0.000	0.000	0.000	0.001	0.001	-0.002
	5x0.75DL+LL+	0.000	0.000	0.000	0.000	0.001	-0.000	0.000
401	1x DEAD LOAI	0.005	-0.020	0.011	0.023	0.002	0.000	0.001
	2x LIVE LOAI	0.003	-0.014	0.006	0.016	0.000	0.000	0.001
	3x WIND LOAI	-0.011	0.045	-0.019	0.050	-0.000	-0.001	-0.002
	4x(DL+LL)	0.008	-0.034	0.017	0.039	0.002	0.001	0.001
	5x0.75DL+LL+	-0.002	0.008	-0.001	0.009	0.001	-0.000	-0.000
	1x DEAD LOAI	0.005	-0.010	0.002	0.011	0.002	0.000	-0.002
402	2x LIVE LOAI	0.003	-0.006	0.000	0.007	0.000	0.000	-0.002
	3x WIND LOAI	-0.011	0.019	-0.001	0.022	-0.000	-0.001	0.006
	4x(DL+LL)	0.008	-0.016	0.002	0.018	0.002	0.001	-0.004
	5x0.75DL+LL+	-0.002	0.002	0.001	0.003	0.001	-0.000	0.001
	1x DEAD LOAI	0.002	-0.032	0.457	0.458	0.075	-0.002	0.000
	2x LIVE LOAI	0.002	-0.019	0.251	0.262	0.042	-0.001	0.000
403	3x WIND LOAI	-0.006	0.060	-0.836	0.838	-0.135	0.003	-0.000
	4x(DL+LL)	0.004	-0.051	0.718	0.720	0.117	-0.003	0.000
	5x0.75DL+LL+	-0.001	0.007	-0.088	0.088	-0.013	0.000	-0.000
	1x DEAD LOAI	-0.000	-0.039	0.621	0.622	0.101	-0.000	0.000
	2x LIVE LOAI	-0.000	0.071	0.354	0.354	0.057	-0.000	0.000
	3x WIND LOAI	0.000	0.021	-1.132	1.134	-0.181	0.000	-0.000
404	4x(DL+LL)	-0.000	-0.061	0.975	0.977	0.158	0.000	0.000
	5x0.75DL+LL+	0.000	0.008	-0.118	0.118	-0.018	0.000	-0.000
	1x DEAD LOAI	-0.002	-0.032	0.457	0.458	0.075	0.002	-0.000
	2x LIVE LOAI	-0.002	-0.019	0.261	0.262	0.042	0.001	-0.000
	3x WIND LOAI	0.006	0.060	-0.836	0.838	-0.135	-0.003	0.000
	4x(DL+LL)	-0.004	-0.051	0.718	0.720	0.117	0.003	-0.000
405	5x0.75DL+LL+	0.001	0.007	-0.088	0.088	-0.013	-0.000	0.000
	1x DEAD LOAI	-0.005	-0.010	0.002	0.011	0.002	-0.000	0.002
	2x LIVE LOAI	-0.003	-0.006	0.000	0.007	0.000	-0.000	0.002
	3x WIND LOAI	0.011	0.019	-0.001	0.022	-0.000	0.001	-0.006
	4x(DL+LL)	-0.008	-0.016	0.002	0.018	0.002	-0.001	0.004
	5x0.75DL+LL+	0.002	0.002	0.001	0.003	0.001	0.000	-0.001
407	1x DEAD LOAI	-0.005	-0.020	0.011	0.023	0.002	-0.000	-0.001
	2x LIVE LOAI	-0.003	-0.014	0.006	0.016	0.000	-0.000	-0.001
	3x WIND LOAI	0.011	0.045	-0.019	0.050	-0.000	0.001	-0.002
	4x(DL+LL)	-0.008	-0.034	0.017	0.039	0.002	-0.001	0.001
	5x0.75DL+LL+	0.002	0.008	-0.001	0.009	0.001	0.000	0.000
	1x 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)
520	50.75/DL+LL+	0.131	1.519	-0.035	1.525	0.003	-0.000	0.011
	1X DEAD LOAD	-0.634	-7.324	0.304	7.368	-0.025	0.004	-0.051
	2X LIVE LOAD	-0.177	4.220	-0.014	0.189	-0.014	0.002	-0.029
	3X WIND LOAD	1.151	13.444	-0.565	13.505	0.046	-0.007	0.093
	4(DL+LL)	-0.984	-11.525	0.481	11.578	-0.040	0.006	-0.080
	50.75/DL+LL+	0.118	1.439	-0.063	1.445	0.005	-0.001	0.010
521	1X DEAD LOAD	-0.569	-6.672	0.260	6.711	-0.037	0.002	-0.046
	2X LIVE LOAD	-0.322	-3.827	0.260	3.850	-0.021	0.001	-0.026
	3X WIND LOAD	1.031	12.247	-0.831	12.319	0.068	-0.004	0.083
	4(DL+LL)	-0.891	-10.469	0.710	10.561	-0.059	0.003	-0.072
	50.75/DL+LL+	0.105	1.311	-0.091	1.319	0.007	-0.000	0.008
522	1X DEAD LOAD	-0.352	-4.790	0.467	4.825	-0.056	-0.002	-0.041
	2X LIVE LOAD	-0.199	-2.738	0.272	2.768	-0.033	-0.001	-0.023
	3X WIND LOAD	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	-0.068	-0.003	-0.064
	50.75/DL+LL+	0.054	0.925	-0.098	0.932	0.012	0.000	0.007
523	1X DEAD LOAD	-0.211	-3.507	0.266	3.524	-0.071	-0.001	-0.035
	2X LIVE LOAD	-0.119	-1.991	0.152	2.000	-0.041	-0.001	-0.020
	3X WIND LOAD	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
	50.75/DL+LL+	0.038	0.654	-0.052	0.657	0.014	0.000	0.006
524	1X DEAD LOAD	-0.091	-1.852	-0.023	1.865	-0.086	-0.001	-0.025
	2X LIVE LOAD	-0.051	-1.044	-0.015	1.045	-0.049	-0.001	-0.014
	3X WIND LOAD	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
	50.75/DL+LL+	0.016	0.333	0.007	0.333	0.016	0.000	0.005
601	1X DEAD LOAD	-0.000	-6.479	0.479	6.496	0.079	-0.000	0.000
	2X LIVE LOAD	-0.000	-3.693	0.275	3.703	0.046	-0.000	-0.000
	3X WIND LOAD	0.000	11.817	-0.879	11.849	-0.147	0.000	0.000
	4(DL+LL)	-0.000	-10.171	0.754	10.196	0.125	-0.000	-0.000
	50.75/DL+LL+	0.000	1.234	-0.094	1.238	-0.016	0.000	0.000
602	1X DEAD LOAD	-0.000	-4.727	0.558	4.759	0.099	-0.000	0.000
	2X LIVE LOAD	-0.000	-2.680	0.320	2.699	0.057	-0.000	-0.000
	3X WIND LOAD	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
	50.75/DL+LL+	0.000	0.877	-0.109	0.884	-0.020	0.000	0.000
603	1X DEAD LOAD	-0.000	-2.480	0.592	2.550	0.120	-0.000	0.000
	2X LIVE LOAD	-0.000	-1.399	0.338	1.439	0.068	-0.000	-0.000
	3X WIND LOAD	0.000	4.476	-1.083	4.605	-0.218	0.000	0.000
	4(DL+LL)	-0.000	-3.679	0.931	3.969	0.188	-0.000	-0.000
	50.75/DL+LL+	0.000	0.447	-0.114	0.462	-0.022	0.000	0.000
604	1X DEAD LOAD	-0.000	-9.055	0.307	9.060	0.051	-0.000	0.000
	2X LIVE LOAD	-0.000	-5.177	0.176	5.180	0.029	-0.000	-0.000
	3X WIND LOAD	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
	50.75/DL+LL+	0.000	1.762	-0.061	1.763	-0.010	0.000	0.000
605	1X DEAD LOAD	-0.000	-9.544	0.214	9.546	0.035	-0.000	0.000
	2X LIVE LOAD	-0.000	-5.688	0.123	5.689	0.020	-0.000	-0.000
	3X WIND LOAD	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
	50.75/DL+LL+	0.000	1.927	-0.042	1.927	-0.007	0.000	0.000
606	1X DEAD LOAD	-0.000	-10.459	0.107	10.460	0.019	-0.000	0.000
	2X LIVE LOAD	-0.000	-5.988	0.061	5.989	0.011	-0.000	-0.000
	3X WIND LOAD	0.000	19.163	-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
	50.75/DL+LL+	0.000	2.036	-0.021	2.036	-0.004	0.000	0.000
607	1X DEAD LOAD	-0.000	-10.459	-0.107	10.460	-0.019	0.000	-0.000
	2X LIVE LOAD	-0.000	-5.988	-0.061	5.989	-0.011	0.000	-0.000
	3X WIND LOAD	0.000	19.162	0.196	19.163	0.036	-0.000	0.000



Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rx (deg)	ry (deg)	rz (deg)
508	1X DEAD LOAD	0.345	-7.334	-0.156	7.334	-0.025	-0.001	-0.051
	2X LIVE LOAD	0.196	-4.202	-0.089	4.207	-0.015	-0.001	-0.029
	3X WIND LOAD	1.151	13.444	-0.565	13.505	0.046	-0.007	0.093
	4(DL+LL)	-0.541	-11.525	0.245	11.541	-0.040	-0.002	-0.080
	50.75/DL+LL+	-0.065	1.440	0.031	1.442	0.005	0.000	0.010
509	1X DEAD LOAD	0.312	-6.678	-0.224	6.689	-0.037	-0.002	-0.046
	2X LIVE LOAD	0.178	-3.831	-0.129	3.837	-0.021	-0.001	-0.026
	3X WIND LOAD	1.151	13.444	-0.565	13.505	0.046	-0.007	0.093
	4(DL+LL)	-0.490	-10.509	0.353	10.527	-0.058	-0.002	-0.072
	50.75/DL+LL+	-0.059	1.312	0.145	1.314	0.007	0.000	0.009
510	1X DEAD LOAD	0.238	-4.795	-0.351	4.814	-0.058	-0.005	-0.041
	2X LIVE LOAD	0.136	-2.740	-0.202	2.751	-0.034	-0.003	-0.023
	3X WIND LOAD	1.151	13.444	-0.565	13.505	0.046	-0.007	0.093
	4(DL+LL)	-0.434	-8.768	0.647	8.803	0.109	0.008	0.074
	50.75/DL+LL+	0.074	-7.535	-0.553	7.565	-0.092	-0.007	-0.064
	50.75/DL+LL+	0.045	0.925	0.070	0.929	0.012	0.001	0.007
511	1X DEAD LOAD	0.136	-3.507	-0.410	3.534	-0.073	-0.005	-0.035
	2X LIVE LOAD	0.078	-1.991	-0.236	2.006	-0.042	-0.003	-0.020
	3X WIND LOAD	1.151	13.444	-0.565	13.505	0.046	-0.007	0.093
	4(DL+LL)	-0.248	-6.371	0.754	6.420	0.135	0.009	0.064
	50.75/DL+LL+	0.214	-5.498	-0.645	5.540	-0.116	-0.008	-0.065
	50.75/DL+LL+	-0.025	0.654	0.082	0.660	0.015	0.001	0.006
512	1X DEAD LOAD	0.089	-1.847	-0.436	1.898	-0.089	-0.004	-0.025
	2X LIVE LOAD	0.022	-1.041	-0.250	1.070	-0.050	-0.002	-0.014
	3X WIND LOAD	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
	50.75/DL+LL+	-0.008	0.332	0.085	0.343	0.017	0.001	0.005
513	1X DEAD LOAD	-0.352	-4.790	-0.467	4.825	-0.056	-0.002	-0.041
	2X LIVE LOAD	-0.199	-2.738	0.272	2.768	-0.033	0.001	-0.023
	3X WIND LOAD	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	-0.068	-0.003	-0.064
	50.75/DL+LL+	0.064	0.925	0.098	0.932	0.012	0.000	0.007
514	1X DEAD LOAD	-0.211	-3.507	-0.266	3.524	-0.071	-0.001	-0.035
	2X LIVE LOAD	-0.119	-1.991	-0.152	2.000	-0.041	0.001	-0.020
	3X WIND LOAD	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
	50.75/DL+LL+	0.038	0.654	0.052	0.657	0.014	0.000	0.006
515	1X DEAD LOAD	-0.091	-1.852	0.023	1.865	-0.086	0.001	-0.025
	2X LIVE LOAD	-0.051	-1.044	0.015	1.045	-0.049	0.001	-0.014
	3X WIND LOAD	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
	50.75/DL+LL+	0.016	0.333	0.007	0.333	0.016	0.000	0.005
516	1X DEAD LOAD	-0.000	-6.479	0.479	6.496	0.079	-0.000	0.000
	2X LIVE LOAD	-0.000	-3.693	0.275	3.703	0.046	-0.000	-0.000
	3X WIND LOAD	0.000	11.817	-0.879	11.849	-0.147	0.000	0.000
	4(DL+LL)	-0.000	-10.171	0.754	10.196	0.125	-0.000	-0.000
	50.75/DL+LL+	0.000	1.234	-0.094	1.238	-0.016	0.000	0.000
517	1X DEAD LOAD	-0.000	-4.727	0.558	4.759	0.099	-0.000	0.000
	2X LIVE LOAD	-0.000	-2.680	0.320	2.699	0.057	-0.000	-0.000
	3X WIND LOAD	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
	50.75/DL+LL+	0.000	0.877	-0.109	0.884	-0.020	0.000	0.000
518	1X DEAD LOAD	-0.000	-2.480	0.592	2.550	0.120	-0.000	0.000
	2X LIVE LOAD	-0.000	-1.399	0.338	1.439	0.068	-0.000	-0.000
	3X WIND LOAD	0.000	4.476	-1.083	4.605	-0.218	0.000	0.000
	4(DL+LL)	-0.000	-3.679	0.931	3.969	0.188	-0.000	-0.000
	50.75/DL+LL+	0.000	0.447	-0.114	0.462	-0.022	0.000	0.000
519	1X DEAD LOAD	-0.000	-9.055	0.307	9.060	0.051	-0.000	0.000
	2X LIVE LOAD	-0.000	-5.177	0.176	5.180	0.029	-0.000	-0.000
	3X WIND LOAD	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
	50.75/DL+LL+	0.000	1.762	-0.061	1.763	-0.010	0.000	0.000
520	1X DEAD LOAD	-0.000	-9.544	0.214	9.546	0.035	-0.000	0.000
	2X LIVE LOAD	-0.000	-5.688	0.123	5.689	0.020	-0.000	-0.000
	3X WIND LOAD	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
	50.75/DL+LL+	0.000	1.927	-0.042	1.927	-0.007	0.000	0.000
521	1X DEAD LOAD	-0.000	-10.459	0.107	10.460	0.019	-0.000	0.000
	2X LIVE LOAD	-0.000	-5.988	0.061	5.989	0.011	-0.000	-0.000

Node Displacements Cont...

Node	U/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rx (deg)	ry (deg)	rz (deg)
620	3x WIND LOAI	0.000	19.142	-0.412	19.147	0.035	-0.000	0.000
	4x(DL+LL)	-0.000	-16.430	0.349	16.434	-0.029	0.000	-0.000
	50.75(DL+LL+)	0.000	2.034	-0.047	2.035	0.004	-0.000	0.000
621	1x DEAD LOAI	-0.000	-9.544	0.419	9.552	-0.035	0.000	-0.000
	2x WIND LOAI	-0.000	-5.687	0.242	5.692	-0.020	0.000	-0.000
	3x WIND LOAI	0.000	18.199	-0.775	18.215	0.064	-0.000	0.000
	4x(DL+LL)	-0.000	-15.631	0.661	15.645	-0.055	0.000	-0.000
	50.75(DL+LL+)	0.000	1.928	-0.085	1.928	0.007	-0.000	0.000
622	1x DEAD LOAI	-0.000	-9.046	0.618	9.067	-0.051	0.000	-0.000
	2x WIND LOAI	-0.000	-5.173	0.356	5.185	-0.029	0.000	-0.000
	3x WIND LOAI	0.000	16.553	-1.138	16.562	0.093	-0.000	0.000
	4x(DL+LL)	-0.000	-14.219	0.973	14.252	-0.080	0.000	-0.000
	50.75(DL+LL+)	0.000	1.750	-0.123	1.755	0.010	-0.000	0.000
623	1x DEAD LOAI	-0.000	-6.472	0.634	6.503	-0.076	0.000	-0.000
	2x WIND LOAI	-0.000	-3.689	0.367	3.708	-0.044	0.000	-0.000
	3x WIND LOAI	0.000	11.806	-1.173	11.864	0.142	-0.000	0.000
	4x(DL+LL)	-0.000	-10.162	1.001	10.211	-0.121	0.000	-0.000
	50.75(DL+LL+)	0.000	1.233	-0.129	1.240	0.016	-0.000	0.000
624	1x DEAD LOAI	-0.000	-4.726	0.358	4.740	-0.096	0.000	-0.000
	2x WIND LOAI	-0.000	-2.688	0.204	2.688	-0.055	0.000	-0.000
	3x WIND LOAI	0.000	8.576	-0.653	8.601	0.177	-0.000	0.000
	4x(DL+LL)	-0.000	-7.406	0.562	7.428	-0.151	0.000	-0.000
	50.75(DL+LL+)	0.000	0.877	-0.068	0.880	0.019	-0.000	0.000
701	1x DEAD LOAI	-0.000	-2.488	-0.035	2.488	-0.116	0.000	-0.000
	2x WIND LOAI	-0.000	-1.403	-0.022	1.403	-0.066	0.000	-0.000
	3x WIND LOAI	0.000	4.489	0.071	4.489	0.210	-0.000	0.000
	4x(DL+LL)	-0.000	-3.891	-0.057	3.891	-0.181	0.000	-0.000
	50.75(DL+LL+)	0.000	0.449	0.010	0.449	0.021	-0.000	0.000
702	1x DEAD LOAI	-0.000	-4.795	0.351	4.814	0.058	-0.005	0.041
	2x WIND LOAI	-0.000	-2.740	0.202	2.751	0.034	-0.003	0.023
	3x WIND LOAI	0.000	8.768	-0.647	8.803	-0.109	0.008	-0.074
	4x(DL+LL)	-0.000	-7.535	0.553	7.565	-0.092	-0.007	0.064
	50.75(DL+LL+)	0.000	0.925	-0.070	0.929	-0.012	0.001	-0.007
703	1x DEAD LOAI	-0.000	-3.507	0.410	3.534	0.073	-0.005	0.035
	2x WIND LOAI	-0.000	-1.991	0.236	2.006	0.042	-0.003	0.020
	3x WIND LOAI	0.000	6.371	-0.754	6.420	-0.135	0.009	-0.064
	4x(DL+LL)	-0.000	-5.498	0.645	5.540	0.116	-0.008	0.055
	50.75(DL+LL+)	0.000	0.654	-0.062	0.660	-0.015	0.001	-0.006
704	1x DEAD LOAI	-0.000	-1.847	0.436	1.888	0.089	-0.004	0.025
	2x WIND LOAI	-0.000	-1.041	0.250	1.070	0.050	-0.002	0.014
	3x WIND LOAI	0.000	3.330	-0.799	3.425	-0.161	0.008	-0.045
	4x(DL+LL)	-0.000	-2.887	0.685	2.968	0.139	-0.006	0.039
	50.75(DL+LL+)	0.000	0.343	-0.085	0.343	-0.017	0.001	-0.005
705	1x DEAD LOAI	-0.000	-6.678	0.224	6.689	0.037	-0.002	0.026
	2x WIND LOAI	-0.000	-3.831	0.129	3.837	0.021	-0.001	0.016
	3x WIND LOAI	0.000	12.259	-0.413	12.279	-0.067	0.003	-0.083
	4x(DL+LL)	-0.000	-10.509	0.353	10.527	0.058	-0.002	0.072
	50.75(DL+LL+)	0.000	1.312	-0.045	1.314	-0.007	0.000	-0.009
706	1x DEAD LOAI	-0.000	-7.324	0.155	7.334	0.025	-0.001	0.029
	2x WIND LOAI	-0.000	-4.202	0.089	4.207	0.015	-0.001	0.029
	3x WIND LOAI	0.000	13.445	-0.286	13.463	-0.047	0.003	-0.093
	4x(DL+LL)	-0.000	-11.525	0.245	11.541	0.040	-0.002	0.080
	50.75(DL+LL+)	0.000	1.440	-0.031	1.442	-0.005	0.000	-0.010
707	1x DEAD LOAI	-0.000	-7.693	0.078	7.703	0.013	-0.002	0.056
	2x WIND LOAI	-0.000	-4.418	0.045	4.424	0.008	-0.001	0.032
	3x WIND LOAI	0.000	14.139	-0.143	14.156	-0.026	0.003	-0.102
	4x(DL+LL)	-0.000	-12.111	0.122	12.126	0.021	-0.003	0.088
	50.75(DL+LL+)	0.000	0.572	-0.016	0.572	-0.003	0.000	-0.011
	2x WIND LOAI	-0.000	-3.378	-0.078	3.378	-0.013	0.002	0.056

Node Displacements Cont...

Node	U/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rx (deg)	ry (deg)	rz (deg)
608	4x(DL+LL)	-0.000	-16.447	-0.168	16.448	-0.030	0.000	-0.000
	50.75(DL+LL+)	0.000	2.036	0.021	2.036	0.004	-0.000	0.000
	1x DEAD LOAI	-0.000	-9.944	-0.214	9.946	-0.035	0.000	-0.000
	2x WIND LOAI	-0.000	-5.688	-0.123	5.689	-0.020	0.000	-0.000
	3x WIND LOAI	0.000	18.200	0.393	18.204	0.065	-0.000	0.000
	4x(DL+LL)	-0.000	-15.631	-0.336	15.635	-0.055	0.000	-0.000
	50.75(DL+LL+)	0.000	1.927	0.042	1.927	0.007	-0.000	0.000
609	1x DEAD LOAI	-0.000	-9.055	-0.307	9.060	-0.051	0.000	-0.000
	2x WIND LOAI	-0.000	-5.177	-0.176	5.180	-0.029	0.000	-0.000
	3x WIND LOAI	0.000	16.568	0.564	16.577	0.092	-0.000	0.000
	4x(DL+LL)	-0.000	-14.232	-0.483	14.240	-0.079	0.000	-0.000
	50.75(DL+LL+)	0.000	1.752	0.061	1.753	0.010	-0.000	0.000
610	1x DEAD LOAI	-0.000	-6.479	-0.479	6.496	-0.079	0.000	-0.000
	2x WIND LOAI	-0.000	-3.693	-0.275	3.703	-0.046	0.000	-0.000
	3x WIND LOAI	0.000	11.817	0.879	11.849	0.147	-0.000	0.000
	4x(DL+LL)	-0.000	-10.171	-0.754	10.199	-0.125	0.000	-0.000
	50.75(DL+LL+)	0.000	1.234	0.094	1.238	0.016	-0.000	0.000
611	1x DEAD LOAI	-0.000	-4.727	-0.558	4.759	-0.099	0.000	-0.000
	2x WIND LOAI	-0.000	-2.680	-0.320	2.689	-0.067	0.000	-0.000
	3x WIND LOAI	0.000	8.576	1.023	8.637	0.183	-0.000	0.000
	4x(DL+LL)	-0.000	-7.407	-0.878	7.459	-0.156	0.000	-0.000
	50.75(DL+LL+)	0.000	0.877	0.109	0.884	0.020	-0.000	0.000
612	1x DEAD LOAI	-0.000	-2.480	-0.592	2.550	-0.120	0.000	-0.000
	2x WIND LOAI	-0.000	-1.399	-0.338	1.439	-0.068	0.000	-0.000
	3x WIND LOAI	0.000	4.476	1.083	4.605	0.218	-0.000	0.000
	4x(DL+LL)	-0.000	-3.879	-0.931	3.969	-0.188	0.000	-0.000
	50.75(DL+LL+)	0.000	0.447	0.114	0.462	0.022	-0.000	0.000
613	1x DEAD LOAI	-0.000	-6.472	-0.634	6.503	0.076	-0.000	-0.000
	2x WIND LOAI	-0.000	-3.689	-0.367	3.708	-0.044	0.000	-0.000
	3x WIND LOAI	0.000	11.806	1.173	11.864	0.142	-0.000	0.000
	4x(DL+LL)	-0.000	-10.162	-1.001	10.211	-0.121	0.000	-0.000
	50.75(DL+LL+)	0.000	1.233	0.129	1.240	-0.016	0.000	0.000
614	1x DEAD LOAI	-0.000	-4.726	-0.358	4.740	-0.096	0.000	-0.000
	2x WIND LOAI	-0.000	-2.680	-0.204	2.688	-0.055	0.000	-0.000
	3x WIND LOAI	0.000	8.576	0.653	8.601	-0.177	0.000	0.000
	4x(DL+LL)	-0.000	-7.406	-0.562	7.428	0.151	-0.000	-0.000
	50.75(DL+LL+)	0.000	0.877	0.068	0.880	-0.019	0.000	0.000
615	1x DEAD LOAI	-0.000	-2.488	0.035	2.488	0.116	-0.000	-0.000
	2x WIND LOAI	-0.000	-1.403	0.022	1.403	0.066	-0.000	-0.000
	3x WIND LOAI	0.000	4.489	-0.071	4.489	-0.210	0.000	0.000
	4x(DL+LL)	-0.000	-3.891	0.057	3.891	0.181	-0.000	-0.000
	50.75(DL+LL+)	0.000	0.449	-0.010	0.449	-0.021	0.000	0.000
616	1x DEAD LOAI	-0.000	-9.046	-0.618	9.067	0.051	-0.000	-0.000
	2x WIND LOAI	-0.000	-5.173	-0.356	5.185	0.029	-0.000	-0.000
	3x WIND LOAI	0.000	16.553	1.138	16.562	-0.053	0.000	0.000
	4x(DL+LL)	-0.000	-14.219	-0.973	14.252	0.080	-0.000	-0.000
	50.75(DL+LL+)	0.000	1.750	0.123	1.755	-0.010	0.000	0.000
617	1x DEAD LOAI	-0.000	-8.944	-0.419	8.952	0.035	-0.000	-0.000
	2x WIND LOAI	-0.000	-5.687	-0.242	5.692	0.020	-0.000	-0.000
	3x WIND LOAI	0.000	18.199	0.775	18.215	-0.064	0.000	0.000
	4x(DL+LL)	-0.000	-15.631	-0.661	15.645	0.055	-0.000	-0.000
	50.75(DL+LL+)	0.000	1.926	0.085	1.928	-0.007	0.000	0.000
618	1x DEAD LOAI	-0.000	-10.448	-0.220	10.450	0.018	-0.000	-0.000
	2x WIND LOAI	-0.000	-5.982	-0.129	5.983	0.011	-0.000	-0.000
	3x WIND LOAI	0.000	19.142	0.412	19.147	-0.035	0.000	0.000
	4x(DL+LL)	-0.000	-16.430	-0.349	16.434	0.029	-0.000	-0.000
	50.75(DL+LL+)	0.000	2.034	0.047	2.035	-0.004	0.000	0.000
619	1x DEAD LOAI	-0.000	-10.448	0.220	10.450	-0.018	0.000	-0.000
	2x WIND LOAI	-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)	α_X (deg)	α_Y (deg)	α_Z (deg)
719	1 $\downarrow$ DEAD LOAI	0.6589	-7.685	0.168	7.718	-0.013	-0.002	0.056
	2 $\downarrow$ LIVE LOAI	0.397	-4.414	0.093	4.433	-0.008	-0.001	0.032
	3 $\downarrow$ WIND LOAI	-1.271	14.125	-0.268	14.185	0.024	0.004	-0.102
	4 $\downarrow$ CD+LL	1.097	-12.099	0.252	12.151	-0.020	-0.003	0.088
	5 $\downarrow$ 0.75(0L+LL)	-0.131	1.519	-0.035	1.525	0.003	0.000	-0.011
720	1 $\downarrow$ DEAD LOAI	0.634	-7.324	0.304	7.358	-0.025	-0.004	0.051
	2 $\downarrow$ LIVE LOAI	0.360	-4.201	0.177	4.220	-0.014	-0.002	0.029
	3 $\downarrow$ WIND LOAI	-1.151	13.444	-0.565	13.505	0.046	0.007	-0.093
	4 $\downarrow$ CD+LL	0.994	-11.525	0.481	11.578	-0.040	-0.006	0.080
	5 $\downarrow$ 0.75(0L+LL)	-0.118	1.439	-0.063	1.445	0.005	0.001	-0.010
721	1 $\downarrow$ DEAD LOAI	0.569	-6.672	0.450	6.711	-0.037	-0.002	0.046
	2 $\downarrow$ LIVE LOAI	0.322	-3.927	0.260	3.950	-0.021	-0.001	0.026
	3 $\downarrow$ WIND LOAI	-1.031	12.247	-0.831	12.319	0.068	0.004	-0.093
	4 $\downarrow$ CD+LL	0.891	-10.499	0.710	10.561	-0.059	-0.003	0.072
	5 $\downarrow$ 0.75(0L+LL)	-0.105	1.311	-0.091	1.319	0.007	0.000	-0.008
722	1 $\downarrow$ DEAD LOAI	0.352	-4.790	0.467	4.825	-0.056	0.002	0.041
	2 $\downarrow$ LIVE LOAI	0.199	-2.738	0.272	2.758	-0.033	0.001	0.023
	3 $\downarrow$ WIND LOAI	-0.936	8.760	-0.870	8.826	0.104	-0.004	-0.073
	4 $\downarrow$ CD+LL	0.550	-7.527	0.739	7.593	-0.088	0.003	0.064
	5 $\downarrow$ 0.75(0L+LL)	-0.064	0.925	-0.098	0.932	0.012	-0.000	-0.007
723	1 $\downarrow$ DEAD LOAI	0.211	-3.507	0.586	3.524	-0.071	0.001	0.035
	2 $\downarrow$ LIVE LOAI	0.119	-1.991	0.162	2.000	-0.041	0.001	0.020
	3 $\downarrow$ WIND LOAI	-0.381	6.370	-0.487	6.400	0.131	-0.002	-0.064
	4 $\downarrow$ CD+LL	0.331	-5.498	0.418	5.524	-0.112	0.002	0.055
	5 $\downarrow$ 0.75(0L+LL)	-0.038	0.654	-0.052	0.657	0.014	-0.000	-0.006
724	1 $\downarrow$ DEAD LOAI	0.091	-1.852	-0.023	1.855	-0.086	0.001	0.025
	2 $\downarrow$ LIVE LOAI	0.051	-1.044	-0.015	1.045	-0.049	0.001	0.014
	3 $\downarrow$ WIND LOAI	-0.164	3.340	0.048	3.344	0.156	-0.002	-0.045
	4 $\downarrow$ CD+LL	0.143	-2.896	-0.038	2.900	-0.134	0.002	0.039
	5 $\downarrow$ 0.75(0L+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)
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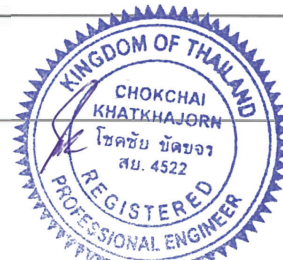
Results are not available - This Printing is possible only from Post Processing

Reactions

Node	L/C	Horizontal		Vertical	Horizontal		Moment		
		FX (kg)	FY (kg)	FZ (kg)	MX (kg.m)	MY (kg.m)	MZ (kg.m)		
35	1; DEAD LOA1	641.154	2.74E+3	-0.926	0.000	0.000	0.000	0.000	
	2; LIVE LOAD	364.973	1.62E+3	0.095	0.000	0.000	0.000	0.000	
	3; WIND LOA1	-1.17E+3	-5.17E+3	-2.223	0.000	0.000	0.000	0.000	
	4; DL+LL	1.01E+3	4.35E+3	-0.232	0.000	0.000	0.000	0.000	
	5; 750U+LL+*	-121.339	4.62E+07	-1.841	0.000	0.000	0.000	0.000	
36	1; DEAD LOA1	-641.154	2.74E+3	-0.926	0.000	0.000	0.000	0.000	
	2; LIVE LOAD	-364.973	1.62E+3	0.095	0.000	0.000	0.000	0.000	
	3; WIND LOA1	1.17E+3	-5.17E+3	-2.223	0.000	0.000	0.000	0.000	
	4; DL+LL	-1.01E+3	4.35E+3	-0.232	0.000	0.000	0.000	0.000	
	5; 750U+LL+*	121.339	4.62E+07	-1.841	0.000	0.000	0.000	0.000	
135	1; DEAD LOA1	854.135	3.19E+3	-0.000	0.000	0.000	0.000	0.000	
	2; LIVE LOAD	488.651	1.89E+3	-0.000	0.000	0.000	0.000	0.000	
	3; WIND LOA1	-1.56E+3	-6.03E+3	0.000	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	0.000	
	5; 750U+LL+*	-165.673	-723.011	0.000	0.000	0.000	0.000	0.000	
136	1; DEAD LOA1	-854.135	3.19E+3	-0.000	0.000	0.000	0.000	0.000	

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (deg)	rY (deg)	rZ (deg)
708	2(LIVE LOAD	-0.215	-4.418	-0.045	4.424	-0.008	0.001	0.032
	3(WIND LOAD	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(0.75DL+LL	0.072	1.521	0.016	1.522	0.003	-0.000	-0.011
	1(DEAD LOAD	-0.345	-0.734	-0.155	7.437	-0.025	0.001	0.051
	2(LIVE LOAD	-0.196	-4.202	-0.089	4.207	-0.015	0.001	0.029
709	3(WIND LOAD	0.628	13.445	0.286	13.463	0.047	-0.003	-0.083
	4(DL+LL)	-0.541	-11.525	-0.245	11.541	-0.040	0.002	0.080
	5(0.75DL+LL	0.065	1.440	0.031	1.442	0.005	-0.000	-0.010
	1(DEAD LOAD	-0.312	-0.678	-0.224	6.887	-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 LOAD	0.569	12.269	0.413	12.279	0.067	-0.003	-0.083
710	4(DL+LL)	-0.490	-10.599	-0.353	10.527	-0.058	0.002	0.072
	5(0.75DL+LL	0.059	1.312	0.045	1.314	0.007	-0.000	-0.009
	1(DEAD LOAD	-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 LOAD	0.434	8.768	0.647	8.803	0.109	-0.008	-0.074
	4(DL+LL)	-0.374	-3.753	-0.553	3.765	-0.092	0.007	0.064
711	5(0.75DL+LL	0.045	0.925	0.070	0.929	0.012	-0.001	-0.007
	1(DEAD LOAD	-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 LOAD	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(0.75DL+LL	0.026	0.654	0.082	0.660	0.015	-0.001	-0.006
712	1(DEAD LOAD	-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 LOAD	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(0.75DL+LL	0.008	0.332	0.085	0.343	0.017	-0.001	-0.005
	1(DEAD LOAD	0.352	-4.790	-0.467	4.825	0.056	-0.002	0.041
713	2(LIVE LOAD	0.199	-2.738	-0.272	2.758	0.033	0.003	0.023
	3(WIND LOAD	-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(0.75DL+LL	-0.064	0.925	-0.098	0.932	-0.032	0.000	-0.007
	1(DEAD LOAD	0.211	-3.507	-0.266	3.524	0.071	-0.001	0.035
	2(LIVE LOAD	0.119	-1.690	-0.152	1.700	0.041	-0.001	0.020
714	3(WIND LOAD	-0.381	6.371	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(0.75DL+LL	-0.038	0.654	0.052	0.657	-0.014	0.000	-0.008
	1(DEAD LOAD	0.091	-1.852	0.023	1.855	0.086	0.000	0.025
	2(LIVE LOAD	0.051	-1.044	0.015	1.045	0.049	-0.001	0.014
	3(WIND LOAD	-0.164	3.340	-0.048	3.344	-0.156	0.002	-0.045
715	4(DL+LL)	0.143	-2.896	0.038	2.900	0.134	-0.002	0.039
	5(0.75DL+LL	-0.016	0.333	-0.007	0.333	-0.016	0.000	-0.005
	1(DEAD LOAD	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 LOAD	-1.031	12.247	0.831	12.319	-0.088	-0.004	-0.083
	4(DL+LL)	0.891	-10.499	-0.710	10.561	0.059	0.003	0.072
716	5(0.75DL+LL	-0.105	1.311	0.091	1.319	-0.007	-0.000	-0.008
	1(DEAD LOAD	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 LOAD	-1.151	13.444	0.505	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(0.75DL+LL	-0.118	1.439	0.063	1.445	-0.005	-0.001	-0.010
717	1(DEAD LOAD	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 LOAD	-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(0.75DL+LL	-0.131	1.519	0.035	1.525	-0.003	-0.000	-0.011



Reactions Cont...

Node	L/C	FX (kg)	FY (kg)	FZ (kg)	MX (kg.m)	MY (kg.m)	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	75%DL+LL+	20.332	-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/ CRITICAL COMB/ RATIO/ M2 LOADING/ LOCATION

1	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.070	4
		0.00 F	558.73			1.50
2	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.405	4
		1.857.97 C	2875.33			0.00
3	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.133	4
		2729.36 C	-702.51			1.25
4	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.198	4
		7098.37 C	-648.32			0.00
5	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.164	4
		7086.29 C	-343.65			0.42
6	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.176	4
		8410.84 C	-307.23			0.83
7	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.199	4
		8460.30 C	-487.61			1.04
8	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.207	4
		9517.34 C	-486.88			0.31
9	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.197	4
		9504.03 C	-387.68			0.63
10	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.197	4
		9504.03 C	-387.68			0.62
11	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.207	4
		9517.34 C	-486.88			0.94
12	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.199	4
		8460.30 C	-487.61			0.21
13	ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)	0.176	4
		8410.84 C	-307.23			0.42

Reactions Cont...

Node	L/C	Horizontal			Vertical			Horizontal			Moment		
		FX (kg)	FY (kg)	FZ (kg)	MX (kg.m)	MY (kg.m)	MZ (kg.m)						
235	4(DL+LL)	-1.34E+3	5.06E+3	-0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
	50.75DL+LL+	165.673	-723.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	641.148	2.74E+3	0.926	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	364.969	1.62E+3	-0.695	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	-1.17E+3	-5.17E+3	2.223	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	1.01E+3	4.35E+3	0.232	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	-121.338	-612.607	1.841	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	641.148	2.74E+3	0.926	0.000	0.000	0.000	0.000	0.000	0.000			
236	2(LIVE LOAD)	364.969	1.62E+3	-0.695	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	-1.17E+3	-5.17E+3	2.223	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	1.01E+3	4.35E+3	0.232	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	-121.338	-612.607	1.841	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	641.148	2.74E+3	0.926	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	364.969	1.62E+3	-0.695	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	-1.17E+3	-5.17E+3	2.223	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	1.01E+3	4.35E+3	0.232	0.000	0.000	0.000	0.000	0.000	0.000			
308	50.75DL+LL+	121.338	-612.607	1.841	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	641.659	949.710	-12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	-452.200	-0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	-100.143	-1.45E+3	2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	72.954	1.3E+3	-13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	-20.392	-108.848	-8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	-3.150	2.54E+3	-408.034	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	-2.763	1.43E+3	-228.650	0.000	0.000	0.000	0.000	0.000	0.000			
309	3(WIND LOAI)	8.842	-4.57E+3	731.681	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	-5.913	3.97E+3	-636.685	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	2.197	-452.978	71.247	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	0.000	3.03E+3	-547.955	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	0.000	1.7E+3	-307.678	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	-0.000	-5.45E+3	884.570	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	0.000	4.74E+3	-965.633	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	-0.000	-535.625	96.702	0.000	0.000	0.000	0.000	0.000	0.000			
311	1(DL+LL)	3.150	2.54E+3	-408.034	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	2.763	1.43E+3	-228.650	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	-8.842	-4.57E+3	731.681	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	5.913	3.97E+3	-636.685	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	-2.197	-452.978	71.247	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	-41.659	949.710	-12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	-31.295	452.200	-0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	100.143	-1.45E+3	2.591	0.000	0.000	0.000	0.000	0.000	0.000			
312	4(DL+LL)	-72.954	1.3E+3	-13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	20.392	-108.848	-8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	41.659	949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	452.200	0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	-100.143	-1.45E+3	-2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	72.954	-1.3E+3	13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	-20.392	108.848	8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	-41.659	-949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
408	2(LIVE LOAD)	31.295	452.200	-0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	100.143	-1.45E+3	2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	-72.954	1.3E+3	-13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	20.392	-108.848	-8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	41.659	949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	452.200	0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	-100.143	-1.45E+3	-2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	72.954	-1.3E+3	13.413	0.000	0.000	0.000	0.000	0.000	0.000			
409	50.75DL+LL+	-20.392	108.848	8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	-41.659	-949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	452.200	-0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	100.143	-1.45E+3	2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	-72.954	1.3E+3	-13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	20.392	-108.848	-8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	41.659	949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	452.200	0.810	0.000	0.000	0.000	0.000	0.000	0.000			
410	3(WIND LOAI)	-100.143	-1.45E+3	-2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	72.954	-1.3E+3	13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	-20.392	108.848	8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	-41.659	-949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	452.200	-0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	100.143	-1.45E+3	2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	-72.954	1.3E+3	-13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	20.392	-108.848	-8.116	0.000	0.000	0.000	0.000	0.000	0.000			
411	1(DL+LL)	41.659	949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	452.200	-0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	100.143	-1.45E+3	2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	-72.954	1.3E+3	-13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	20.392	-108.848	-8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	-41.659	-949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	452.200	-0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	100.143	-1.45E+3	2.591	0.000	0.000	0.000	0.000	0.000	0.000			
412	4(DL+LL)	-72.954	1.3E+3	-13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	20.392	-108.848	-8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	-41.659	-949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			
	2(LIVE LOAD)	31.295	452.200	-0.810	0.000	0.000	0.000	0.000	0.000	0.000			
	3(WIND LOAI)	100.143	-1.45E+3	2.591	0.000	0.000	0.000	0.000	0.000	0.000			
	4(DL+LL)	-72.954	1.3E+3	-13.413	0.000	0.000	0.000	0.000	0.000	0.000			
	50.75DL+LL+	20.392	-108.848	-8.116	0.000	0.000	0.000	0.000	0.000	0.000			
	1(DL+LL)	-41.659	-949.710	12.603	0.000	0.000	0.000	0.000	0.000	0.000			

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	AISC- H2-1	0.212	4
		5861.79 T	1.89	-36.77	0.00
31 ST	H100X100X6	PASS	AISC- H2-1	0.214	4
		5963.30 T	-2.65	-31.46	1.28
32 ST	H100X100X6	PASS	AISC- H2-1	0.174	4
		4896.64 T	-0.23	-27.28	0.96
33 ST	H100X100X6	PASS	AISC- H2-1	0.200	4
		4731.38 T	-0.10	-63.64	0.00
34 ST	H100X100X6	PASS	AISC- H2-1	0.213	4
		935.82 T	-5.76	198.84	1.29
35 ST	H100X100X6	PASS	AISC- H2-1	0.164	4
		1402.21 T	-0.26	-151.92	0.00
36 ST	H100X100X6	PASS	AISC- H1-3	0.051	4
		4.42 C	1.18	-61.08	0.00
37 ST	H100X100X6	PASS	AISC- H1-3	0.033	4
		761.33 C	0.22	-8.79	0.83
38 ST	H100X100X6	PASS	AISC- H1-3	0.121	4
		2831.75 C	5.86	-14.26	0.00
39 ST	H100X100X6	PASS	AISC- H1-3	0.047	4
		702.04 C	0.68	26.64	1.10
40 ST	H100X100X6	PASS	AISC- H1-3	0.008	4
		0.47 C	0.05	-10.10	0.00
41 ST	H100X100X6	PASS	AISC- H1-3	0.034	4
		774.61 C	0.08	-8.10	1.10
42 ST	H100X100X6	PASS	AISC- H1-3	0.094	4
		2271.60 C	7.47	0.00	0.00
43 ST	H100X100X6	PASS	AISC- H1-3	0.034	4
		774.61 C	0.08	8.10	1.10
44 ST	H100X100X6	PASS	AISC- H1-3	0.008	4
		0.47 C	0.05	10.10	0.00
45 ST	H100X100X6	PASS	AISC- H1-3	0.047	4
		702.04 C	0.68	-26.64	1.10

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	AISC- H1-3	0.164	4
		7086.29 C	-8.85	-34.05	0.83
15 ST	H300X150X6.5	PASS	AISC- H1-3	0.198	4
		7098.37 C	3.39	-648.32	1.25
16 ST	H300X150X6.5	PASS	AISC- H1-3	0.133	4
		2729.36 C	-2.10	-702.51	0.00
17 ST	H300X150X6.5	PASS	AISC- H1-3	0.405	4
		1857.96 C	22.05	2875.33	1.25
18 ST	H300X150X6.5	PASS	AISC- H1-3	0.070	4
		0.00 T	0.00	558.73	0.00
19 ST	H100X100X6	PASS	AISC- H2-1	0.213	4
		935.82 T	-5.76	198.84	0.00
20 ST	H100X100X6	PASS	AISC- H2-1	0.200	4
		4731.38 T	-0.10	-63.64	1.28
21 ST	H100X100X6	PASS	AISC- H2-1	0.174	4
		4896.64 T	-0.23	-27.28	0.32
22 ST	H100X100X6	PASS	AISC- H2-1	0.214	4
		5963.30 T	-2.65	-31.46	0.00
23 ST	H100X100X6	PASS	AISC- H2-1	0.212	4
		5861.79 T	1.89	-36.77	1.25
24 ST	H100X100X6	PASS	AISC- H2-1	0.278	4
		8157.14 T	0.07	-37.17	1.25
25 ST	H100X100X6	PASS	AISC- H2-1	0.272	4
		8173.99 T	0.22	-28.39	0.10
26 ST	H100X100X6	PASS	AISC- H2-1	0.260	4
		7887.10 T	-0.36	-23.98	0.00
27 ST	H100X100X6	PASS	AISC- H2-1	0.260	4
		7887.10 T	-0.36	-23.98	1.25
28 ST	H100X100X6	PASS	AISC- H2-1	0.272	4
		8173.99 T	0.22	-28.39	1.15
29 ST	H100X100X6	PASS	AISC- H2-1	0.278	4
		8157.14 T	0.07	-37.17	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	AISC- H2-1	0.080	4
		2071.83 T	1.45	-16.14	1.67
63 ST	H100X100X6	PASS	AISC- H2-1	0.021	4
		299.83 T	0.04	-13.09	0.38
64 ST	H100X100X6	PASS	AISC- H2-1	0.089	4
		1566.00 T	-3.39	-39.07	1.50
65 ST	H100X100X6	PASS	AISC- H1-3	0.153	4
		2977.51 C	2.62	-45.96	0.00
101 ST	H300X150X6.5	PASS	AISC- H1-3	0.070	4
		0.00 T	0.00	558.73	1.50
102 ST	H300X150X6.5	PASS	AISC- H1-3	0.093	4
		2265.96 C	0.00	3662.80	0.00
103 ST	H300X150X6.5	PASS	AISC- H1-3	0.167	4
		3184.59 C	0.00	-902.69	1.25
104 ST	H300X150X6.5	PASS	AISC- H1-1	0.241	4
		9522.62 C	0.00	-823.45	0.00
105 ST	H300X150X6.5	PASS	AISC- H1-1	0.203	4
		9532.75 C	0.00	-464.74	0.42
106 ST	H300X150X6.5	PASS	AISC- H1-1	0.228	4
		11410.92 C	0.00	-411.32	0.83
107 ST	H300X150X6.5	PASS	AISC- H1-1	0.254	4
		11465.50 C	0.00	-645.88	1.15
108 ST	H300X150X6.5	PASS	AISC- H1-1	0.277	4
		12965.20 C	0.00	-636.21	0.21
109 ST	H300X150X6.5	PASS	AISC- H1-1	0.269	4
		12963.68 C	0.00	-558.41	0.83
110 ST	H300X150X6.5	PASS	AISC- H1-1	0.269	4
		12963.68 C	0.00	-558.41	0.42
111 ST	H300X150X6.5	PASS	AISC- H1-1	0.277	4
		12965.20 C	0.00	-636.21	1.04
112 ST	H300X150X6.5	PASS	AISC- H1-1	0.254	4
		11465.50 C	0.00	-645.88	0.10

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
46 ST	H100X100X6	PASS	AISC- H1-3	0.121	4
		2831.75 C	5.66	14.26	0.00
47 ST	H100X100X6	PASS	AISC- H1-3	0.033	4
		761.33 C	0.22	8.79	0.83
48 ST	H100X100X6	PASS	AISC- H1-3	0.051	4
		442.4 C	1.18	61.08	0.00
49 ST	H100X100X6	PASS	AISC- H2-1	0.164	4
		1402.21 T	-0.26	151.92	0.00
50 ST	H250X250X9	PASS	AISC- H1-3	0.210	4
		4174.74 C	-0.58	2515.32	2.50
51 ST	H250X250X9	PASS	AISC- H1-3	0.210	4
		4174.74 C	-0.58	2515.32	0.00
52 ST	H100X100X6	PASS	AISC- H1-3	0.153	4
		2977.51 C	2.62	-45.96	1.29
53 ST	H100X100X6	PASS	AISC- H2-1	0.089	4
		1566.00 T	-3.50	-39.07	0.00
54 ST	H100X100X6	PASS	AISC- H2-1	0.021	4
		299.83 T	0.04	-13.09	1.13
55 ST	H100X100X6	PASS	AISC- H2-1	0.080	4
		2071.83 T	1.45	-16.14	0.00
56 ST	H100X100X6	PASS	AISC- H1-3	0.061	4
		918.43 C	3.64	-20.43	1.67
57 ST	H100X100X6	PASS	AISC- H2-1	0.043	4
		463.74 T	-3.71	-25.10	0.00
58 ST	H100X100X6	PASS	AISC- H2-1	0.048	4
		829.00 T	2.69	-20.11	1.67
59 ST	H100X100X6	PASS	AISC- H2-1	0.048	4
		829.00 T	2.68	-20.11	0.00
60 ST	H100X100X6	PASS	AISC- H2-1	0.043	4
		463.74 T	-3.71	-25.10	1.67
61 ST	H100X100X6	PASS	AISC- H1-3	0.061	4
		918.43 C	3.64	-20.43	0.00



Steel Design (Track 0) Checks Cont...

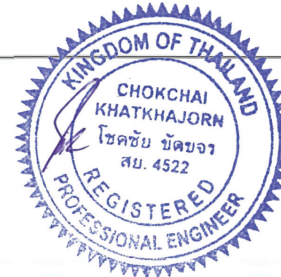
ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
129 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.374 -50.52	4 0.00
130 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
131 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
132 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
133 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
134 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
135 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
136 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
137 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
138 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
139 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
140 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
141 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
142 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
143 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00
144 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.279 -36.06	4 0.00

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

113 ST	H300X150X6.5	PASS	AISC- H1-1 0.00	0.228 -411.32	4 0.42
114 ST	H300X150X6.5	PASS	AISC- H1-1 0.00	0.203 -464.74	4 0.83
115 ST	H300X150X6.5	PASS	AISC- H1-1 0.00	0.241 -823.45	4 1.25
116 ST	H300X150X6.5	PASS	AISC- H1-1 0.00	0.241 -823.45	4 1.25
117 ST	H300X150X6.5	PASS	AISC- H1-1 0.00	0.241 -823.45	4 1.25
118 ST	H300X150X6.5	PASS	AISC- H1-1 0.00	0.241 -823.45	4 1.25
119 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
120 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
121 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
122 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
123 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
124 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
125 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
126 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
127 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00
128 ST	H100X100X6	PASS	AISC- H2-1 0.00	0.251 -251.04	4 0.00



Steel Design (Track 0) Checks Cont...

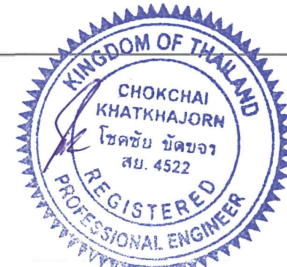
ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
161 ST	H100X100X6	PASS	AISC- H1-3 1098.12 C	(JAPANESE SECTIONS) 0.068 -28.84	4 0.00
162 ST	H100X100X6	PASS	AISC- H2-1 2457.11 T	(JAPANESE SECTIONS) 0.096 -23.66	4 1.67
163 ST	H100X100X6	PASS	AISC- H1-3 14.45 C	(JAPANESE SECTIONS) 0.017 -18.99	4 0.25
164 ST	H100X100X6	PASS	AISC- H2-1 2426.25 T	(JAPANESE SECTIONS) 0.118 -50.65	4 1.50
165 ST	H100X100X6	PASS	AISC- H1-3 3983.08 C	(JAPANESE SECTIONS) 0.195 -58.60	4 0.00
201 ST	H300X150X6.5	PASS	AISC- H1-3 0.00 T	(JAPANESE SECTIONS) 0.070 558.73	4 1.50
202 ST	H300X150X6.5	PASS	AISC- H1-3 1857.98 C	(JAPANESE SECTIONS) 0.405 2875.31	4 0.00
203 ST	H300X150X6.5	PASS	AISC- H1-3 2729.34 C	(JAPANESE SECTIONS) 0.133 -702.42	4 1.25
204 ST	H300X150X6.5	PASS	AISC- H1-3 7098.53 C	(JAPANESE SECTIONS) 0.198 -648.23	4 0.00
205 ST	H300X150X6.5	PASS	AISC- H1-3 7086.46 C	(JAPANESE SECTIONS) 0.164 -343.69	4 0.42
206 ST	H300X150X6.5	PASS	AISC- H1-3 8410.84 C	(JAPANESE SECTIONS) 0.176 -307.23	4 0.83
207 ST	H300X150X6.5	PASS	AISC- H1-3 8460.30 C	(JAPANESE SECTIONS) 0.199 -487.61	4 1.04
208 ST	H300X150X6.5	PASS	AISC- H1-1 9517.34 C	(JAPANESE SECTIONS) 0.207 -486.88	4 0.31
209 ST	H300X150X6.5	PASS	AISC- H1-1 9504.03 C	(JAPANESE SECTIONS) 0.197 -387.68	4 0.63
210 ST	H300X150X6.5	PASS	AISC- H1-1 9504.03 C	(JAPANESE SECTIONS) 0.197 -387.68	4 0.62
211 ST	H300X150X6.5	PASS	AISC- H1-1 9517.34 C	(JAPANESE SECTIONS) 0.207 -486.88	4 0.94

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
145 ST	H100X100X6	PASS	AISC- H1-3 791.31 C	(JAPANESE SECTIONS) 0.052 31.42	4 0.00
146 ST	H100X100X6	PASS	AISC- H1-3 1672.59 C	(JAPANESE SECTIONS) 0.072 17.72	4 0.00
147 ST	H100X100X6	PASS	AISC- H1-3 818.66 C	(JAPANESE SECTIONS) 0.034 8.77	4 0.00
148 ST	H100X100X6	PASS	AISC- H1-3 8.40 C	(JAPANESE SECTIONS) 0.069 87.19	4 0.00
149 ST	H100X100X6	PASS	AISC- H2-1 1875.63 T	(JAPANESE SECTIONS) 0.211 193.94	4 0.00
150 ST	H250X250X9	PASS	AISC- H1-3 4883.80 C	(JAPANESE SECTIONS) 0.274 3356.97	4 2.50
151 ST	H250X250X9	PASS	AISC- H1-3 4883.80 C	(JAPANESE SECTIONS) 0.274 3356.97	4 0.00
152 ST	H100X100X6	PASS	AISC- H1-3 3983.08 C	(JAPANESE SECTIONS) 0.195 -58.60	4 1.29
153 ST	H100X100X6	PASS	AISC- H2-1 2426.25 T	(JAPANESE SECTIONS) 0.118 -50.65	4 0.00
154 ST	H100X100X6	PASS	AISC- H1-3 14.45 C	(JAPANESE SECTIONS) 0.017 -18.99	4 1.25
155 ST	H100X100X6	PASS	AISC- H2-1 2457.11 T	(JAPANESE SECTIONS) 0.096 -23.66	4 0.00
156 ST	H100X100X6	PASS	AISC- H1-3 1098.12 C	(JAPANESE SECTIONS) 0.068 -28.84	4 1.67
157 ST	H100X100X6	PASS	AISC- H2-1 862.42 T	(JAPANESE SECTIONS) 0.058 -35.36	4 0.00
158 ST	H100X100X6	PASS	AISC- H2-1 726.56 T	(JAPANESE SECTIONS) 0.048 -29.95	4 1.67
159 ST	H100X100X6	PASS	AISC- H2-1 726.56 T	(JAPANESE SECTIONS) 0.048 -29.95	4 0.00
160 ST	H100X100X6	PASS	AISC- H2-1 862.42 T	(JAPANESE SECTIONS) 0.058 -35.36	4 1.67



Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MS	LOADING/ LOCATION
228 ST	H100X100X6	PASS	AISC- H2-1 8174.00 T -0.22	(JAPANESE SECTIONS) 0.272 -28.39	4 1.15
229 ST	H100X100X6	PASS	AISC- H2-1 8157.15 T -0.07	(JAPANESE SECTIONS) 0.278 -37.17	4 0.00
230 ST	H100X100X6	PASS	AISC- H2-1 5861.81 T -1.89	(JAPANESE SECTIONS) 0.212 -36.77	4 0.00
231 ST	H100X100X6	PASS	AISC- H2-1 5963.36 T 2.65	(JAPANESE SECTIONS) 0.215 -31.46	4 1.28
232 ST	H100X100X6	PASS	AISC- H2-1 4896.54 T 0.23	(JAPANESE SECTIONS) 0.174 -27.27	4 0.96
233 ST	H100X100X6	PASS	AISC- H2-1 4731.36 T 0.10	(JAPANESE SECTIONS) 0.200 -63.63	4 0.00
234 ST	H100X100X6	PASS	AISC- H2-1 935.84 T 5.76	(JAPANESE SECTIONS) 0.213 198.84	4 1.29
235 ST	H100X100X6	PASS	AISC- H2-1 1402.30 T 0.26	(JAPANESE SECTIONS) 0.164 -151.91	4 0.00
236 ST	H100X100X6	PASS	AISC- H1-3 4.77 C -1.18	(JAPANESE SECTIONS) 0.051 -61.08	4 0.00
237 ST	H100X100X6	PASS	AISC- H1-3 761.15 C -0.22	(JAPANESE SECTIONS) 0.033 -8.79	4 0.83
238 ST	H100X100X6	PASS	AISC- H1-3 2831.89 C -5.66	(JAPANESE SECTIONS) 0.121 -14.26	4 0.00
239 ST	H100X100X6	PASS	AISC- H1-3 702.04 C -0.68	(JAPANESE SECTIONS) 0.047 26.64	4 1.10
240 ST	H100X100X6	PASS	AISC- H1-3 0.46 C -0.05	(JAPANESE SECTIONS) 0.008 -10.10	4 0.00
241 ST	H100X100X6	PASS	AISC- H1-3 774.62 C -0.08	(JAPANESE SECTIONS) 0.034 -8.10	4 1.10
242 ST	H100X100X6	PASS	AISC- H1-3 2271.60 C -7.47	(JAPANESE SECTIONS) 0.094 0.00	4 0.00
243 ST	H100X100X6	PASS	AISC- H1-3 774.62 C -0.08	(JAPANESE SECTIONS) 0.034 8.10	4 1.10

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG (UNLESS OTHERWISE NOTED)

212 ST	H300X150X6.5	PASS	AISC- H1-3 8460.31 C 1.70	(JAPANESE SECTIONS) 0.199 -487.61	4 0.21
213 ST	H300X150X6.5	PASS	AISC- H1-3 8410.84 C -3.11	(JAPANESE SECTIONS) 0.176 -307.23	4 0.42
214 ST	H300X150X6.5	PASS	AISC- H1-3 7086.46 C 8.85	(JAPANESE SECTIONS) 0.164 -343.69	4 0.83
215 ST	H300X150X6.5	PASS	AISC- H1-3 7098.53 C -3.39	(JAPANESE SECTIONS) 0.198 -648.23	4 1.25
216 ST	H300X150X6.5	PASS	AISC- H1-3 2729.34 C 2.10	(JAPANESE SECTIONS) 0.133 -702.42	4 0.00
217 ST	H300X150X6.5	PASS	AISC- H1-3 1857.98 C -22.05	(JAPANESE SECTIONS) 0.405 2875.31	4 1.25
218 ST	H300X150X6.5	PASS	AISC- H1-3 0.00 T 0.00	(JAPANESE SECTIONS) 0.070 598.73	4 0.00
219 ST	H100X100X6	PASS	AISC- H2-1 935.83 T 5.76	(JAPANESE SECTIONS) 0.213 198.84	4 0.00
220 ST	H100X100X6	PASS	AISC- H2-1 4731.35 T 0.10	(JAPANESE SECTIONS) 0.200 -63.63	4 1.28
221 ST	H100X100X6	PASS	AISC- H2-1 4896.54 T 0.23	(JAPANESE SECTIONS) 0.174 -27.27	4 0.32
222 ST	H100X100X6	PASS	AISC- H2-1 5963.36 T 2.65	(JAPANESE SECTIONS) 0.215 -31.46	4 0.00
223 ST	H100X100X6	PASS	AISC- H2-1 5861.81 T -1.89	(JAPANESE SECTIONS) 0.212 -36.77	4 1.25
224 ST	H100X100X6	PASS	AISC- H2-1 8157.15 T -0.07	(JAPANESE SECTIONS) 0.278 -37.17	4 1.25
225 ST	H100X100X6	PASS	AISC- H2-1 8174.00 T -0.22	(JAPANESE SECTIONS) 0.272 -28.39	4 0.10
226 ST	H100X100X6	PASS	AISC- H2-1 7887.11 T 0.36	(JAPANESE SECTIONS) 0.260 -23.98	4 0.00
227 ST	H100X100X6	PASS	AISC- H2-1 7887.11 T 0.36	(JAPANESE SECTIONS) 0.260 -23.98	4 1.25



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
260 ST	H100X100X6	PASS	AISC- H2-1	0.043	4
		453.74 T	3.71	-25.10	1.57
261 ST	H100X100X6	PASS	AISC- H1-3	0.061	4
		918.42 C	-3.64	-20.43	0.00
262 ST	H100X100X6	PASS	AISC- H2-1	0.080	4
		2071.82 T	-1.45	-16.14	1.57
263 ST	H100X100X6	PASS	AISC- H2-1	0.021	4
		300.02 T	-0.04	-13.09	0.38
264 ST	H100X100X6	PASS	AISC- H2-1	0.089	4
		1566.25 T	3.50	-39.06	1.50
265 ST	H100X100X6	PASS	AISC- H2-3	0.153	4
		2977.46 C	-2.62	-45.96	0.00
301 ST	H300X150X6.5	PASS	AISC- H1-3	0.037	4
		0.00 T	0.00	299.98	1.50
302 ST	H300X150X6.5	PASS	AISC- H1-3	0.174	4
		79.86 C	14.57	580.97	5.00
303 ST	H300X150X6.5	PASS	AISC- H2-3	0.160	4
		81.22 C	-2.45	563.85	0.00
304 ST	H300X150X6.5	PASS	AISC- H1-3	0.160	4
		81.22 C	-2.45	563.85	5.00
305 ST	H300X150X6.5	PASS	AISC- H1-3	0.174	4
		79.86 C	14.57	580.97	0.00
306 ST	H300X150X6.5	PASS	AISC- H2-3	0.037	4
		0.00 T	0.00	299.98	0.00
307 ST	H250X250X9	PASS	AISC- H1-3	0.028	4
		112.86 C	-33.53	-182.38	0.00
308 ST	H250X250X9	PASS	AISC- H1-3	0.319	4
		3788.49 C	-1591.71	14.78	0.00
309 ST	H250X250X9	PASS	AISC- H2-3	0.123	4
		4557.62 C	-2119.08	0.00	0.00
310 ST	H250X250X9	PASS	AISC- H1-3	0.319	4
		3788.49 C	-1591.71	-14.78	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
244 ST	H100X100X6	PASS	AISC- H1-3	0.068	4
		0.46 C	-0.05	10.10	0.00
245 ST	H100X100X6	PASS	AISC- H1-3	0.047	4
		702.04 C	-0.68	-26.64	1.10
246 ST	H100X100X6	PASS	AISC- H1-3	0.121	4
		2831.89 C	-5.65	11.26	0.00
247 ST	H100X100X6	PASS	AISC- H1-3	0.033	4
		761.15 C	-0.22	8.79	0.83
248 ST	H100X100X6	PASS	AISC- H1-3	0.051	4
		4.77 C	-1.18	61.08	0.00
249 ST	H100X100X6	PASS	AISC- H2-1	0.164	4
		1402.30 T	0.26	151.91	0.00
250 ST	H250X250X9	PASS	AISC- H1-3	0.210	4
		4174.74 C	0.58	2515.29	2.50
251 ST	H250X250X9	PASS	AISC- H1-3	0.210	4
		4174.74 C	0.58	2515.29	0.00
252 ST	H100X100X6	PASS	AISC- H1-3	0.153	4
		2977.46 C	-2.62	-45.96	1.29
253 ST	H100X100X6	PASS	AISC- H2-1	0.089	4
		1566.25 T	3.50	-39.06	0.00
254 ST	H100X100X6	PASS	AISC- H2-1	0.021	4
		300.02 T	-0.04	-13.09	1.13
255 ST	H100X100X6	PASS	AISC- H2-1	0.080	4
		2071.82 T	-1.45	-16.14	0.00
256 ST	H100X100X6	PASS	AISC- H1-3	0.061	4
		918.42 C	-3.64	-20.43	1.67
257 ST	H100X100X6	PASS	AISC- H2-1	0.043	4
		463.74 T	3.71	-25.10	0.00
258 ST	H100X100X6	PASS	AISC- H2-1	0.048	4
		829.00 T	-2.68	-20.11	1.67
259 ST	H100X100X6	PASS	AISC- H2-1	0.048	4
		829.00 T	-2.68	-20.11	0.00



Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/	CRITICAL COR/	RATIO/	LOADING/
		FX	MY	HE	LOCATION
505 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		19.73 C	AISC- H1-3	-14.75	0.030
				71.12	4.60
506 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		25.96 C	AISC- H1-3	-4.49	0.020
				60.77	4.60
507 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		25.96 C	AISC- H1-3	-4.49	0.020
				60.77	0.00
508 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		19.73 C	AISC- H1-3	-14.75	0.030
				71.12	0.00
601 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		2802.47 C	AISC- H1-3	23.42	0.247
				1476.27	0.00
602 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		3403.63 C	AISC- H1-3	-2.24	0.147
				-731.73	1.15
603 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		7841.59 C	AISC- H1-3	3.63	0.216
				-703.96	0.00
604 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		7851.31 C	AISC- H1-3	-15.92	0.194
				-453.76	1.15
605 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		9189.18 C	AISC- H1-3	5.17	0.06
				-443.67	0.00
606 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		9202.41 C	AISC- H1-3	-2.68	0.216
				-536.16	1.15
607 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		10396.85 C	AISC- H1-1	2.89	0.223
				-522.91	0.00
608 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		10402.53 C	AISC- H1-1	-6.44	0.239
				-648.35	1.15
609 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		10402.53 C	AISC- H1-1	-6.44	0.239
				-648.35	0.00
610 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		10396.85 C	AISC- H1-1	2.89	0.223
				-522.91	1.15
611 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		9202.41 C	AISC- H1-3	-2.68	0.216
				-536.16	0.00
612 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		9189.18 C	AISC- H1-3	5.17	0.206
				-443.67	1.15

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/	CRITICAL COR/	RATIO/	LOADING/
		FX	MY	MZ	LOCATION
311 ST	H250X250X9	PASS	(JAPANESE SECTIONS)		4
		1122.86 C	AISC- H1-3	-33.53	0.128
				182.38	0.00
401 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		0.00 T	AISC- H1-3	0.00	0.037
				299.98	1.50
402 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		79.86 C	AISC- H1-3	-14.57	0.174
				580.97	5.00
403 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		81.22 C	AISC- H1-3	2.45	0.160
				563.85	0.00
404 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		81.22 C	AISC- H1-3	2.45	0.160
				563.85	5.00
405 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		79.86 C	AISC- H1-3	-14.57	0.174
				580.97	0.00
406 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		0.00 T	AISC- H1-3	0.00	0.037
				299.98	0.00
407 ST	H250X250X9	PASS	(JAPANESE SECTIONS)		4
		1122.86 C	AISC- H1-3	33.53	0.028
				-182.38	0.00
408 ST	H250X250X9	PASS	(JAPANESE SECTIONS)		4
		3788.49 C	AISC- H1-3	1591.71	0.319
				14.78	0.00
409 ST	H250X250X9	PASS	(JAPANESE SECTIONS)		4
		4557.62 C	AISC- H1-3	2139.08	0.423
				0.00	0.00
410 ST	H250X250X9	PASS	(JAPANESE SECTIONS)		4
		3788.49 C	AISC- H1-3	1591.71	0.319
				-14.78	0.00
411 ST	H250X250X9	PASS	(JAPANESE SECTIONS)		4
		1122.86 C	AISC- H1-3	33.53	0.028
				182.38	0.00
501 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		19.73 C	AISC- H1-3	-14.75	0.030
				71.12	4.60
502 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		25.96 C	AISC- H1-3	4.49	0.020
				60.77	4.60
503 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		25.96 C	AISC- H1-3	4.49	0.020
				60.77	0.00
504 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		19.73 C	AISC- H1-3	-14.75	0.030
				71.12	0.00



Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG (UNLESS OTHERWISE NOTED)

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

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG (UNLESS OTHERWISE NOTED)

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



Steel Design (Track 0) Checks Cont...

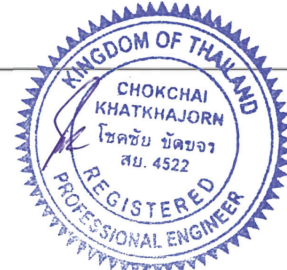
ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ MZ	LOADING/ LOCATION
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- H1-1	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	1.15

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
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	H100X100X6.5	PASS	(JAPANESE SECTIONS) AISC- H1-3	0.194	4
		4517.12 C	0.00	-975.23	1.15



Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	KG	METE	RESULT/	CRITICAL COND/	RATIO/	LOADING/
				FX	MY	MZ	LOCATION
735 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	1739.38 T	-131.62	0.312	4
						0.00	0.00
736 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	697.79 C	-6.87	0.038	4
						0.00	0.00
737 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	19.66 C	-7.75	0.016	4
						0.00	0.00
738 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	552.31 C	9.55	0.038	4
						0.00	1.10
739 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	552.31 C	-9.55	0.038	4
						0.00	1.10
740 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	19.66 C	7.75	0.016	4
						0.00	0.00
741 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	697.79 C	8.87	0.038	4
						0.00	0.00
742 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	520.42 C	9.51	0.036	4
						0.00	0.00
743 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	23.27 C	43.13	0.086	4
						0.00	0.00
744 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	1739.37 T	131.62	0.312	4
						0.00	0.00
745 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	3558.44 C	0.00	-58.38	4
						0.00	1.19
746 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	3018.76 T	0.00	-54.21	4
						0.00	0.00
747 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	735.82 C	0.00	-31.44	4
						0.055	1.42
748 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	1797.14 T	0.00	-36.72	4
						0.087	0.00
749 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	848.20 C	0.00	-28.09	4
						0.057	1.59
750 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	1622.94 T	0.00	-40.80	4
						0.085	0.00

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	KG	METE	RESULT/	CRITICAL COND/	RATIO/	LOADING/
				FX	MY	MZ	LOCATION
719 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	7424.61 T	0.00	-39.53	4
						0.00	0.00
720 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	10569.52 T	0.00	-32.19	4
						0.348	0.00
721 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	10303.53 T	0.00	-31.63	4
						0.339	1.15
722 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	12242.34 T	0.00	-48.60	4
						0.412	1.15
723 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	12255.96 T	0.00	-41.36	4
						0.407	0.00
724 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	13692.03 T	0.00	-60.66	4
						0.466	1.15
725 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	13692.03 T	0.00	-60.66	4
						0.466	0.00
726 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	12255.96 T	0.00	-41.36	4
						0.407	1.15
727 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	12242.34 T	0.00	-48.60	4
						0.412	0.00
728 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	10303.53 T	0.00	-31.63	4
						0.339	0.00
729 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	10569.52 T	0.00	-32.19	4
						0.348	1.18
730 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	7424.61 T	0.00	-39.53	4
						0.258	1.18
731 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	7298.80 T	0.00	-74.20	4
						0.281	0.00
732 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	3013.64 T	0.00	154.62	4
						0.214	1.19
733 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	520.42 C	-9.51	0.036	4
						0.00	0.00
734 ST	H100X100X6	PASS	(JAPANESE SECTIONS)	23.27 C	-43.13	0.086	4
						0.00	0.00



Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG NETE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/	CRITICAL COND/	RATIO/	LOADING/
		FX	MY	MZ	LOCATION
809 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		10402.53 C	AISC- H1-1	-648.35	0.00
810 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		10396.86 C	AISC- H1-1	-522.91	1.15
811 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		9202.41 C	AISC- H1-3	-536.16	0.00
812 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		9189.18 C	AISC- H1-3	-443.67	1.15
813 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		7851.31 C	AISC- H1-3	-453.75	0.00
814 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		7841.59 C	AISC- H1-3	-703.96	1.15
815 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		3403.64 C	AISC- H1-3	-731.74	0.00
816 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		2802.47 C	AISC- H1-3	1476.27	1.15
817 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		2287.05 T	AISC- H2-1	115.65	0.00
818 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		5467.41 T	AISC- H2-1	-54.76	1.18
819 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		5560.68 T	AISC- H2-1	-29.76	0.20
820 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		7813.94 T	AISC- H2-1	-29.80	0.00
821 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		7626.44 T	AISC- H2-1	-29.12	1.15
822 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		8977.89 T	AISC- H2-1	-34.04	1.15
823 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		8986.94 T	AISC- H2-1	-28.77	0.10
824 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		9879.81 T	AISC- H2-1	-31.18	1.15

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG NETE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/	CRITICAL COND/	RATIO/	LOADING/
		FX	MY	MZ	LOCATION
751 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		346.24 C	AISC- H1-3	-42.30	1.59
752 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		346.24 C	AISC- H1-3	-42.30	0.00
753 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		1622.94 T	AISC- H2-1	-40.80	1.59
754 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		848.21 C	AISC- H1-3	-25.99	0.00
755 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		1797.14 T	AISC- H2-1	-36.72	1.59
756 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		735.82 C	AISC- H1-3	-31.44	0.00
757 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		3018.76 T	AISC- H2-1	-54.21	1.42
758 ST	H100X100X6	PASS	(JAPANESE SECTIONS)		4
		3558.44 C	AISC- H1-3	-58.38	0.00
801 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		2802.47 C	AISC- H1-3	1476.27	0.00
802 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		3403.63 C	AISC- H1-3	-731.73	1.15
803 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		7841.59 C	AISC- H1-3	-703.96	0.00
804 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		7851.31 C	AISC- H1-3	-453.76	1.15
805 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		9189.18 C	AISC- H1-3	-443.67	0.00
806 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		9202.41 C	AISC- H1-3	-536.16	1.15
807 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		10396.85 C	AISC- H1-1	-522.91	0.00
808 ST	H300X150X6.5	PASS	(JAPANESE SECTIONS)		4
		10402.53 C	AISC- H1-1	-648.35	1.15



Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ M2	LOADING/ LOCATION
841 ST	H100X100X6	PASS	AISC- H1-3	3.64	0.025
		506.57 C		-0.01	0.00
842 ST	H100X100X6	PASS	AISC- H1-3	6.18	0.026
		408.91 C		-0.02	0.00
843 ST	H100X100X6	PASS	AISC- H1-3	31.73	0.064
		8.54 C		1.43	0.00
844 ST	H100X100X6	PASS	AISC- H2-1	98.47	0.233
		1296.76 T		-0.27	0.00
845 ST	H100X100X6	PASS	AISC- H1-3	-2.77	0.133
		2637.68 C		-43.35	1.19
846 ST	H100X100X6	PASS	AISC- H1-1	3.89	0.09
		2204.96 T		-39.39	0.00
847 ST	H100X100X6	PASS	AISC- H1-3	-0.27	0.040
		452.99 C		-24.18	1.42
848 ST	H100X100X6	PASS	AISC- H2-1	-1.48	0.066
		1285.12 T		-27.67	0.00
849 ST	H100X100X6	PASS	AISC- H1-3	-3.79	0.046
		551.59 C		-19.59	1.59
850 ST	H100X100X6	PASS	AISC- H2-1	3.87	0.065
		1078.21 T		-27.71	0.00
851 ST	H100X100X6	PASS	AISC- H1-3	-2.81	0.038
		152.68 C		-30.63	1.59
852 ST	H100X100X6	PASS	AISC- H1-3	-2.81	0.038
		152.68 C		-30.63	0.00
853 ST	H100X100X6	PASS	AISC- H2-1	3.87	0.065
		1078.21 T		-27.71	1.59
854 ST	H100X100X6	PASS	AISC- H1-3	-3.79	0.046
		551.59 C		-19.59	0.00
855 ST	H100X100X6	PASS	AISC- H1-1	-1.46	0.066
		1285.12 T		-27.67	1.59
856 ST	H100X100X6	PASS	AISC- H1-3	-0.27	0.040
		452.99 C		-24.18	0.00

Steel Design (Track 0) Checks Cont...

ALL UNITS ARE - KG METE (UNLESS OTHERWISE NOTED)

MEMBER	TABLE	RESULT/ FX	CRITICAL COND/ MY	RATIO/ M2	LOADING/ LOCATION
825 ST	H100X100X6	PASS	AISC- H2-1	-2.97	0.332
		9879.93 T		-31.18	0.00
826 ST	H100X100X6	PASS	AISC- H2-1	-0.20	0.297
		8986.94 T		-28.77	1.05
827 ST	H100X100X6	PASS	AISC- H2-1	-0.04	0.301
		8977.89 T		-34.04	0.00
828 ST	H100X100X6	PASS	AISC- H2-1	-1.81	0.259
		7626.44 T		-29.12	0.00
829 ST	H100X100X6	PASS	AISC- H2-1	2.75	0.267
		7813.95 T		-29.80	1.18
830 ST	H100X100X6	PASS	AISC- H2-1	0.25	0.194
		5560.68 T		-29.76	0.98
831 ST	H100X100X6	PASS	AISC- H2-1	0.15	0.210
		5467.41 T		-54.76	0.00
832 ST	H100X100X6	PASS	AISC- H2-1	6.66	0.174
		2287.05 T		115.65	1.19
833 ST	H100X100X6	PASS	AISC- H1-3	-6.18	0.026
		408.91 C		-0.02	0.00
834 ST	H100X100X6	PASS	AISC- H1-3	-31.73	0.064
		8.54 C		1.43	0.00
835 ST	H100X100X6	PASS	AISC- H2-1	-98.47	0.233
		1296.76 T		-0.27	0.00
836 ST	H100X100X6	PASS	AISC- H1-3	-3.64	0.025
		506.57 C		-0.01	0.00
837 ST	H100X100X6	PASS	AISC- H2-1	-5.13	0.010
		1.63 T		0.06	0.00
838 ST	H100X100X6	PASS	AISC- H1-3	7.59	0.011
		428.14 C		1.05	1.10
839 ST	H100X100X6	PASS	AISC- H1-3	-7.59	0.011
		428.14 C		1.05	1.10
840 ST	H100X100X6	PASS	AISC- H2-1	5.13	0.010
		1.63 T		0.06	0.00



DESIGN OF PURLIN - Roofing (Metal sheet) แบบ 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
- Fastener		=	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

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.

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.



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Job No. 193018

Job Title โครงหลังคาเหล็ก

Subject DESIGN SAG ROD

Date : 4/21/2021

Made by : CKJ

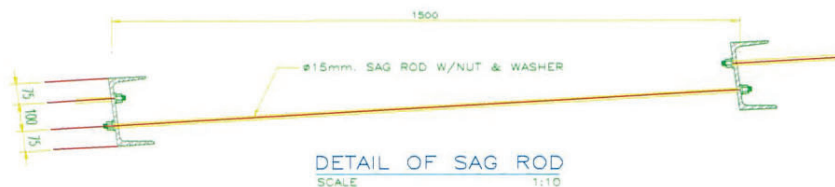
[1] : STRUCTURAL LAYOUT :

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. F_y	=	2400	kg/cm ²
SLOPE	=	5	degree
Purlins	=	9.27	kg/m
Metal roofing :	=	15	kg/m ²
Live load	=	100	kg/m ²
DL + LL	=	115	kg/m ²
W purlin	=	154	kg
W dl+ll	=	845	kg
TOTAL LOAD	=	1000	kg
F_t	=	$0.6 \cdot F_y$	= 1440 kg/cm ²
Tension	=	$W \cdot \sin ()$	= 87.11 kg.
Req'd AREA	=	T/F_t	= 0.06 cm ²

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





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
$\leq 637.2bf/(Fy)^{0.5}$	=	127.44 cm
$\leq 1,406,000/(d/Af)/Fy$	=	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.



รายงานการออกแบบ Design Note รายการคำนวณงานโครงสร้าง

(สัญญาก่อสร้างอาคารทิศตะวันตก Final Detailed Design)

(ส่วนงานโครงสร้าง งานสถาปัตยกรรม และงานระบบหลัก)

โครงการพัฒนาพื้นที่ส่วนขยายศูนย์ราชการเฉลิมพระเกียรติ ๘๐ พรรษา ๕ ธันวาคม ๒๕๕๐ พื้นที่โซน C

AXIAL FORCE MEMBER

T1,T1A,T1B,T1C,T1D

(ตั้ง,ทะแยง)

22-Apr-21

Section properties

Selected

น 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



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
$\leq 637.2bf/(Fy)^{0.5}$	=	127.44 cm
$\leq 1,406,000/(d/Af)/Fy$	=	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.



รายงานการออกแบบ Design Note รายการคำนวณงานโครงสร้าง

(สัญญาก่อสร้างอาคารทิศตะวันตก Final Detailed Design)

(ส่วนงานโครงสร้าง งานสถาปัตยกรรม และงานระบบหลัก)

โครงการพัฒนาพื้นที่ส่วนขยายศูนย์ราชการเฉลิมพระเกียรติ ๘๐ พรรษา ๕ ธันวาคม ๒๕๕๐ พื้นที่โซน C

AXIAL FORCE MEMBER

T2,T2A,T2B,T2C,T2D

(ตั้ง,ทะแยง)

22-Apr-21

Section properties

Selected

น 75x75x3.2, 7.01 kg/m

Fy = 2,500 ksc

Es = 2.10E+06 ksc

K = 1.00 ***

$C_c = (2 \cdot \pi^2 \cdot E_s / F_y) \cdot 0.5 = 128.77$ ***

ALLOWABLE COMPRESSIVE STRESS

$F_{ca} = ((1 - 1/2 \cdot (K \cdot L / r / C_c)^2) \cdot F_y) / F.S.$ (KL/r <= Cc)

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

$F_{ca} = 12 \cdot \pi^2 \cdot E_s / (23 \cdot (K \cdot L / r)^2)$ (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

DESIGN OF STEEL COLUMN

เสาเหล็ก

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
	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 ***

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

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.



DESIGN OF COLUMN BASE PLATE

แผ่นเหล็กรองเสา

22-Apr-21

Yield strength of steel structure	F_y	=	2,400	ksc
Strength of concrete	f_c	=	350	ksc
Allowable bending stress,	$F_b = 0.75 \cdot F_y$	=	1,800	ksc
Allowable bearing stress,	$F_p = 0.25 \cdot f_c$	=	87.50	ksc
Column load	P	=	2.10	ton
Bending moment	M	=	0.00	ton-m
Size of column				
b =	80.00	cm	Size of base plate	
d =	80.00	cm	B =	25.00 cm
			D =	25.00 cm
Actual bearing stress	$f_p = (P/B \cdot D) + [6 \cdot M / (B \cdot D^2)]$	=	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	$M = 3.36 \cdot -19.50^2/2$	=	638.82	kg-cm
	$S = M/F_b$	=	0.35	cm ³
from $S = I/c = (b \cdot t^3/12)/(t/2) = t^2/6$	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,	$F_t = 0.60 \cdot F_y$	=	1,440	ksc
	bolt dia.	=	16	mm
	A	=	2.01	cm ²
	r	=	15.00	cm
	Tension force, $T = M/r$	=	0.00	kg
	Required A	=	0.00	cm ²
Allowable shear stress,	$F_v = 0.40 \cdot F_y$	=	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, $u_{all} = 1.615(f_c)^{0.5}/D < 11$	=	11.00	ksc
$L = D \cdot f_s / 4 \cdot u = 1.60 \cdot 1,200 / (4 \cdot 11.00)$	=	43.64	cm
