

新竹縣原住民族地區建築標準圖說 9-SC-3-2

結構計算書

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 - SAFE 輸出檔



建築結構設計基本資料表

一、構造種類

- 鋼筋混凝土構造
- 鋼骨構造
- 鋼骨鋼筋混凝土構造
- 其他

二、結構系統之規劃及分析

- 韌性抗彎矩構架系統
- 二元系統
- 其他
具對角斜撐之輕型構架

三、結構材料

1. 混凝土
 $f_c' = 280 \text{ kgf/cm}^2$
2. 鋼筋
#4(D13)以上： $f_y = 4200 \text{ kgf/cm}^2$
(CNS 560 A2006 SD420W)
#3(D10)以下： $f_y = 2800 \text{ kgf/cm}^2$
(CNS 560 A2006 SD280W)
3. 鋼結構
SGC440 3400 kgf/cm^2

活載重

LL		kgf/m ²
1F	住宅	200
2F	住宅	200
3F	住宅	200
PRF	屋頂	60

四、水平側向力、風力檢核分析

(一) 地震力

1. 新竹縣五峰鄉
2. $S_S^D = 0.7$, $S_1^D = 0.4$
 $S_S^M = 0.9$, $S_1^M = 0.5$
3. $I = 1.10$
4. $R_x = 3$, $R_y = 3$
5. $\alpha_y = 1.0$
6. 建築物基本震動週期 $T_x = 0.05 h_n^{3/4}$
 $T_y = 0.05 h_n^{3/4}$
7. $V_x / W = 0.300$
 $V_y / W = 0.300$

(二) 風力

基本設計風速每秒 32.5 公尺區

$I = 1.1$, 地況: **B**

五、層間最大變位與層間變位角

(X-Dir.)

1. 最大層間變位角 = 0.336‰
2. 最大位移 = 0.443cm

(Y-Dir.)

1. 最大層間變位角 = 0.262‰
2. 最大位移 = 0.309cm

七、結構設計

- ASD
- USD
- LRFD

八、基礎設計

- 獨立基腳或聯合基腳
- 筏式基礎
- 樁基礎
- 其他
版式基礎



九、基礎開挖擋土支保措施

- 斜坡明挖
- 預壘排樁
- 地下連續壁
- 其他



1.0 建築概要

本案為標準圖說，工程可能位於新竹縣五峰鄉/尖石鄉/關西鎮，為地上 3 樓之輕型鋼構造，樓高約 10.464 公尺。

建築基地：新竹縣五峰鄉/尖石鄉/關西鎮

建築規模：地上 3 層

開挖深度：0.4m



2.0 結構系統說明

地震力分析：法規靜力分析

基本資料：

建築種類：鋼筋混凝土構造(RC)\鋼骨構造(SS)

結構系統：其他\具對角斜撐之輕型構架

樓層概述：

樓層	高度(cm)	用途
1F	320	住宅
2F	300	住宅
3F	426.4	住宅

樓版厚度：

基礎版 40cm RC 版

PRF 彩浪鋼版

開挖方式：

斜坡明挖

分析程式： ETABS V9.5



3.0 結構材料

3.1 混凝土

材料特性:

波松比	0.2
彈性模數(楊式係數)	$15000 \sqrt{fc'}$ kgf/cm ²
線性熱膨脹係數	1.2×10^{-5} 1/ °C
混凝土規定抗壓強度 fc'	同建築結構設計基本資料表
單位重	2400 kgf/m ³

3.2 鋼筋

彈性模數(楊式係數)	2.04×10^6 kgf/cm ²
鋼筋規定降伏強度 fy	同建築結構設計基本資料表
點焊鋼線網	ASTM A706, $Fy=5000$ kgf/cm ²

3.3 結構鋼

材料特性:

波松比	0.3
彈性模數(楊式係數)	2.04×10^6 kgf/cm ²
線性熱膨脹係數	1.2×10^{-5} 1/ °C
標稱降伏應力 fy	同建築結構設計基本資料表
單位重	7850 kgf/m ³

螺栓及焊材

高拉力螺栓	F10T
錨定螺栓	ASTM A307, ASTM A325
焊材	E80xx



4.0 設計載重

4.1 靜載重及活載重

靜載重

PRF

載重種類	數量	單位重	總重
設備管線	1 式	40 kgf/m ²	40 kgf/m ²

外加靜載重(SDL) 40 kgf/m²

2F, 3F 室內

載重種類	數量	單位重	總重
鋪面裝修	1 式	40 kgf/m ²	40 kgf/m ²

外加靜載重(SDL) 40 kgf/m²

活載重 (kgf/m²)

同建築結構設計基本資料表

樓層載重資料

樓層	面積(m ²)	重量(tf)	單位重(tf/m ²)
PRF	67.52	0.73	0.011
3F	67.52	10.88	0.161
2F	82.61	7.10	0.086



4.2 設計地震力及分析結果

依據「建築物耐震設計規範及解說，內政部」，設計地震力為：

$$V = \frac{I}{1.4\alpha_y} \left(\frac{S_{aD}}{F_u} \right)_m W$$

式中

$$\left(\frac{S_{aD}}{F_u} \right)_m = \begin{cases} \frac{S_{aD}}{F_u} & \frac{S_{aD}}{F_u} \leq 0.3 \\ 0.52 \frac{S_{aD}}{F_u} + 0.144 & 0.3 < \frac{S_{aD}}{F_u} < 0.8 \\ 0.70 \frac{S_{aD}}{F_u} & \frac{S_{aD}}{F_u} \geq 0.8 \end{cases}$$

S_{aD} 工址設計水平譜加速度係數，為工址水平加速度與重力加速度 g 之比值。

W 建築物全部靜載重。活動隔間應計入 75kg/m^2 之重量；一般倉庫、書庫應計入至少四分之一活載重；水箱、水池等容器，應計入全部內容物之重量。

I 用途係數。

α_y 起始降伏地震力放大倍數，依耐震設計規範第一章第 9 節規定，鋼結構採容許應力法設計可取 1.2，採極限設計法取 1.0。就鋼筋混凝土結構而言，以極限強度設計法可採 1.0。

F_u 結構系統地震力折減係數，依耐震設計規範第二章第 9 節規定。

※本案為一般建築物，由於本案為泛用之標準圖說，設立之位置較廣，考量其變異性用途係數保守採用 1.1。

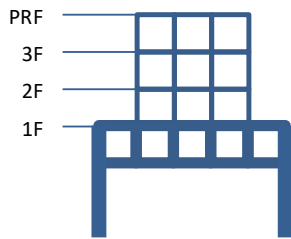


地震力計算詳下表

基地基本資料					斷層資料	
縣市	鄉鎮市區	里	震區種類	地盤種類	附近斷層	距離斷層
新竹縣	五峰鄉	所有里	一般震區	第一類地盤(自行決定地盤種類)	獅潭與神卓山(一般情況)	10(km)

譜加速度係數		近斷層因子		工址放大因子		修正譜加速度係數		分界週期	
S_S^D	0.7	設計	N_a	1	F_a	1	$S_{DS}=F_a \times N_a \times S_S^D$	0.7	$T_0^D=S_{D1}/S_{DS}$
S_1^D	0.4		N_v	1	F_v	1	$S_{D1}=F_v \times N_v \times S_1^D$	0.4	0.571
S_S^M	0.9	最大	N_a	1	F_a	1	$S_{MS}=F_a \times N_a \times S_S^M$	0.9	$T_0^M=S_{M1}/S_{MS}$
S_1^M	0.5		N_v	1	F_v	1	$S_{M1}=F_v \times N_v \times S_1^M$	0.5	0.556

建築基本資料							
屋頂層數	樓層數	地下層數	1F抬高	屋頂高度	建築高度	地下高度	h_n (基面至屋頂)
0 F	3 F	0 F	0(m)	0(m)	10.464(m)	0(m)	10.464(m)



	建築結構系統	
	X方向	Y方向
結構阻尼比	0.02	
結構系統	其他構造	其他構造
T_{code} (法規週期)	$0.05 \times h_n^{3/4} = 0.291(s)$	$0.05 \times h_n^{3/4} = 0.291(s)$
T_{max} (上限週期)	$1.4 \times T_{code} = 0.407(s)$	$1.4 \times T_{code} = 0.407(s)$
I(用途係數)	1.1	
設計規範	鋼構(LRFD)	
α_y	1	

各方向地震力計算		X方向	Y方向
1. 建築結構系統 相關資料	T_{dyna} (動力週期)	0.19(s)	0.161(s)
	T_{design} (設計週期)	0.19(s)	0.161(s)
	R(結構系統韌性容量)	3	3
	R_a (結構系統容許韌性容量)	2.333	2.333



各方向地震力計算		X方向	Y方向
2. 最小設計水平總橫力	S_{aD} (工址設計水平譜加速度)	0.875	0.875
	F_u (系統折減係數)	1.915	1.915
	$(S_{aD}/F_u)_m$	0.382	0.382
	V (最小設計水平總橫力)	0.300	0.300
3. 避免最大考量地震崩塌之設計地震力	S_{aM} (工址最大水平譜加速度)	0.900	0.900
	F_{uM} (系統最大折減係數)	2.236	2.236
	$(S_{aM}/F_{uM})_m$	0.353	0.353
	V_M (最大考量地震水平總橫力)	0.278	0.278
4. 避免中小度地震降伏之設計地震力	V^* (中小度地震水平總橫力)	0.191	0.191
5. 層間相對位移地震力	V_{drift} (層間相對位移地震力)	0.174	0.174

各方向地震力計算		Z方向
6. 垂直地震力	D_{DL+SDL} (垂直自重變位)	0.011(cm)
	T_{ver} (垂直週期) $=2\pi(D_{DL+SDL}/g)^{0.5}$	0.021(s)
	$S_{aD,v}$ (垂直設計譜加速度係數)	0.194
	F_{uv} (垂直地震系統折減係數)	1.167
	$(S_{aD,v}/F_{uv})_m$	0.159
	V_{ZD} (垂直設計地震力)	0.125
	$S_{aM,v}$ (垂直最大加速度係數)	0.231
	$F_{uv,M}$ (垂直最大地震系統折減係數)	1.232
	V_{ZM} (避免最大考量垂直地震崩塌)	0.133
	V_{Z^*} (避免中小度垂直地震降伏)	0.048

地震力統整		X方向	Y方向
1. 水平地震力	$V_{design} = \max(V, V_M, V^*)$	0.300	0.300
2. 層間位移地震力	V_{drift}	0.174	0.174
地震力統整		Z方向	
3. 垂直地震力	$V_{z,Design} = \max(V_{ZD}, V_{ZM}, V_{Z^*})$	0.133	



意外扭矩放大係數

Floor	Load Case	δ_{max} (cm)	δ_{avg} (cm)	$A_x=(\delta_{max}/1.2 \delta_{avg})^2$	備註
PRF	EXP	0.443(節點 75)	0.359	1.057	
PRF	EYP	0.298(節點 33)	0.257	0.931	
PRF	EXN	0.443(節點 75)	0.359	1.057	
PRF	EYN	0.298(節點 33)	0.257	0.931	
3F	EXP	0.352(節點 65)	0.281	1.089	
3F	EYP	0.222(節點 33)	0.184	1.008	
3F	EXN	0.352(節點 65)	0.281	1.089	
3F	EYN	0.222(節點 33)	0.184	1.008	
2F	EXP	0.151(節點 65)	0.115	1.210	X 最大值
2F	EYP	0.097(節點 5)	0.079	1.040	Y 最大值
2F	EXN	0.151(節點 65)	0.115	1.210	
2F	EYN	0.097(節點 5)	0.079	1.040	

X 向最大意外扭矩放大係數 $A_x=1.210(2F-EXP)$ ，故質心偏移比例取 $Ecc=0.05$

* $1.210=0.060$ 進行分析

Y 向最大意外扭矩放大係數 $A_x=1.040(2F-EYP)$ ，故質心偏移比例取 $Ecc=0.05$

* $1.040=0.052$ 進行分析



樓層地震力

(單位 tf)

	EXP	EXP	EYP	EYP	EXN	EXN	EYN	EYN
	VX	VY	VX	VY	VX	VY	VX	VY
PRF	-0.37	0.00	0.00	-0.37	-0.37	0.00	0.00	-0.37
3F	-3.22	0.00	0.00	-3.22	-3.22	0.00	0.00	-3.22
2F	-1.09	0.00	0.00	-1.09	-1.09	0.00	0.00	-1.09
SUM	-4.68	0.00	0.00	-4.68	-4.68	0.00	0.00	-4.68

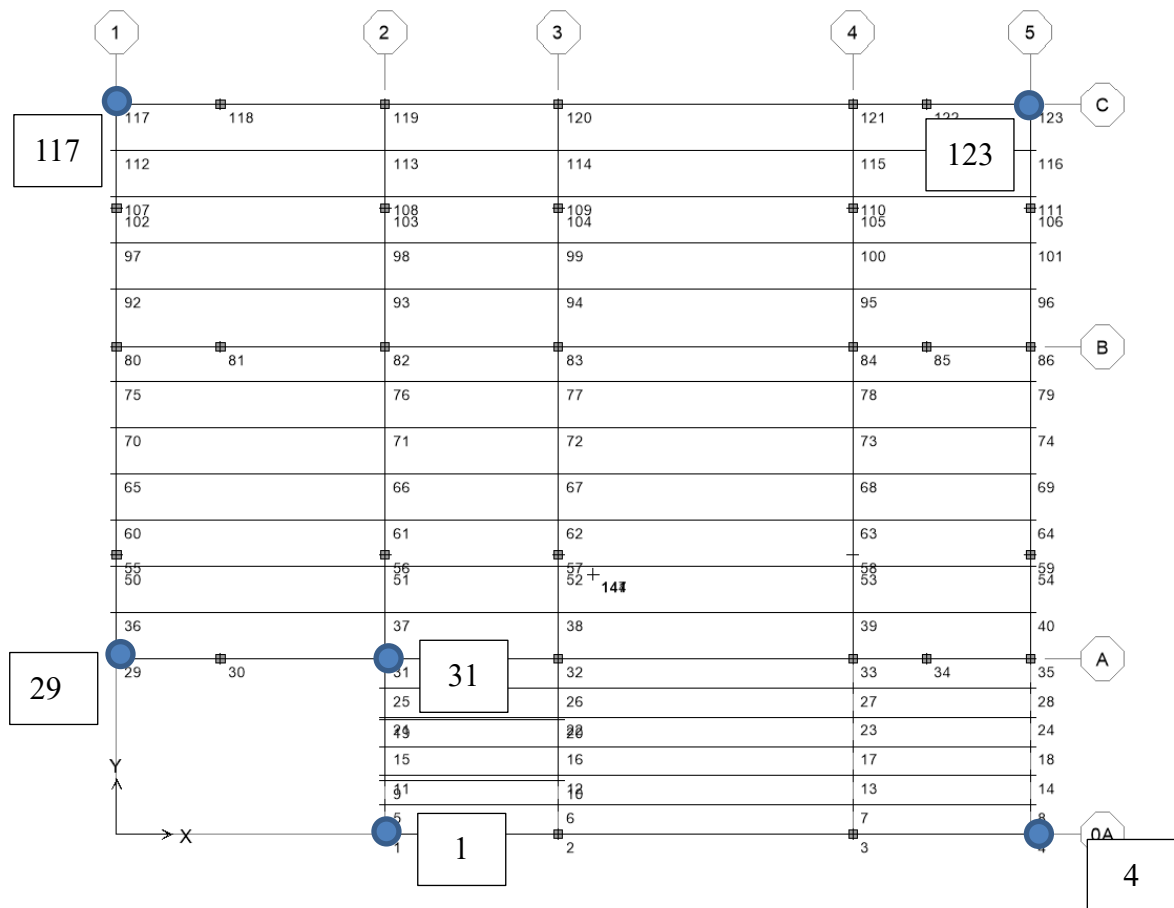
樓層層間變位角

	U _x		U _y	
	EXP	EXN	EYP	EYN
PRF	0.233‰(C16-1)	0.233‰(C16-1)	0.172‰(C8-1)	0.172‰(C8-1)
3F	0.336‰(C14)	0.336‰(C14)	0.262‰(C9)	0.262‰(C9)
2F	0.245‰(C12)	0.245‰(C12)	0.231‰(C1-1)	0.231‰(C1-1)



碰撞距離檢討

依建築物耐震設計規範，為避免地震時所引起的變形造成鄰棟建築物間的相互碰撞，建築物應自留設設計地震力作用下產生位移乘以 $0.6 \times 1.4 \times \alpha_y \times R_a$ 倍之距離。



	節點 29		節點 31		節點 1		節點 4	
	X 向	Y 向	X 向	Y 向	X 向	Y 向	X 向	Y 向
475 年地震 側向位移 (cm)	0.260	0.169	0.261	0.272	0.072	0.094	0.072	0.066
安全 碰撞距離 (cm)	0.511	0.332	0.511	0.533	0.141	0.184	0.140	0.129



	節點 123		節點 117					
	X 向	Y 向	X 向	Y 向				
475 年地震 側向位移 (cm)	0.244	0.194	0.245	0.170				
安全 碰撞距離 (cm)	0.479	0.380	0.480	0.332				

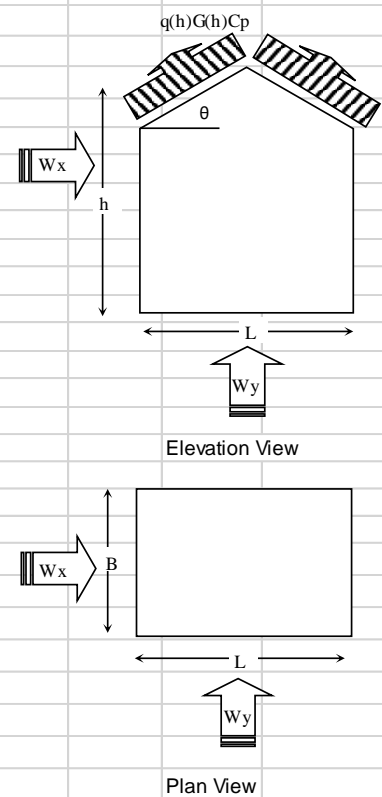
備註：位移放大倍數 X 向為 1.960，Y 向為 1.960



4.3 設計風力

依據”建築物耐風設計規範及解說”，本建築基本設計風速為
每秒 37.5 公尺

封閉式建築主抗風系統屋頂風壓計算							
Enclosed Building Main Wind Force Resistance System Design Roof Pressure(TBC2006)							
Job:				Job No.			
				Made by: JWLI		Date: 2004/12/13	
1.1	Input data			尺寸			
	Exp=	C	V10=	37.5	m/sec	I=	1.1
	Z=	10.464	m	θ=	17	Degree	
	T=	0.1	sec	Beta=	0.02	B=	6.85
						L=	7.95
2.1	Basic Constant						
	Exposure=	C	α=	0.15	Zg=	300.00	m
	Design wind speed=	37.50	m/sec	Building width=	6.85	Ave. roof height=	10.46
	Do=	0.005	Damping ratio=	0.020			
2.2	Wind pressure						
	$K(h)=2.774(Z/Zg)^{2\alpha}$	h>5m	Average level	=	1.0136		
	$K(h)=2.774(5/Zg)^{2\alpha}$	h<5m		=	0.0000		
	$q(h)=0.06*K(z)*(IV_{10}(c))^2$			=	103.49	kg/m ²	
2.3	Roof design wind pressure						
	Direction	Width	Length	G(h)	Wind ward	Leeward	
					Cp	q(h)G(h)Cp	Cp
							q(h)G(h)Cp
	Wx	6.85	7.95	1.889	-0.88	-172	-0.7
	Wy	7.95	6.85	1.886	-0.70	-137	-137
2.4	Positive pressure under ROOF OVERHANG for main wind force resistance system						
	Direction	G(h)	Wind ward		Leeward		
			Cp	q(h)G(h)Cp	Cp	q(h)G(h)Cp	
	Wx	1.889	0.8	156	0.5	98	254
	Wy	1.886	0.8	156	0.5	98	254



	WX	WX	WY	WY
	VX	VY	VX	VY
PRF	-4.85	0.00	0.00	-6.07
3F	-8.26	0.00	0.00	-10.35
2F	-7.05	0.00	0.00	-8.83
SUM	-20.16	0.00	0.00	-25.25

X 向設計風力為 20.16tf，大於 X 向設計地震力 4.68tf
Y 向設計風力為 25.25tf，大於 Y 向設計地震力 4.68tf



4.4 載重組合

DL=Dead load (include member self weight)

LL=Live load

EXP,EXN=Code static seismic load x-direction (± 0.05 offset)

EYP,EYN=Code static seismic load y-direction (± 0.05 offset)

Ez=Code static vertical seismic load

$E_x = EXP \cdot EXN$

$E_y = EYP \cdot EYN$

W=Wind load

設計

1.4DL

1.2DL+1.6LL

1.2DL+1.0LL \pm 1.0Ex \pm 0.3Ez

1.2DL+1.0LL \pm 1.0Ey \pm 0.3Ez

1.2DL+1.0LL \pm 1.0Ez \pm 0.3Ex

1.2DL+1.0LL \pm 1.0Ez \pm 0.3Ey

0.9DL \pm 1.0Ex \pm 0.3Ez

0.9DL \pm 1.0Ey \pm 0.3Ez

0.9DL \pm 1.0Ez \pm 0.3Ex

0.9DL \pm 1.0Ez \pm 0.3Ey

1.2DL+1.0LL \pm 1.6W

0.9DL \pm 1.6W



	DL	SDL	LL	EXP	EYP	EXN	EYN	EZ	WX	WY
02RC01	1.400	1.400								
02RC02	1.200	1.200	1.600							
02RC03	1.200	1.200	1.000	1.000				0.300		
02RC04	1.200	1.200	1.000	1.000				-0.300		
02RC05	1.200	1.200	1.000		1.000			0.300		
02RC06	1.200	1.200	1.000		1.000			-0.300		
02RC07	1.200	1.200	1.000			1.000		0.300		
02RC08	1.200	1.200	1.000			1.000		-0.300		
02RC09	1.200	1.200	1.000				1.000	0.300		
02RC10	1.200	1.200	1.000				1.000	-0.300		
02RC11	1.200	1.200	1.000	-1.000				0.300		
02RC12	1.200	1.200	1.000	-1.000				-0.300		
02RC13	1.200	1.200	1.000		-1.000			0.300		
02RC14	1.200	1.200	1.000		-1.000			-0.300		
02RC15	1.200	1.200	1.000			-1.000		0.300		
02RC16	1.200	1.200	1.000			-1.000		-0.300		
02RC17	1.200	1.200	1.000				-1.000	0.300		
02RC18	1.200	1.200	1.000				-1.000	-0.300		
02RC19	1.200	1.200	1.000	0.300				1.000		
02RC20	1.200	1.200	1.000	0.300				-1.000		
02RC21	1.200	1.200	1.000		0.300			1.000		
02RC22	1.200	1.200	1.000		0.300			-1.000		
02RC23	1.200	1.200	1.000			0.300		1.000		
02RC24	1.200	1.200	1.000			0.300		-1.000		
02RC25	1.200	1.200	1.000				0.300	1.000		
02RC26	1.200	1.200	1.000				0.300	-1.000		
02RC27	1.200	1.200	1.000	-0.300				1.000		
02RC28	1.200	1.200	1.000	-0.300				-1.000		
02RC29	1.200	1.200	1.000		-0.300			1.000		
02RC30	1.200	1.200	1.000		-0.300			-1.000		
02RC31	1.200	1.200	1.000			-0.300		1.000		
02RC32	1.200	1.200	1.000			-0.300		-1.000		
02RC33	1.200	1.200	1.000				-0.300	1.000		
02RC34	1.200	1.200	1.000				-0.300	-1.000		
02RC35	0.900	0.900		1.000				0.300		
02RC36	0.900	0.900		1.000				-0.300		
02RC37	0.900	0.900			1.000			0.300		
02RC38	0.900	0.900			1.000			-0.300		
02RC39	0.900	0.900				1.000		0.300		
02RC40	0.900	0.900				1.000		-0.300		



02RC41	0.900	0.900					1.000	0.300		
02RC42	0.900	0.900					1.000	-0.300		
02RC43	0.900	0.900		-1.000				0.300		
02RC44	0.900	0.900		-1.000				-0.300		
02RC45	0.900	0.900			-1.000			0.300		
02RC46	0.900	0.900			-1.000			-0.300		
02RC47	0.900	0.900				-1.000		0.300		
02RC48	0.900	0.900				-1.000		-0.300		
02RC49	0.900	0.900					-1.000	0.300		
02RC50	0.900	0.900					-1.000	-0.300		
02RC51	0.900	0.900		0.300				1.000		
02RC52	0.900	0.900		0.300				-1.000		
02RC53	0.900	0.900			0.300			1.000		
02RC54	0.900	0.900			0.300			-1.000		
02RC55	0.900	0.900				0.300		1.000		
02RC56	0.900	0.900				0.300		-1.000		
02RC57	0.900	0.900					0.300	1.000		
02RC58	0.900	0.900					0.300	-1.000		
02RC59	0.900	0.900		-0.300				1.000		
02RC60	0.900	0.900		-0.300				-1.000		
02RC61	0.900	0.900			-0.300			1.000		
02RC62	0.900	0.900			-0.300			-1.000		
02RC63	0.900	0.900				-0.300		1.000		
02RC64	0.900	0.900				-0.300		-1.000		
02RC65	0.900	0.900					-0.300	1.000		
02RC66	0.900	0.900					-0.300	-1.000		
02RC67	1.200	1.200	1.000						1.600	
02RC68	1.200	1.200	1.000							1.600
02RC69	1.200	1.200	1.000						-1.600	
02RC70	1.200	1.200	1.000							-1.600
02RC71	0.900	0.900							1.600	
02RC72	0.900	0.900								1.600
02RC73	0.900	0.900							-1.600	
02RC74	0.900	0.900								-1.600



5.0 工作載重結構行為限制

A. 梁變形限制

靜載重加活載重 L/240

活載重 L/360

B. 地震力側向變形角限制

最大變形角 5/1000

C. 結構受風力側向加速度限制

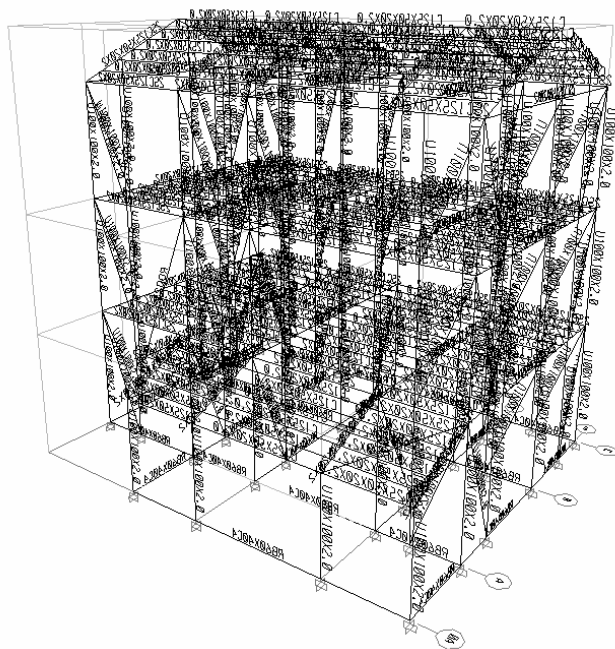
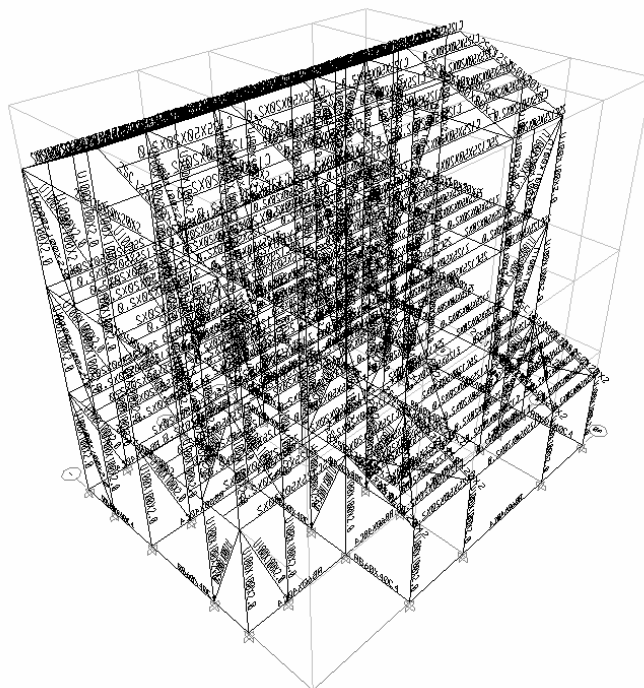
最大加速度 0.005g (0.05 m/sec²)

6.0 設計規範

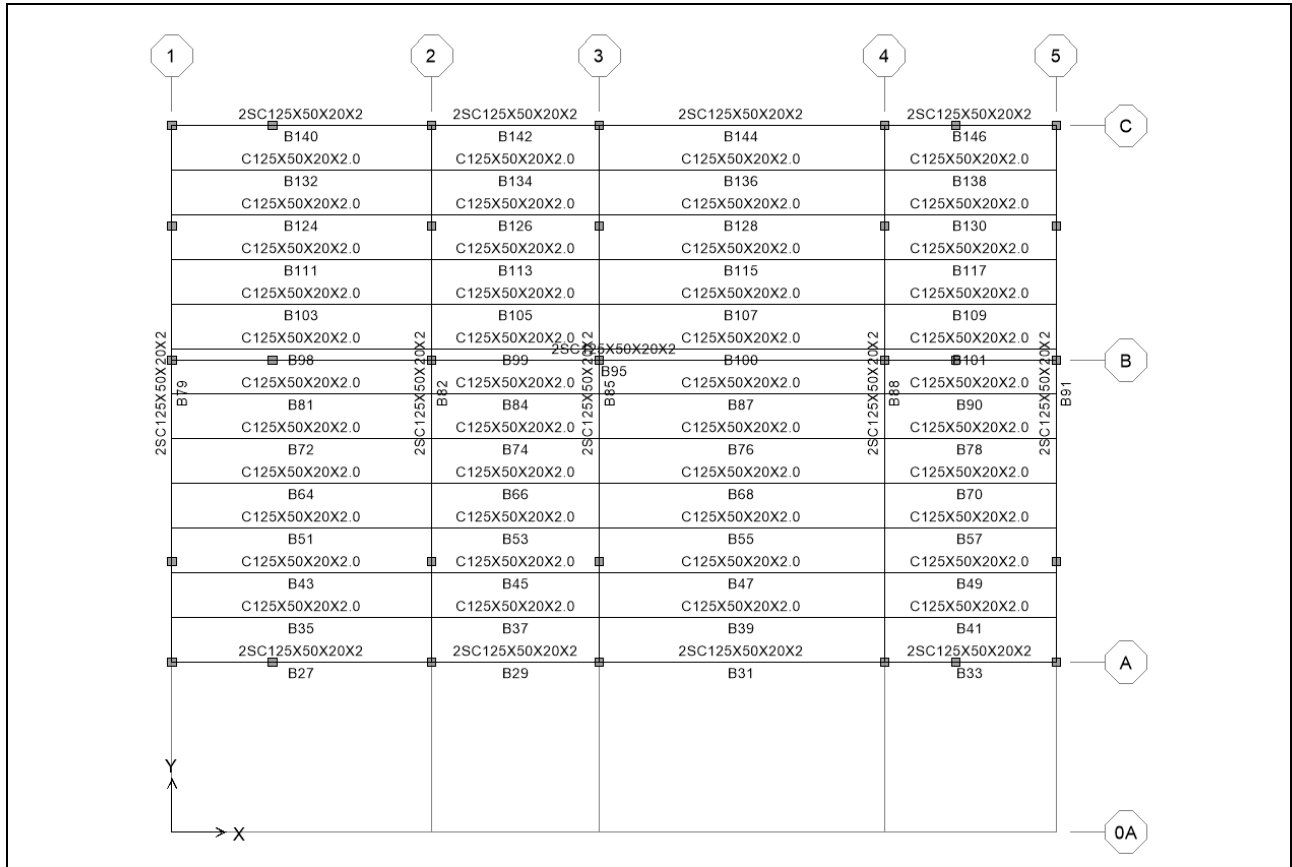
- (1) 建築技術規則, 內政部, 最新版。
- (2) 建築物耐震設計規範及解說, 內政部, 2011/07。
- (3) 建築物基礎構造設計規範, 內政部, 2001/10。
- (4) 混凝土結構設計規範, 內政部, 2011/07。
- (5) 建築物耐風設計規範及解說, 內政部, 2017/01。
- (6) 冷軋型鋼構造建築物結構設計規範及解說, 內政部, 2015/10
- (7) ACI 318-05。

7.0 結構分析程序

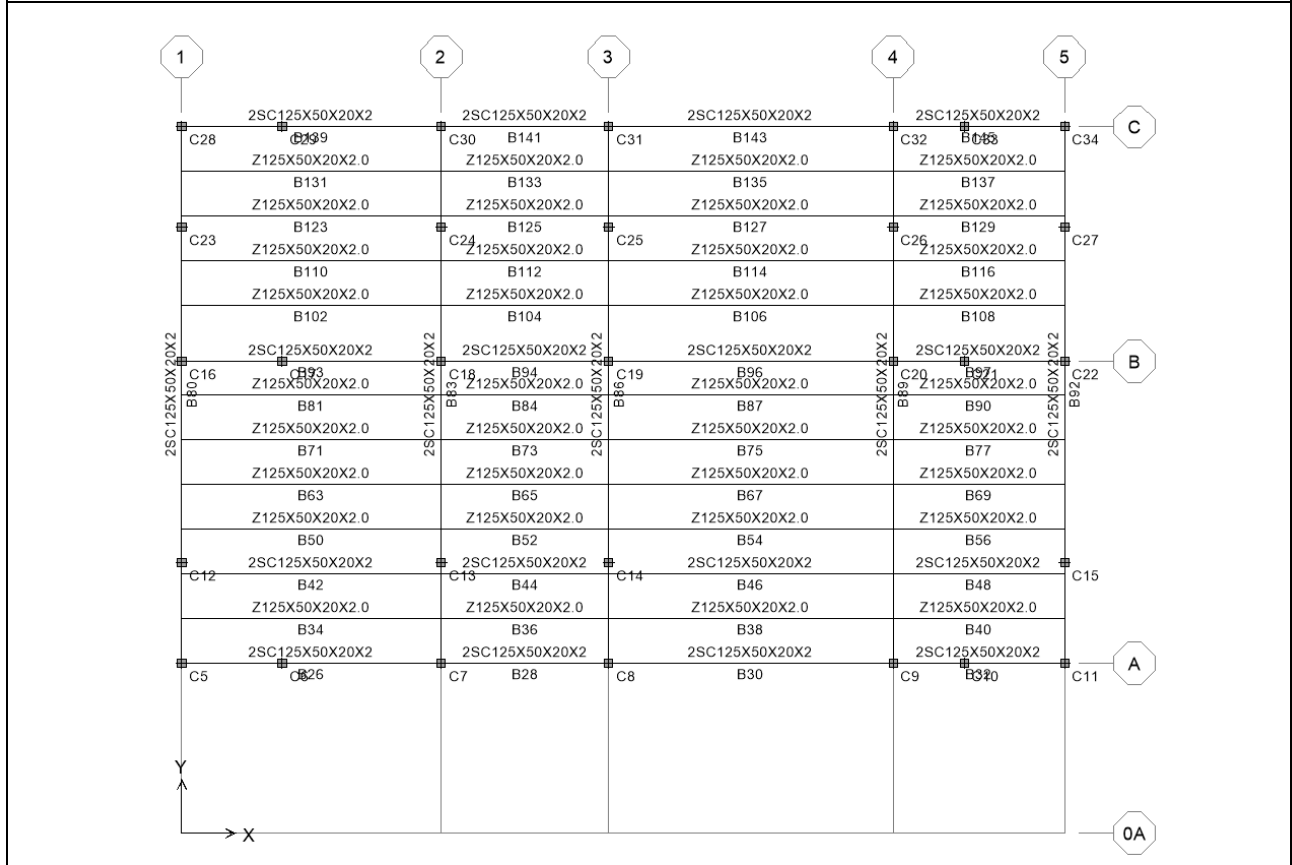
7.1 結構模型



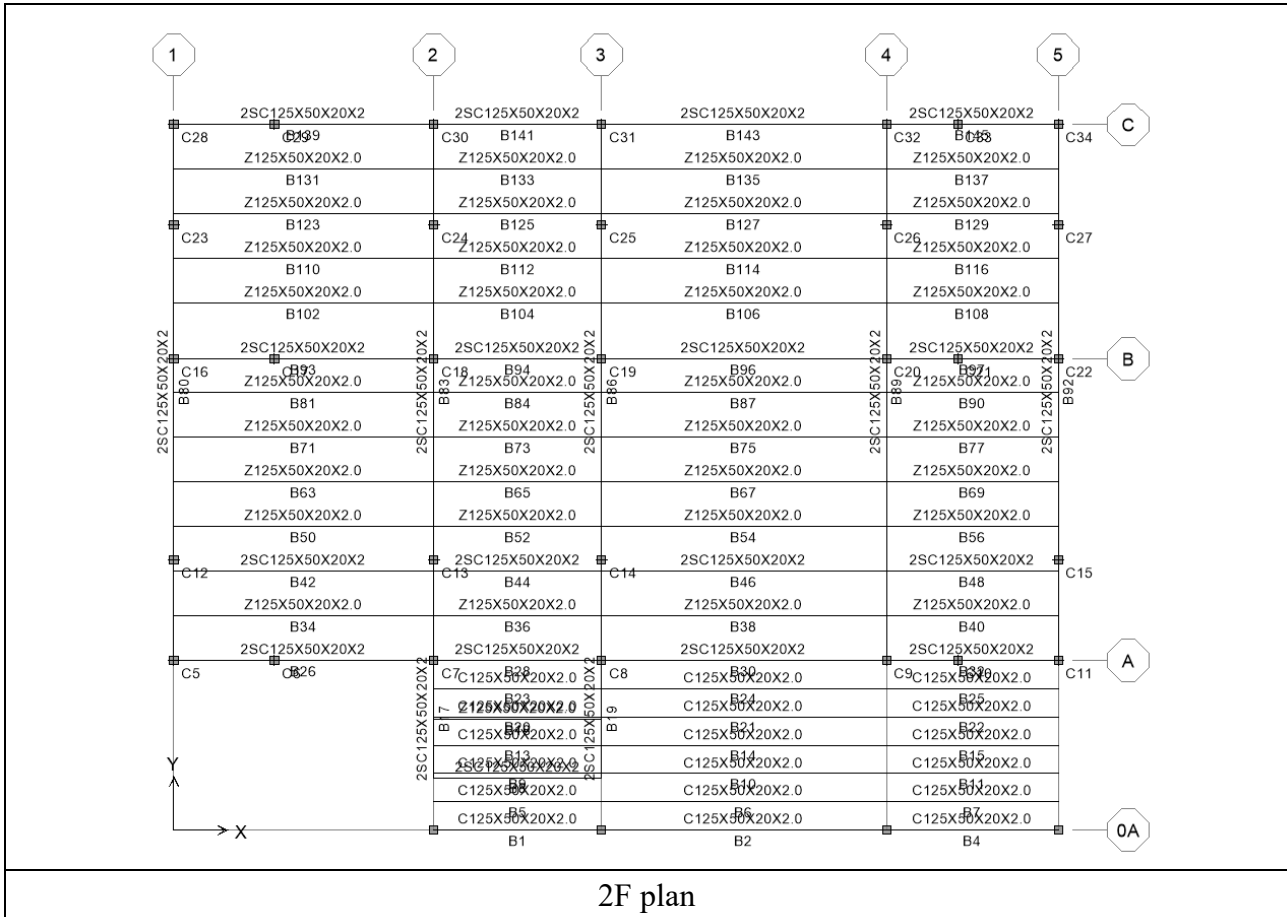
3D view

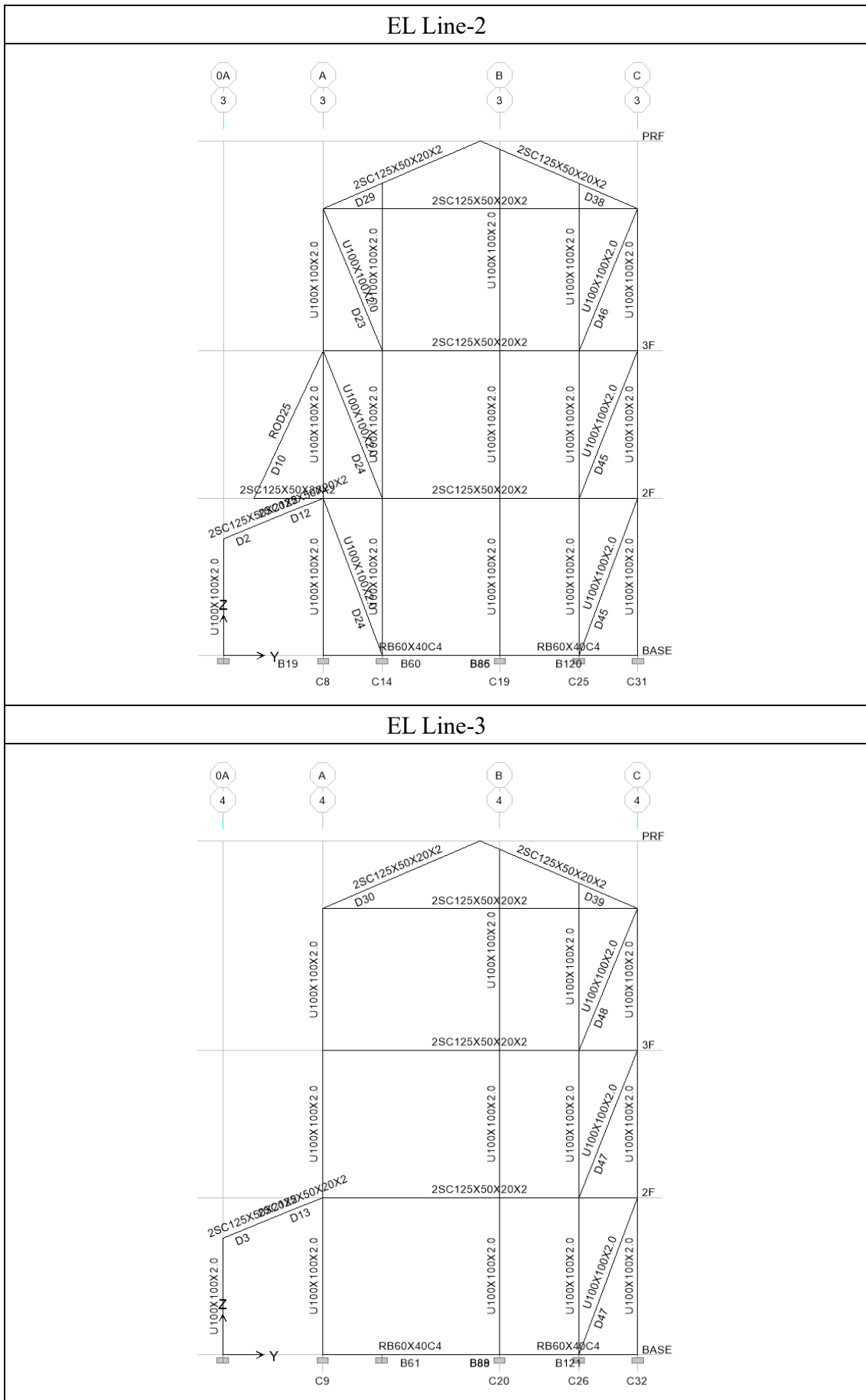


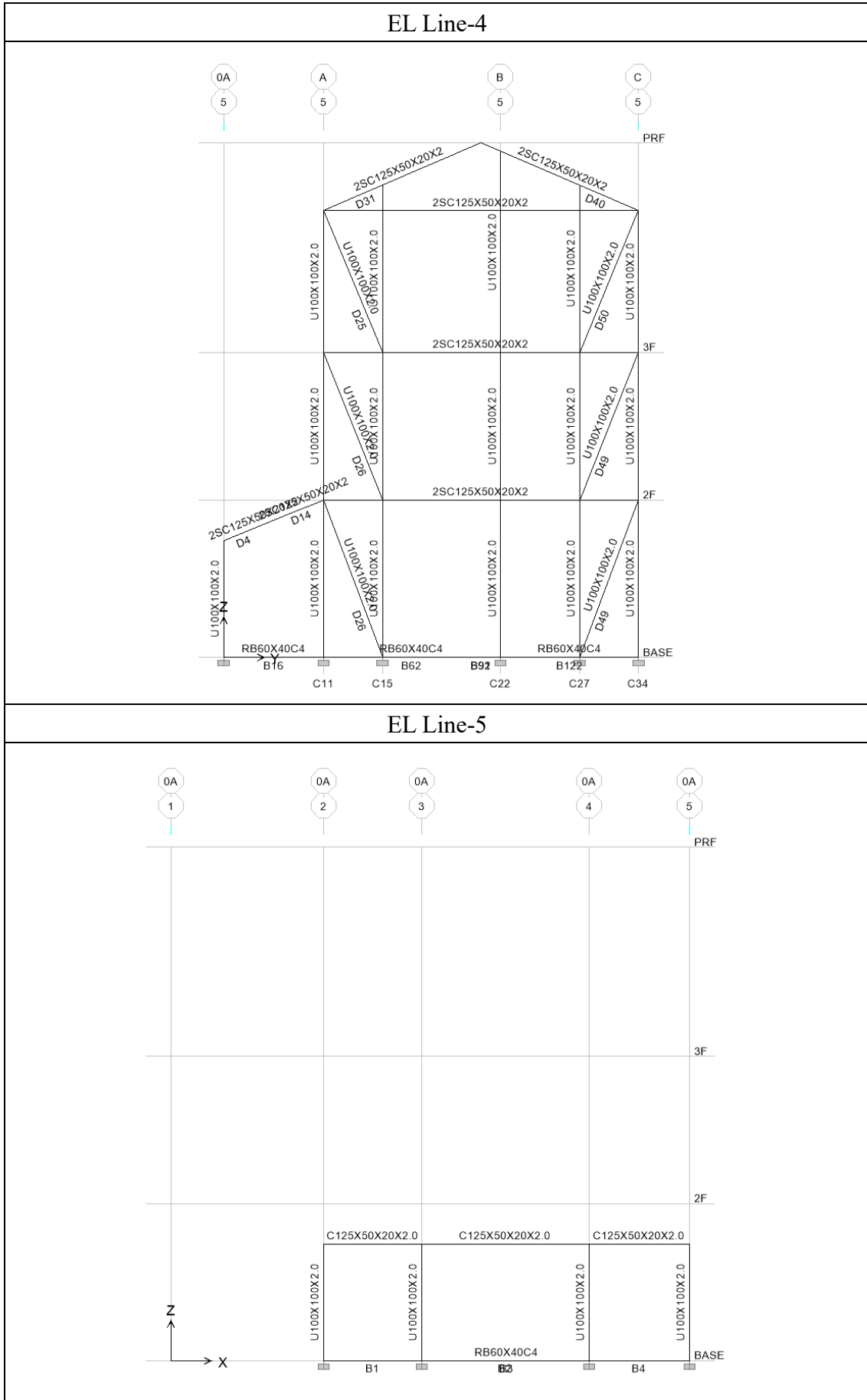
PRF plan

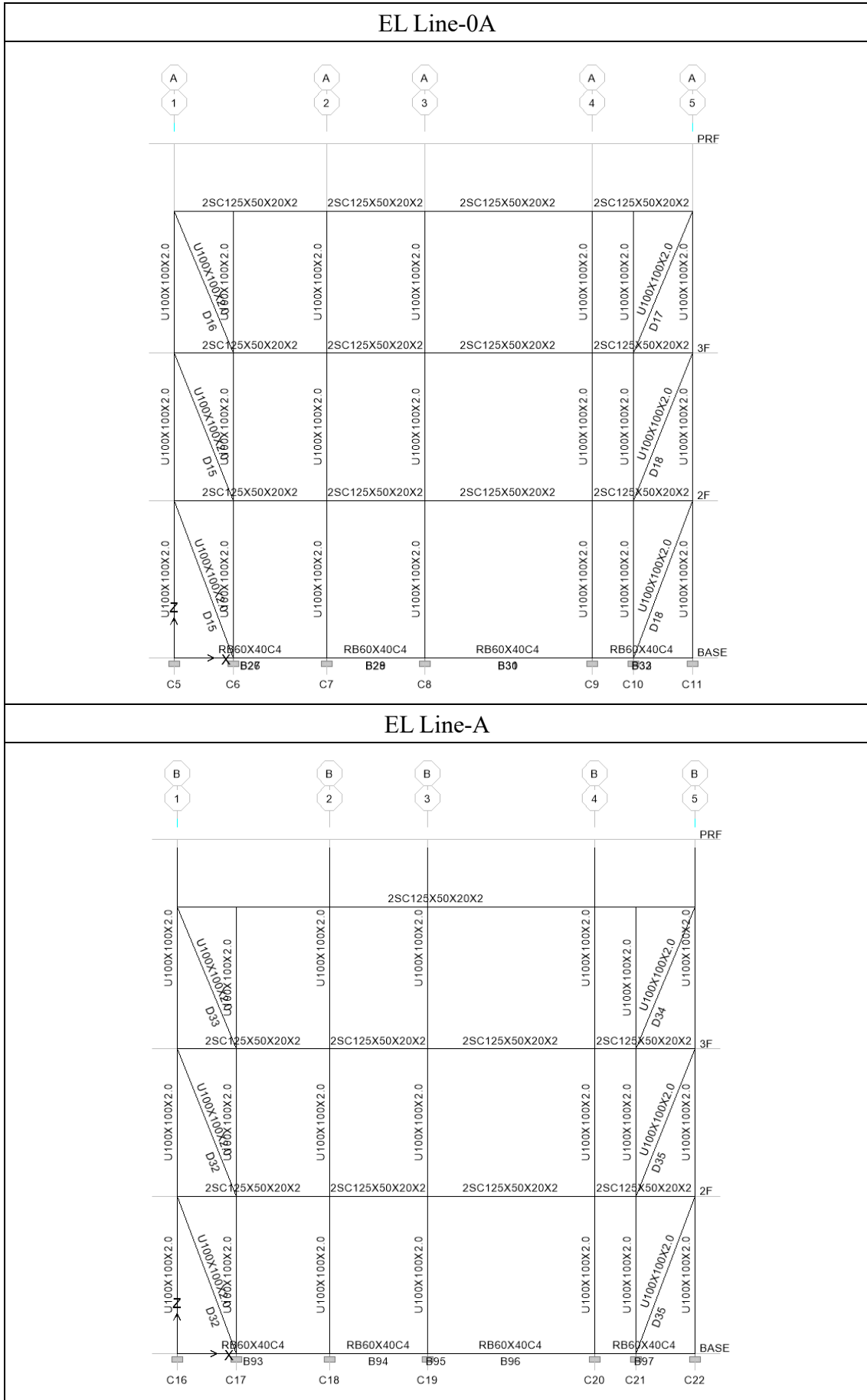


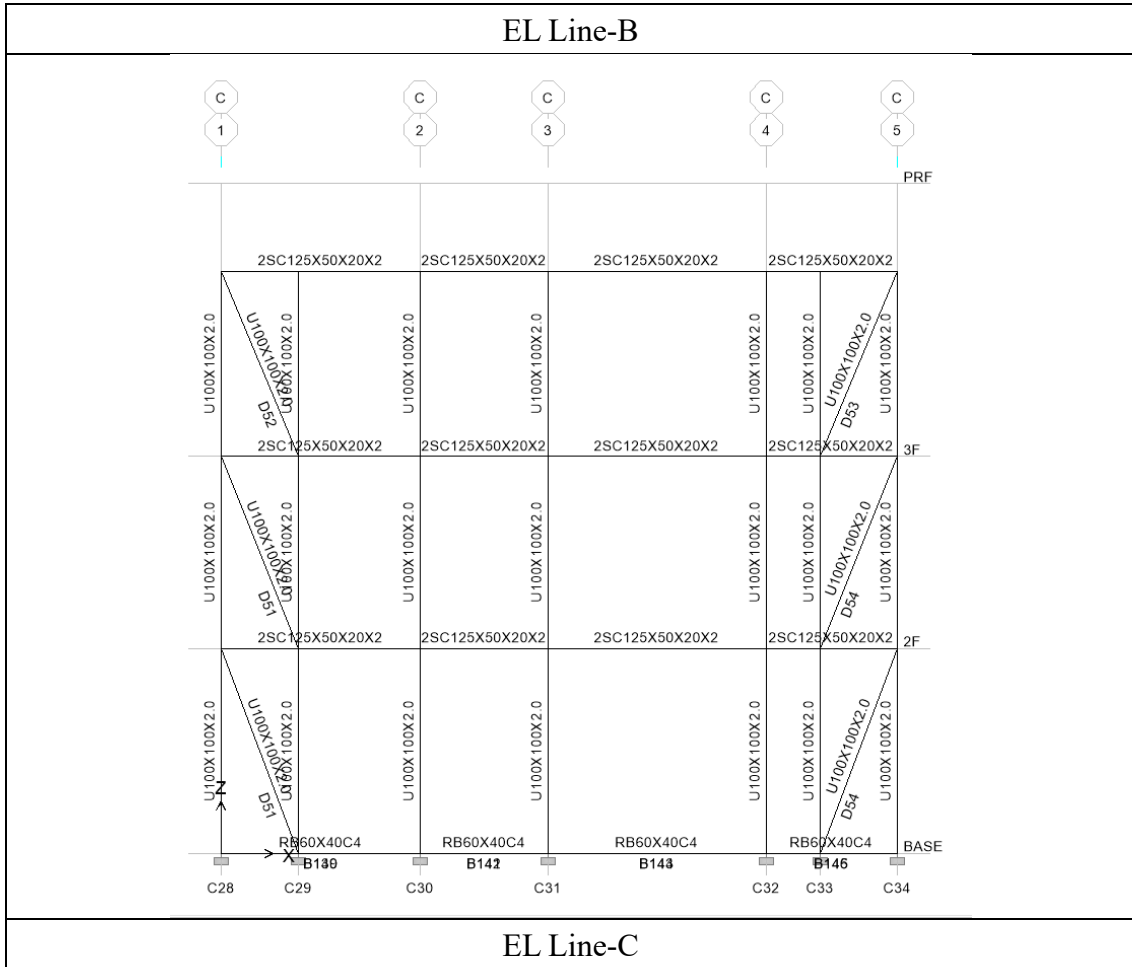
3F plan







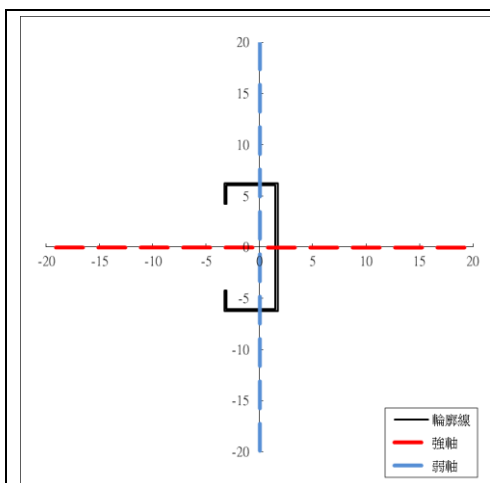






斷面性質

C125x50x20x2.0



斷面積： $A= 5.140 \text{ (cm}^2\text{)}$

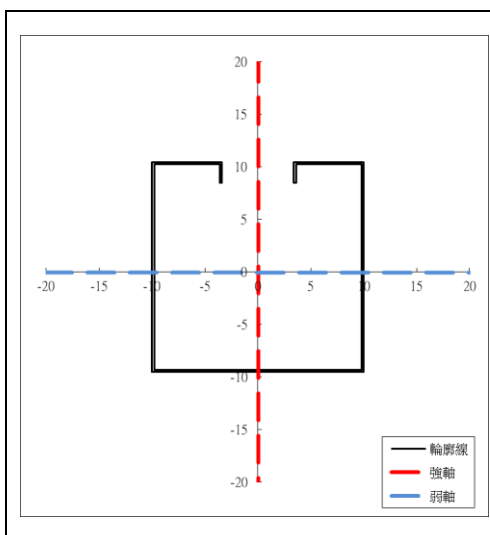
慣性矩： $I_x= 124.468 \text{ (cm}^4\text{)}$

$I_y= 19.025 \text{ (cm}^4\text{)}$

斷面模數： $S_x= 19.915 \text{ (cm}^3\text{)}$

$S_y= 5.776 \text{ (cm}^3\text{)}$

U100x100x2.0



斷面積： $A= 15.200 \text{ (cm}^2\text{)}$

慣性矩： $I_x= 955.743 \text{ (cm}^4\text{)}$

$I_y= 1038.673 \text{ (cm}^4\text{)}$

斷面模數： $S_x= 91.334 \text{ (cm}^3\text{)}$

$S_y= 103.867 \text{ (cm}^3\text{)}$

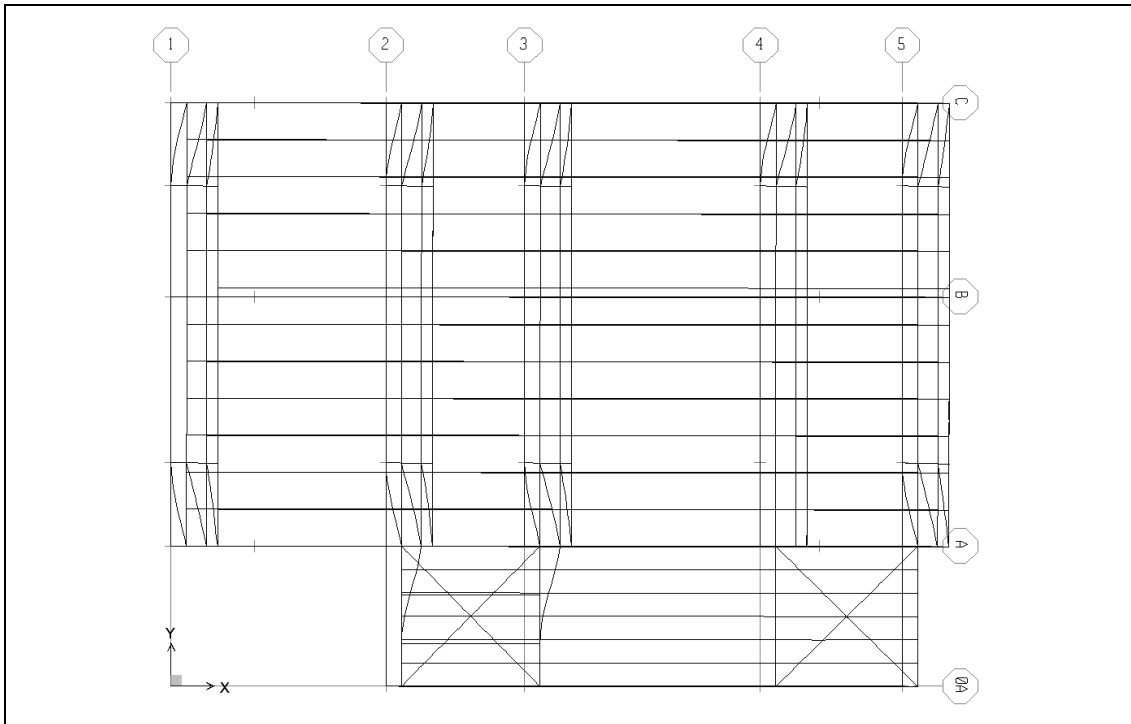


2-C125x50x20x2.0

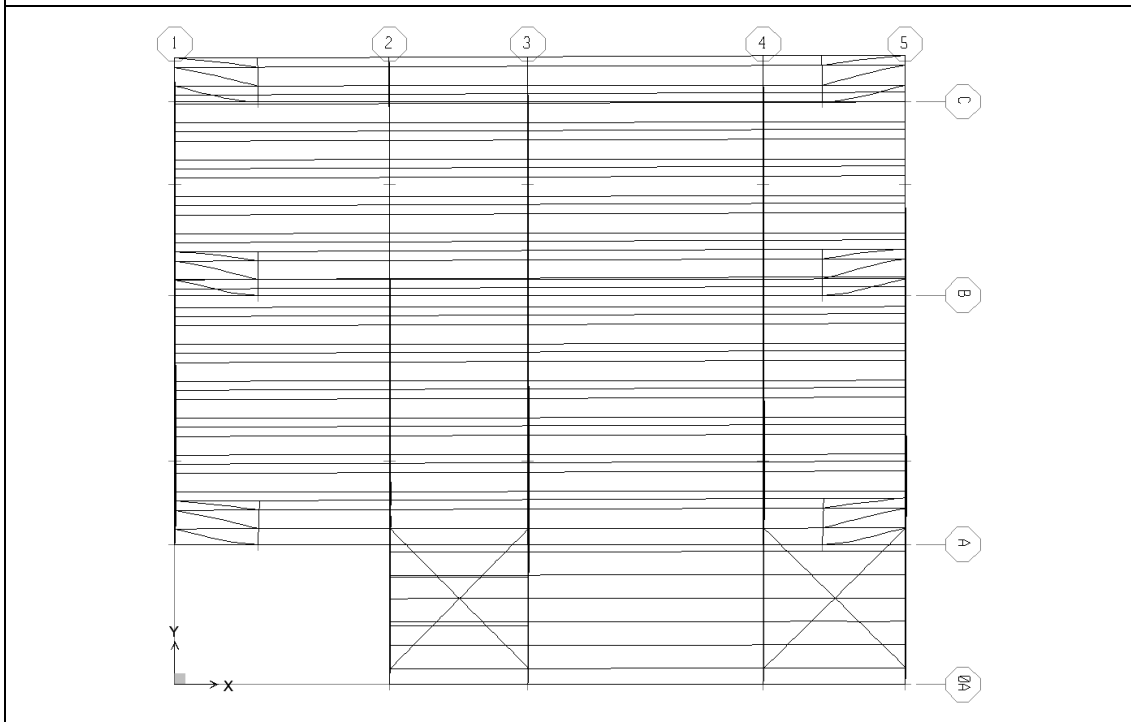
	<p>彈性係數：</p> $E = 2100000 \quad (\text{kgf/cm}^2)$ <p>斷面積：</p> $A = \frac{\sum E \cdot A}{E} = 10.280 \quad (\text{cm}^2)$ <p>慣性矩：</p> $I_x = \frac{\sum E \cdot I_x}{E} = 248.937 \quad (\text{cm}^4)$ $I_y = \frac{\sum E \cdot I_y}{E} = 38.050 \quad (\text{cm}^4)$ <p>斷面模數：</p> $S_x = \frac{\sum E \cdot I_x}{E_i \cdot y_i} = 39.830 \quad (\text{cm}^3)$ $S_y = \frac{\sum E \cdot I_y}{E_i \cdot x_i} = 11.552 \quad (\text{cm}^3)$
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



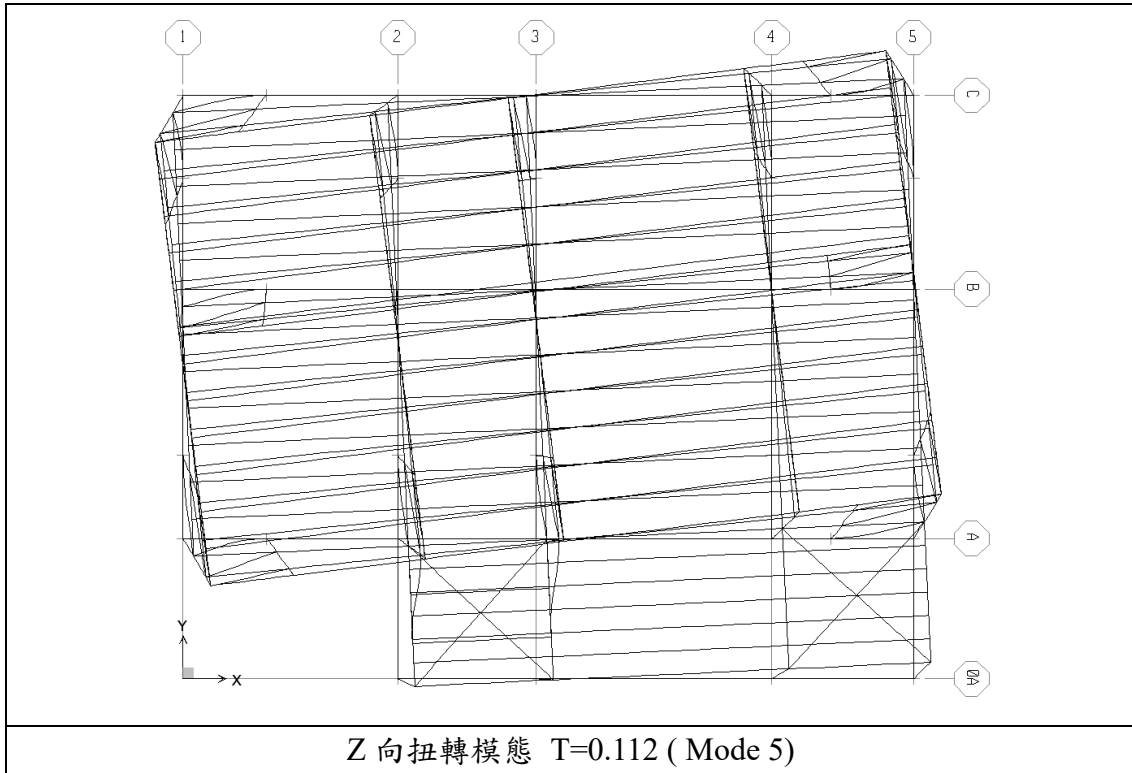
7.2 模態分析



X 向位移模態 T=0.190 (Mode 1)



Y 向位移模態 T=0.161 (Mode 2)



有效累積振態質量

Mode	Period	UX	UY	RZ	SumUX	SumUY	SumRZ	Remark
1	0.190	77.671	0.116	1.625	77.671	0.116	1.625	X-Dir
2	0.161	0.890	44.162	1.740	78.561	44.277	3.365	Y-Dir
3	0.153	0.327	33.779	2.563	78.888	78.056	5.928	
4	0.136	0.233	0.874	31.863	79.121	78.930	37.791	
5	0.112	0.010	5.672	32.302	79.131	84.602	70.092	Z-Tor
6	0.099	7.941	0.001	0.011	87.072	84.602	70.104	
7	0.093	0.285	0.512	2.413	87.357	85.114	72.517	
8	0.084	0.497	0.205	4.747	87.854	85.319	77.264	
9	0.078	0.009	1.749	3.877	87.863	87.068	81.141	
10	0.076	0.001	0.677	3.530	87.864	87.744	84.671	
11	0.074	2.807	0.003	0.656	90.670	87.747	85.328	
12	0.069	0.519	0.009	3.529	91.190	87.757	88.857	
13	0.058	4.408	0.012	0.047	95.598	87.769	88.904	
14	0.055	0.822	0.014	0.703	96.419	87.783	89.607	
15	0.051	0.001	0.074	0.011	96.420	87.856	89.618	



7.2 鋼結構設計：

根據鋼構造建築物鋼結構設計技術規範，鋼結構極限設計法之相關規定，對稱構材承受彎矩及軸力交互作用時，須滿足公式(8.2-1a)或(8.2-1b)之規定。

當 $\frac{P_u}{\phi P_n} \geq 0.2$ 時

$$\frac{P_u}{\phi P_n} + \frac{8}{9} \left[\frac{M_{ux}}{\phi_b M_{nx}} + \frac{M_{uy}}{\phi_b M_{ny}} \right] \leq 1.0 \quad (8.2-1a)$$

當 $\frac{P_u}{\phi P_n} < 0.2$ 時

$$\frac{P_u}{2\phi P_n} + \left[\frac{M_{ux}}{\phi_b M_{nx}} + \frac{M_{uy}}{\phi_b M_{ny}} \right] \leq 1.0 \quad (8.2-1b)$$

其中

P_u = 所需之軸拉力或軸壓力強度

P_n = 標稱抗拉強度或標稱抗壓強度

M_u = 所需之撓曲強度

M_n = 標稱之撓曲強度

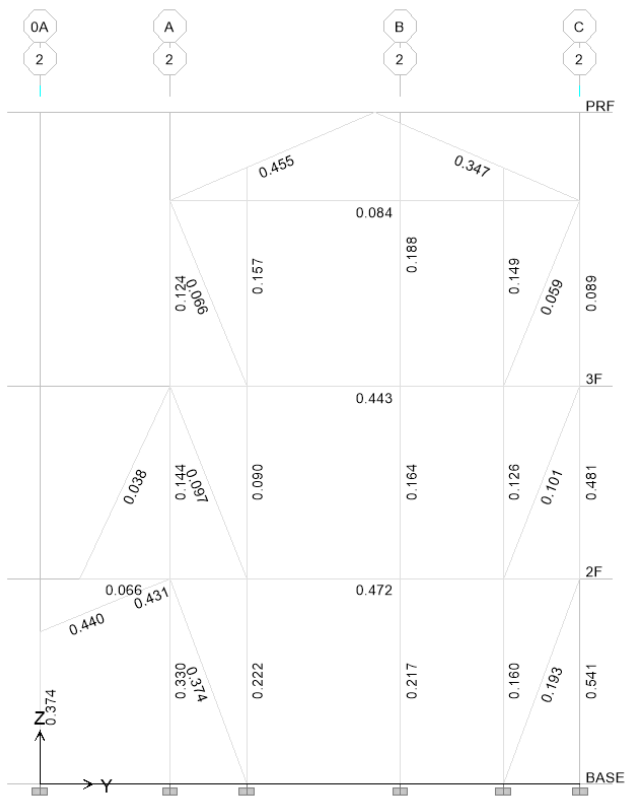
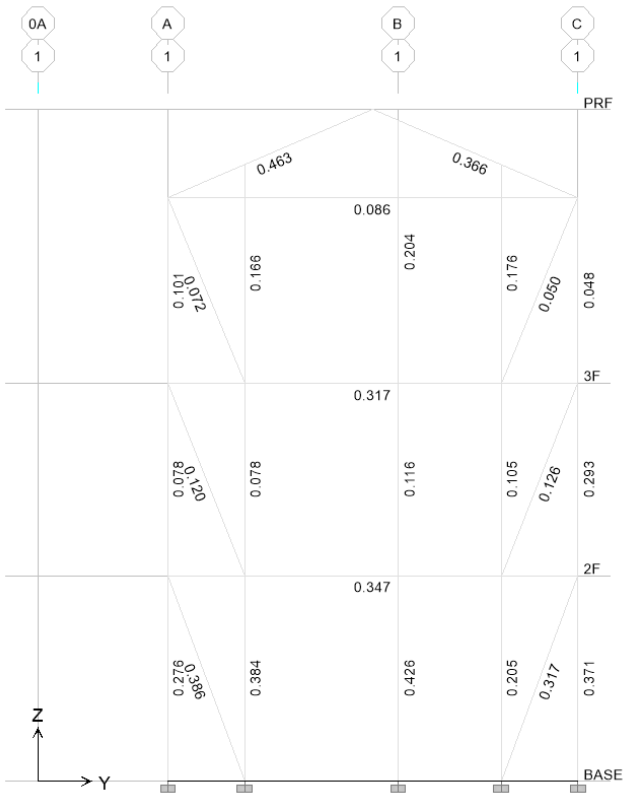
x = 強軸

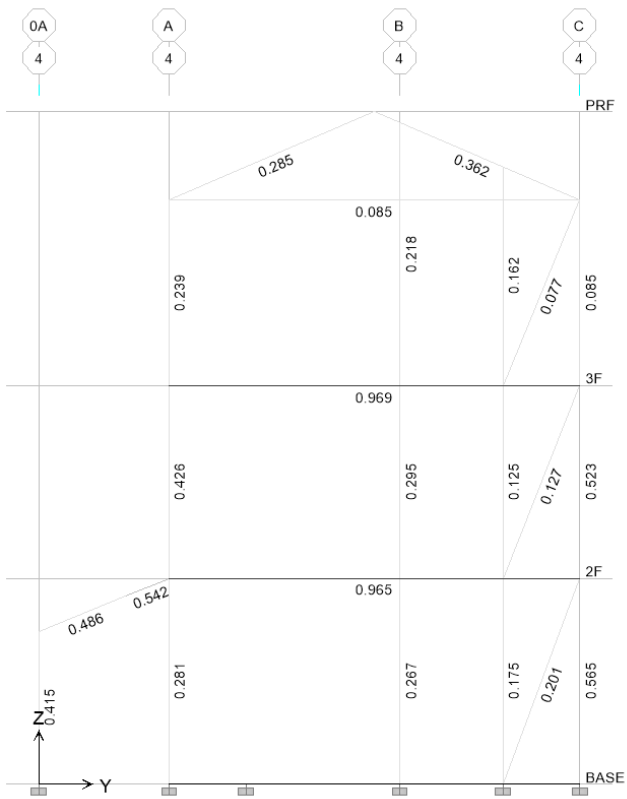
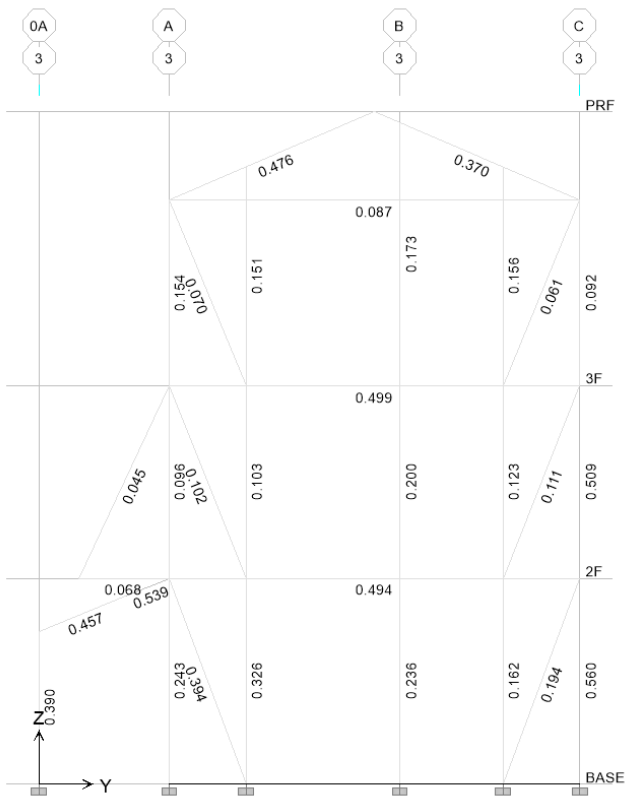
y = 弱軸

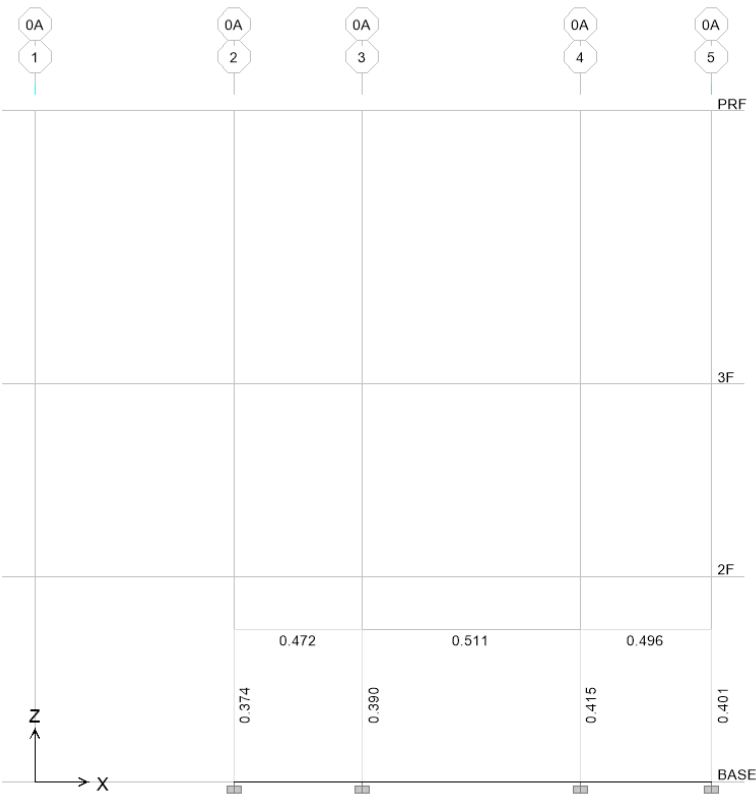
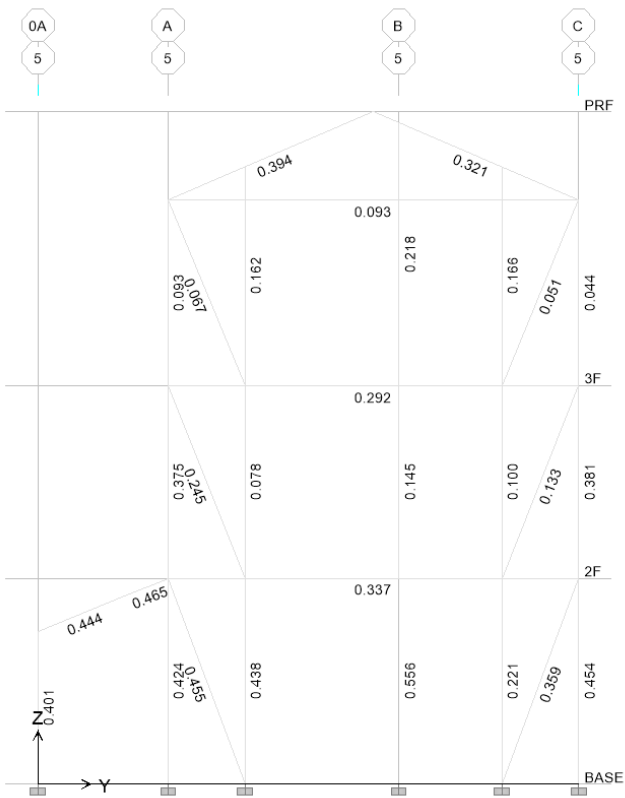
ϕ = 軸力載重下之強度折減係數

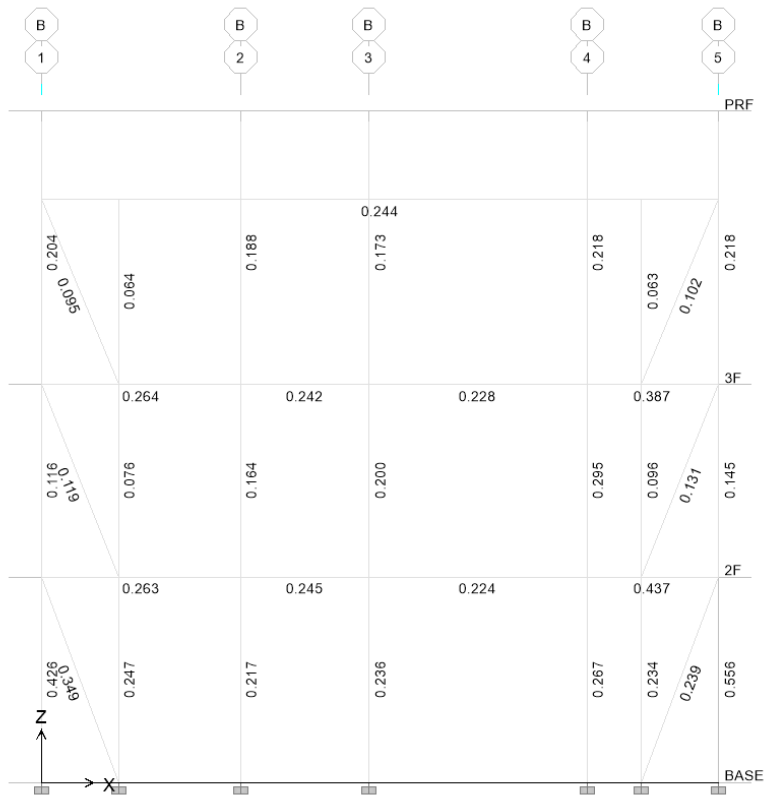
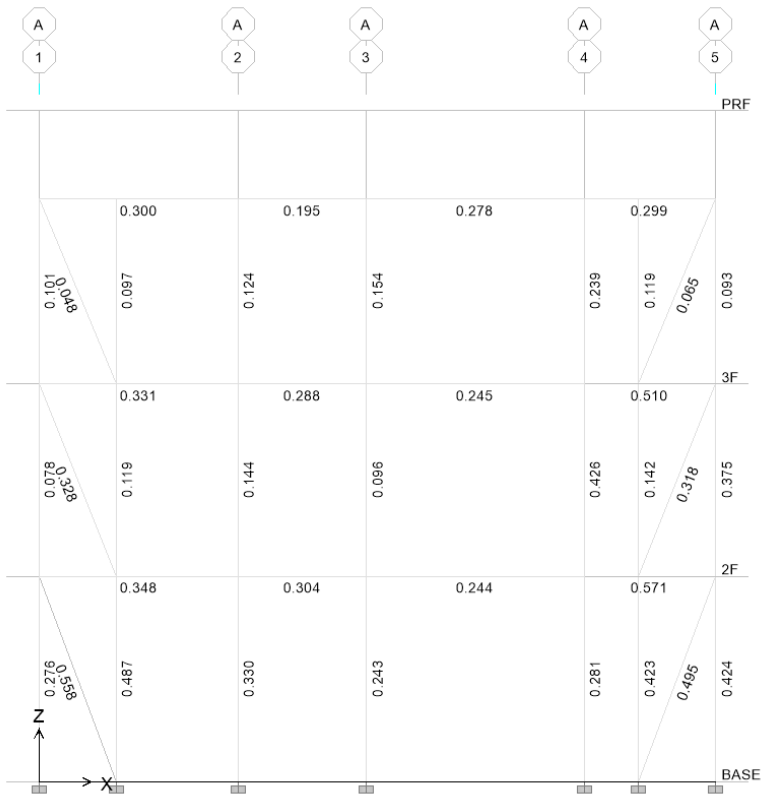
ϕ_b = 撓曲載重下之強度折減係數

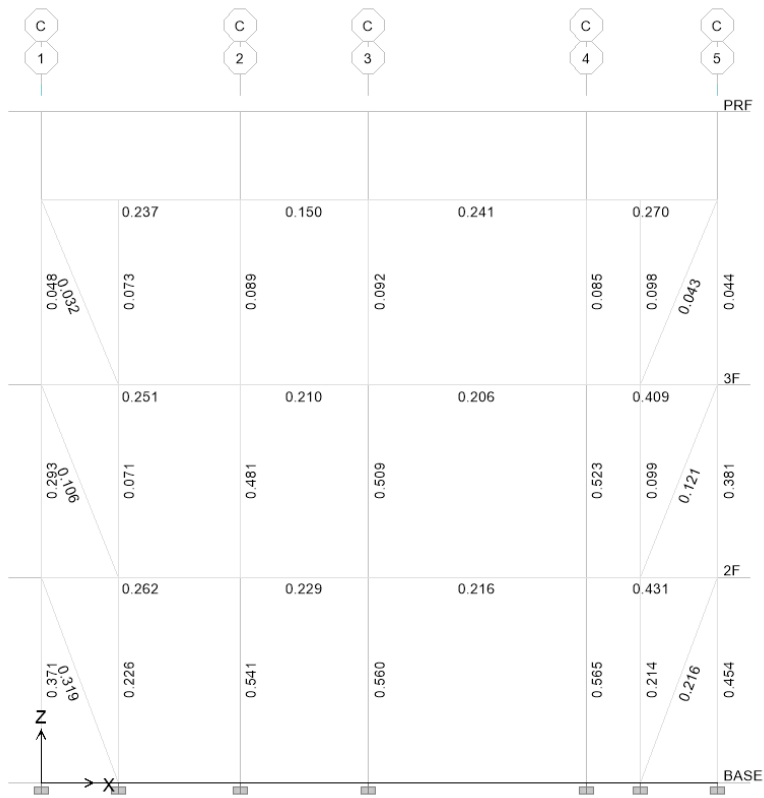
分析模型各桿件的應力比皆小於1.....OK!













9.0 基礎設計 / Foundation Design

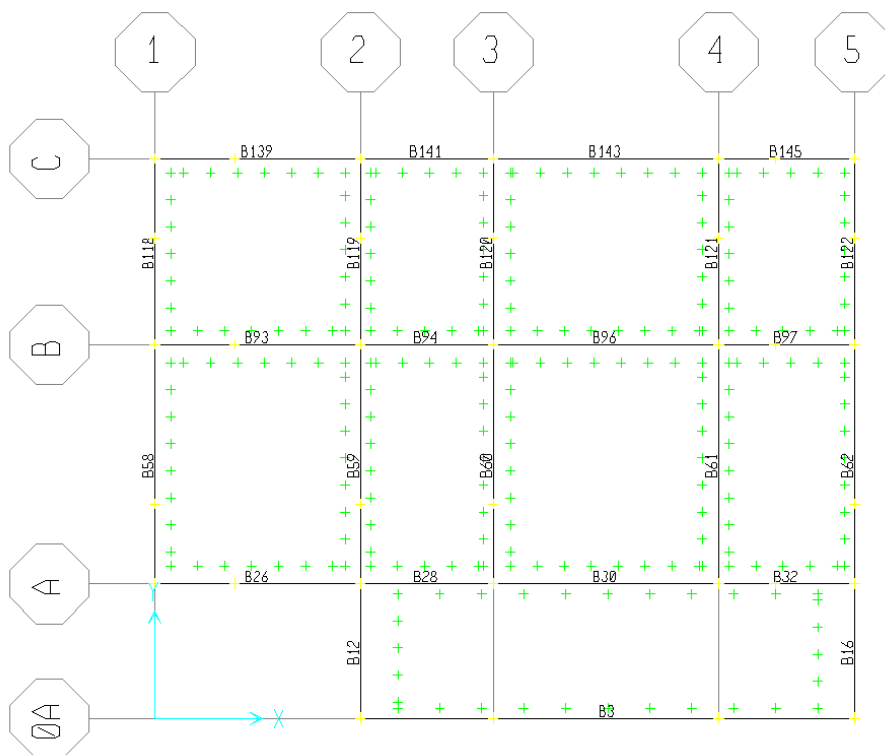
9.1 基礎設計說明

本案基礎設計採 CSI 公司之 2-D 分析軟體”SAFE V8.01”，分析元素包含基礎版、及地梁，版元素下方承受地下水壓上舉水浮力，版元素上方則於柱位置處承受結構傳遞之垂直載重，包含靜載重、活載重及地震力等。將基礎為一柔性體，應用土壤彈簧 (Soil Spring) 之觀念，將土壤模擬成無受拉彈簧，同時合併基礎地梁、版之勁度進行分析並設計。

9.1.1 分析基本資料

依據鄰近地質鑽探報告，各設計數據如下：

地盤垂直反力係數	$K_v = 1000(\text{tf}/\text{m}^3)$
常時水位(WAN)	GL -10m
高水位(WAH)	GL -7m
土壤容許乘載力	$q_a > 10 (\text{tf}/\text{m}^2)$



基礎結構平面圖



9.1.2 基礎設計載重組合

地震力分析採用法規靜力地震力，將上部結構桿件力傳至基礎。配筋設計採用設計地震力之 $1.4\alpha y$ 倍作為設計載重。分析及配筋設計之載重組合如下：

DL：靜載重(包含自重)

LL：活載重

E：法規地震載重 (EXP、EXN、EYP、EYN)

EXP、EXN：X 向法規靜力地震載重(含正負 5% 質心偏移，P 為正，N 為負)

EYP、EYN：Y 向法規靜力地震載重(含正負 5% 質心偏移，P 為正，N 為負)

WA：水浮力 (WAH、WAN)

WAH：高水位時之水浮力

WAN：常時水位之水浮力

檢核(乘載力檢核)

$$1.0DL+1.0WA$$

$$1.0DL+1.0LL+1.0WA$$

$$1.0DL+1.0LL\pm 1.0E+1.0WA$$

設計

$$1.4DL+1.4WA$$

$$1.2DL+1.6LL+1.2WA$$

$$1.2DL+1.0LL\pm 1.4E$$

$$0.9DL\pm 1.4E$$



	DL	SDL	LL	EXP	EYP	EXN	EYN	WAH	WAN	備註
BASE01	1.000	1.000						1.000		檢核(乘載力檢核)
BASE02	1.000	1.000							1.000	
BASE03	1.000	1.000	1.000					1.000		
BASE04	1.000	1.000	1.000						1.000	
BASE05	1.000	1.000	1.000	1.000				1.000		
BASE06	1.000	1.000	1.000	1.000					1.000	
BASE07	1.000	1.000	1.000		1.000			1.000		
BASE08	1.000	1.000	1.000		1.000				1.000	
BASE09	1.000	1.000	1.000			1.000		1.000		
BASE10	1.000	1.000	1.000			1.000			1.000	
BASE11	1.000	1.000	1.000				1.000	1.000		
BASE12	1.000	1.000	1.000				1.000		1.000	
BASE13	1.000	1.000	1.000	-1.000				1.000		
BASE14	1.000	1.000	1.000	-1.000					1.000	
BASE15	1.000	1.000	1.000		-1.000			1.000		
BASE16	1.000	1.000	1.000		-1.000				1.000	
BASE17	1.000	1.000	1.000			-1.000		1.000		
BASE18	1.000	1.000	1.000			-1.000			1.000	
BASE19	1.000	1.000	1.000				-1.000	1.000		
BASE20	1.000	1.000	1.000				-1.000		1.000	
BASE21	1.400	1.400						1.400		設計
BASE22	1.400	1.400							1.400	
BASE23	1.200	1.200	1.600					1.200		
BASE24	1.200	1.200	1.600						1.200	
BASE25	1.200	1.200	1.000	1.400						
BASE26	1.200	1.200	1.000		1.400					
BASE27	1.200	1.200	1.000			1.400				
BASE28	1.200	1.200	1.000				1.400			
BASE29	1.200	1.200	1.000	-1.400						
BASE30	1.200	1.200	1.000		-1.400					
BASE31	1.200	1.200	1.000			-1.400				
BASE32	1.200	1.200	1.000				-1.400			
BASE33	0.900	0.900		1.400						
BASE34	0.900	0.900			1.400					
BASE35	0.900	0.900				1.400				
BASE36	0.900	0.900					1.400			



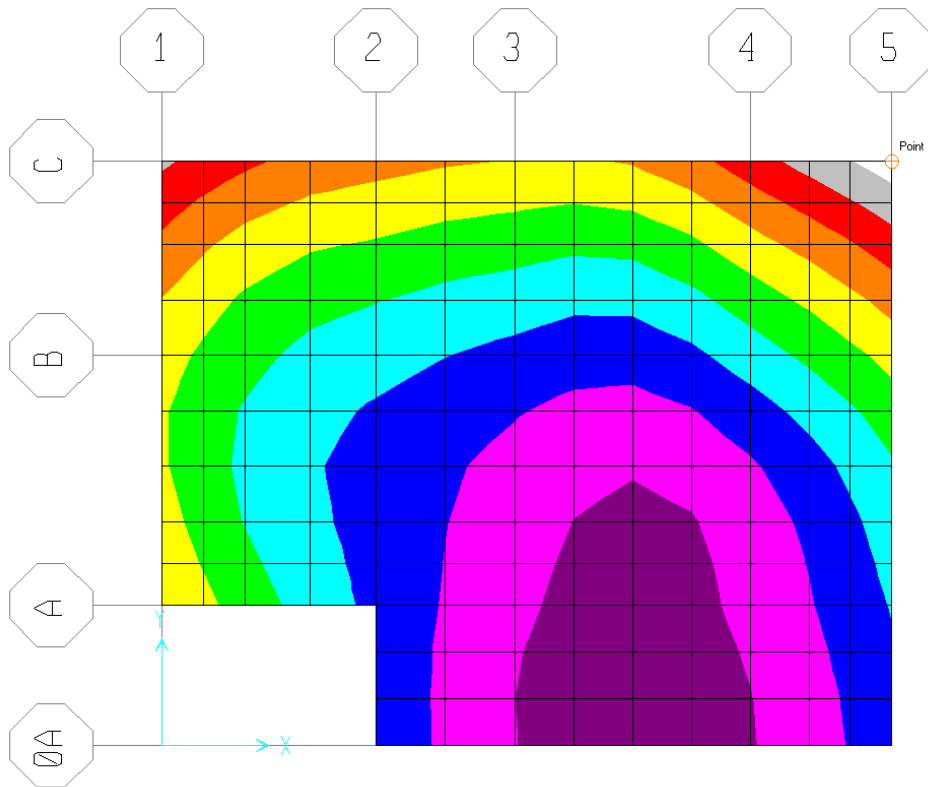
BASE37	0.900	0.900		-1.400					
BASE38	0.900	0.900			-1.400				
BASE39	0.900	0.900				-1.400			
BASE40	0.900	0.900					-1.400		

9.2 基礎分析

9.2.1 分析基本資料

1. 容許承载力檢核：

承载力檢核考慮載重組合為 BASE04



土壤最大反力為 $4.266(\text{tf}/\text{m}^2) < q_a = 10(\text{tf}/\text{m}^2) \dots \text{OK}$



2. 角變量檢核：

載重組合	基礎最大角變量 η	最大角變量桿件	檢核角變量 η
BASE01	1 /10029	B26	$\eta < 1/500 \dots OK$
BASE02	1 /10029	B26	$\eta < 1/500 \dots OK$
BASE03	1 /8201	B26	$\eta < 1/500 \dots OK$
BASE04	1 /8201	B26	$\eta < 1/500 \dots OK$
BASE05	1 /6511	B28	$\eta < 1/333 \dots OK$
BASE06	1 /6511	B28	$\eta < 1/333 \dots OK$
BASE07	1 /8996	B26	$\eta < 1/333 \dots OK$
BASE08	1 /8996	B26	$\eta < 1/333 \dots OK$
BASE09	1 /6511	B28	$\eta < 1/333 \dots OK$
BASE10	1 /6511	B28	$\eta < 1/333 \dots OK$
BASE11	1 /8996	B26	$\eta < 1/333 \dots OK$
BASE12	1 /8996	B26	$\eta < 1/333 \dots OK$
BASE13	1 /5832	B26	$\eta < 1/333 \dots OK$
BASE14	1 /5832	B26	$\eta < 1/333 \dots OK$
BASE15	1 /7535	B26	$\eta < 1/333 \dots OK$
BASE16	1 /7535	B26	$\eta < 1/333 \dots OK$
BASE17	1 /5832	B26	$\eta < 1/333 \dots OK$
BASE18	1 /5832	B26	$\eta < 1/333 \dots OK$
BASE19	1 /7535	B26	$\eta < 1/333 \dots OK$
BASE20	1 /7535	B26	$\eta < 1/333 \dots OK$



3. 基礎最大沉陷量檢核

載重組合	基礎最大沉陷變位 δ (cm)	最大沉陷點	檢核沉陷變位
BASE01	-0.255	123	$\delta < 5.000(\text{cm}) \dots \text{OK}$
BASE02	-0.255	123	$\delta < 5.000(\text{cm}) \dots \text{OK}$
BASE03	-0.427	123	$\delta < 5.000(\text{cm}) \dots \text{OK}$
BASE04	-0.427	123	$\delta < 5.000(\text{cm}) \dots \text{OK}$
BASE05	-0.462	123	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE06	-0.462	123	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE07	-0.462	123	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE08	-0.462	123	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE09	-0.462	123	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE10	-0.462	123	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE11	-0.462	123	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE12	-0.462	123	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE13	-0.443	117	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE14	-0.443	117	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE15	-0.410	29	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE16	-0.410	29	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE17	-0.443	117	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE18	-0.443	117	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE19	-0.410	29	$\delta < 7.500(\text{cm}) \dots \text{OK}$
BASE20	-0.410	29	$\delta < 7.500(\text{cm}) \dots \text{OK}$

9.3 基礎結構設計

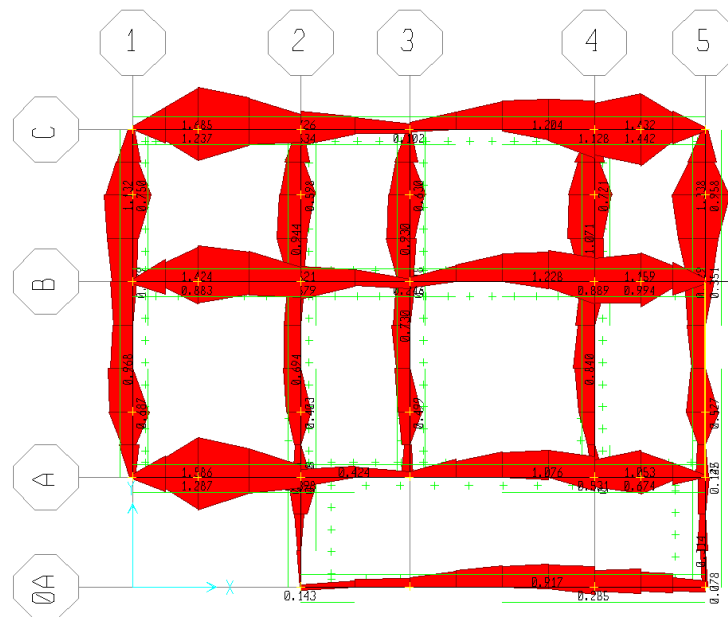
1. 材料強度

混凝土抗壓強度： 280 kgf/cm^2

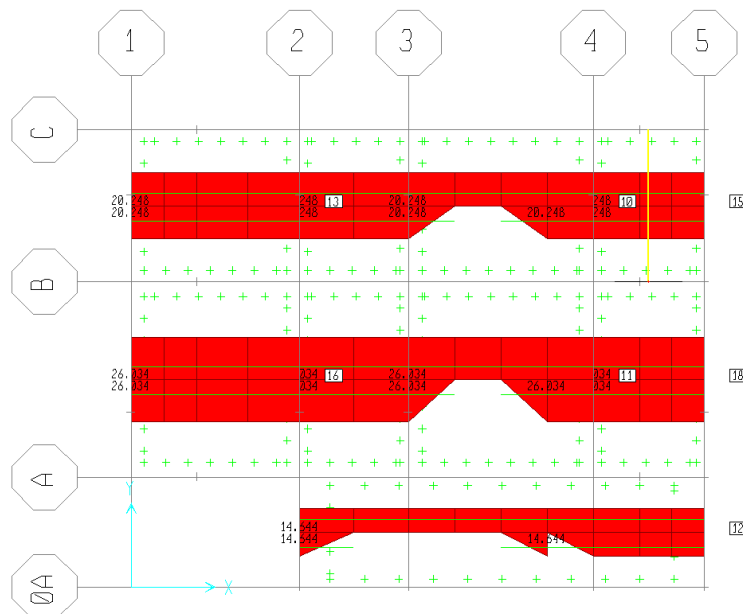
鋼筋降伏強度： 2800 kgf/cm^2 (#3 及以下)

4200 kgf/cm^2 (#4 及以上)

2. 地樑設計

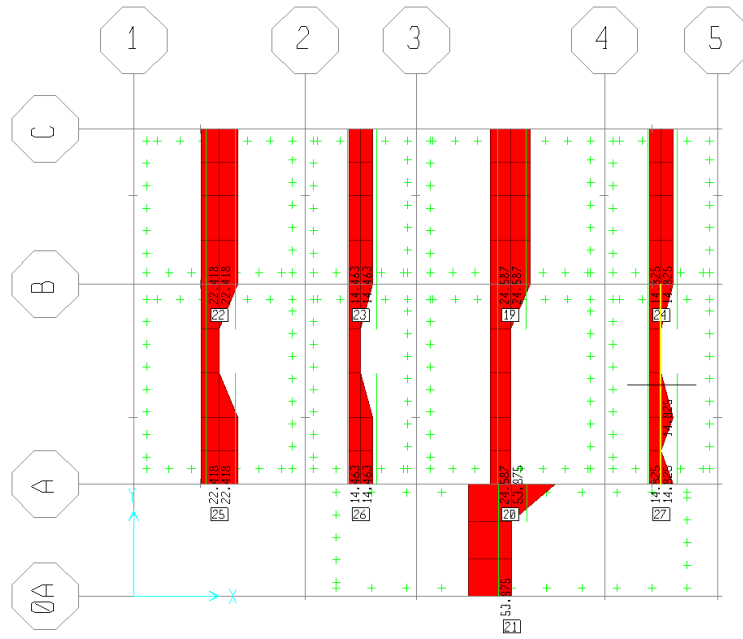


3. 基版 X 向鋼筋需求





4. 基版 Y 向鋼筋需求





附錄

PROGRAM INFORMATION

PROGRAM 'ETABS' VERSION '9.5.0'

CONTROLS

UNITS 'KGF' 'CM'
TITLE 'Le-Lit Structure Stairs'
PREFERENCE MERGETOL 0.1
RLFF METHOD 'TRIBAREAUC97' USEDEFAULTMIN 'YES'

STORES - IN SEQUENCE FROM TOP

STORY 'PRF' HEIGHT 426.4 SIMILARTO '2F'
STORY '3F' HEIGHT 300 SIMILARTO '2F'
STORY '2F' HEIGHT 320 MASTERSTORY 'Yes'
STORY 'BASE' ELEV 0

DIAPHRAGM NAMES

DIAPHRAGM 'D1' TYPE RIGID
DIAPHRAGM 'D2' TYPE RIGID
DIAPHRAGM 'D3' TYPE RIGID

GRIDS

COORDSYSTEM 'GLOBAL' TYPE 'CARTESIAN' BUBBLELIZE 50
GRID 'GLOBAL' LABEL '1' DIR 'X' COORD 0 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '2' DIR 'X' COORD 310 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '3' DIR 'X' COORD 510 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '4' DIR 'X' COORD 850 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '5' DIR 'X' COORD 1055 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL '6A' DIR 'Y' COORD 0 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL 'A' DIR 'Y' COORD 202.5 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL 'B' DIR 'Y' COORD 562.5 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'
GRID 'GLOBAL' LABEL 'C' DIR 'Y' COORD 842.5 GRIDTYPE 'PRIMARY' BUBBLELOC 'DEFAULT' GRIDHIDE 'NO'

MATERIAL PROPERTIES

MATERIAL 'STEEL' M 8.010204E-06 W 0.00785 TYPE 'ISOTROPIC' E 204000 U 0.3 A 1.16999999590917E-05
MATERIAL 'STEEL' DESKINTYPE 'STEEL' FY 2500 FU 4000 PRICE 45
MATERIAL 'CONC' M 2.448012E-06 W 0.0024 TYPE 'ISOTROPIC' E 250000 U 0.2 A 9.8999998542412E-06
MATERIAL 'CONC' DESKINTYPE 'CONCRETE' FY 4200 FC 280 FYS 2800
MATERIAL 'OTHER' M 7.324016E-12 W 2.83E-07 TYPE 'ISOTROPIC' E 2900 U 0.3 A 6.4999999267456E-06
MATERIAL 'OTHER' DESKINTYPE 'OTHER'
MATERIAL 'SGC40' M 8.01E-06 W 0.00785 TYPE 'ISOTROPIC' E 210000 U 0.3 A 1.16999999590917E-05
MATERIAL 'SGC40' DESKINTYPE 'STEEL' FY 3400 FU 4000 PRICE 45
MATERIAL 'GR50' M 8.01E-06 W 0.00785 TYPE 'ISOTROPIC' E 210000 U 0.3 A 1.16999999590917E-05
MATERIAL 'GR50' DESKINTYPE 'STEEL' FY 3500 FU 4000 PRICE 45
MATERIAL '6063T5' M 2.755E-06 W 0.0027 TYPE 'ISOTROPIC' E 73000 U 0.3 A 1.16999999590917E-05
MATERIAL '6063T5' DESKINTYPE 'STEEL' FY 1120 FU 4000 PRICE 45
MATERIAL 'C280' M 8.01E-06 W 0.0024 TYPE 'ISOTROPIC' E 250000 U 0.2 A 9.999997473787E-06
MATERIAL 'C280' DESKINTYPE 'CONCRETE' FY 4200 FC 280 FYS 4200
MATERIAL 'MAT1' M 8.01E-06 W 0.00785 TYPE 'ISOTROPIC' E 210000 U 0.3 A 1.16999999590917E-05
MATERIAL 'MAT1' DESKINTYPE 'STEEL' FY 2400 FU 4000 PRICE 45
MATERIAL 'S45C' M 8.01E-06 W 0.00785 TYPE 'ISOTROPIC' E 210000 U 0.3 A 1.16999999590917E-05
MATERIAL 'S45C' DESKINTYPE 'STEEL' FY 2500 FU 4000 PRICE 45

FRAME SECTIONS

FRAMESSECTION '2SC125X50X20X2' MATERIAL 'SGC40' SHAPE 'General' D 12.5 B 20 AREA 10.28 TORSON 38.0499 E23 148.9366 I22 38.0499 AS2 2.5
FRAMESSECTION '110X10X2' MATERIAL 'SGC40' SHAPE 'General' D 10 B 10 AREA 15.2 TORSON 955.7422 I33 955.7422 I22 1038.673 AS2 4 AS3 4
FRAMESSECTION 'C125X50X20X2' MATERIAL 'SGC40' SHAPE 'General' D 12.5 B 5 AREA 5.14 TORSON 19.0249 I33 124.4683 I22 19.0249 AS2 2.5
FRAMESSECTION 'L100X50X15X2' MATERIAL 'SGC40' SHAPE 'General' D 5 B 10 AREA 4.44 TORSON 15.6865 I33 15.6865 I22 71.8012 AS2 2 AS3 2
FRAMESSECTION 'R0D25' MATERIAL 'SGC40' SHAPE 'Circle' D 2.5
FRAMESSECTION 'R150X30' MATERIAL 'SGC40' SHAPE 'Rectangular' D 2 B 5
FRAMESSECTION 'Z125X50X20X2' MATERIAL 'SGC40' SHAPE 'General' D 12.5 B 5 AREA 4.999999 TORSON 33.27907 I33 117.7726 I22 33.27907 AS2
FRAMESSECTION 'R60X40C' MATERIAL 'C280' SHAPE 'Rectangular' D 40 B 60

REBAR DEFINITIONS

REBARDEFINITION '43' AREA 0.7133 DIA 0.953
REBARDEFINITION '44' AREA 1.267 DIA 1.29
REBARDEFINITION '45' AREA 1.986 DIA 1.57
REBARDEFINITION '46' AREA 2.865 DIA 1.91
REBARDEFINITION '47' AREA 3.871 DIA 2.22
REBARDEFINITION '48' AREA 5.067 DIA 2.54
REBARDEFINITION '410' AREA 8.143 DIA 3.22

CONCRETE SECTIONS

CONCRETESECTION 'RB60X40C' TYPE 'BEAM' COVERTOP 8 COVERBOTTOM 8 AIT0 AB10 ATJ0 AB10

WALL/SLAB/DECK PROPERTIES

SHELLPROP 'S15' MATERIAL 'C280' PROPTYPE 'SLAB' TYPE 'MEMBRANE' TM 15 TB 15
SHELLPROP 'S40' MATERIAL 'C280' PROPTYPE 'SLAB' TYPE 'MEMBRANE' TM 40 TB 40

PIER/SPANDREL NAMES

PIERNAME 'P1'
SPANDRELNAME 'S1'

POINT COORDINATES

POINT '1' 310 0
POINT '1-1' 310 0 82.2
POINT '2' 510 0
POINT '2-1' 510 0 82.2
POINT '3' 850 0
POINT '3-1' 850 0 82.2
POINT '4' 1055 0
POINT '4-1' 1055 0 82.2
POINT '5' 310 33.7500005960464
POINT '5-1' 310 33.7500005960464 68.5
POINT '6' 510 33.7500005960464
POINT '6-1' 510 33.7500005960464 68.5
POINT '7' 850 33.7500005960464
POINT '7-1' 850 33.7500005960464 68.5
POINT '8' 1055 33.7500005960464
POINT '8-1' 1055 33.7500005960464 68.5
POINT '9' 310 62.000004768372
POINT '10' 510 62.000004768372
POINT '11' 310 67.500001192029
POINT '11-1' 310 67.500001192029 54.8
POINT '12' 510 67.500001192029
POINT '12-1' 510 67.500001192029 54.8
POINT '13' 850 67.500001192029
POINT '13-1' 850 67.500001192029 54.8
POINT '14' 1055 67.500001192029
POINT '14-1' 1055 67.500001192029 54.8
POINT '15' 310 101.250004768372
POINT '15-1' 310 101.250004768372 41.1
POINT '16' 510 101.250004768372
POINT '16-1' 510 101.250004768372 41.1
POINT '17' 850 101.250004768372
POINT '17-1' 850 101.250004768372 41.1
POINT '18' 1055 101.250004768372
POINT '18-1' 1055 101.250004768372 41.1
POINT '19' 310 132.499990463257
POINT '20' 510 132.499990463257
POINT '21' 310 135.000002384186
POINT '21-1' 310 135.000002384186 27.4
POINT '22' 510 135.000002384186
POINT '22-1' 510 135.000002384186 27.4
POINT '23' 850 135.000002384186
POINT '23-1' 850 135.000002384186 27.4
POINT '24' 1055 135.000002384186
POINT '24-1' 1055 135.000002384186 27.4
POINT '25' 310 168.75
POINT '25-1' 310 168.75 13.7
POINT '26' 510 168.75
POINT '26-1' 510 168.75 13.7
POINT '27' 850 168.75
POINT '27-1' 850 168.75 13.7
POINT '28' 1055 168.75
POINT '28-1' 1055 168.75 13.7
POINT '29' 310 202.500009536743
POINT '29-1' 310 202.500009536743 13.7
POINT '30' 510 202.500009536743
POINT '30-1' 510 202.500009536743 13.7
POINT '31' 850 202.500009536743
POINT '31-1' 850 202.500009536743 13.7
POINT '32' 1055 202.500009536743
POINT '32-1' 1055 202.500009536743 13.7
POINT '33' 310 202.500009536743
POINT '33-1' 310 202.500009536743 13.7
POINT '34' 510 202.500009536743
POINT '34-1' 510 202.500009536743 13.7
POINT '35' 850 202.500009536743
POINT '35-1' 850 202.500009536743 13.7
POINT '36' 1055 202.500009536743
POINT '36-1' 1055 202.500009536743 13.7
POINT '37' 310 255.833339691162
POINT '37-1' 310 255.833339691162 114.75
POINT '38' 510 255.833339691162
POINT '38-1' 510 255.833339691162 114.75
POINT '39' 850 255.833339691162
POINT '39-1' 850 255.833339691162 114.75
POINT '40' 1055 255.833339691162
POINT '40-1' 1055 255.833339691162 114.75
POINT '50' 310 309.16662161865
POINT '50-1' 310 309.16662161865 91.80001
POINT '51' 510 309.16662161865
POINT '51-1' 510 309.16662161865 91.80001
POINT '52' 850 309.16662161865
POINT '52-1' 850 309.16662161865 91.80001
POINT '53' 1055 309.16662161865
POINT '53-1' 1055 309.16662161865 91.80001
POINT '54' 310 322.499990463257
POINT '54-1' 310 322.499990463257 86.0625
POINT '55' 510 322.499990463257
POINT '55-1' 510 322.499990463257 86.0625
POINT '56' 850 322.499990463257
POINT '56-1' 850 322.499990463257 86.0625
POINT '57' 1055 322.499990463257
POINT '57-1' 1055 322.499990463257 86.0625
POINT '58' 310 322.499990463257
POINT '58-1' 310 322.499990463257 86.0625
POINT '59' 510 322.499990463257
POINT '59-1' 510 322.499990463257 86.0625
POINT '60' 850 322.499990463257
POINT '60-1' 850 322.499990463257 86.0625
POINT '61' 1055 322.499990463257
POINT '61-1' 1055 322.499990463257 86.0625
POINT '62' 310 362.49992847426
POINT '62-1' 310 362.49992847426 68.85003
POINT '63' 510 362.49992847426
POINT '63-1' 510 362.49992847426 68.85003
POINT '64' 850 362.49992847426
POINT '64-1' 850 362.49992847426 68.85003
POINT '65' 1055 362.49992847426
POINT '65-1' 1055 362.49992847426 68.85003
POINT '66' 310 415.83324786987
POINT '66-1' 310 415.83324786987 45.90004
POINT '67' 510 415.83324786987
POINT '67-1' 510 415.83324786987 45.90004
POINT '68' 850 415.83324786987
POINT '68-1' 850 415.83324786987 45.90004
POINT '69' 1055 415.83324786987
POINT '69-1' 1055 415.83324786987 45.90004
POINT '70' 310 469.16651275769
POINT '70-1' 310 469.16651275769 22.95006
POINT '71' 510 469.16651275769
POINT '71-1' 510 469.16651275769 22.95006
POINT '72' 850 469.16651275769
POINT '72-1' 850 469.16651275769 22.95006
POINT '73' 1055 469.16651275769
POINT '73-1' 1055 469.16651275769 22.95006
POINT '74' 310 522.499990463257
POINT '74-1' 310 522.499990463257 22.95006
POINT '75' 510 522.499990463257
POINT '75-1' 510 522.499990463257 22.95006
POINT '76' 850 522.499990463257
POINT '76-1' 850 522.499990463257 22.95006
POINT '77' 1055 522.499990463257
POINT '77-1' 1055 522.499990463257 22.95006
POINT '78' 310 562.5
POINT '78-1' 310 562.5 17.2125
POINT '79' 510 562.5
POINT '79-1' 510 562.5 17.2125
POINT '80' 850 562.5
POINT '80-1' 850 562.5 17.2125
POINT '81' 1055 562.5
POINT '81-1' 1055 562.5 17.2125
POINT '82' 310 562.5
POINT '82-1' 310 562.5 17.2125
POINT '83' 510 562.5
POINT '83-1' 510 562.5 17.2125
POINT '84' 850 562.5
POINT '84-1' 850 562.5 17.2125
POINT '85' 1055 562.5
POINT '85-1' 1055 562.5 17.2125
POINT '86' 310 629.166412353516
POINT '86-1' 310 629.166412353516 45.8999
POINT '87' 510 629.166412353516
POINT '87-1' 510 629.166412353516 45.8999
POINT '88' 850 629.166412353516
POINT '88-1' 850 629.166412353516 45.8999
POINT '89' 1055 629.166412353516
POINT '89-1' 1055 629.166412353516 45.8999
POINT '90' 310 682.499742507935
POINT '90-1' 310 682.499742507935 68.84988
POINT '91' 510 682.499742507935
POINT '91-1' 510 682.499742507935 68.84988
POINT '92' 850 682.499742507935
POINT '92-1' 850 682.499742507935 68.84988
POINT '93' 1055 682.499742507935
POINT '93-1' 1055 682.499742507935 68.84988
POINT '94' 310 735.833024978638
POINT '94-1' 310 735.833024978638 91.79987
POINT '95' 510 735.833024978638
POINT '95-1' 510 735.833024978638 91.79987
POINT '96' 850 735.833024978638
POINT '96-1' 850 735.833024978638 91.79987
POINT '97' 1055 735.833024978638
POINT '97-1' 1055 735.833024978638 91.79987
POINT '98' 310 789.16635133057
POINT '98-1' 310 789.16635133057 114.7499
POINT '99' 510 789.16635133057
POINT '99-1' 510 789.16635133057 114.7499
POINT '100' 850 789.16635133057
POINT '100-1' 850 789.16635133057 114.7499
POINT '101' 1055 789.16635133057
POINT '101-1' 1055 789.16635133057 114.7499
POINT '102' 310 842.500019073486
POINT '102-1' 310 842.500019073486 13.7
POINT '103' 510 842.500019073486
POINT '103-1' 510 842.500019073486 13.7
POINT '104' 850 842.500019073486
POINT '104-1' 850 842.500019073486 13.7
POINT '105' 1055 842.500019073486
POINT '105-1' 1055 842.500019073486 13.7
POINT '106' 310 884.500019073486
POINT '106-1' 310 884.500019073486 13.7
POINT '107' 510 884.500019073486
POINT '107-1' 510 884.500019073486 13.7
POINT '108' 850 884.500019073486
POINT '108-1' 850 884.500019073486 13.7
POINT '109' 1055 884.500019073486
POINT '109-1' 1055 884.500019073486 13.7
POINT '110' 310 884.500019073486
POINT '110-1' 310 884.500019073486 13.7
POINT '111' 510 884.500019073486
POINT '111-1' 510 884.500019073486 13.7
POINT '112' 850 884.500019073486
POINT '112-1' 850 884.500019073486 13.7
POINT '113' 1055 884.500019073486
POINT '113-1' 1055 884.500019073486 13.7
POINT '114' 310 924.500019073486
POINT '114-1' 310 924.500019073486 13.7
POINT '115' 510 924.500019073486
POINT '115-1' 510 924.500019073486 13.7
POINT '116' 850 924.500019073486
POINT '116-1' 850 924.500019073486 13.7
POINT '117' 1055 924.500019073486
POINT '117-1' 1055 924.500019073486 13.7
POINT '118' 310 964.500019073486
POINT '118-1' 310 964.500019073486 13.7
POINT '119' 510 964.500019073486
POINT '119-1' 510 964.500019073486 13.7
POINT '120' 850 964.500019073486
POINT '120-1' 850 964.500019073486 13.7
POINT '121' 1055 964.500019073486
POINT '121-1' 1055 964.500019073486 13.7

POINT "120-1" 510 842.500019073486 137.7
POINT "121" 850 842.500019073486
POINT "121-1" 850 842.500019073486 137.7
POINT "122" 935 842.500019073486
POINT "122-1" 935 842.500019073486 137.7
POINT "123" 1055 842.500019073486
POINT "123-1" 1055 842.500019073486 137.7

5 LINE CONNECTIVITIES

LINE 'C1' COLUMN '1' '1' 1
LINE 'C1-1' COLUMN '1' '1-1' 1
LINE 'C2' COLUMN '2' '2' 1
LINE 'C2-1' COLUMN '2' '2-1' 1
LINE 'C3' COLUMN '3' '3' 1
LINE 'C3-1' COLUMN '3' '3-1' 1
LINE 'C4' COLUMN '4' '4' 1
LINE 'C4-1' COLUMN '4' '4-1' 1
LINE 'C5' COLUMN '5' '5' 1
LINE 'C5-1' COLUMN '5' '5-1' 1
LINE 'C6' COLUMN '6' '6' 1
LINE 'C6-1' COLUMN '6' '6-1' 1
LINE 'C7' COLUMN '7' '7' 1
LINE 'C7-1' COLUMN '7' '7-1' 1
LINE 'C8' COLUMN '8' '8' 1
LINE 'C8-1' COLUMN '8' '8-1' 1
LINE 'C9' COLUMN '9' '9' 1
LINE 'C9-1' COLUMN '9' '9-1' 1
LINE 'C10' COLUMN '10' '10' 1
LINE 'C10-1' COLUMN '10' '10-1' 1
LINE 'C11' COLUMN '11' '11' 1
LINE 'C11-1' COLUMN '11' '11-1' 1
LINE 'C12' COLUMN '12' '12' 1
LINE 'C12-1' COLUMN '12' '12-1' 1
LINE 'C13' COLUMN '13' '13' 1
LINE 'C13-1' COLUMN '13' '13-1' 1
LINE 'C14' COLUMN '14' '14' 1
LINE 'C14-1' COLUMN '14' '14-1' 1
LINE 'C15' COLUMN '15' '15' 1
LINE 'C15-1' COLUMN '15' '15-1' 1
LINE 'C16' COLUMN '16' '16' 1
LINE 'C16-1' COLUMN '16' '16-1' 1
LINE 'C17' COLUMN '17' '17' 1
LINE 'C17-1' COLUMN '17' '17-1' 1
LINE 'C18' COLUMN '18' '18' 1
LINE 'C18-1' COLUMN '18' '18-1' 1
LINE 'C19' COLUMN '19' '19' 1
LINE 'C19-1' COLUMN '19' '19-1' 1
LINE 'C20' COLUMN '20' '20' 1
LINE 'C20-1' COLUMN '20' '20-1' 1
LINE 'C21' COLUMN '21' '21' 1
LINE 'C21-1' COLUMN '21' '21-1' 1
LINE 'C22' COLUMN '22' '22' 1
LINE 'C22-1' COLUMN '22' '22-1' 1
LINE 'C23' COLUMN '23' '23' 1
LINE 'C23-1' COLUMN '23' '23-1' 1
LINE 'C24' COLUMN '24' '24' 1
LINE 'C24-1' COLUMN '24' '24-1' 1
LINE 'C25' COLUMN '25' '25' 1
LINE 'C25-1' COLUMN '25' '25-1' 1
LINE 'C26' COLUMN '26' '26' 1
LINE 'C26-1' COLUMN '26' '26-1' 1
LINE 'C27' COLUMN '27' '27' 1
LINE 'C27-1' COLUMN '27' '27-1' 1
LINE 'C28' COLUMN '28' '28' 1
LINE 'C28-1' COLUMN '28' '28-1' 1
LINE 'C29' COLUMN '29' '29' 1
LINE 'C29-1' COLUMN '29' '29-1' 1
LINE 'C30' COLUMN '30' '30' 1
LINE 'C30-1' COLUMN '30' '30-1' 1
LINE 'C31' COLUMN '31' '31' 1
LINE 'C31-1' COLUMN '31' '31-1' 1
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LINE 'C32-1' COLUMN '32' '32-1' 1
LINE 'C33' COLUMN '33' '33' 1
LINE 'C33-1' COLUMN '33' '33-1' 1
LINE 'C34' COLUMN '34' '34' 1
LINE 'C34-1' COLUMN '34' '34-1' 1
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LINE 'B2' BEAM '2-1' '3-1' 0
LINE 'B3' BEAM '3-1' '4-1' 0
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LINE 'B7' BEAM '7-1' '8-1' 0
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LINE 'B12' BEAM '12-1' '13-1' 0
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LINE 'B87' BEAM '87-1' '88-1' 0
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LINE 'B89' BEAM '89-1' '90-1' 0
LINE 'B90' BEAM '90-1' '91-1' 0
LINE 'B91' BEAM '91-1' '92-1' 0
LINE 'B92' BEAM '92-1' '93-1' 0
LINE 'B93' BEAM '93-1' '94-1' 0
LINE 'B94' BEAM '94-1' '95-1' 0
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LINE 'B100' BEAM '100-1' '101-1' 0
LINE 'B101' BEAM '101-1' '102-1' 0
LINE 'B102' BEAM '102-1' '103-1' 0
LINE 'B103' BEAM '103-1' '104-1' 0
LINE 'B104' BEAM '104-1' '105-1' 0
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LINE 'B117' BEAM '117-1' '118-1' 0
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LINE 'B119' BEAM '119-1' '120-1' 0
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LINE 'B122' BEAM '122-1' '123-1' 0
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LINE 'B127' BEAM '127-1' '128-1' 0
LINE 'B128' BEAM '128-1' '129-1' 0
LINE 'B129' BEAM '129-1' '130-1' 0
LINE 'B130' BEAM '130-1' '131-1' 0
LINE 'B131' BEAM '131-1' '132-1' 0
LINE 'B132' BEAM '132-1' '133-1' 0
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LINE 'B143' BEAM '143-1' '144-1' 0
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LINE 'D2' BRACE '2-1' '3-1' 0
LINE 'D3' BRACE '3-1' '4-1' 0
LINE 'D4' BRACE '4-1' '5-1' 0
LINE 'D5' BRACE '5-1' '6-1' 0
LINE 'D6' BRACE '6-1' '7-1' 0
LINE 'D7' BRACE '7-1' '8-1' 0
LINE 'D8' BRACE '8-1' '9-1' 0
LINE 'D9' BRACE '9-1' '10-1' 0
LINE 'D10' BRACE '10-1' '11-1' 0
LINE 'D11' BRACE '11-1' '12-1' 0
LINE 'D12' BRACE '12-1' '13-1' 0
LINE 'D13' BRACE '13-1' '14-1' 0
LINE 'D14' BRACE '14-1' '15-1' 0
LINE 'D15' BRACE '15-1' '16-1' 0
LINE 'D16' BRACE '16-1' '17-1' 0
LINE 'D17' BRACE '17-1' '18-1' 0
LINE 'D18' BRACE '18-1' '19-1' 0
LINE 'D19' BRACE '19-1' '20-1' 0
LINE 'D20' BRACE '20-1' '21-1' 0
LINE 'D21' BRACE '21-1' '22-1' 0
LINE 'D22' BRACE '22-1' '23-1' 0
LINE 'D23' BRACE '23-1' '24-1' 0
LINE 'D24' BRACE '24-1' '25-1' 0
LINE 'D25' BRACE '25-1' '26-1' 0
LINE 'D26' BRACE '26-1' '27-1' 0
LINE 'D27' BRACE '27-1' '28-1' 0
LINE 'D28' BRACE '28-1' '29-1' 0
LINE 'D29' BRACE '29-1' '30-1' 0
LINE 'D30' BRACE '30-1' '31-1' 0
LINE 'D31' BRACE '31-1' '32-1' 0
LINE 'D32' BRACE '32-1' '33-1' 0
LINE 'D33' BRACE '33-1' '34-1' 0
LINE 'D34' BRACE '34-1' '35-1' 0
LINE 'D35' BRACE '35-1' '36-1' 0
LINE 'D36' BRACE '36-1' '37-1' 0
LINE 'D37' BRACE '37-1' '38-1' 0
LINE 'D38' BRACE '38-1' '39-1' 0
LINE 'D39' BRACE '39-1' '40-1' 0
LINE 'D40' BRACE '40-1' '41-1' 0
LINE 'D41' BRACE '41-1' '42-1' 0
LINE 'D42' BRACE '42-1' '43-1' 0
LINE 'D43' BRACE '43-1' '44-1' 0
LINE 'D44' BRACE '44-1' '45-1' 0
LINE 'D45' BRACE '45-1' '46-1' 0
LINE 'D46' BRACE '46-1' '47-1' 0
LINE 'D47' BRACE '47-1' '48-1' 0
LINE 'D48' BRACE '48-1' '49-1' 0
LINE 'D49' BRACE '49-1' '50-1' 0
LINE 'D50' BRACE '50-1' '51-1' 0
LINE 'D51' BRACE '51-1' '52-1' 0
LINE 'D52' BRACE '52-1' '53-1' 0
LINE 'D53' BRACE '53-1' '54-1' 0
LINE 'D54' BRACE '54-1' '55-1' 0

5 AREA CONNECTIVITIES

AREA 'T1' FLOOR 4 '31' '1' '4' '35' 0 0 0 0
AREA 'T2' FLOOR 4 '82' '80' '29' '31' 0 0 0 0
AREA 'T3' FLOOR 4 '83' '82' '31' '32' 0 0 0 0
AREA 'T4' FLOOR 4 '84' '83' '32' '33' 0 0 0 0
AREA 'T5' FLOOR 4 '86' '84' '33' '35' 0 0 0 0
AREA 'T6' FLOOR 4 '117' '80' '82' '119' 0 0 0 0
AREA 'T7' FLOOR 4 '119' '82' '83' '120' 0 0 0 0
AREA 'T8' FLOOR 4 '121' '120' '83' '84' 0 0 0 0
AREA 'T9' FLOOR 4 '121' '84' '86' '123' 0 0 0 0

5 POINT ASSIGNS

POINTASSIGN '29' '2F' 'DIAPH'D1'
POINTASSIGN '29' '3F' 'DIAPH'D1'
POINTASSIGN '29-1' '2F' 'PRE' 'DIAPH'D1'
POINTASSIGN '30' '2F' 'DIAPH'D1'
POINTASSIGN '30' '3F' 'DIAPH'D1'
POINTASSIGN '117' '2F' 'DIAPH'D1'
POINTASSIGN '117' '3F' 'DIAPH'D1'
POINTASSIGN '117-1' 'PRE' 'DIAPH'D1'
POINTASSIGN '75' '2F' 'DIAPH'D1'
POINTASSIGN '30-1' 'PRE' 'DIAPH'D1'
POINTASSIGN '55' '2F' 'DIAPH'D1'
POINTASSIGN '55' '3F' 'DIAPH'D1'
POINTASSIGN '55-2' 'PRE' 'DIAPH'D1'
POINTASSIGN '102' '2F' 'DIAPH'D1'
POINTASSIGN '102' '3F' 'DIAPH'D1'
POINTASSIGN '102-2' 'PRE' 'DIAPH'D1'
POINTASSIGN '55-1' 'PRE' 'DIAPH'D1'
POINTASSIGN '102-1' 'PRE' 'DIAPH'D1'
POINTASSIGN '31' '2F' 'DIAPH'D1'
POINTASSIGN '31' '3F' 'DIAPH'D1'
POINTASSIGN '31-1' 'PRE' 'DIAPH'D1'
POINTASSIGN '82' '2F' 'DIAPH'D1'

COMBO 'DCON18' LOAD 'EYP' SF -1.5
COMBO 'DCON19' TYPE 'ADD'
COMBO 'DCON19' LOAD 'DL' SF 1.4
COMBO 'DCON19' LOAD 'SDL' SF 1.4
COMBO 'DCON19' LOAD 'TL' SF 1
COMBO 'DCON19' LOAD 'TXN' SF 1.5
COMBO 'DCON20' TYPE 'ADD'
COMBO 'DCON20' LOAD 'DL' SF 1.4
COMBO 'DCON20' LOAD 'SDL' SF 1.4
COMBO 'DCON20' LOAD 'TL' SF 1
COMBO 'DCON20' LOAD 'TXN' SF -1.5
COMBO 'DCON21' TYPE 'ADD'
COMBO 'DCON21' LOAD 'DL' SF 1.4
COMBO 'DCON21' LOAD 'TL' SF 1
COMBO 'DCON21' LOAD 'TXN' SF 1.5
COMBO 'DCON22' TYPE 'ADD'
COMBO 'DCON22' LOAD 'DL' SF 1.4
COMBO 'DCON22' LOAD 'SDL' SF 1.4
COMBO 'DCON22' LOAD 'TL' SF 1
COMBO 'DCON22' LOAD 'TXN' SF -1.5
COMBO 'DCON23' TYPE 'ADD'
COMBO 'DCON23' LOAD 'DL' SF 1.4
COMBO 'DCON23' LOAD 'SDL' SF 1.4
COMBO 'DCON23' LOAD 'TXP' SF 1.5
COMBO 'DCON24' TYPE 'ADD'
COMBO 'DCON24' LOAD 'DL' SF 1.4
COMBO 'DCON24' LOAD 'SDL' SF 1.4
COMBO 'DCON24' LOAD 'TXP' SF -1.5
COMBO 'DCON25' TYPE 'ADD'
COMBO 'DCON25' LOAD 'DL' SF 1.4
COMBO 'DCON25' LOAD 'SDL' SF 1.4
COMBO 'DCON25' LOAD 'TXP' SF 1.5
COMBO 'DCON26' TYPE 'ADD'
COMBO 'DCON26' LOAD 'DL' SF 1.4
COMBO 'DCON26' LOAD 'SDL' SF 1.4
COMBO 'DCON26' LOAD 'TXP' SF -1.5
COMBO 'DCON27' TYPE 'ADD'
COMBO 'DCON27' LOAD 'DL' SF 1.4
COMBO 'DCON27' LOAD 'SDL' SF 1.4
COMBO 'DCON27' LOAD 'TXN' SF 1.5
COMBO 'DCON28' TYPE 'ADD'
COMBO 'DCON28' LOAD 'DL' SF 1.4
COMBO 'DCON28' LOAD 'SDL' SF 1.4
COMBO 'DCON28' LOAD 'TXN' SF -1.5
COMBO 'DCON29' TYPE 'ADD'
COMBO 'DCON29' LOAD 'DL' SF 1.4
COMBO 'DCON29' LOAD 'SDL' SF 1.4
COMBO 'DCON29' LOAD 'TXN' SF 1.5
COMBO 'DCON30' TYPE 'ADD'
COMBO 'DCON30' LOAD 'DL' SF 1.4
COMBO 'DCON30' LOAD 'SDL' SF 1.4
COMBO 'DCON30' LOAD 'TXN' SF -1.5
COMBO 'DCON31' TYPE 'ADD'
COMBO 'DCON31' LOAD 'DL' SF 0.7
COMBO 'DCON31' LOAD 'SDL' SF 0.7
COMBO 'DCON31' LOAD 'TXP' SF 1.5
COMBO 'DCON32' TYPE 'ADD'
COMBO 'DCON32' LOAD 'DL' SF 0.7
COMBO 'DCON32' LOAD 'SDL' SF 0.7
COMBO 'DCON32' LOAD 'TXP' SF -1.5
COMBO 'DCON33' TYPE 'ADD'
COMBO 'DCON33' LOAD 'DL' SF 0.7
COMBO 'DCON33' LOAD 'SDL' SF 0.7
COMBO 'DCON33' LOAD 'TXP' SF 1.5
COMBO 'DCON34' TYPE 'ADD'
COMBO 'DCON34' LOAD 'DL' SF 0.7
COMBO 'DCON34' LOAD 'SDL' SF 0.7
COMBO 'DCON34' LOAD 'TXP' SF -1.5
COMBO 'DCON35' TYPE 'ADD'
COMBO 'DCON35' LOAD 'DL' SF 0.7
COMBO 'DCON35' LOAD 'SDL' SF 0.7
COMBO 'DCON35' LOAD 'TXN' SF 1.5
COMBO 'DCON36' TYPE 'ADD'
COMBO 'DCON36' LOAD 'DL' SF 0.7
COMBO 'DCON36' LOAD 'SDL' SF 0.7
COMBO 'DCON36' LOAD 'TXN' SF -1.5
COMBO 'DCON37' TYPE 'ADD'
COMBO 'DCON37' LOAD 'DL' SF 0.7
COMBO 'DCON37' LOAD 'SDL' SF 0.7
COMBO 'DCON37' LOAD 'TXN' SF 1.5
COMBO 'DCON38' TYPE 'ADD'
COMBO 'DCON38' LOAD 'DL' SF 0.7
COMBO 'DCON38' LOAD 'SDL' SF 0.7
COMBO 'DCON38' LOAD 'TXN' SF -1.5

S STEEL DESIGN PREFERENCES
STEELREFERENCE CODE 'ASC-LRF93' THIDESGN 'EVERYSTP' FRAMETYPE 'MOMENT FRAME'
STEELREFERENCE PIBBLF0.9 PHICLRFD 0.85 PHITLRFD 0.9 PHIVLRFD 0.9 PHICANGLELRFD 0.9
STEELREFERENCE PIBBLRFD 0.9 PHICLRFD 0.85 PHITLRFD 0.9 PHIVLRFD 0.9 PHICANGLELRFD 0.9
STEELREFERENCE CONSIDERDEFLECTION 'NO' RELATIVEDEFLECTION 'RATIO'
STEELREFERENCE DLDEFLECTIONLIMIT 120 SLDEFLECTIONLIMIT 120 LLDEFLECTIONLIMIT 360 TLDEFLECTIONLIMIT 240 TLMCDEFLECTIONLIMIT
STEELREFERENCE DLDEFLECTIONLIMITABS 2.54 SLDEFLECTIONLIMITABS 2.54 LLDEFLECTIONLIMITABS 2.54 TLDEFLECTIONLIMITABS 2.54
STEELREFERENCE CALCULATEDCAMBER 'NO' PERCENTCAMBERWDL1 CAMBERRELEMAXLIMIT 180 CAMBERKNORELIMIT 1.905
STEELREFERENCE CAMBERABSXLIMIT 10.16 CAMBERINTERVAL 0.635 CAMBERROUNDOWN 'YES'
STEELREFERENCE PATTERNLFL 0.75 MAXITERATION 1 SBLIMIT 1.05

S CONCRETE DESIGN PREFERENCES
CONCRETEREFERENCE CODE 'ACI318-02' THIDESGN 'EVERYSTP' CONSIDERMINORCENTRICITY 'YES'
CONCRETEREFERENCE NUMINTERCURVES 24 NUMINTERPOINTS 11 PATTERNLFL 0.75 UFLIMIT 1
CONCRETEREFERENCE SD 'D' PHITENSIONCTRL 0.9 PHICOMPRESSIONCTRL 0.65 PHICOMPRESSIONCTRLSPRAL 0.7 PHISHORTKORSTION

S COMPOSITE DESIGN PREFERENCES
COMPOSITEREFERENCE CODE 'ASC-LRF93'
COMPOSITEREFERENCE PIBB 0.9 PIBBCNE 0.9 PIBBCNP 0.85 PIBBCPE 0.9 PIBBCPP 0.85 PIBBV 0.9
COMPOSITEREFERENCE SHORED 'NO' %MIDDLELARGE 70 PATTERNLFL 0.75 SBLIMIT 1 SINGLESEGMENT 'NO' STUDINCREASEFACTOR 1
COMPOSITEREFERENCE UFLIMIT 0.9 SBLIMIT 240 LLLIMIT 360 TLLIMIT 240 CREEPFACTOR 1
COMPOSITEREFERENCE %DLCAMBER 100 CAMBERKNORE 1.905 CAMBERABSXMAX 10.16 CAMBERRELEMAX 180 CAMBERINTERVAL 0.635
COMPOSITEREFERENCE %VIBLL 25 CONSIDERREQ 'NO' MINFREQ 8 CONSIDERDAMP 'NO' %INHERENTDAMP 4
COMPOSITEREFERENCE OPTIMIZEPRICE 'NO' CONNECTORPRICE 0 CAMBERPRICE 0

S WALL DESIGN PREFERENCES
WALLREFERENCE CODE 'IBC97' THIDESGN 'EVERYSTP'
WALLREFERENCE REBARUNITS 'u#2' REBARLENGTHINITS 'u#2R'
WALLREFERENCE PIBB 0.9 PIBC 0.7 PIBVNS 0.85 PIBVNS 0.6 PMAFACTOR 0.8
WALLREFERENCE NUMLIVES 24 NUMPOINTS 11
WALLREFERENCE PTMAX 0.06 PCMAX 0.04 IPMAX 0.02 IPMIN 0.0025
WALLREFERENCE UFLIMIT 0.95

S DIMENSION LINES
S LOG
START COMMENTS

ETABS Display 9.5.0 File imported from E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.SET at 2022/8/4 上午 11:12:42
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 上午 11:22:48
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:39:27
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:40:26
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:41:18
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:42:28
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:44:15
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:47:36
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:49:25
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:50:36
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:51:35
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:51:47
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:56:02
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:25:15
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 05:25:38
ETABS Display 9.5.0 File imported from E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.SET at 2022/8/4 下午 09:25:46
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:25:53
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:28:29
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:28:41
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:29:08
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:31:27
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:31:36
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:32:31
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 06:29:31
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:05:27
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:09:11
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:22:00
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:25:18
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:26:44
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:27:24
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 10:06:51
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 10:25:48
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 10:27:53
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC1-1\220804\2208A-SC1-1-220804-001.EDB at 2022/8/4 下午 09:33:43

ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/13 下午 09:37:13
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/13 下午 09:39:16
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/15 下午 12:06:21
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/15 下午 12:06:37
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/15 下午 12:08:06
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/15 下午 04:31:34
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/16 上午 10:16:30
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/16 上午 10:17:22
ETABS Nonlinear 9.5.0 File saved as E:\WORK\2022\2208A\MODEL\ETABSS\SC3-2\220810\2208A-SC3-2-220810-001.EDB at 2022/8/16 上午 11:15:58
END COMMENTS

END
\$ END OF MODEL FILE

STEEL CODE PREFERENCES

Steel Design Code : AISC-LRFDP3
Time History Type : Step-by-Step
Frame Type : Moment Frame
Phi(Bending) : 0.9
Phi(Compression) : 0.85
Phi(Tension) : 0.9
Phi(Shear) : 0.9
Phi(Compression, Angle) : 0.9
Consider Deflection? : No
Deflection Check Type : Ratio
DL Limit, L/ : 240
Super DL+LL Limit, L/ : 120
Live Load Limit, L/ : 360
Total Load Limit, L/ : 240
Total-Camber Limit, L/ : 240
DL Limit, abs : 2.54
Super DL+LL Limit, abs : 2.54
Live Load Limit, abs : 2.54
Total Load Limit, abs : 2.54
Total-Camber Limit, abs : 2.54
Pattern Live Load Factor : 0.75
Stress Ratio Limit : 1.05
Maximum Auto Iteration : 1

COLUMN STEEL STRESS CHECK ELEMENT INFORMATION (AISC-LRFDP3)

STORY COLUMN SECTION FRAMING RLFL,RATIO,L,RATIO K K
LEVEL LINE ID TYPE FACTOR MAJOR MINOR MAJOR MINOR

Table with 10 columns: LEVEL, LINE ID, TYPE, FACTOR, MAJOR, MINOR, MAJOR, MINOR. Contains data for levels C1 through C34 and F1 through F111.

BEAM STEEL STRESS CHECK ELEMENT INFORMATION (AISC-LRFDP3)

STORY BEAM SECTION FRAMING RLFL,RATIO,L,RATIO K K
LEVEL BAY ID TYPE FACTOR MAJOR MINOR MAJOR MINOR

Table with 10 columns: LEVEL, BAY ID, TYPE, FACTOR, MAJOR, MINOR, MAJOR, MINOR. Contains data for levels B1 through B14 and F1 through F131.

Table with 10 columns: LEVEL, LINE ID, TYPE, FACTOR, MAJOR, MINOR, MAJOR, MINOR. Contains data for levels B20 through B34 and F1 through F131.

PRF B132 C125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000		0.26 = 0.231 + 0.039 + 0.156				
3F B133 Z125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000		0.330 = 0.026 + 0.194 + 0.110				
2F B133 Z125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000						
PRF B134 C125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000		0.214 = 0.070 + 0.020 + 0.125	0.267	0.043	0.2RC72	0.031
3F B135 Z125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000						
2F B135 Z125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000						
PRF B136 C125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000		0.212 = 0.027 + 0.047 + 0.138				
3F B137 Z125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000		0.239 = 0.029 + 0.117 + 0.094				
2F B137 Z125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000						
PRF B138 C125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000		0.037 = 0.010 + 0.026 + 0.000				
3F B139 Z125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000		0.142 = 0.013 + 0.124 + 0.004				
2F B139 Z125X50X20X2 MOMENT	1.000	1.000	1.000	1.000	1.000						
PRF B140 2SC125X50X20 MOMENT	1.000	0.957	0.968	1.000	1.000		0.053 = 0.029 + 0.023 + 0.001	0.267	0.015	0.2RC68	0.018
3F B141 2SC125X50X20 MOMENT	1.000	0.950	0.950	1.000	1.000		0.423 = 0.234 + 0.169 + 0.020				
2F B141 2SC125X50X20 MOMENT	1.000	0.950	0.950	1.000	1.000						
PRF B142 2SC125X50X20 MOMENT	1.000	0.950	0.950	1.000	1.000		0.119 = 0.010 + 0.108 + 0.001	0.267	0.024	0.2RC72	0.003
3F B143 2SC125X50X20 MOMENT	1.000	0.971	0.971	1.000	1.000		0.007 = 0.000 + 0.006 + 0.000				
2F B143 2SC125X50X20 MOMENT	1.000	0.971	0.971	1.000	1.000						
PRF B144 2SC125X50X20 MOMENT	1.000	0.971	0.971	1.000	1.000		0.375 = 0.340 + 0.024 + 0.012				
3F B145 2SC125X50X20 MOMENT	1.000	0.951	0.951	1.000	1.000		0.073 = 0.024 + 0.007 + 0.043				
2F B145 2SC125X50X20 MOMENT	1.000	0.951	0.951	1.000	1.000						
PRF B146 2SC125X50X20 MOMENT	1.000	0.951	0.951	1.000	1.000		0.424 = 0.247 + 0.144 + 0.033	0.267	0.024	0.2RC68	0.028
2F B146 2SC125X50X20 MOMENT	1.000	0.951	0.951	1.000	1.000		0.220 = 0.071 + 0.006 + 0.144				

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BRACE STEEL STRESS CHECK ELEMENT INFORMATION (ASLC-LRFDS)

STORY	BRACE SECTION	FRAMING	RLFL	RATIO	L	RATIO	K	K				
LEVEL	BAY ID	TYPE	FACTOR	MAJOR	MINOR	MAJOR	MINOR					
2F	D1	2SC125X50X20	MOMENT	1.000	1.000	0.250	1.000	1.000				
2F	D2	2SC125X50X20	MOMENT	1.000	1.000	0.250	1.000	1.000				
2F	D3	2SC125X50X20	MOMENT	1.000	1.000	0.250	1.000	1.000				
2F	D4	2SC125X50X20	MOMENT	1.000	1.000	0.250	1.000	1.000				
2F	D5	PL50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
2F	D6	PL50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
2F	D7	PL50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
2F	D8	PL50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
3F	D9	ROD25	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D10	ROD25	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D11	2SC125X50X20	MOMENT	1.000	1.000	0.500	1.000	1.000				
2F	D12	2SC125X50X20	MOMENT	1.000	1.000	0.500	1.000	1.000				
2F	D13	2SC125X50X20	MOMENT	1.000	1.000	0.500	1.000	1.000				
2F	D14	2SC125X50X20	MOMENT	1.000	1.000	0.500	1.000	1.000				
3F	D15	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D15	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D16	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D17	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D18	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D18	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D19	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D20	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D20	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D21	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D22	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D22	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D23	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D24	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D24	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D25	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D26	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D27	2SC125X50X20	MOMENT	1.000	0.625	0.167	1.000	1.000				
3F	D28	2SC125X50X20	MOMENT	1.000	0.625	0.167	1.000	1.000				
PRF	D29	2SC125X50X20	MOMENT	1.000	0.625	0.167	1.000	1.000				
3F	D30	2SC125X50X20	MOMENT	1.000	0.625	0.167	1.000	1.000				
PRF	D31	2SC125X50X20	MOMENT	1.000	0.625	0.167	1.000	1.000				
3F	D32	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D32	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D33	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D34	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D35	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D36	2SC125X50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
3F	D37	2SC125X50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
PRF	D38	2SC125X50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
3F	D39	2SC125X50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
PRF	D40	2SC125X50X20	MOMENT	1.000	0.500	0.167	1.000	1.000				
3F	D41	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D42	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D43	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D44	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D45	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D45	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D46	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D47	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D47	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D48	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D49	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D50	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D51	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D51	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D52	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
3F	D53	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
2F	D54	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				
PRF	D54	U100X100X2.0	MOMENT	1.000	1.000	1.000	1.000	1.000				

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COLUMN STEEL STRESS CHECK OUTPUT (ASLC-LRFDS)

STORY	COLUMN SECTION	f _c	MOMENT INTERACTION CHECK	f _t	SHEAR2	f _v	SHEAR3	f _v				
LEVEL	LINE ID	COMBO	RATIO = AXL - B33 + B22 COMBO	RATIO	COMBO	RATIO	COMBO	RATIO				
2F	C1-1	U100X100X2.0		0.267	0.076	0.2RC72	0.076					
		0.2RC15(C)	0.050 = 0.006 + 0.042 + 0.001									
		0.2RC71(T)	0.374 = 0.006 + 0.339 + 0.030									
2F	C2-1	U100X100X2.0		0.267	0.091	0.2RC72	0.076					
		0.2RC15(C)	0.061 = 0.011 + 0.047 + 0.003									
		0.2RC71(T)	0.390 = 0.018 + 0.367 + 0.005									
2F	C3-1	U100X100X2.0		0.267	0.075	0.2RC72	0.073					
		0.2RC68(C)	0.295 = 0.016 + 0.021 + 0.258									
		0.2RC71(T)	0.415 = 0.026 + 0.333 + 0.056									
2F	C4-1	U100X100X2.0		0.267	0.067	0.2RC68	0.080					
		0.2RC67(C)	0.401 = 0.009 + 0.321 + 0.071									
		0.2RC68(T)	0.298 = 0.007 + 0.016 + 0.275									
3F	C5	U100X100X2.0		0.267	0.006	0.2RC67	0.005					
		0.2RC11(C)	0.070 = 0.057 + 0.010 + 0.004									
		0.2RC71(T)	0.078 = 0.038 + 0.025 + 0.015									
2F	C5	U100X100X2.0		0.267	0.023	0.2RC72	0.019					
		0.2RC11(C)	0.054 = 0.030 + 0.021 + 0.003									
		0.2RC71(T)	0.276 = 0.081 + 0.158 + 0.037									
PRF	C5-1	U100X100X2.0		0.267	0.005	0.2RC68	0.					

PRF D38 25C125X30X20X2 02RC68 0.161 02RC71 0.133
 02RC71(C) 0.230 = 0.024 + 0.001 + 0.205
 02RC68(T) 0.370 = 0.212 + 0.045 + 0.113
 PRF D39 25C125X30X20X2 02RC68 0.164 02RC71 0.113
 02RC71(C) 0.211 = 0.005 + 0.002 + 0.204
 02RC68(T) 0.362 = 0.212 + 0.045 + 0.105
 PRF D40 25C125X30X20X2 02RC68 0.136 02RC71 0.077
 02RC71(C) 0.233 = 0.056 + 0.023 + 0.154
 02RC68(T) 0.321 = 0.227 + 0.072 + 0.022
 3F D41 U100X100X2.0 02RC68 0.099 02RC02 0.003
 02RC17(C) 0.025 = 0.015 + 0.009 + 0.010
 02RC68(T) 0.126 = 0.080 + 0.036 + 0.010
 2F D41 U100X100X2.0 02RC68 0.014 02RC71 0.016
 02RC11(C) 0.046 = 0.022 + 0.004 + 0.020
 02RC72(T) 0.317 = 0.226 + 0.090 + 0.001
 PRF D42 U100X100X2.0 02RC68 0.004 02RC67 0.005
 02RC44(C) 0.008 = 0.002 + 0.002 + 0.003
 02RC68(T) 0.050 = 0.032 + 0.016 + 0.002
 3F D43 U100X100X2.0 02RC68 0.010 02RC67 0.009
 02RC71(C) 0.064 = 0.009 + 0.005 + 0.050
 02RC68(T) 0.101 = 0.060 + 0.040 + 0.001
 2F D43 U100X100X2.0 02RC68 0.017 02RC71 0.022
 02RC67(C) 0.139 = 0.018 + 0.007 + 0.114
 02RC72(T) 0.193 = 0.078 + 0.110 + 0.004
 PRF D44 U100X100X2.0 02RC68 0.005 02RC67 0.006
 02RC71(C) 0.059 = 0.003 + 0.010 + 0.046
 02RC67(T) 0.054 = 0.001 + 0.007 + 0.046
 3F D45 U100X100X2.0 02RC68 0.010 02RC71 0.005
 02RC67(C) 0.033 = 0.000 + 0.005 + 0.027
 02RC68(T) 0.111 = 0.060 + 0.041 + 0.010
 2F D45 U100X100X2.0 02RC68 0.017 02RC71 0.020
 02RC67(C) 0.116 = 0.008 + 0.004 + 0.104
 02RC72(T) 0.194 = 0.079 + 0.112 + 0.004
 PRF D46 U100X100X2.0 02RC68 0.005 02RC71 0.006
 02RC71(C) 0.061 = 0.000 + 0.009 + 0.052
 3F D47 U100X100X2.0 02RC68 0.011 02RC67 0.012
 02RC02(C) 0.032 = 0.001 + 0.013 + 0.018
 02RC68(T) 0.127 = 0.066 + 0.038 + 0.023
 2F D47 U100X100X2.0 02RC68 0.018 02RC67 0.026
 02RC02(C) 0.049 = 0.019 + 0.014 + 0.016
 02RC68(T) 0.201 = 0.075 + 0.121 + 0.006
 PRF D48 U100X100X2.0 02RC68 0.005 02RC68 0.006
 02RC68(T) 0.077 = 0.025 + 0.021 + 0.031
 3F D49 U100X100X2.0 02RC68 0.009 02RC67 0.002
 02RC67(C) 0.043 = 0.014 + 0.014 + 0.015
 02RC72(T) 0.133 = 0.093 + 0.037 + 0.003
 2F D49 U100X100X2.0 02RC68 0.015 02RC67 0.016
 02RC67(C) 0.180 = 0.041 + 0.040 + 0.099
 02RC68(T) 0.359 = 0.257 + 0.099 + 0.003
 PRF D50 U100X100X2.0 02RC68 0.004 02RC71 0.004
 02RC71(C) 0.043 = 0.009 + 0.007 + 0.027
 02RC68(T) 0.051 = 0.034 + 0.017 + 0.001
 3F D51 U100X100X2.0 02RC71 0.007 02RC09 0.001
 02RC71(C) 0.106 = 0.071 + 0.031 + 0.004
 02RC11(T) 0.028 = 0.015 + 0.012 + 0.001
 2F D51 U100X100X2.0 02RC71 0.012 02RC68 0.017
 02RC67(C) 0.319 = 0.217 + 0.080 + 0.022
 02RC11(T) 0.039 = 0.018 + 0.022 + 0.000
 PRF D52 U100X100X2.0 02RC71 0.004 02RC17 0.001
 02RC68(C) 0.032 = 0.016 + 0.008 + 0.008
 02RC17(T) 0.009 = 0.001 + 0.004 + 0.003
 PRF D53 U100X100X2.0 02RC67 0.005 02RC13 0.000
 02RC68(C) 0.040 = 0.019 + 0.012 + 0.009
 02RC67(T) 0.043 = 0.020 + 0.023 + 0.000
 3F D54 U100X100X2.0 02RC67 0.010 02RC68 0.001
 02RC68(C) 0.076 = 0.058 + 0.010 + 0.008
 02RC71(T) 0.121 = 0.065 + 0.052 + 0.004
 2F D54 U100X100X2.0 02RC67 0.013 02RC68 0.017
 02RC68(C) 0.216 = 0.097 + 0.007 + 0.112
 02RC71(T) 0.209 = 0.088 + 0.096 + 0.026

S File E:\WORK\2022\208\AMODEL\SAFE\SC3-2\22081\3\2208A-SC3-2\22081-001.LUE saved 8/16/22 13:58:17 in Kgf.cm

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SAFE '8.1.0'  
UNITS Kgf cm  
$ TITLES  
TITLE1 'Lo-Lat Structure Studio'  
TITLE2 ''  
$ GRIDS  
GRID 'GLOBAL' X '1' 0  
GRID 'GLOBAL' X '2' 310  
GRID 'GLOBAL' X '3' 510  
GRID 'GLOBAL' X '4' 850  
GRID 'GLOBAL' X '5' 1055  
GRID 'GLOBAL' Y '0A' 0  
GRID 'GLOBAL' Y 'A' 202.5  
GRID 'GLOBAL' Y 'B' 562.5  
GRID 'GLOBAL' Y 'C' 842.5  
MESH MAX 100  
$ BEAM PROPERTIES  
BEAMPROP 'RB60X40C4' E 250998 U 0.2 W 0.0024  
BEAMPROP 'RB60X40C4' TYPE R B 60 D 40  
BEAMPROP 'RB60X40C4' DENSE 0  
BEAMPROP 'RB60X40C4' BDESCN 60 DDESCN 40  
BEAMPROP 'RB60X40C4' CT 8 CB 8  
BEAMPROP 'RB60X40C4' FC 280 FY 4200 FYS 4200 FCS 280  
$ SLAB PROPERTIES  
SLABPROP 'S40' E 250998 U 0.2 W 0.0024  
SLABPROP 'S40' T 40 TYPE THICK  
SLABPROP 'S40' CTI 8 CTJ 8 CBI 8 CBJ 8  
SLABPROP 'S40' FC 280 FY 4200  
SLABPROP 'Col_Slab' E 250998 U 0.2 W 0.0024  
SLABPROP 'Col_Slab' T 200 TYPE THICK  
SLABPROP 'Col_Slab' DESKIN NO  
$ COLUMN PROPERTIES  
$ WALL PROPERTIES  
$ SOIL PROPERTIES  
SOILPROP 'F8' K 1  
SOILPROP 'F4' K 1  
SOILPROP 'F1' K 1  
SOILPROP 'F6' K 1  
SOILPROP 'F7' K 1  
SOILPROP 'F9' K 1  
SOILPROP 'F2' K 1  
SOILPROP 'F3' K 1  
SOILPROP 'F5' K 1  
$ POINT COORDINATES  
POINT '29' 0 202.5  
POINT '80' 0 562.5  
POINT '117' 0 842.5  
POINT '55' 0 322.5  
POINT '102' 0 722.5  
POINT '31' 310 202.5  
POINT '82' 310 562.5  
POINT '119' 310 842.5  
POINT '56' 310 322.5  
POINT '103' 310 722.5  
POINT '1' 310 0  
POINT '32' 510 202.5  
POINT '83' 510 562.5  
POINT '120' 510 842.5  
POINT '57' 510 322.5  
POINT '104' 510 722.5  
POINT '2' 510 0  
POINT '33' 850 202.5  
POINT '84' 850 562.5  
POINT '121' 850 842.5  
POINT '105' 850 722.5  
POINT '3' 850 0  
POINT '35' 1055 202.5  
POINT '86' 1055 562.5  
POINT '122' 1055 842.5  
POINT '59' 1055 322.5  
POINT '106' 1055 722.5  
POINT '4' 1055 0  
POINT '34' 935 202.5  
POINT '87' 935 562.5  
POINT '123' 935 842.5  
POINT '122' 935 842.5  
POINT '118' 120 842.5  
POINT '85' 935 562.5  
POINT '81' 120 562.5  
$ LINE CONNECTIVITY  
LINE 'B139' 0 842.5 310 842.5  
LINE 'B141' 310 842.5 510 842.5  
LINE 'B143' 510 842.5 850 842.5  
LINE 'B145' 850 842.5 1055 842.5  
LINE 'B93' 0 562.5 310 562.5  
LINE 'B94' 310 562.5 510 562.5  
LINE 'B96' 510 562.5 850 562.5  
LINE 'B97' 850 562.5 1055 562.5  
LINE 'B26' 0 202.5 310 202.5  
LINE 'B28' 310 202.5 510 202.5  
LINE 'B30' 510 202.5 850 202.5  
LINE 'B32' 850 202.5 1055 202.5  
LINE 'B3' 310 0 1055 0  
LINE 'B16' 1055 0 1055 202.5  
LINE 'B12' 310 0 310 202.5  
LINE 'B58' 0 202.5 0 562.5  
LINE 'B118' 0 562.5 0 842.5  
LINE 'B59' 310 202.5 310 562.5  
LINE 'B119' 310 562.5 310 842.5  
LINE 'B60' 510 202.5 510 562.5  
LINE 'B120' 510 562.5 510 842.5  
LINE 'B61' 850 202.5 850 562.5  
LINE 'B121' 850 562.5 850 842.5  
LINE 'B62' 1055 202.5 1055 562.5  
LINE 'B122' 1055 562.5 1055 842.5  
$ AREA CONNECTIVITY  
AREA 'F8' 4 850 842.5 510 842.5 510 562.5 850 562.5  
AREA 'F4' 4 850 562.5 510 562.5 510 202.5 850 202.5  
AREA 'F1' 4 310 202.5 310 0 1055 0 1055 202.5  
AREA 'F6' 4 0 842.5 0 562.5 310 562.5 310 842.5  
AREA 'F7' 4 310 842.5 310 562.5 510 562.5 510 842.5  
AREA 'F9' 4 850 842.5 850 562.5 1055 562.5 1055 842.5  
AREA 'F2' 4 310 562.5 0 562.5 0 202.5 310 202.5  
AREA 'F3' 4 510 562.5 310 562.5 310 202.5 510 202.5  
AREA 'F5' 4 1055 562.5 850 562.5 850 202.5 1055 202.5  
$ BEAM ASSIGNS  
BEAM 'B139' 'RB60X40C4'  
BEAM 'B141' 'RB60X40C4'  
BEAM 'B143' 'RB60X40C4'  
BEAM 'B145' 'RB60X40C4'  
BEAM 'B93' 'RB60X40C4'  
BEAM 'B94' 'RB60X40C4'  
BEAM 'B96' 'RB60X40C4'  
BEAM 'B97' 'RB60X40C4'  
BEAM 'B26' 'RB60X40C4'  
BEAM 'B28' 'RB60X40C4'  
BEAM 'B30' 'RB60X40C4'  
BEAM 'B32' 'RB60X40C4'  
BEAM 'B3' 'RB60X40C4'  
BEAM 'B16' 'RB60X40C4'  
BEAM 'B12' 'RB60X40C4'  
BEAM 'B58' 'RB60X40C4'  
BEAM 'B118' 'RB60X40C4'  
BEAM 'B59' 'RB60X40C4'  
BEAM 'B119' 'RB60X40C4'  
BEAM 'B60' 'RB60X40C4'  
BEAM 'B120' 'RB60X40C4'  
BEAM 'B61' 'RB60X40C4'  
BEAM 'B121' 'RB60X40C4'  
BEAM 'B62' 'RB60X40C4'  
BEAM 'B122' 'RB60X40C4'  
$ SLAB ASSIGNS  
SLAB 'F8' 'S40'  
SLAB 'F4' 'S40'  
SLAB 'F1' 'S40'  
SLAB 'F6' 'S40'  
SLAB 'F7' 'S40'  
SLAB 'F9' 'S40'  
SLAB 'F2' 'S40'  
SLAB 'F3' 'S40'  
SLAB 'F5' 'S40'  
$ COLUMN ASSIGNS  
$ WALL ASSIGNS  
$ SOIL ASSIGNS  
SOIL 'F8' 'F8'  
SOIL 'F4' 'F4'
```

```
SOIL 'F1' 'F1'  
SOIL 'F6' 'F6'  
SOIL 'F7' 'F7'  
SOIL 'F9' 'F9'  
SOIL 'F2' 'F2'  
SOIL 'F3' 'F3'  
SOIL 'F5' 'F5'  
$ RELEASE ASSIGNS  
$ LOADS  
LOAD 'DL' TYPE DEAD SELFWEIGHT 1 LITFACTOR 3  
POINTLOAD 'DL' '29' F 123.1159 MX 122.9893 MY -106.0985  
POINTLOAD 'DL' '80' F 193.53 MX -48.97467 MY -126.5666  
POINTLOAD 'DL' '117' F 114.6573 MX -93.35727 MY -98.52842  
POINTLOAD 'DL' '55' F 352.1437 MX 621.0418 MY -125.3176  
POINTLOAD 'DL' '102' F 319.1458 MX -499.8909 MY -112.3728  
POINTLOAD 'DL' '31' F 205.5312 MX -9.492491 MY -21.82156  
POINTLOAD 'DL' '82' F 302.8807 MX -101.6891 MY -25.83259  
POINTLOAD 'DL' '119' F 51.5975 MX -127.696 MY 2.618619  
POINTLOAD 'DL' '56' F 470.5384 MX 574.6092 MY -1.008815  
POINTLOAD 'DL' '103' F 419.6686 MX -557.7924 MY 16.00037  
POINTLOAD 'DL' '1' F 61.24171 MX 549.288 MY -169.4371  
POINTLOAD 'DL' '32' F 238.5152 MX -92.52527 MY -75.18146  
POINTLOAD 'DL' '83' F 327.4869 MX -93.47617 MY -105.8593  
POINTLOAD 'DL' '120' F 156.1565 MX -103.5716 MY -68.44353  
POINTLOAD 'DL' '57' F 525.6685 MX 509.891 MY -92.3784  
POINTLOAD 'DL' '104' F 436.0219 MX -510.1522 MY -61.75692  
POINTLOAD 'DL' '2' F 95.79028 MX 980.6027 MY -185.7596  
POINTLOAD 'DL' '33' F 368.2832 MX -114.8671 MY 168.924  
POINTLOAD 'DL' '84' F 341.7422 MX -664.2403 MY 160.1766  
POINTLOAD 'DL' '121' F 210.1215 MX -139.2893 MY 108.7944  
POINTLOAD 'DL' '105' F 380.7348 MX -1048.074 MY 69.66341  
POINTLOAD 'DL' '3' F 92.66234 MX 494.862 MY -50.59637  
POINTLOAD 'DL' '35' F 111.9036 MX -57.81095 MY 102.416  
POINTLOAD 'DL' '86' F 143.071 MX -108.6664 MY 113.8837  
POINTLOAD 'DL' '122' F 121.5146 MX -139.8668 MY 101.7597  
POINTLOAD 'DL' '59' F 363.425 MX 389.3994 MY 149.5885  
POINTLOAD 'DL' '106' F 278.1135 MX -596.5814 MY 76.11943  
POINTLOAD 'DL' '4' F 58.99025 MX 306.0521 MY -46.11533  
POINTLOAD 'DL' '34' F 317.5737 MX -167.1646 MY 560.0884  
POINTLOAD 'DL' '30' F 305.6586 MX 174.8017 MY -546.1256  
POINTLOAD 'DL' '122' F 305.342 MX -283.0359 MY 521.5896  
POINTLOAD 'DL' '118' F 307.5204 MX -120.7622 MY -529.2629  
POINTLOAD 'DL' '85' F 350.1818 MX -241.6726 MY 560.0768  
POINTLOAD 'DL' '119' F 349.1298 MX -40.26657 MY -601.8596  
LOAD 'SDL' TYPE DEAD SELFWEIGHT 0 LITFACTOR 1  
POINTLOAD 'SDL' '29' F 87.18348 MX 133.371 MY -115.4671  
POINTLOAD 'SDL' '80' F 169.9398 MX -208.103 MY -233.399  
POINTLOAD 'SDL' '117' F 74.5775 MX 63.55901 MY -120.4665  
POINTLOAD 'SDL' '55' F 319.9413 MX 465.7125 MY -313.4429  
POINTLOAD 'SDL' '102' F 249.776 MX -141.7994 MY -379.788  
POINTLOAD 'SDL' '31' F 276.3253 MX 25.1607 MY -49.87759  
POINTLOAD 'SDL' '82' F 416.2625 MX -518.6735 MY -75.58588  
POINTLOAD 'SDL' '119' F 201.5087 MX -210.4494 MY -45.55457  
POINTLOAD 'SDL' '56' F 722.8004 MX 743.7205 MY 24.02238  
POINTLOAD 'SDL' '103' F 625.2624 MX -371.9392 MY 41.35842  
POINTLOAD 'SDL' '1' F 54.72737 MX 832.6207 MY -463.817  
POINTLOAD 'SDL' '32' F 391.042 MX -508.5768 MY -261.6739  
POINTLOAD 'SDL' '83' F 692.2078 MX -565.4659 MY -387.6609  
POINTLOAD 'SDL' '120' F 220.7662 MX -173.8707 MY -253.8708  
POINTLOAD 'SDL' '57' F 940.9899 MX 441.4209 MY -390.3679  
POINTLOAD 'SDL' '104' F 665.1688 MX -302.1481 MY -528.6374  
POINTLOAD 'SDL' '2' F 818.3331 MX 269.048 MY -700.9004  
POINTLOAD 'SDL' '33' F 822.7239 MX 185.3792 MY 548.8787  
POINTLOAD 'SDL' '84' F 764.9044 MX -2156.733 MY 489.2192  
POINTLOAD 'SDL' '121' F 303.7094 MX -731.5487 MY 297.034  
POINTLOAD 'SDL' '105' F 614.3707 MX -1377.197 MY -191.9379  
POINTLOAD 'SDL' '3' F 211.2847 MX 1780.536 MY 239.3109  
POINTLOAD 'SDL' '35' F 45.23583 MX -136.1871 MY 77.06267  
POINTLOAD 'SDL' '86' F 68.84089 MX -203.1601 MY 53.25983  
POINTLOAD 'SDL' '122' F 45.04667 MX -87.29961 MY 42.77355  
POINTLOAD 'SDL' '59' F 245.0395 MX 57.65946 MY 281.2859  
POINTLOAD 'SDL' '106' F 89.35494 MX -161.5572 MY 14.18648  
POINTLOAD 'SDL' '4' F 51.64027 MX 394.9882 MY 58.63109  
POINTLOAD 'SDL' '34' F 428.5619 MX -340.3189 MY 252.2217  
POINTLOAD 'SDL' '30' F 172.8066 MX 181.356 MY -220.764  
POINTLOAD 'SDL' '122' F 181.7843 MX -327.0007 MY 69.24238  
POINTLOAD 'SDL' '118' F 179.2163 MX -99.49404 MY -231.9439  
POINTLOAD 'SDL' '85' F 281.8798 MX -450.4105 MY 171.7841  
POINTLOAD 'SDL' '81' F 265.9934 MX -160.8711 MY -418.9115  
AREALOAD 'SDL' 'F8' W 0.03  
AREALOAD 'SDL' 'F4' W 0.03  
AREALOAD 'SDL' 'F1' W 0.03  
AREALOAD 'SDL' 'F6' W 0.03  
AREALOAD 'SDL' 'F7' W 0.03  
AREALOAD 'SDL' 'F9' W 0.03  
AREALOAD 'SDL' 'F2' W 0.03  
AREALOAD 'SDL' 'F3' W 0.03  
AREALOAD 'SDL' 'F5' W 0.03  
LOAD 'LE' TYPE LIVE SELFWEIGHT 0 LITFACTOR 1  
POINTLOAD 'LE' '29' F 325.8616 MX 589.1592 MY -513.1677  
POINTLOAD 'LE' '80' F 668.8479 MX -1048.342 MY -1031.864  
POINTLOAD 'LE' '117' F 277.8999 MX 373.9255 MY -539.3635  
POINTLOAD 'LE' '55' F 1187.616 MX 215.125 MY -456.2  
POINTLOAD 'LE' '102' F 943.0488 MX -615.6421 MY -1762.623  
POINTLOAD 'LE' '31' F 1050.734 MX 559.9243 MY -158.7693  
POINTLOAD 'LE' '82' F 2412.451 MX -2586.343 MY -217.0044  
POINTLOAD 'LE' '119' F 730.921 MX -915.819 MY -47.3497  
POINTLOAD 'LE' '56' F 2082.167 MX 280.642 MY 201.0564  
POINTLOAD 'LE' '103' F 2326.461 MX -1544.947 MY 234.6378  
POINTLOAD 'LE' '1' F 92.20976 MX 219.422 MY -1023.255  
POINTLOAD 'LE' '32' F 1352.447 MX -60.5742 MY -1147.295  
POINTLOAD 'LE' '83' F 2713.913 MX -2879.382 MY -1814.09  
POINTLOAD 'LE' '120' F 812.9025 MX -783.6754 MY -1213.982  
POINTLOAD 'LE' '57' F 3386.906 MX 3934.471 MY -1726.297  
POINTLOAD 'LE' '104' F 2456.731 MX -1285.475 MY -1500.618  
POINTLOAD 'LE' '2' F 335.8794 MX 1175.667 MY -1399.923  
POINTLOAD 'LE' '33' F 2727.371 MX 507.659 MY 237.7373  
POINTLOAD 'LE' '84' F 3125.767 MX -9859.966 MY 2359.54  
POINTLOAD 'LE' '121' F 1065.948 MX -2743.306 MY 1401.589  
POINTLOAD 'LE' '105' F 2293.83 MX -4965.546 MY 951.1117  
POINTLOAD 'LE' '3' F 291.7216 MX 3020.422 MY -6751.652  
POINTLOAD 'LE' '35' F 165.9203 MX -11.00706 MY 290.4427  
POINTLOAD 'LE' '86' F 291.693 MX -841.9483 MY 283.3648  
POINTLOAD 'LE' '122' F 152.6709 MX -278.2252 MY 183.685  
POINTLOAD 'LE' '59' F 870.944 MX 964.6383 MY 1273.351  
POINTLOAD 'LE' '106' F 370.1882 MX -484.1298 MY 106.3535  
POINTLOAD 'LE' '4' F 75.4735 MX 645.9533 MY -274.1887  
POINTLOAD 'LE' '34' F 858.7967 MX -612.8812 MY 792.2885  
POINTLOAD 'LE' '30' F 662.2071 MX 821.3884 MY -962.243  
POINTLOAD 'LE' '122' F 621.9453 MX -1077.018 MY 213.787  
POINTLOAD 'LE' '118' F 631.8661 MX -471.3562 MY -1006.974  
POINTLOAD 'LE' '85' F 1060.814 MX -1651.423 MY 772.4588  
POINTLOAD 'LE' '81' F 1010.97 MX -858.3267 MY -1769.955  
AREALOAD 'LE' 'F8' W 0.1  
AREALOAD 'LE' 'F4' W 0.1  
AREALOAD 'LE' 'F1' W 0.1  
AREALOAD 'LE' 'F6' W 0.1  
AREALOAD 'LE' 'F7' W 0.1  
AREALOAD 'LE' 'F9' W 0.1  
AREALOAD 'LE' 'F2' W 0.1  
AREALOAD 'LE' 'F3' W 0.1  
AREALOAD 'LE' 'F5' W 0.1  
LOAD 'EXP' TYPE QUAKE SELFWEIGHT 0 LITFACTOR 1  
POINTLOAD 'EXP' '29' F 1187.871 MX 320.731 MY 487.699  
POINTLOAD 'EXP' '80' F 2532.987 MX 85.73613 MY 7517.48  
POINTLOAD 'EXP' '117' F -1080.401 MX 173.6871 MY 4591.354  
POINTLOAD 'EXP' '55' F 1709.223 MX -780.4645 MY 13517.13  
POINTLOAD 'EXP' '102' F -1766.54 MX 615.916 MY 12300.47  
POINTLOAD 'EXP' '31' F 45.68151 MX -436.588 MY 6174.101  
POINTLOAD 'EXP' '82' F 25.39092 MX -357.3487 MY 9489.328  
POINTLOAD 'EXP' '119' F 53.87446 MX -271.9573 MY 5733.658  
POINTLOAD 'EXP' '56' F 61.56278 MX -778.3875 MY 14044.42  
POINTLOAD 'EXP' '103' F 26.97251 MX -559.5929 MY 12664.41  
POINTLOAD 'EXP' '1' F -32.0318 MX -742.2685 MY 8721.754  
POINTLOAD 'EXP' '32' F 104.6183 MX 454.9847 MY 5855.033  
POINTLOAD 'EXP' '83' F 80.73284 MX 361.2895 MY 9003.89  
POINTLOAD 'EXP' '120' F -20.57853 MX 264.7165 MY 5410.163  
POINTLOAD 'EXP' '57' F 4.454588 MX 408.5461 MY 13833.17  
POINTLOAD 'EXP' '104' F 91.67726 MX 533.8261 MY 12515.41  
POINTLOAD 'EXP' '2' F 23.70527 MX 784.974 MY 9257.007  
POINTLOAD 'EXP' '33' F 395.149 MX -55.1271 MY 9966.516  
POINTLOAD 'EXP' '84' F 449.4786 MX 150.1037 MY 9703.641  
POINTLOAD 'EXP' '121' F -236.4791 MX 137.7652 MY 6030.365  
POINTLOAD 'EXP' '105' F -211.007 MX 307.0837 MY 12862.75  
POINTLOAD 'EXP' '3' F -19.48033 MX -135.8512 MY 9167.853  
POINTLOAD 'EXP' '35' F 1247.002 MX 509.2731 MY 5165.963
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POINTLOAD "EXP" "86" F 2609941 MX 44.3538 MY 7598.367
POINTLOAD "EXP" "123" F 1103989 MX 83.01783 MY 4661.338
POINTLOAD "EXP" "59" F 1756401 MX 1081.816 MY 13392.38
POINTLOAD "EXP" "106" F 1888.384 MX 447.7713 MY 12027.97
POINTLOAD "EXP" "4" F 42.84509 MX 1799.849 MY 8651.853
POINTLOAD "EXP" "34" F 2485.912 MX 332.0912 MY 10718.75
POINTLOAD "EXP" "30" F 2664.1 MX 1255.906 MY 9938.189
POINTLOAD "EXP" "122" F 2378.595 MX 603.2568 MY 9864.692
POINTLOAD "EXP" "118" F 2553.664 MX 1195.391 MY 9311.61
POINTLOAD "EXP" "85" F 2294.759 MX 384.2751 MY 15725.17
POINTLOAD "EXP" "81" F 2588.622 MX 526.6865 MY 15088.1
LOAD "EYN" TYPE QUAKE SELFWEIGHT 0 LTFDFACTOR 1
POINTLOAD "EYP" "29" F 708.8116 MX 3457.273 MY 46.080955
POINTLOAD "EYP" "80" F -16.38007 MX -4321.72 MY -19.43606
POINTLOAD "EYP" "117" F 743.1629 MX 3464.293 MY 14.65588
POINTLOAD "EYP" "55" F 1848.182 MX 4661.369 MY -87.17623
POINTLOAD "EYP" "102" F 1741.878 MX -6788.111 MY 122.9701
POINTLOAD "EYP" "31" F -1867.228 MX -6667.059 MY -128.6255
POINTLOAD "EYP" "82" F 88.71624 MX -7489.757 MY -24.71473
POINTLOAD "EYP" "119" F 1882.621 MX 5911.848 MY 15.87331
POINTLOAD "EYP" "56" F 1820.731 MX -12082.44 MY -80.76588
POINTLOAD "EYP" "103" F -1723.339 MX -11583.27 MY 142.5748
POINTLOAD "EYP" "1" F -82.56368 MX -13144.39 MY -1593.53
POINTLOAD "EYP" "32" F -1764.893 MX -5811.327 MY -286.4981
POINTLOAD "EYP" "83" F 98.57307 MX -6846.049 MY -26.88358
POINTLOAD "EYP" "120" F 1876.603 MX -5441.586 MY 184.5417
POINTLOAD "EYP" "57" F 1793.373 MX -10562.87 MY -155.3063
POINTLOAD "EYP" "104" F -1658.162 MX -10602.37 MY 209.2758
POINTLOAD "EYP" "2" F -75.15355 MX -11772.66 MY -1862.4
POINTLOAD "EYP" "33" F -6.803765 MX -6514.814 MY 89.3015
POINTLOAD "EYP" "84" F 82.98156 MX 7040.173 MY -51.95294
POINTLOAD "EYP" "121" F 1937.839 MX -5818.148 MY 665.497
POINTLOAD "EYP" "105" F -1994.507 MX -11287.87 MY 411.6764
POINTLOAD "EYP" "3" F -60.18738 MX -11481.01 MY -2309.116
POINTLOAD "EYP" "35" F 894.1184 MX -4697.6 MY -10.44271
POINTLOAD "EYP" "86" F 43.5794 MX -5083.605 MY -32.62744
POINTLOAD "EYP" "123" F 913.9054 MX -4062.822 MY 337.0074
POINTLOAD "EYP" "59" F 2010.513 MX 8531.249 MY -16.27232
POINTLOAD "EYP" "106" F -1896.375 MX -8027.677 MY 298.1365
POINTLOAD "EYP" "4" F 63.01256 MX 9098.617 MY -2291.217
POINTLOAD "EYP" "34" F -1171.42 MX -8764.786 MY -53.30369
POINTLOAD "EYP" "30" F -1242.368 MX -7115.532 MY 100.3605
POINTLOAD "EYP" "122" F 1383.215 MX -8022.858 MY 1188.727
POINTLOAD "EYP" "118" F 1188.543 MX -7130.181 MY -197.9521
POINTLOAD "EYP" "85" F 54.2472 MX 9233.218 MY -84.06096
POINTLOAD "EYP" "81" F 63.39028 MX -7955.344 MY -28.60534
LOAD "EXN" TYPE QUAKE SELFWEIGHT 0 LTFDFACTOR 1
POINTLOAD "EXN" "29" F -1187.874 MX -320.731 MY 488.7699
POINTLOAD "EXN" "80" F -2532.987 MX 85.75613 MY 7517.48
POINTLOAD "EXN" "117" F -1080.401 MX 173.0871 MY 4591.354
POINTLOAD "EXN" "55" F -1709.223 MX -780.4645 MY 13511.13
POINTLOAD "EXN" "102" F -1766.054 MX 615.916 MY 12030.47
POINTLOAD "EXN" "31" F 65.81851 MX -476.588 MY 6174.401
POINTLOAD "EXN" "82" F 25.39092 MX 357.3487 MY 9489.328
POINTLOAD "EXN" "119" F 53.87446 MX -271.9573 MY 5733.658
POINTLOAD "EXN" "56" F 61.56278 MX 778.3875 MY 14044.42
POINTLOAD "EXN" "103" F -26.97251 MX 559.9259 MY 12668.41
POINTLOAD "EXN" "1" F -32.0318 MX -742.2685 MY 8721.754
POINTLOAD "EXN" "32" F 104.6183 MX 454.9847 MY 5855.033
POINTLOAD "EXN" "83" F 80.73284 MX 361.2895 MY 9003.89
POINTLOAD "EXN" "120" F -20.57053 MX 264.7163 MY 5410.163
POINTLOAD "EXN" "57" F 4.454588 MX 608.5461 MY 13853.17
POINTLOAD "EXN" "104" F 91.67726 MX 533.8261 MY 12515.41
POINTLOAD "EXN" "2" F 23.70527 MX 784.974 MY 9257.007
POINTLOAD "EXN" "33" F 395.149 MX -55.1271 MY 6966.516
POINTLOAD "EXN" "84" F 449.4768 MX 150.1037 MY -9735.441
POINTLOAD "EXN" "121" F -236.4791 MX 317.7652 MY 6030.365
POINTLOAD "EXN" "105" F -211.007 MX 307.6837 MY 12862.75
POINTLOAD "EXN" "3" F -19.48033 MX -138.8512 MY 9167.833
POINTLOAD "EXN" "35" F 1247.602 MX 599.2731 MY 5165.963
POINTLOAD "EXN" "86" F 2609.941 MX 44.3538 MY 7598.367
POINTLOAD "EXN" "123" F 1103.989 MX 83.01783 MY 4661.338
POINTLOAD "EXN" "59" F 1756.401 MX 1081.816 MY 13392.38
POINTLOAD "EXN" "106" F 1888.384 MX 447.7713 MY 12027.97
POINTLOAD "EXN" "4" F 42.84509 MX 1799.849 MY 8651.853
POINTLOAD "EXN" "34" F 2485.912 MX 332.0912 MY 10718.75
POINTLOAD "EXN" "30" F 2664.1 MX 1255.906 MY 9938.189
POINTLOAD "EXN" "122" F 2378.595 MX 603.2568 MY 9864.692
POINTLOAD "EXN" "118" F 2553.664 MX 1195.391 MY 9311.61
POINTLOAD "EXN" "85" F 2294.759 MX 384.2751 MY 15725.17
POINTLOAD "EXN" "81" F 2588.622 MX 526.6865 MY 15088.1
LOAD "EYN" TYPE QUAKE SELFWEIGHT 0 LTFDFACTOR 1
POINTLOAD "EYN" "29" F -708.8116 MX 3457.273 MY -46.080955
POINTLOAD "EYN" "80" F -16.38007 MX -4321.72 MY -19.43606
POINTLOAD "EYN" "117" F 743.1629 MX 3464.293 MY 14.65588
POINTLOAD "EYN" "55" F 1848.182 MX 4661.369 MY -87.17623
POINTLOAD "EYN" "102" F 1741.878 MX -6788.111 MY 122.9701
POINTLOAD "EYN" "31" F -1867.228 MX -6667.059 MY -128.6255
POINTLOAD "EYN" "82" F 88.71624 MX -7489.757 MY -24.71473
POINTLOAD "EYN" "119" F 1882.621 MX 5911.848 MY 15.87331
POINTLOAD "EYN" "56" F 1820.731 MX -12082.44 MY -80.76588
POINTLOAD "EYN" "103" F -1723.339 MX -11583.27 MY 142.5748
POINTLOAD "EYN" "1" F -82.56368 MX -13144.39 MY -1593.53
POINTLOAD "EYN" "32" F -1764.893 MX -5811.327 MY -286.4981
POINTLOAD "EYN" "83" F 98.57307 MX -6846.049 MY -26.88358
POINTLOAD "EYN" "120" F 1876.603 MX -5441.586 MY 184.5417
POINTLOAD "EYN" "57" F 1793.373 MX -10562.87 MY -155.3063
POINTLOAD "EYN" "104" F -1658.162 MX -10602.37 MY 209.2758
POINTLOAD "EYN" "2" F -75.15355 MX -11772.66 MY -1862.4
POINTLOAD "EYN" "33" F -6.803765 MX -6514.814 MY 89.3015
POINTLOAD "EYN" "84" F 82.98156 MX 7040.173 MY -51.95294
POINTLOAD "EYN" "121" F 1937.839 MX -5818.148 MY 665.497
POINTLOAD "EYN" "105" F -1994.507 MX -11287.87 MY 411.6764
POINTLOAD "EYN" "3" F -60.18738 MX -11481.01 MY -2309.116
POINTLOAD "EYN" "35" F 894.1184 MX -4697.6 MY -10.44271
POINTLOAD "EYN" "86" F 43.5794 MX -5083.605 MY -32.62744
POINTLOAD "EYN" "123" F 913.9054 MX -4062.822 MY 337.0074
POINTLOAD "EYN" "59" F 2010.513 MX 8531.249 MY -16.27232
POINTLOAD "EYN" "106" F -1896.375 MX -8027.677 MY 298.1365
POINTLOAD "EYN" "4" F 63.01256 MX 9098.617 MY -2291.217
POINTLOAD "EYN" "34" F -1171.42 MX -8764.786 MY -53.30369
POINTLOAD "EYN" "30" F -1242.368 MX -7115.532 MY 100.3605
POINTLOAD "EYN" "122" F 1383.215 MX -8022.858 MY 1188.727
POINTLOAD "EYN" "118" F 1188.543 MX -7130.181 MY -197.9521
POINTLOAD "EYN" "85" F 54.2472 MX 9233.218 MY -84.06096
POINTLOAD "EYN" "81" F 63.39028 MX -7955.344 MY -28.60534
LOAD "WX" TYPE WIND SELFWEIGHT 0 LTFDFACTOR 1
POINTLOAD "WX" "29" F -220.1117 MX -155.3918 MY 128.3351
POINTLOAD "WX" "80" F -358.2417 MX -15.65386 MY 270.2619
POINTLOAD "WX" "117" F -190.5858 MX 87.3917 MY 129.7378
POINTLOAD "WX" "55" F 823.7822 MX 590.9718 MY 222.0291
POINTLOAD "WX" "102" F -611.662 MX 187.0701 MY 272.6346
POINTLOAD "WX" "31" F -661.7836 MX 868.2415 MY 181.2374
POINTLOAD "WX" "82" F -1338.723 MX 14.04872 MY 321.83
POINTLOAD "WX" "119" F 553.9027 MX 272.8563 MY 60.84627
POINTLOAD "WX" "56" F -1863.67 MX 262.0818 MY 161.8891
POINTLOAD "WX" "103" F -1599.701 MX 629.4981 MY 55.69137
POINTLOAD "WX" "1" F -362.842 MX -3687.363 MY 2591.66
POINTLOAD "WX" "32" F 1205.525 MX 4964.625 MY 322.1489
POINTLOAD "WX" "83" F -1494.251 MX -104.1047 MY 248.4287
POINTLOAD "WX" "120" F -581.2572 MX 170.656 MY 110.7442
POINTLOAD "WX" "57" F -2636.086 MX 3454.733 MY 451.0855
POINTLOAD "WX" "104" F -1728.236 MX 450.5315 MY 283.138
POINTLOAD "WX" "2" F -4511.572 MX -15738.75 MY 4290.157
POINTLOAD "WX" "33" F -2772.496 MX 9887.525 MY -1013.24
POINTLOAD "WX" "84" F -1397.509 MX 1847.395 MY -173.1115
POINTLOAD "WX" "121" F 905.1989 MX 1828.875 MY -167.1612
POINTLOAD "WX" "105" F -1556.637 MX 3848.881 MY -17.158087
POINTLOAD "WX" "3" F -1529.404 MX -13764.51 MY -2406.613
POINTLOAD "WX" "35" F -120.5176 MX 1339.857 MY -189.7413
POINTLOAD "WX" "86" F -105.2049 MX 347.7049 MY 34.13133
POINTLOAD "WX" "123" F -145.1072 MX 316.1456 MY -69.36356
POINTLOAD "WX" "59" F 708.513 MX 132.862 MY 267.1565
POINTLOAD "WX" "106" F -153.173 MX 647.3123 MY 70.84222
POINTLOAD "WX" "4" F -365.508 MX -2657.976 MY -1134.688
POINTLOAD "WX" "30" F -768.0255 MX 2177.427 MY -937.6403
POINTLOAD "WX" "122" F -403.6522 MX -170.7833 MY 283.154
POINTLOAD "WX" "118" F -489.191 MX 52.22805 MY 305.6904
POINTLOAD "WX" "85" F -697.1705 MX 1201.259 MY -172.9233
POINTLOAD "WX" "81" F -628.9942 MX -107.9422 MY 649.2053
LOAD "WY" TYPE WIND SELFWEIGHT 0 LTFDFACTOR 1
POINTLOAD "WY" "29" F 75.46685 MX 53.2772 MY -44.00062
POINTLOAD "WY" "80" F 122.8257 MX 5.367039 MY -92.66124
POINTLOAD "WY" "117" F 65.3437 MX -30.082 MY 44.48153
POINTLOAD "WY" "55" F 282.4396 MX 120.2989 MY -76.12433

POINTLOAD "WY" "102" F 209.7127 MX -64.13832 MY -93.4747
POINTLOAD "WY" "31" F 226.8971 MX -297.6828 MY -62.13853
POINTLOAD "WY" "82" F 45.95908 MX -4.816704 MY -110.3417
POINTLOAD "WY" "119" F 189.9095 MX -93.55072 MY -20.86158
POINTLOAD "WY" "56" F 638.9728 MX -89.8566 MY -55.50484
POINTLOAD "WY" "103" F 548.469 MX 215.8279 MY -19.09418
POINTLOAD "WY" "1" F 124.4071 MX 1264.239 MY -888.5693
POINTLOAD "WY" "32" F 413.3299 MX -154.468 MY -97.76158
POINTLOAD "WY" "83" F 512.3147 MX 35.69304 MY -85.17556
POINTLOAD "WY" "120" F 199.2882 MX -58.51064 MY -37.96945
POINTLOAD "WY" "57" F 903.801 MX -1184.48 MY -154.6759
POINTLOAD "WY" "104" F 595.9631 MX -136.8295 MY 97.76158
POINTLOAD "WY" "2" F 518.2534 MX 5396.142 MY -1443.14
POINTLOAD "WY" "33" F 950.5699 MX -3390.009 MY 347.3967
POINTLOAD "WY" "84" F 479.1459 MX -633.3924 MY 59.35252
POINTLOAD "WY" "121" F 310.5539 MX -627.0429 MY 57.31242
POINTLOAD "WY" "105" F 533.5019 MX -3316.873 MY 5.882014
POINTLOAD "WY" "3" F 524.3671 MX 4719.276 MY 825.1244
POINTLOAD "WY" "35" F 41.32033 MX -459.3796 MY 65.85415
POINTLOAD "WY" "86" F 36.07025 MX -119.2131 MY -11.70217
POINTLOAD "WY" "123" F 49.35703 MX -108.9028 MY 20.69688
POINTLOAD "WY" "59" F 242.9187 MX -463.7767 MY 91.59652
POINTLOAD "WY" "106" F 523.6147 MX -221.9356 MY -24.28876
POINTLOAD "WY" "4" F 125.317 MX 911.3059 MY 389.036
POINTLOAD "WY" "34" F 263.323 MX -746.5453 MY 521.4767
POINTLOAD "WY" "30" F 138.395 MX 58.54259 MY 67.08137
POINTLOAD "WY" "122" F 196.7836 MX -382.6183 MY 90.80566
POINTLOAD "WY" "118" F 167.7226 MX -17.90676 MY -104.8081
POINTLOAD "WY" "85" F 239.0299 MX -411.8603 MY 59.288
POINTLOAD "WY" "81" F 215.6551 MX 37.00876 MY -222.5487
LOAD "WAH" TYPE OTHER SELFWEIGHT 0 LTFDFACTOR 1
LOAD "WAN" TYPE OTHER SELFWEIGHT 0 LTFDFACTOR 1
LOADING COMBINATIONS
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COMBOFACTOR "BASE10" "SDL" 1
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COMBO "BASE2"
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COMBOFACTOR "BASE10" "WAN" 1
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COMBO "BASE4"
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COMBO "BASE5"
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COMBO "BASE6"
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COMBO "BASE7"
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COMBO "BASE9"
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COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE10"
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COMBO "BASE11"
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COMBO "BASE29"
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COMBO "BASE31"
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COMBO "BASE41"
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COMBO "BASE42"
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COMBO "BASE43"
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COMBO "BASE44"
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COMBO "BASE46"
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COMBO "BASE48"
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COMBO "BASE49"
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COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE68"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE69"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE70"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE71"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE72"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE73"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE74"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE75"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE76"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE77"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE78"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE79"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE80"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE81"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE82"
COMBOFACTOR "BASE10" "DL" 1
COMBOFACTOR "BASE10" "SDL" 1
COMBOFACTOR "BASE10" "WAN" 1
COMBO "BASE83"
COMBOFACTOR "BASE10

COMBOFACTOR 'BASE23' 'DL' 1.2
COMBOFACTOR 'BASE23' 'SDL' 1.2
COMBOFACTOR 'BASE23' 'L' 1.6
COMBOFACTOR 'BASE23' 'WAI' 1.2
COMBO 'BASE24' TYPE DESGN
COMBOFACTOR 'BASE24' 'DL' 1.2
COMBOFACTOR 'BASE24' 'SDL' 1.2
COMBOFACTOR 'BASE24' 'L' 1.6
COMBOFACTOR 'BASE24' 'WAN' 1.2
COMBO 'BASE25' TYPE DESGN
COMBOFACTOR 'BASE25' 'DL' 1.2
COMBOFACTOR 'BASE25' 'SDL' 1.2
COMBOFACTOR 'BASE25' 'L' 1
COMBOFACTOR 'BASE25' 'EXP' 1.4
COMBO 'BASE26' TYPE DESGN
COMBOFACTOR 'BASE26' 'DL' 1.2
COMBOFACTOR 'BASE26' 'SDL' 1.2
COMBOFACTOR 'BASE26' 'L' 1
COMBOFACTOR 'BASE26' 'EYP' 1.4
COMBO 'BASE27' TYPE DESGN
COMBOFACTOR 'BASE27' 'DL' 1.2
COMBOFACTOR 'BASE27' 'SDL' 1.2
COMBOFACTOR 'BASE27' 'L' 1
COMBOFACTOR 'BASE27' 'EXN' 1.4
COMBO 'BASE28' TYPE DESGN
COMBOFACTOR 'BASE28' 'DL' 1.2
COMBOFACTOR 'BASE28' 'SDL' 1.2
COMBOFACTOR 'BASE28' 'L' 1
COMBOFACTOR 'BASE28' 'EYN' 1.4
COMBO 'BASE29' TYPE DESGN
COMBOFACTOR 'BASE29' 'DL' 1.2
COMBOFACTOR 'BASE29' 'SDL' 1.2
COMBOFACTOR 'BASE29' 'L' 1
COMBOFACTOR 'BASE29' 'EXP' -1.4
COMBO 'BASE30' TYPE DESGN
COMBOFACTOR 'BASE30' 'DL' 1.2
COMBOFACTOR 'BASE30' 'SDL' 1.2
COMBOFACTOR 'BASE30' 'L' 1
COMBOFACTOR 'BASE30' 'EYP' -1.4
COMBO 'BASE31' TYPE DESGN
COMBOFACTOR 'BASE31' 'DL' 1.2
COMBOFACTOR 'BASE31' 'SDL' 1.2
COMBOFACTOR 'BASE31' 'L' 1
COMBOFACTOR 'BASE31' 'EXN' -1.4
COMBO 'BASE32' TYPE DESGN
COMBOFACTOR 'BASE32' 'DL' 1.2
COMBOFACTOR 'BASE32' 'SDL' 1.2
COMBOFACTOR 'BASE32' 'L' 1
COMBOFACTOR 'BASE32' 'EYN' -1.4
COMBO 'BASE33' TYPE DESGN
COMBOFACTOR 'BASE33' 'DL' 0.9
COMBOFACTOR 'BASE33' 'SDL' 0.9
COMBOFACTOR 'BASE33' 'EXP' 1.4
COMBO 'BASE34' TYPE DESGN
COMBOFACTOR 'BASE34' 'DL' 0.9
COMBOFACTOR 'BASE34' 'SDL' 0.9
COMBOFACTOR 'BASE34' 'EYP' 1.4
COMBO 'BASE35' TYPE DESGN
COMBOFACTOR 'BASE35' 'DL' 0.9
COMBOFACTOR 'BASE35' 'SDL' 0.9
COMBOFACTOR 'BASE35' 'EXN' 1.4
COMBO 'BASE36' TYPE DESGN
COMBOFACTOR 'BASE36' 'DL' 0.9
COMBOFACTOR 'BASE36' 'SDL' 0.9
COMBOFACTOR 'BASE36' 'EYN' 1.4
COMBO 'BASE37' TYPE DESGN
COMBOFACTOR 'BASE37' 'DL' 0.9
COMBOFACTOR 'BASE37' 'SDL' 0.9
COMBOFACTOR 'BASE37' 'EXP' -1.4
COMBO 'BASE38' TYPE DESGN
COMBOFACTOR 'BASE38' 'DL' 0.9
COMBOFACTOR 'BASE38' 'SDL' 0.9
COMBOFACTOR 'BASE38' 'EYP' -1.4
COMBO 'BASE39' TYPE DESGN
COMBOFACTOR 'BASE39' 'DL' 0.9
COMBOFACTOR 'BASE39' 'SDL' 0.9
COMBOFACTOR 'BASE39' 'EXN' -1.4
COMBO 'BASE40' TYPE DESGN
COMBOFACTOR 'BASE40' 'DL' 0.9
COMBOFACTOR 'BASE40' 'SDL' 0.9
COMBOFACTOR 'BASE40' 'EYN' -1.4
S STRIP DEFINITIONS
XSTRIP '10' 850 842.5 510 842.5 510 562.5 850 562.5
XSTRIP '11' 850 562.5 510 562.5 510 202.5 850 202.5
XSTRIP '12' 310 202.5 310 0 1055 0 1055 202.5
XSTRIP '13' 0 842.5 0 562.5 310 562.5 310 842.5
XSTRIP '14' 310 842.5 310 562.5 510 562.5 510 842.5
XSTRIP '15' 850 842.5 850 562.5 1055 562.5 1055 842.5
XSTRIP '16' 310 562.5 0 562.5 0 202.5 310 202.5
XSTRIP '17' 510 562.5 310 562.5 310 202.5 510 202.5
XSTRIP '18' 1055 562.5 850 562.5 850 202.5 1055 202.5
YSTRIP '19' 850 842.5 510 842.5 510 562.5 850 562.5
YSTRIP '20' 850 562.5 510 562.5 510 202.5 850 202.5
YSTRIP '21' 310 202.5 310 0 1055 0 1055 202.5
YSTRIP '22' 0 842.5 0 562.5 310 562.5 310 842.5
YSTRIP '23' 310 842.5 310 562.5 510 562.5 510 842.5
YSTRIP '24' 850 842.5 850 562.5 1055 562.5 1055 842.5
YSTRIP '25' 310 562.5 0 562.5 0 202.5 310 202.5
YSTRIP '26' 510 562.5 310 562.5 310 202.5 510 202.5
YSTRIP '27' 1055 562.5 850 562.5 850 202.5 1055 202.5
S GROUPS
END
END OF MODEL FILE

B96	850.000	562.500	-86800.581	80439.997	990.19			
B97	850.000	562.500	-84236.947	75882.906	365.39			
B97	935.000	562.500	-101547.027	-104723.978	76719.552	89830.953	365.39	1278.29
B97	995.000	562.500	-57425.129	-68482.876	23439.787	48207.453	1278.29	1225.25
B97	1055.000	562.500	-11868.629	8152.921				1225.25
B118	0.000	562.500	-72398.901	14967.293				442.92
B118	0.000	642.500	-89962.971	-91528.469	19290.420	21893.933	442.92	767.88
B118	0.000	722.500	-102286.160	-96953.273	67687.565	67852.473	767.88	941.02
B118	0.000	782.500	-58943.748	-57719.564	20580.505	28304.634	941.02	862.40
B118	0.000	842.500	-16111.737	6005.340				862.40
B119	310.000	562.500	-43876.565	8901.811				516.92
B119	310.000	642.500	-85230.446	-85321.647	21190.424	18520.148	516.92	621.08
B119	310.000	722.500	-77677.846	-76964.253	49127.841	54106.236	621.08	967.36
B119	310.000	782.500	-52850.175	-50650.221	10241.688	29455.519	967.36	974.76
B119	310.000	842.500	-13561.755	7749.007				974.76
B120	510.000	562.500	-40579.680	13998.562				554.35
B120	510.000	642.500	-84139.808	-80969.638	21707.554	19133.785	554.35	638.75
B120	510.000	722.500	-75587.422	-72521.621	52821.034	57023.489	638.75	986.07
B120	510.000	782.500	-51696.718	-54708.159	11524.841	28903.824	986.07	936.51
B120	510.000	842.500	-9356.260	4927.374				936.51
B121	850.000	562.500	-46538.225	31822.684				593.15
B121	850.000	642.500	-85998.356	-96791.607	33385.122	29852.286	593.15	622.56
B121	850.000	722.500	-89344.209	-92526.299	60539.645	65274.888	622.56	1048.61
B121	850.000	782.500	-59036.994	-70275.134	17196.953	34346.178	1048.61	1241.05
B121	850.000	842.500	-12322.741	11374.095				1241.05
B122	1055.000	562.500	-64759.004	22745.131				413.79
B122	1055.000	642.500	-96856.290	-99434.233	43564.847	44854.626	413.79	599.38
B122	1055.000	722.500	-120531.815	-118447.256	86644.208	84594.738	599.38	975.49
B122	1055.000	782.500	-61217.493	-64593.739	30788.809	58010.028	975.49	1055.82
B122	1055.000	842.500	-12339.170	8456.902				1055.82
B139	0.000	842.500	-13145.582	2081.568				1234.42
B139	60.000	842.500	80560.533	-80786.330	48200.330	38923.836	1234.42	1304.55
B139	120.000	842.500	-148449.624	-151966.453	111732.090	109845.567	1304.55	601.65
B139	215.000	842.500	-114788.961	-112406.981	57442.439	53067.929	601.65	678.33
B139	310.000	842.500	-55472.565	44903.538				678.33
B141	310.000	842.500	-65676.880	57407.826				427.17
B141	410.000	842.500	-46741.238	-42477.611	16903.566	12601.480	427.17	423.00
B141	510.000	842.500	-19560.981	12362.120				423.00
B143	510.000	842.500	-27267.700	9271.825				843.12
B143	595.000	842.500	-62393.475	-63875.347	0.000	0.000	843.12	443.80
B143	680.000	842.500	-99720.192	-102191.055	3994.807	5809.462	443.80	511.55
B143	765.000	842.500	-107902.431	-108747.935	36692.533	38700.327	511.55	1060.83
B143	850.000	842.500	-102349.603	101928.806				1060.83
B145	850.000	842.500	-95286.369	91148.841				460.48
B145	935.000	842.500	-128139.746	-129256.022	124716.413	130155.671	460.48	1490.28
B145	995.000	842.500	-61277.068	-65509.725	43040.231	51439.542	1490.28	1098.97
B145	1055.000	842.500	-9545.603	5405.072				1098.97