

国民宿舍桂浜荘改築工事

構造計算書

平成 5 年 3 月

日建・上田設計委託業務共同企業体

構造計算書

国民宿舎桂浜荘改築工事						構造計算書		縮尺	図番
高知市建 築住宅課	課長	補佐	係長	係	係	日建・上田設計委託業務共同企業体			—
NO. —									

(注) 1. 必要項目は書き入れを、選択形式のものは該当する箇所にチェック後○印を記入して下さい。
2. 「耐震上の基本計算」欄は適用ルートのうち計算結果を採用する項目のみ記入して下さい。
3. ※印項目記入のときは、その内容を構造計算書に明記して下さい。
4. 法令建築事務所または一般建築士事務所の区別は○印で、登録番号は法令は法令建築事務所登録番号を、一般は建築士事務所の登録番号を記入して下さい。

構造チェックリスト —鉄筋コンクリート造—

法令建築事務所名		登録第 号		構造設計事務所名		構造担当者		印	
一般建築士事務所名				構造担当者					
工事名称		国民宿舎桂浜改築工事		工事種別		新築		増築	
敷地位置				用途		国民宿舎			
構造種別・規模		RC造地下1階地上5階		建築延面積		m ²		高さ m	
項目		適用条項		チェック項目					
荷重及び外力	固定荷重	令84		(特記事項のみ記入)					
	積載荷重	令85 資高指		床 小はり 大はり・柱 地震 備考					
	特殊荷重	令83 資		有, (無)					
	積雪荷重	令86 告示1074		最深積雪量 cm 単位荷重 2 kg/m ² /cm 設計採用値 kg/m ²					
	風圧力	令39 告示109 令39の2 1074 令87 1101 指2		速度圧 高さが16m以下の部分 q=60√h 高さが16mをこえる部分 q=120√h 風圧力の低減 有, 無 風圧力の割増 有, 無					
	地震	令39の2 告示1793 令88 1101 通達96 資		1次固有周期T=0.5秒 地盤種別によるTc=0.6 振動特性係数Rt=1.0 地域係数 Z=1.0 標準せん断力係数Co=0.2(1.0) 塔屋震度k=1.0					
	高さ方向分布係数Ai			階 B1 1 2 3 4 5					
	地震層せん断力係数Ci(Co=0.2)			Ai 1.0 1.14 1.26 1.47 1.67 2.06 Ci 0.2 0.23 0.25 0.29 0.33 0.41					
	土圧	令83 資		擁壁に対して KA=0.5 地下外壁に対して KN=0.5					
	水圧	令83		地下水位 GL- m 設計採用水位 GL- m					
使用材料	コンクリート	令74 告示1102 令91 通達769 資		普通コンクリート F=210 kg/cm ² 使用場所 基礎・躯体					
	鉄筋	令90 告示1794 1799		SR ○ SD295, SD345					
地耐力及び耐び力	地盤調査	令93 告示111 指3		敷地内調査 (有) 無・深さ m 荷重支持層の土質 設計採用N値=					
	許容地耐力	令93 告示111 指3		基礎深さ GL- m 計算上の採用 Df= m 長期=50/m ² ・短期=(Df/m ²)					
	くいの許容耐力	令93 告示111 通達246 806 2 指3		くい種 くい径 cm くい厚 cm くい長 m 長期= t/本 短期= t/本 支持ぐいに作用する負の摩擦力の検討 有, 無 施工法 ※引抜きに対し t/本(期)					
	基礎	令38 資		異種基礎の併用 有, (無) (原則として異種基礎の併用は避ける)					
構造計画	増築予定	令38		増築予定の 有, (無) 増築後 階 高さ m					
	特殊構造	告示949		プレストレスコンクリート部分の 有, (無) 有の時, その技術基準					
5	エキスパンション	令81 通達96 資		エキスパンションジョイントの 有, (無) cm 基礎は 一体, 別					
	ラーメンと壁・ブレースの分担比(ラーメン分担%)	指1		階 B1 1 2 3 4 5 X方向 17 29 34 59 44 36 Y方向 0.15 42 32 40 32 25					
	水平力の配分			○ 精算 D値法 ※その他					
	剛性の確保	令32, 令86		床版, はりの変形計算 有, (無) 床版, はりの振動計算 有, (無)					

令……建築基準法施行令 告示……建設省告示 通達……建設省通達
指……建築行政構造連絡指導方針 高指……高層RC造建築物設計指導方針
資……建築構造行政連絡会資料集

項目		適用条項		チェック項目										
耐震上の基本計算	階			階	B1	1	2	3	4	5				
	当該階を支える荷重W	告示1790			6983.6	5495.4	4364.4	2895	1947	957				
	ZWai	令82の2 告示1790		X方向	6983.6	6266.5	5516.0	4253.5	3243.0	1968.3				
	Σ25Aw+Σ7Ac	通達96		Y方向										
	+Σ7Aw'													
	層間変形角	令82の2 通達96 資		X方向	1/6382	1/2715	1/2340	1/2730	1/2603	1/3695				
	1/200以内(1/120以内)			Y方向	1/4536	1/1794	1/1944	1/2545	1/2571	1/3720				
	剛性率	令82の3 通達96 資		X方向	1.871	0.796	0.686	0.8	0.763	1.083				
	0.6以上			Y方向	1.591	0.629	0.682	0.843	0.902	1.304				
	偏心率	令82の3 通達96 資		X方向	0.331	0.217	0.129	0.125	0.114	0.108				
0.15以下			Y方向	0.257	0.186	0.155	0.255	0.239	0.222					
0.75ZWai	告示1791													
Σ25Aw+Σ7Ac	令82の3 通達96 資		X方向											
+Σ7Aw'			Y方向											
ZWai	告示1791		X方向											
Σ18Aw+Σ18Ac	令82の3 通達96 資		Y方向											
柱, はりのせん断破壊の防止	告示1791 令82の3 通達96 資		QSAL(短期せん断許容耐力) ≥ QDC及びQDC(設計用せん断力)の確認 但し, 原則としてQDC=QUC, QDC=QDL+QUC, 検討結果 可, 不可											
計算ルート判定			ルート1 ルート2 X, Y ルート3(保有水平耐力の確認)											
一次設計	電算機利用	通達349		プログラム名 BUILDING-M2 ○ 基本計算 ○ 応力計算 ○ 断面算定 ○ 保有耐力										
	柱のせん断応力			Myによる ○ QEの割増による, 割増係数(1.5) h/hoの割増										
	はりのせん断応力			Myによる ○ QEの割増による, 割増係数(1.5) l/loの割増										
	耐力壁の剛性			内柱のn倍 独立耐力壁 ○ 縁材置換したフレーム プレース置換										
	柱のせん断計算			QAL=b·j·a·fs ○ QAS=b·j·fs+0.5·wf·(pw-0.002)										
	はりのせん断計算			QA=b·j·a·fs+0.5·wf·(pw-0.002)										
	耐力壁			Qi=r·t·e·fs ○ Q2=r·(Qw+ΣQc)										
	基礎ばりの剛比	指1		基礎ばりの内柱に対する剛比 2:1										
	水平力			処理方法 ○ 接地圧 側面土圧 杭の水平抵抗										
	引抜き力			基礎の浮上りの 有, (無)										
二次設計	必要保有水平耐力	令82の4 告示1792 通達96 資		階	B1	1	2	3	4	5				
	構造特性係数Ds			X方向	0.4	0.4	0.35	0.35	0.35	0.35				
	形状特性係数Fes			Y方向	0.4	0.35	0.4	0.4	0.4	0.4				
	必要保有水平耐力Qun			X方向	1.5	1.22	1.0	1.0	1.0	1.0				
				Y方向	1.36	1.12	1.02	1.35	1.3	1.24				
				X方向	4190.1	3065.5	1930.5	1488.7	1135.1	688.9				
				Y方向	3787.4	2456.5	2240.2	2249.3	1680.5	975.7				
	算出方法			節点振分け法 仮想仕事法 ○ 精解折, その他										
	耐力壁	令82の4 告示1794 96 1795 98 1799 99 通達96 資		境界ばり効果 ○ 直交ばり効果 ○ 基礎の回転										
	保有水平耐力Qu			X方向	4319.1	3159.9	1990.	1534.5	1170.	710.2				
			Y方向	3904.1	2532.2	2309.2	2370.1	1732.2	1005.7					
法令11	構造部材規定		令73, 令77, 77の2, 令78, 78の2, 令79, 告示1106, 通達96 ○ チェック済											

昭和58年1月改訂

大阪府下特定行政庁会議
(社)大阪建築士事務所協会 制定

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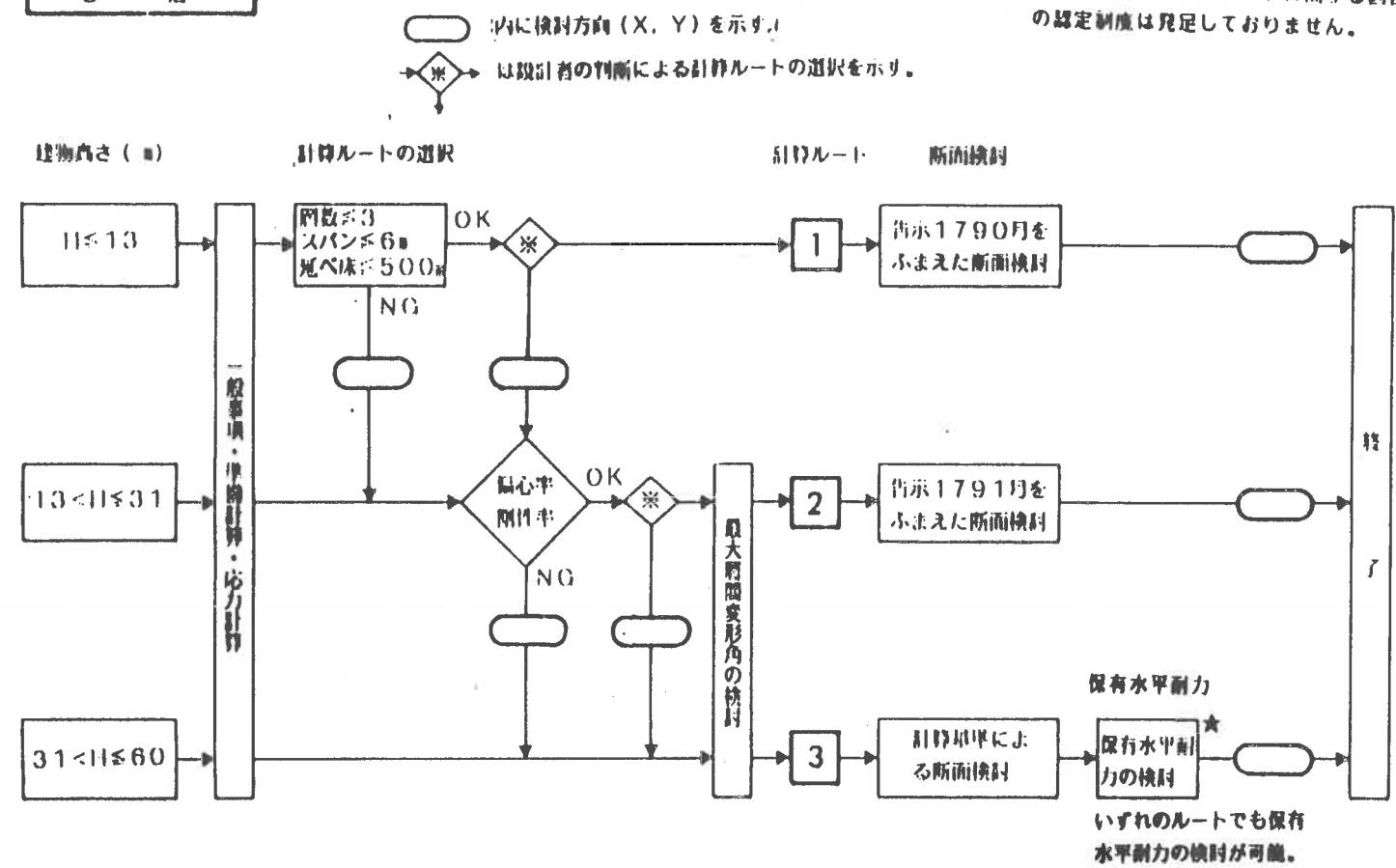
構造設計担当者

構造計算書担当者

角 三 一
五 十

S 造

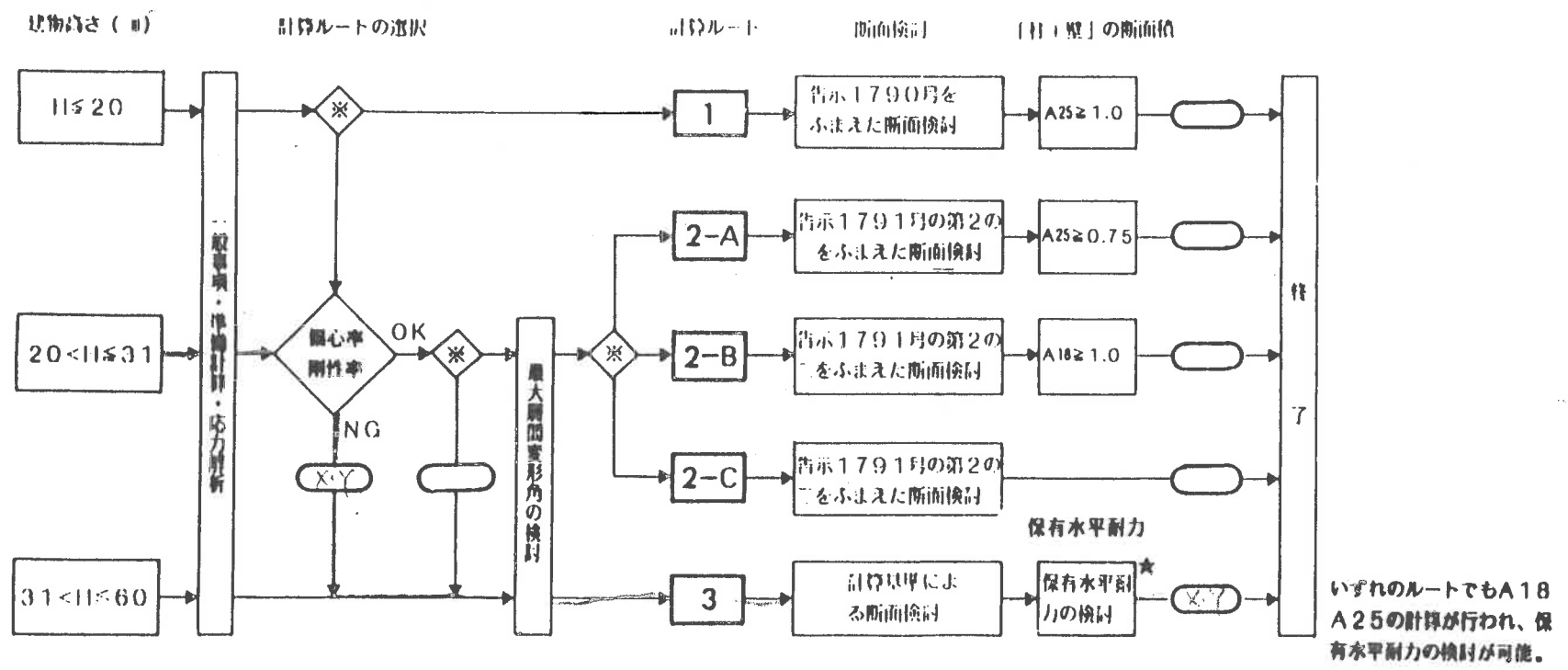
★ 保有水平耐力の計算ルートに関する図面省略の認定制度は見えておりません。



RC・SRC造

○内に検討方向 (X, Y) を示す。
※ は設計者の判断による計算ルートの選択を示す。

$$\begin{aligned}
 A_{25} &= (25A_w + 7A_c) / ZWAI & (RC) \\
 &= (25A_w + 10A_c + 7A_w) / ZWAI & (SRC) \\
 A_{18} &= (18A_w + 18A_c) / ZWAI & (RC) \\
 &= (20A_w + 20A_c) / ZWAI & (SRC)
 \end{aligned}$$



この構造計算書の全部、または、一部を建設省指定プログラムによりコンピューター処理しましたので、建築基準法施行規則第1条第1項の規定に基づき、構造計算書のうち応力算定及び断面算定に係る計算過程としてのプログラムを省略します。

- プログラムの名称
BUILDING-M2
- コンピューターシステムの名称及び概要
IBM DOS/VS、OS/VS1 (SVS) または OS/VS2 (MVS) のもとで動くシステム。
- 建設省指定番号及び官報告示番号 (ルート1及び2) (ルート3に關する認定制度は規定していません)
建設省指定番号 建設省版仕指第 85 号 (昭和56年8月20日)

- 日本建築センター評定番号
BUILDING-M2評定番号 (ルート1及び2) BCJ-高24 (昭和56年5月22日)
(ルート3) BCJ-高24通1 (昭和56年9月4日)

BUILDINGシステムは、建物形状と使用材料を入力することにより、平面計算→応力解析→断面検討→保有水平耐力の構造計算を自動的にを行い、同時に構造計算書と出力するソフトウェアシステムで、30階までのビル建築やプラント架台を対象にしている。各種の計算に使われている仮定条件と理論の妥当性、及び計算結果の信頼性は、日本建築センターの専用プログラム評定委員会により確認され、建設省指定プログラムとして承認されている。

【構造計算書の構成】

- 建物概要・設計方針など..... (手書) + (計算ルート図) + (制約モードとD値の設定)
- 適用範囲チェックリスト..... 建物がシステムの適用範囲にあることを確認 (手書)
- 保有水平耐力の検討に關するチェックリスト
- 終了メッセージ表..... システムの自動状態をまとめた表 (システムの出力)
- 変位・剛性率・偏心率など..... 「柱+壁」断面柱・断面梁・剛性率・偏心率・検討表 (システムの出力)
- 一般事項→保有水平耐力の検討..... (システムの出力)
- 部材・その他の検討..... システムで扱えない部材などの検討 (手書)
- インプットデータ..... インプットデータ式のまとめ (システムの出力)

(注) システムの出力の右欄にある日付・時刻が全て同じであることを確認する。

【終了メッセージ表の見方】

各計算項目ごとに、システムの自動状態と入力データの状態が出力される。

- (ERROR DATA)..... システム利用上のルール違反を見ている入力データの誤差を示しており、合計の欄がゼロになっていることを確認する。
- (NO GOOD)..... 断面検討基準に適合しない部材の本数を示しており、合計欄のゼロを確認する。ゼロでないときは、その影響の検討について確認する。
- (CAUTION)..... 次の8種の要注意のメッセージと 鉛直荷重時応力及び水平荷重時応力の解析に用いられた解法 (マトリックス法、固定モーメント法、またはD値法) がプリントされる。

*SM58-STEEL IS USED.

SM58の鋼材が使用されていることを示しており、建築基準法第38条による建設大臣の承認を受けていることを確認する。

*COLUMN INCLINED FROM Z-AXIS.

斜め柱があることを示しており、角度が大きい場合は、応力解析に誤差が生じるのでその影響の検討について確認する。

*GIRDER INCLINED FROM X, Y-AXIS.

水平荷重時応力の解法がD値法の場合、X・Y軸とのなす角度が15°を超える大梁があることを示しており、D値法では応力解析の誤差が大きくなるので、その影響の検討について確認する。

*ASSUMED FRAME-AXIS INCLINED FROM X, Y-AXIS.

応力の解法がマトリックス法の場合、X・Y軸とのなす角度が15°を超える応力解析用大梁があることを示しており、応力解析の誤差が大きくなるので、その影響の検討について確認する。

*GIRDER INCLINED FROM ASSUMED FRAME-AXIS.

応力解析用に仮定された中折れ大梁とのなす角度が、15°を超える大梁があることを示しており、応力解析の誤差が大きくなるので、その影響について確認する。

*NATURAL PERIOD OF FIRST MODE.

計算に用いられた固有周期が標準で算出された値より大きいことを示している。

*MAX ECCENTRICITY=0. **, MIN RIGIDITY RATIO=0. **

偏心率の最大値と剛性率の最小値を示している。

*STANDARD VALUE IS CHANGED

保有水平耐力の検討に關して本システムに決められている標準値がインプットデータによって変更されたことを示している。

この構造計算書は標記システムを用いて作成したので、設計した建物がシステムの適用範囲に適合しているか否かを確認する。回答欄の○印が“有”の設問については適用範囲外となるが、①実際の建物をどのように修正して入力したか、②その修正の影響に対する安全性の検討を本文の中で説明し、その説明箇所を 内に示した。

耐震設計をルート3 (保有水平耐力の検討) によって行なった場合には保有水平耐力の検討に關するチェックリストを次頁に添える。

(例: 26頁の※3の箇所)

(一般事項)	回答欄	頁	個所
1. 直接インプットした層せん断力係数	(無)・有	<input type="text"/>	-
(建物形状)			
2. XまたはY架構に含まれない柱・大梁	(有)・無	<input type="text"/>	-
3. 同一方向の架構が交叉する箇所	(有)・無	<input type="text"/>	-
4. 建物の規模・部材数の制限を満足しない箇所	(有)・無	<input type="text"/>	-
5. 格子ラーメン (大梁同志の交点に柱がない構造)	(有)・無	<input type="text"/>	-
6. 片持柱・陸立柱 (基礎で支持されない柱)	(有)・無	<input type="text"/>	-
7. 同一階に大梁の段違いがある架構	(有)・無	<input type="text"/>	-
8. 水平でない梁、途中で曲った柱・梁	(有)・無	<input type="text"/>	-
9. RC・SRC・S造以外の部材	(有)・無	<input type="text"/>	-
10. S造でRC壁がある箇所	(有)・無	<input type="text"/>	-
11. 建物形状の項でインプットできなかった部分	(有)・無	<input type="text"/>	-
(鉛直荷重時応力)			
12. 基礎が不同沈下を起す可能性	(有)・無	<input type="text"/>	-
13. 片側土圧や機械の振動により生じる水平力	(有)・無	<input type="text"/>	-
(水平荷重時応力)			
14. 剛床の仮定が成立しない箇所	(有)・無	<input type="text"/>	-
15. 重心と剛心の不一致によるねじれを考慮する必要	(有)・無	<input type="text"/>	-
16. 柱の伸縮・基礎の沈下の影響を考慮する必要	(有)・無	<input type="text"/>	-
(注) 水平荷重時応力をD値法で求める場合の耐震壁・ブレースの 水平力分担係数は、インプット・アウトプットとも標準柱 (D=1.0) に対する倍率を示している。			
(断面検討)			
17. 端部・中央以外の位置に最大応力が生じる梁	(有)・無	<input type="text"/>	-
18. 大きな軸力が生じる大梁 (斜め柱があるときなど)	(有)・無	<input type="text"/>	-
19. ボルト穴などの断面欠損がある鉄骨の組立材	(有)・無	<input type="text"/>	-
(手書き項目)			
20. 下記の検討項目は標記システムでは扱えない。手書きした項目を○印で示す。			

建物の転倒・クリープ・温度応力・丸柱・柱の2軸曲げ・梁の撓み・梁のハンチ端
小梁・スラブ・地下外壁・布基礎・杭支持力・杭の水平抵抗・地耐力
梁の補剛間隔・シャープパネル・仕口強度・継手強度・ブレース端部強度

BUILDING-M2

保有水平耐力の検討に関するチェックリスト

保有水平耐力の検討は標記システムを用いて作成した。ここでは設計した建物の保有水平耐力計算、および検討結果を確認する為にシステムの出力から重要と思われる諸数値を書き写す。さらに一般事項については入力の確認をする。

(例: 26-※ 3)26頁の※ 3の箇所)

(一般事項)

回答欄 頁 個所

- 1. スラブ筋を考慮しなくて良い部分 (無・有) -
- 2. 材料の基準強度を割増さない部分 (無・有) -
- 3. 部材の終局耐力の計算に長期応力を無視する部分 (無・有) -
- 4. 曲げせん断壁 (※※BS・WALL) の標準値を修正する部分 (無・有) -
- 5. せん断壁 (※※S・WALL) の標準値を修正する部分 (無・有) -
- 6. 保有水平耐力の計算 (※※CALCULATION OF QU) に際し標準値を修正する部分 (無・有) -

(保有水平耐力)

	X方向	Y方向
保有水平耐力時の荷重係数 (必要保有耐力に対する比率)	1.03	1.03
上記荷重係数時が終局状態になる	NO YES (設計方針)	NO YES (設計方針)
ラーメン架構のダクティリティファクターの範囲	-	-
耐震壁のせん断変形のダクティリティファクターの範囲	-	-
耐震壁境界梁のダクティリティファクターの範囲	-	-

保有水平耐力の検討法

保有水平耐力の検討は、インプットにより設定された条件に基づき必要保有水平耐力を求め、この荷重分布を用いて荷重増分法による疑似立体弾塑性解析を行い建物の保有水平耐力を求め、これが必要保有水平耐力より上回る事を確認し、解析終了後に始めの設定が安全側であることを確認することにより行なう。以下の計算は建築基準法・同施行令、建設省告示に従い、建設省監修による「改正建築基準法施行令新耐震に基づく構造計算指針・同解説」、日本建築学会「建築耐震設計における保有水平耐力と変形性能」に準拠して行なう。

本システムは建物の形状、部材の大きさ、配筋等をすべてインプットによることにし、自動的に断面を決定する方法を用いていないため、次頁に示す計算概要図のように1次設計、2次設計を一貫して処理することができる。

A 必要保有水平耐力の設定

必要Ds 値は、インプットにより指定した階ごとのラーメン架構および耐震要素の変形性能の種別と耐震要素（耐震壁、ブレース）の分担率による種別および構造種別（RC・SRC・S）から算定する。

B 保有水平耐力の評価

- (1) 計算方式……………荷重増分法による弾塑性解析法による。
- (2) 外力分布……………必要保有水平耐力と相似な外力分布形とする。
- (3) 振れの考慮方法……………剛床仮定に基づく疑似立体モデルを用いる。
- (4) せん断破壊部材を含むときの保有水平耐力評価法

……………はり・柱がせん断破壊する時は、せん断耐力を用いて材端の曲げ耐力を補正する。

耐震壁については、せん断変形角がインプットにより指定した許容塑性率に達した時点で計算を終了することにより評価する。

この時、純ラーメン構造等の剛性の低い架構は最大耐力を発揮し得ないこと、および耐震壁群の変形性能のランクが悪条件の方に移動することが考慮される。

(5) 部材の耐力評価法

……………はり・柱・耐震壁の曲げ耐力、せん断耐力は上記の基準、指針に従い計算する。

特に鉄筋コンクリート部材の場合、はりの曲げ耐力はスラブ筋を考慮し、せん断耐力式には下に示す安全側の式を用いている。

鉄筋コンクリートはり

$$Q_u = \left\{ \frac{0.053 p_u^{0.23} (F_c + 180)}{M / (Q_u \cdot d) + 0.12} + 2.7 \sqrt{p_u \cdot \sigma_u} \right\} b \cdot j \quad (\text{kg})$$

鉄筋コンクリート柱

$$Q_u = \left\{ \frac{0.053 p_u^{0.23} (F_c + 180)}{M / (Q_u \cdot d) + 0.12} + 2.7 \sqrt{p_u \cdot \sigma_u} \right\} b \cdot j + 0.1 \sigma_u \cdot b \cdot j \quad (\text{kg})$$

……………腰壁、垂れ壁、袖壁、開口の大きな雑壁は はり・柱を等価な剛域付き部材とす

ることによって考慮し、耐力の算定にも算入する。

……………鋼材等の材料強度は昭和55年建設省告示1794号に従う。

……………直交壁、直交境界ばりは無視するがインプットにより剛性、耐力等を修正することによって考慮できる。

C 必要保有水平耐力の評価

(1) Ds の評価方法

弾塑性解析終了後に以下に示す破壊形式の判定および耐震壁の耐力分担率を求め、Aにおける設定が安全側であるかどうかの判定を行うことにより計算に用いたDs の妥当性を評価する。

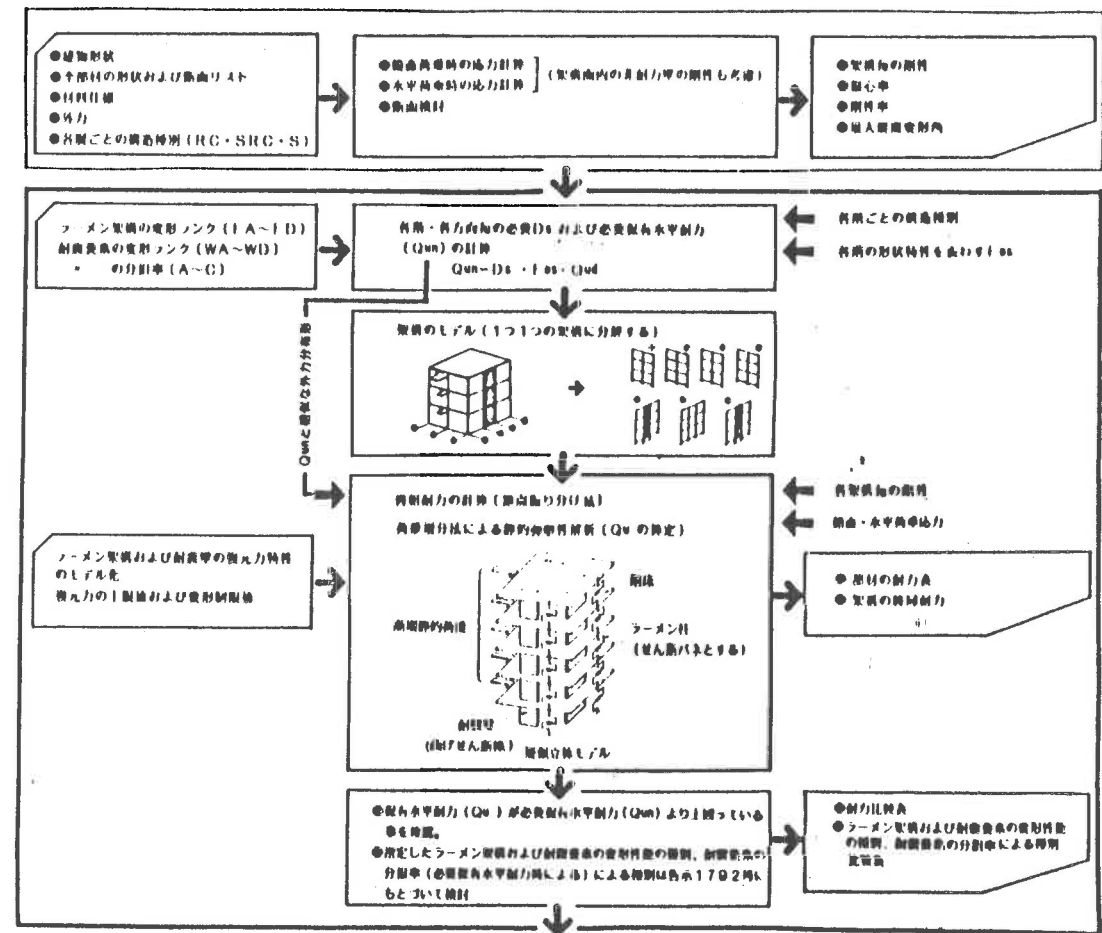
(2) せん断破壊の有無の判定法

弾塑性解析を行なうために、ラーメン架構は各架構別、各層ごとに図に示す様に弾塑性せん断バネに置換するが、このバネのせん断耐力は節点振り分け法によってメカニズムを作り計算する。柱がせん断破壊部材か否かの判定は、このメカニズム時の応力に基づいて計算する。ただし柱のせん断耐力がこの応力の1.2倍以下のときは柱はせん断破壊部材とする。

(3) 部材の破壊形式の判定は前記メカニズム時の応力と、建物形状により判断されるho, D等を用いて行う。

(4) 壁の耐力負担率βは弾塑性解析終了時の結果より求める。

FIGURE 2-2-1 保有水平耐力計算概要図



CONDITION OF BUILDING INPUT DATA

DATE=04/08/93 , TIME=15.48.48

BUILDING-M2 終了 X-2

NAME OF SUB-SYSTEM	I	ERROR DATA	I	NO GOOD	I	CONDITION OF EXECUTION	I	CAUTION
*GO	I	0	I	---	I	EXECUTED COMPLETELY	I	GIRDER INCLINED FROM ASSUMED FRAME-AXIS
*GENERAL	I	0	I	---	I	EXECUTED COMPLETELY	I	
*BUILDING SHAPE	I	0	I	---	I	EXECUTED COMPLETELY	I	
*PRECHECK	I	0	I	---	I	EXECUTED COMPLETELY	I	
*STRUCTURAL MODEL	I	0	I	---	I	EXECUTED COMPLETELY	I	
*C, MO, QO	I	0	I	---	I	EXECUTED COMPLETELY	I	
*AXIAL FORCE	I	0	I	---	I	EXECUTED COMPLETELY	I	
*SEISMIC FORCE	I	0	I	---	I	EXECUTED COMPLETELY	I	
*VERTICAL STRESS	I	0	I	---	I	EXECUTED COMPLETELY	I	BY MATRIX METHOD
*DISTRIBUTE OF H.F.	I	0	I	0	I	EXECUTED COMPLETELY	I	MAX ECCENTRICITY = 0.33
*HORIZONTAL STRESS	I	0	I	---	I	EXECUTED COMPLETELY	I	MIN RIGIDITY RATIO = 0.63
*TABLE OF STRESS	I	0	I	---	I	NOT EXECUTED	I	MAX OF DEF/HEIGHT = 1/1229.
*GIRDER CHECK	I	0	I	0	I	EXECUTED COMPLETELY	I	BY MATRIX METHOD
*COLUMN CHECK	I	0	I	0	I	EXECUTED COMPLETELY	I	
*WALL CHECK	I	0	I	0	I	EXECUTED COMPLETELY	I	
*FOUNDATION CHECK	I	0	I	0	I	NOT EXECUTED	I	
*CHECK OF B.CAPA.	I	0	I	0	I	EXECUTED COMPLETELY	I	*STANDARD VALUE IS CHANGED
*ASEISMIC ASSESSENTI	I	0	I	0	I	NOT EXECUTED	I	
	I		I		I		I	(B.S.WALL, S.WALL)
TOTAL	I	0	I	0	I		I	

=== YOUR DATA WAS COMPLETE ===

END OF BUILDING

 CHECK IN NOTICE NO-1790,NO-1791 BY MINISTRY OF CONSTRUCTION

 (11/27/1980)

DATE=04/08/93 , TIME=15.48.48

壁量の検討

$$\begin{aligned} A25 &= (25AW + 7 AC + 7AW^*) / ZWAI & (RC) \\ &= (25AW + 10 AC + 7AW^*) / ZWAI & (SRC) \\ A18 &= (18AW + 18 AC) / ZWAI & (RC) \\ &= (20AW + 20 AC) / ZWAI & (SRC) \end{aligned}$$

++ X-DIRECTION ++

----- ROUTE=3 REFERENCE -----

FL.	I	I	I	I	I	I	I	I	I	I	I	I	I	I		
	I	AW	I	AC	I	AW*	I	W	I	AI	I	A25	I	A18	I	JUDGEMENT
	I	(M**2)	I	(M**2)	I	(M**2)	I	(T)	I		I		I		I	
5 (RC)	I	2.35	I	14.96	I	7.73	I	956.9	I	2.057	I	1.10	I	1.58	I	
4 (RC)	I	2.35	I	14.96	I	7.73	I	1946.9	I	1.666	I	0.67	I	0.96	I	
3 (RC)	I	2.34	I	15.65	I	2.11	I	2894.6	I	1.469	I	0.43	I	0.76	I	
2 (RC)	I	4.27	I	21.45	I	2.11	I	4364.4	I	1.264	I	0.49	I	0.84	I	
1 (RC)	I	7.17	I	21.45	I	2.11	I	5495.4	I	1.140	I	0.55	I	0.82	I	
B1 (RC)	I	18.89	I	29.91	I	0.00	I	6983.6	I	1.000	I	0.98	I	1.26	I	

++ Y-DIRECTION ++

----- ROUTE=3 REFERENCE -----

FL.	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	I	AW	I	AC	I	AW*	I	W	I	AI	I	A25	I	A18	I	JUDGEMENT	I
	I	(M**2)	I	(M**2)	I	(M**2)	I	(T)	I		I		I		I		I
5 (RC)	I	4.10	I	15.46	I	1.47	I	956.9	I	2.057	I	1.12	I	1.79	I		I
4 (RC)	I	4.10	I	15.46	I	1.47	I	1946.9	I	1.666	I	0.68	I	1.09	I		I
3 (RC)	I	5.24	I	16.15	I	0.87	I	2894.6	I	1.469	I	0.59	I	0.91	I		I
2 (RC)	I	4.56	I	21.95	I	0.87	I	4364.4	I	1.264	I	0.50	I	0.87	I		I
1 (RC)	I	3.48	I	21.95	I	0.86	I	5495.4	I	1.140	I	0.39	I	0.73	I		I
B1 (RC)	I	15.18	I	30.41	I	0.36	I	6983.6	I	1.000	I	0.85	I	1.18	I		I

[illegible][illegible][illegible]

保有水平耐力の検討結果 (X方向)

DATE=04/08/93 , TIME=15.48.48

[illegible]

保有耐力の検討結果 (Y方向)

DATE=04/08/93 , TIME=15.48.48

FLOOR TYPE	HEIGHT (M)	ASSUMED RANK OF STRUCTURE AND QU.NEED I CALCULATED I	CHECK OF STRUCTURAL RANK
		CLMN WALL BETA DS FS FE QUN (T) QU (T)	---- COLUMN ---- -- WALL,BRACE -- WALL,BRACE BETA RANK WA WB WC WD RANK
R	26.000	(A) (A) (C) 0.40 1.00 1.24 975.7	101 0 0 0 (A) 100 0 0 0 (A) 0.33 (C)
5	21.700	(A) (A) (C) 0.40 1.00 1.30 1680.5	99 1 0 0 (A) 100 0 0 0 (A) 0.79 (C)
4	18.100	(A) (A) (C) 0.40 1.00 1.35 2299.3	99 0 1 0 (A) 100 0 0 0 (A) 0.80 (C)
3	14.300	(A) (A) (C) 0.40 1.00 1.02 2240.2	100 0 0 0 (A) 100 0 0 0 (A) 0.85 (C)
2	8.500	(A) (A) (B) 0.35 1.00 1.12 2456.5	96 4 0 0 (A) 100 0 0 0 (A) 0.68 (B)
1	4.500	(A) (A) (C) 0.40 1.00 1.36 3787.4	98 2 1 0 (A) 100 0 0 0 (A) 0.94 (C)
B1	0.000		

建物形状・準備計算

A	軸方向変形用断面積 (m^2)
AS	鉄骨断面の寸法 (mm)
B	せん断変形用断面積 (m^2)
B	コンクリート断面の巾 (mm)
B	鉄骨断面の寸法 (mm)
BETA	耐震壁のせん断剛性低下率
CIX, CIY	せん断力係数
CO	標準せん断力係数
D	コンクリート断面の成 (mm)
DS/DT	部材を強制変形させたときの、せん断変形の全変形に対する割合
E	ヤング係数 (t/cm^2)
FA	付着応力度 (kg/cm^2)
FC	圧縮応力度 (kg/cm^2)
FS	せん断応力度 (kg/cm^2)
FT	引張り応力度 (kg/cm^2)
G	せん断弾性係数 (t/cm^2)
GAMMA	耐震壁の開口による、せん断剛性低下率
H	架構の応力解析用階高 (m)
I	断面二次モーメント (cm^4)
K'	剛比
KAPPA	断面形状によって決まるせん断変形係数
KX, KY	震度
L	材長、柱中心間距離 (m)
L1, L2	ブレース長さ (左下り、右下り) (m)
O. R. -BAR	壁の開口補強筋
RT, RB, RL, RR	剛域長 (m)
T	耐震壁の厚さ (mm)
TC	地盤種別に応じて決る係数
TX, TY	建物の一次固有周期
W	建物重量
Z	地域係数
D. L	固定荷重
L. L	積載荷重
Q	層せん断力 (t)
SHEAR COEFF	せん断力係数

応力計算

CENTER OF SHEAR FORCE	せん断力中心
CENTER OF RIGIDITY	剛心
C. R.	剛心の位置 (X, Y座標)
C. SF.	層せん断力の中心位置 (X, Y座標)
DEFL. C	重心位置の層間変位
DEFL. MAX	最大層間変位
DF/DT	層せん断力に占める柱のせん断力の比率
E. X	X方向偏心量
EX/RX	Y方向偏心率
E. Y	Y方向偏心量
EY/RX	X方向偏心率
H	層せん断力 (t)
H/D. C	重心位置の層間変位の逆数
H/D. MAX	最大層間変位の逆数

断面検討

B	梁巾
D	梁成
DT	鉄筋の重心位置
L	スパン
M	節点の曲げモーメント ($t \cdot m$)
MA	許容曲げモーメント ($t \cdot m$)
MF	フェースモーメント ($t \cdot m$)
MY/L	梁の降伏曲げモーメントによるせん断力 (t)
Q'	RCの水平荷重時せん断力 (t)
QA	許容せん断力 (t)
QAA	付着による許容せん断力 (t)
QD	設計用せん断力 (t)
QL	長期材端せん断力 (t)
QQ	単純梁として求めた長期材端せん断力 (t)
DX, DY	柱の巾
M	節点の曲げモーメント ($t \cdot m$)

MY/H	梁の降伏曲げモーメントによる柱のせん断力 (t)
N	柱軸力 (t)
Q	応力解析によるせん断力 (t)
GAMMA	開口によるせん断耐力低下率
L	付帯柱の中心間距離 (mm)
PS	せん断補強筋比 (水平・鉛直方向同じとする)
PW	付帯柱の帯筋比
Q1	コンクリート断面による許容せん断力 (t)
Q2	壁筋と付帯柱による許容せん断力 (t)
QC	付帯柱の許容せん断力 (t)
QW	壁筋による許容せん断力 (t)
T	壁厚 (mm)
TAU	コンクリートの平均せん断応力度 (開口無視) (kg/cm^2)
AT	鉄筋断面積 (cm^2)
FE	設計用接地圧 (t/m^2)
FEA	許容地耐力度 (t/m^2)
LD	鉄筋の必要のみこみ長さ (mm)
QP	パンチングシャー
QPA	許容パンチングシャー

保有水平耐力

GAMMA	耐震壁のせん断変形角
MB	耐震壁の脚部の曲げモーメント比
MG	境界梁パネの回転角の塑性率
MT	耐震壁の頭部の曲げモーメント比
QU	計算された保有水平耐力
QUN	必要保有水平耐力

2 - 1 OUTLINE OF BUILDING

(TYPICAL STRUCTURAL TYPES)				(COEFFICIENTS OF USED MATERIALS)				(ROUTE OF CALCULATION)		
FLOOR	COLUMN	GIRDER	BEAM FLOOR	KIND	DENSITY (T/M*3)	YOUNG'S MODULUS (T/CM*2)	(RATIO)	HEIGHTS (M)	/---X---/ ROUTE=3	/---Y---/ ROUTE=3
R	(RC)	(RC)	(13)	FC210	2.30	215.2	1.00	26.000	(RC)	(RC)
5	(RC)	(RC)	(2)	FC210	2.30	215.2	1.00	21.700	(RC)	(RC)
4	(RC)	(RC)	(2)	FC210	2.30	215.2	1.00	18.100	(RC)	(RC)
3	(RC)	(RC)	(2)	FC210	2.30	215.2	1.00	14.300	(RC)	(RC)
2	(RC)	(RC)	(2)	FC210	2.30	215.2	1.00	8.500	(RC)	(RC)
1	(RC)	(RC)	(2)	FC210	2.30	215.2	1.00	4.500	(RC)	(RC)
B1	(RC)	(RC)	(7)	FC210	2.30	215.2	1.00	0.000	(RC)	(RC)
				STEEL	7.85	2100.0	9.759			
(**) = FLOOR LOAD NUMBER				(DENSITY) - RC'S = CONCRETE'S + 0.10 SRC'S = CONCRETE'S + 0.20				(BY BUILDING-STANDARD-LAW)		

2 - 2 ALLOWABLE UNIT STRESSES

DIM.=(KG/CM*2)

(MATERIAL)	(CLASSIFICATIONS)	(FOR PERMANENT STRESSES)				(FOR TEMPORARY STRESSES)			
		COMP. (FC)	TENS. (FT)	SHEAR (FS)	BOND (FA) TOP GENERAL	COMP. (FC)	TENS. (FT)	SHEAR (FS)	BOND (FA) TOP GENERAL
CONCRETE	FC210 (R FL--B1FL)	70.0	--	7.00	-- --	140.0	--	10.50	-- --
BAR	SD295 (D10----D19)	2000	2000	2000	14.0 21.0	3000	3000	3000	21.0 31.5
	SD345 (D22----D25)	2200	2200	2000	14.0 21.0	3500	3500	3000	21.0 31.5
STEEL	SS400 (UP TO 40)	1600	1600	924		2400	2400	1386	
	(OVER 40)	1467	1467	847		2200	2200	1270	

(EXPLANATION OF ROOMS)		(USED FL)	(CONTENTS OF DEAD LOAD)		(FLOOR LOAD LIST FOR DESIGN)			(REMARKS)	
NUMBER			SLAB FINISH		FLOOR FRAME SEISM.				
(1)	B1F MACHINE -----	(5 - B1)	WEIGHT	360	250	DEAD	610	610	610
			THICK.	150	--	LIVE	500	400	200
			DENSITY	2.40	--	TOTAL	1110	1010	810
(2)	IPPAN UKA OFFICE -	(5 - B1)	WEIGHT	360	90	DEAD	450	450	450
			THICK.	150	--	LIVE	300	180	80
			DENSITY	2.40	--	TOTAL	750	630	530
(3)	KYAKU RM. NON BEAM	(5 - B1)	WEIGHT	432	90	DEAD	522	522	522
			THICK.	180	--	LIVE	180	130	60
			DENSITY	2.40	--	TOTAL	702	652	582
(4)	KENSYUU ROOM -----	(5 - B1)	WEIGHT	360	90	DEAD	450	450	450
			THICK.	150	--	LIVE	360	330	210
			DENSITY	2.40	--	TOTAL	810	780	660
(5)	STAIR -----	(5 - B1)	WEIGHT	600	90	DEAD	690	690	690
			THICK.	250	--	LIVE	300	180	80
			DENSITY	2.40	--	TOTAL	990	870	770
(6)	W.C -----	(5 - B1)	WEIGHT	360	250	DEAD	610	610	610
			THICK.	150	--	LIVE	180	130	60
			DENSITY	2.40	--	TOTAL	790	740	670
(7)	B1 TYUBO -----	(B1 - B1)	WEIGHT	360	300	DEAD	660	660	660
			THICK.	150	--	LIVE	180	130	60
			DENSITY	2.40	--	TOTAL	840	790	720
(8)	RESTAURANT HALL --	(5 - B1)	WEIGHT	360	90	DEAD	450	450	450
			THICK.	150	--	LIVE	360	330	210
			DENSITY	2.40	--	TOTAL	810	780	660
(9)	OOHIROMA -----	(5 - B1)	WEIGHT	360	90	DEAD	450	450	450
			THICK.	150	--	LIVE	360	330	210
			DENSITY	2.40	--	TOTAL	810	780	660
(10)	YOKUSO W-SLAB -----	(3 - 3)	WEIGHT	432	740	DEAD	1172	1172	1172
			THICK.	180	--	LIVE	850	780	740
			DENSITY	2.40	--	TOTAL	2022	1952	1912
(11)	YOKUSHITU W-SLAB -	(3 - 3)	WEIGHT	360	740	DEAD	1100	1100	1100
			THICK.	150	--	LIVE	230	180	110
			DENSITY	2.40	--	TOTAL	1330	1280	1210
(12)	TENBO DEKKI -----	(R - B1)	WEIGHT	720	300	DEAD	1020	1020	1020
			THICK.	300	--	LIVE	180	130	60
			DENSITY	2.40	--	TOTAL	1200	1150	1080

(EXPLANATION OF ROOMS) (USED FL) (CONTENTS OF DEAD LOAD) (FLOOR LOAD LIST FOR DESIGN) (REMARKS)

NUMBER				SLAB FINISH		FLOOR FRAME SEISM.			
(13)	RF YANE -----	(R - R)	WEIGHT	432	300	DEAD	732	732	732
			THICK.	180	--	LIVE	180	130	60
			DENSITY	2.40	--	TOTAL	912	862	792
(14)	HALL W-SLAB 15+18	(3 - 3)	WEIGHT	360	740	DEAD	1100	1100	1100
			THICK.	150	--	LIVE	410	380	260
			DENSITY	2.40	--	TOTAL	1510	1480	1360
(15)	E.V MACHINE -----	(R - R)	WEIGHT	432	300	DEAD	732	732	732
			THICK.	180	--	LIVE	3000	3000	3000
			DENSITY	2.40	--	TOTAL	3732	3732	3732
(16)	5F-2F YANE -----	(5 - 2)	WEIGHT	360	300	DEAD	660	660	660
			THICK.	150	--	LIVE	180	130	60
			DENSITY	2.40	--	TOTAL	840	790	720
(17)	CAFE DEKKI -----	(1 - 1)	WEIGHT	360	300	DEAD	660	660	660
			THICK.	150	--	LIVE	360	330	210
			DENSITY	2.40	--	TOTAL	1020	990	870
(18)	TYUUBO -----	(B1 - B1)	WEIGHT	360	300	DEAD	660	660	660
			THICK.	150	--	LIVE	300	180	80
			DENSITY	2.40	--	TOTAL	960	840	740
(19)	CAR LOAD -----	(1 - B1)	WEIGHT	360	250	DEAD	610	610	610
			THICK.	150	--	LIVE	550	400	200
			DENSITY	2.40	--	TOTAL	1160	1010	810
(20)	CANTI SLAB -----	(1 - 1)	WEIGHT	360	100	DEAD	460	460	460
			THICK.	150	--	LIVE	180	130	60
			DENSITY	2.40	--	TOTAL	640	590	520

 WARNING MEMO SK02E-----32 IN SK02 (*BUILDING SHAPE)

CARD-NO 459 0-----1-----2-----3-----4-----5-----6-----7-----8
 G RB1X90RC S ¥=(OVER INPUT)
 ¥

NO.	I	C.	I	LOAD - 1		I	LOAD - 2		I
				Q(T/M)	LB (MM)		Q(T/M)	LB (MM)	
=====	I	=====	I	=====	I	=====	I	=====	I
Q-Q1	I		I	2.000	I		I		I
-----	I	-----	I	-----	I	-----	I	-----	I

2 - 4 SHEAR COEFFICIENT

++ X-DIRECTION ++ TX = 0.54 SEC TC = 0.60 SEC CO = 0.20 Z = 1.00

FLOOR	NAME	H (M)	W (T)	R	AIX	CIX	KX	W * CIX (T)
R		26.000						
5		21.700	956.9	0.137	2.057	0.411	0.411	393.7
4		18.100	1946.9	0.279	1.666	0.333	0.258	648.6
3		14.300	2894.6	0.414	1.469	0.294	0.213	850.7
2		8.500	4364.4	0.625	1.264	0.253	0.172	1103.2
1		4.500	5495.4	0.787	1.140	0.228	0.133	1253.3
GL..	B1	0.000	6983.6	1.000	1.000	0.200	0.096	1396.7

++ Y-DIRECTION ++ TY = 0.54 SEC TC = 0.60 SEC CO = 0.20 Z = 1.00

FLOOR NAME	H (M)	W (T)	R	AIY	CIY	KY	W * CIY (T)
R	26.000	956.9	0.137	2.057	0.411	0.411	393.7
5	21.700	1946.9	0.279	1.666	0.333	0.258	648.6
4	18.100	2894.6	0.414	1.469	0.294	0.213	850.7
3	14.300	4364.4	0.625	1.264	0.253	0.172	1103.2
2	8.500	5495.4	0.787	1.140	0.228	0.133	1253.3
1	4.500	6983.6	1.000	1.000	0.200	0.096	1396.7
GL.. B1	0.000						

3 - 1 PROPERTIES OF MEMBER

B FRAME FRAME ANGLE= 5.76 POSITION(XO= 0.000 , YO= 2.500)

*** GIRDER ***

$$K^*=I/L*(E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(O/O)
R	3 -4	(RC)	450 X	700	215.2	92.2	+---+	5.099	0.000	0.175	1.00	0.3150	1.50	19.29	3.784	1.50	0.2100	9.59
R	4 -5	(RC)	450 X	700	215.2	92.2	+---+	4.808	0.175¥	0.204¥	1.00	0.3150	1.50	21.01	4.370	1.50	0.2119	12.40
R	5 -6	(RC)	450 X	700	215.2	92.2	+---+	4.639	0.260¥	0.260¥	1.00	0.3150	1.50	19.29	4.159	1.50	0.2044	13.48
R	6 -7	(RC)	450 X	700	215.2	92.2	+---+	4.600	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.568	1.50	0.2130	13.26
R	7 -8	(RC)	450 X	700	215.2	92.2	+---+	4.639	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.529	1.50	0.2130	13.05
R	8 -9	(RC)	450 X	700	215.2	92.2	+---+	4.730	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.442	1.50	0.2130	12.58
R	9 -10	(RC)	450 X	700	215.2	92.2	+---+	5.016	0.266¥	0.290¥	1.00	0.3150	1.50	19.29	3.846	1.50	0.2046	11.72
R	10-11	(RC)	450 X	700	215.2	92.2	+---+	7.565	0.200¥	0.175¥	1.00	0.3150	2.00	28.27	3.737	1.50	0.2136	6.69
R	11-1B	(S)	WH-3X3X1X1		2100.0	810.0	+---+	2.470	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
R	1B-12	(S)	WH-3X3X1X1		2100.0	810.0	+---+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
5	3 -4	(RC)	450 X	750	215.2	92.2	+---+	5.099	0.000	0.163	1.00	0.3375	1.50	23.73	4.654	1.50	0.2250	10.81
5	4 -5	(RC)	450 X	750	215.2	92.2	+---+	4.808	0.162¥	0.391¥	1.00	0.3375	1.50	25.20	5.242	1.50	0.2179	15.18
5	5 -6	(RC)	450 X	750	215.2	92.2	+---+	4.639	0.403¥	0.403¥	1.00	0.3375	1.50	23.73	5.115	1.50	0.2044	18.11
5	6 -7	(RC)	450 X	750	215.2	92.2	+---+	4.600	0.162¥	0.163¥	1.00	0.3375	1.50	25.20	5.479	1.50	0.2277	14.50
5	7 -8	(RC)	450 X	750	215.2	92.2	+---+	4.639	0.163¥	0.163¥	1.00	0.3375	1.50	25.20	5.433	1.50	0.2277	14.27
5	8 -9	(RC)	450 X	750	215.2	92.2	+---+	4.730	0.162¥	0.163¥	1.00	0.3375	1.50	25.20	5.328	1.50	0.2277	13.77
5	9 -10	(RC)	450 X	750	215.2	92.2	+---+	5.016	0.420¥	0.443¥	1.00	0.3375	1.50	23.73	4.731	1.50	0.2049	15.83
5	10-11	(RC)	450 X	750	215.2	92.2	+---+	7.565	0.188¥	0.162¥	1.00	0.3375	2.00	42.04	5.557	1.50	0.2314	8.90
5	11-1B	(S)	WH-3X3X1X1		2100.0	810.0	+---+	2.470	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
5	1B-12	(S)	WH-3X3X1X1		2100.0	810.0	+---+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
4	3 -4	(RC)	500 X	800	215.2	92.2	+---+	5.099	0.000	0.175	1.00	0.4000	1.50	32.00	6.276	1.50	0.2667	12.17
4	4 -5	(RC)	500 X	800	215.2	92.2	+---+	4.808	0.230¥	0.354¥	1.00	0.4000	1.50	32.37	6.733	1.50	0.2569	16.51
4	5 -6	(RC)	500 X	800	215.2	92.2	+---+	4.639	0.334¥	0.334¥	1.00	0.4000	1.50	32.00	6.898	1.50	0.2512	18.44
4	6 -7	(RC)	500 X	800	215.2	92.2	+---+	4.600	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	7.379	1.50	0.2697	16.32
4	7 -8	(RC)	500 X	800	215.2	92.2	+---+	4.639	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	7.317	1.50	0.2697	16.08
4	8 -9	(RC)	500 X	800	215.2	92.2	+---+	4.730	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	7.176	1.50	0.2697	15.52
4	9 -10	(RC)	500 X	800	215.2	92.2	+---+	5.016	0.346¥	0.346¥	1.00	0.4000	1.50	32.00	6.379	1.50	0.2515	16.00
4	10-11	(RC)	500 X	800	215.2	92.2	+---+	7.565	0.175¥	0.175¥	1.00	0.4000	2.00	51.20	6.767	1.50	0.2725	9.18
4	11-1B	(S)	WH-3X3X1X1		2100.0	810.0	+---+	2.470	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
4	1B-12	(S)	WH-3X3X1X1		2100.0	810.0	+---+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
3	3 -4	(RC)	500 X	1700	215.2	92.2	+---+	5.099	0.000	0.025	1.00	0.8500	1.50	307.06	60.219	1.50	0.5667	37.08
3	4 -5	(RC)	500 X	1700	215.2	92.2	+---+	4.808	0.025	0.025	1.00	0.8500	1.50	307.06	63.863	1.50	0.5667	40.13
3	5 -6	(RC)	500 X	1700	215.2	92.2	+---+	4.639	0.025	0.025	1.00	0.8500	1.50	307.06	66.190	1.50	0.5667	41.88
3	6 -7	(RC)	500 X	1700	215.2	92.2	+---+	4.600	0.025¥	0.025¥	1.00	0.8500	1.50	308.27	67.014	1.50	0.5679	42.33
3	7 -8	(RC)	500 X	1700	215.2	92.2	+---+	4.639	0.025¥	0.025¥	1.00	0.8500	1.50	308.27	66.450	1.50	0.5679	41.92
3	8 -9	(RC)	500 X	1700	215.2	92.2	+---+	4.730	0.025¥	0.025¥	1.00	0.8500	1.50	308.27	65.172	1.50	0.5679	40.96
3	9 -10	(RC)	500 X	1700	215.2	92.2	+---+	5.016	0.083¥	0.059¥	1.00	0.8500	1.50	307.06	61.215	1.50	0.5591	39.30
3	10-11	(RC)	500 X	1700	215.2	92.2	+---+	7.565	0.000¥	0.025¥	1.00	0.8500	2.00	414.06	54.733	1.50	0.5697	26.36
3	11-1B	(S)	WH-3X3X1X1		2100.0	810.0	+---+	2.470	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
3	1B-12	(S)	WH-3X3X1X1		2100.0	810.0	+---+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
2	3 -4	(RC)	500 X	900	215.2	92.2	+---+	5.099	0.000	0.225	1.00	0.4500	1.50	45.56	8.935	1.50	0.3000	15.18
2	4 -5	(RC)	400 X	700	215.2	92.2	+---+	4.808	0.275	0.275	1.00	0.2800	1.50	17.15	3.567	1.50	0.1867	12.43
2	5 -6	(RC)	400 X	700	215.2	92.2	+---+	4.639	0.275	0.275	1.00	0.2800	1.50	17.15	3.697	1.50	0.1867	13.33
2	6 -7	(RC)	500 X	900	215.2	92.2	+---+	4.600	0.225	0.225	1.00	0.4500	1.50	45.56	9.905	1.50	0.3000	19.80
2	7 -8	(RC)	500 X	900	215.2	92.2	+---+	4.639	0.225	0.225	1.00	0.4500	1.50	45.56	9.821	1.50	0.3000	19.51
2	8 -9	(RC)	500 X	900	215.2	92.2	+---+	4.730	0.225	0.225	1.00	0.4500	1.50	45.56	9.632	1.50	0.3000	18.84

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
2	9	-10 (RC)	400 X	700	215.2	92.2	+---+	5.016	0.275	0.225	1.00	0.2800	1.50	17.15	3.419	1.50	0.1867	11.20
2	10	-11 (RC)	500 X	900	215.2	92.2	+---+	7.565	0.175	0.225	1.00	0.4500	2.00	60.75	8.030	1.50	0.3000	9.95
2	11	-1B (S)	WH-3X3X1X1		2100.0	810.0	+---+	2.470	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
2	1B	-12 (S)	WH-3X3X1X1		2100.0	810.0	+---+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
1	4	-5 (RC)	500 X	900	215.2	92.2	+---+	4.808	0.225	0.225	1.00	0.4500	2.00	60.75	12.635	1.50	0.3000	22.99
1	5	-6 (RC)	400 X	700	215.2	92.2	+---+	4.639	0.275	0.275	1.00	0.2800	1.50	17.15	3.697	1.50	0.1867	13.33
1	6	-7 (RC)	500 X	900	215.2	92.2	+---+	4.600	0.225	0.225	1.00	0.4500	1.50	45.56	9.905	1.50	0.3000	19.80
1	7	-8 (RC)	500 X	900	215.2	92.2	+---+	4.639	0.225	0.225	1.00	0.4500	1.50	45.56	9.821	1.50	0.3000	19.51
1	8	-9 (RC)	500 X	900	215.2	92.2	+---+	4.730	0.225	0.225	1.00	0.4500	1.50	45.56	9.632	1.50	0.3000	18.84
1	9	-10 (RC)	400 X	700	215.2	92.2	+---+	5.016	0.275	0.225	1.00	0.2800	2.00	22.87	4.559	1.50	0.1867	14.40
1	10	-11 (RC)	500 X	900	215.2	92.2	+---+	7.565	0.175	0.225	1.00	0.4500	2.00	60.75	8.030	1.50	0.3000	9.95
1	11	-1B (S)	WH-3X3X1X1		2100.0	810.0	+---+	2.470	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
1	1B	-12 (S)	WH-3X3X1X1		2100.0	810.0	+---+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
B1	4	-5 (RC)	450 X	1500	215.2	92.2	+---+	4.808	0.075	0.075	1.00	0.6750	2.00	253.12	52.645	1.50	0.4500	42.06
B1	5	-6 (RC)	450 X	1500	215.2	92.2	+---+	4.639	0.075	0.075	1.00	0.6750	2.00	253.12	54.563	1.50	0.4500	43.87
B1	6	-7 (RC)	450 X	1500	215.2	92.2	+---+	4.600	0.075	0.075	1.00	0.6750	2.00	253.12	55.026	1.50	0.4500	44.30
B1	7	-8 (RC)	450 X	1500	215.2	92.2	+---+	4.639	0.075	0.075	1.00	0.6750	2.00	253.12	54.563	1.50	0.4500	43.87
B1	8	-9 (RC)	450 X	1500	215.2	92.2	+---+	4.730	0.075	0.075	1.00	0.6750	2.00	253.12	53.514	1.50	0.4500	42.88
B1	9	-10 (RC)	300 X	1500	215.2	92.2	+---+	5.016	0.075	0.025	1.00	0.4500	2.00	168.75	33.642	1.50	0.3000	39.46
B1	11	-1B (S)	WH-3X3X1X1		2100.0	810.0	+---+	2.470	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
B1	1B	-12 (S)	WH-3X3X1X1		2100.0	810.0	+---+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01

*** COLUMN ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
5	3	(S)	WH-3X3X1X1		2100.0	810.0	+---+	4.300	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
5	4	(RC)	750 X	700	215.2	92.2	+---+	4.300	0.284¥	0.259¥	99.00	51.9750	1.00	21.44	4.985	1.50	0.3375	11.19
5	5	(RC)	750 X	700	215.2	92.2	+---+	4.300	0.175¥	0.200¥	99.00	51.9750	1.00	32.90	7.651	1.50	0.3568	14.35
5	6	(RC)	750 X	700	215.2	92.2	+---+	4.300	0.419¥	0.327¥	99.00	51.9750	1.00	22.82	5.306	1.50	0.3215	13.59
5	7	(RC)	750 X	700	215.2	92.2	+---+	4.300	0.572¥	0.399¥	99.00	51.9750	1.00	21.44	4.985	1.50	0.3010	15.25
5	8	(RC)	750 X	700	215.2	92.2	+---+	4.300	0.584¥	0.404¥	99.00	51.9750	1.00	21.44	4.985	1.50	0.2995	15.45
5	9	(RC)	750 X	700	215.2	92.2	+---+	4.300	0.430¥	0.333¥	99.00	51.9750	1.00	22.82	5.306	1.50	0.3201	13.76
5	10	(RC)	750 X	750	215.2	92.2	+---+	4.300	0.162¥	0.188¥	99.00	55.6875	1.00	53.95	12.547	1.50	0.3845	20.11
5	11	(RC)	750 X	700	215.2	92.2	+---+	4.300	0.175¥	0.200¥	99.00	51.9750	1.00	33.04	7.683	1.50	0.3568	14.40
5	1B	(S)	WH-200X200X8X12		2100.0	810.0	+---+	4.300	0.000	0.000	99.00	1.2228	1.00	0.046105	0.105	1.00	0.0014	5.22
5	12	SAME																
4	3	(S)	WH-3X3X1X1		2100.0	810.0	+---+	3.600	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
4	4	(RC)	750 X	700	215.2	92.2	+---+	3.600	0.272¥	0.289¥	99.00	51.9750	1.00	21.44	5.955	1.50	0.3371	16.16
4	5	(RC)	750 X	700	215.2	92.2	+---+	3.600	0.200¥	0.225¥	99.00	51.9750	1.00	32.90	9.139	1.50	0.3568	20.39
4	6	(RC)	750 X	700	215.2	92.2	+---+	3.600	0.360¥	0.365¥	99.00	51.9750	1.00	22.82	6.338	1.50	0.3213	19.39
4	7	(RC)	750 X	700	215.2	92.2	+---+	3.600	0.455¥	0.447¥	99.00	51.9750	1.00	21.44	5.955	1.50	0.3009	21.52
4	8	(RC)	750 X	700	215.2	92.2	+---+	3.600	0.463¥	0.453¥	99.00	51.9750	1.00	21.44	5.955	1.50	0.2994	21.77
4	9	(RC)	750 X	700	215.2	92.2	+---+	3.600	0.367¥	0.371¥	99.00	51.9750	1.00	22.82	6.338	1.50	0.3199	19.60
4	10	(RC)	750 X	750	215.2	92.2	+---+	3.600	0.188¥	0.213¥	99.00	55.6875	1.00	53.95	14.986	1.50	0.3845	27.73
4	11	(RC)	750 X	700	215.2	92.2	+---+	3.600	0.200¥	0.225¥	99.00	51.9750	1.00	33.04	9.177	1.50	0.3568	20.45
4	1B	(S)	WH-200X200X8X12		2100.0	810.0	+---+	3.600	0.000	0.000	99.00	1.2228	1.00	0.046105	0.125	1.00	0.0014	7.29
4	12	SAME																
3	3	(S)	WH-3X3X1X1		2100.0	810.0	+---+	3.800	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00

FL	POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(O/O)
3	4	(RC)	750 X	750	215.2	92.2	+---+	3.800	0.213¥	0.663¥99.00	55.6875	1.00	27.79	7.312	1.50	0.3776	19.40	
3	5	(RC)	750 X	750	215.2	92.2	+---+	3.800	0.213¥	0.663¥99.00	55.6875	1.00	32.85	8.644	1.50	0.3803	22.04	
3	6	(RC)	750 X	750	215.2	92.2	+---+	3.800	0.314¥	0.786¥99.00	55.6875	1.00	27.79	7.312	1.50	0.3503	23.36	
3	7	(RC)	750 X	750	215.2	92.2	+---+	3.800	0.377¥	0.863¥99.00	55.6875	1.00	26.37	6.939	1.50	0.3314	25.38	
3	8	(RC)	750 X	750	215.2	92.2	+---+	3.800	0.382¥	0.869¥99.00	55.6875	1.00	26.37	6.939	1.50	0.3300	25.62	
3	9	(RC)	750 X	750	215.2	92.2	+---+	3.800	0.319¥	0.792¥99.00	55.6875	1.00	27.79	7.312	1.50	0.3489	23.57	
3	10	(RC)	750 X	750	215.2	92.2	+---+	3.800	0.213¥	0.663¥99.00	55.6875	1.00	53.75	14.146	1.50	0.3845	31.39	
3	11	(RC)	750 X	750	215.2	92.2	+---+	3.800	0.212¥	0.663¥99.00	55.6875	1.00	38.27	10.071	1.50	0.3818	24.70	
3	1B	(S)	WH-200X200X8X12		2100.0	810.0	+---+	3.800	0.000	0.000 99.00	1.2228	1.00	0.046105	0.118	1.00	0.0014	6.59	
3	12	SAME																
2	3	(S)	WH-3X3X1X1		2100.0	810.0	+---+	5.800	0.000	0.000 99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00	
2	4	(RC)	900 X	900	215.2	92.2	+---+	5.800	0.625	0.225 99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.37	
2	5	(RC)	900 X	900	215.2	92.2	+---+	5.800	0.625	0.125 99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.00	
2	6	(RC)	900 X	900	215.2	92.2	+---+	5.800	0.625	0.225 99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.37	
2	8	SAME																
2	9	(RC)	900 X	900	215.2	92.2	+---+	5.800	0.648¥	0.225¥99.00	80.1900	1.00	56.21	9.691	1.50	0.5402	10.71	
2	10	(RC)	800 X	800	215.2	92.2	+---+	5.800	0.680¥	0.250¥99.00	63.3600	1.00	35.59	6.136	1.50	0.4268	8.96	
2	11	(RC)	900 X	900	215.2	92.2	+---+	5.800	0.625	0.225 99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.37	
2	1B	(S)	WH-200X200X8X12		2100.0	810.0	+---+	5.800	0.000	0.000 99.00	1.2228	1.00	0.046105	0.078	1.00	0.0014	2.94	
2	12	SAME																
1	4	(RC)	900 X	900	215.2	92.2	+---+	4.000	0.225	0.225 99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	18.36	
1	5	(RC)	900 X	900	215.2	92.2	+---+	4.000	0.125	0.225 99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	17.55	
1	6	(RC)	900 X	900	215.2	92.2	+---+	4.000	0.225	0.225 99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	18.36	
1	9	SAME																
1	10	(RC)	800 X	800	215.2	92.2	+---+	4.000	0.250	0.250 99.00	63.3600	1.00	34.13	8.533	1.50	0.4267	15.46	
1	11	(RC)	900 X	900	215.2	92.2	+---+	4.000	0.225	0.225 99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	18.36	
1	1B	(S)	WH-200X200X8X12		2100.0	810.0	+---+	4.000	0.000	0.000 99.00	1.2228	1.00	0.046105	0.112	1.00	0.0014	5.99	
1	12	SAME																
B1	4	(RC)	900 X	900	215.2	92.2	+---+	4.500	0.225	0.525 99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.78	
B1	9	SAME																
B1	10	(RC)	800 X	800	215.2	92.2	+---+	4.500	0.250	0.550 99.00	63.3600	1.00	34.13	7.585	1.50	0.4267	14.06	
B1	11	(RC)	900 X	900	215.2	92.2	+---+	4.500	0.225	0.000 99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	13.43	
B1	1B	(S)	WH-200X200X8X12		2100.0	810.0	+---+	4.500	0.000	0.000 99.00	1.2228	1.00	0.046105	0.100	1.00	0.0014	4.79	
B1	12	SAME																

*** WALL ***

BETA*=GAMMA*BETA/KAPPA

FL	POSIT.	L	H	T	E	G	GAMMA	BETA	KAPPA	BETA*	A/A0	A	I/I0	I
		(M)	(M)	(MM)	(T/CM2)	(T/CM2)						(M2)		(M4)
2	4 -5	4.808	5.800	200	215.2	92.2	0.545	0.500	1.000	0.273	1.000	0.9616	1.000	1.8524
2	5 -6	4.639	5.800	180	215.2	92.2	0.537	0.500	1.000	0.269	1.000	0.8350	1.000	1.4975
1	5 -6	4.639	4.000	180	215.2	92.2	1.000	0.200	1.000	0.200	1.000	0.8350	1.000	1.4975
1	6 -7	4.600	4.000	180	215.2	92.2	1.000	0.200	1.000	0.200	1.000	0.8280	1.000	1.4600
1	7 -8	4.639	4.000	180	215.2	92.2	1.000	0.200	1.000	0.200	1.000	0.8350	1.000	1.4975
1	8 -9	4.730	4.000	180	215.2	92.2	1.000	0.200	1.000	0.200	1.000	0.8514	1.000	1.5874
1	9 -10	5.016	4.000	180	215.2	92.2	1.000	0.200	1.000	0.200	1.000	0.9029	1.000	1.8931
B1	5 -6	4.639	4.500	400	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.8556	1.000	3.3278
B1	6 -7	4.600	4.500	400	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.8400	1.000	3.2445
B1	7 -8	4.639	4.500	400	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.8556	1.000	3.3278
B1	8 -9	4.730	4.500	400	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.8920	1.000	3.5275

C FRAME FRAME ANGLE= 0.00 POSITION(X0= 0.000 , Y0= 7.700)

DATE=04/08/93 , TIME=15.48.48

*** GIRDER ***

 $K^* = I/L * (E/E0)$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
R	1	-1A (S)	WH-3X3X1X1		2100.0	810.0	+----+	2.299	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
R	1A-2	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
R	2	-3 (RC)	450 X 700		215.2	92.2	+----+	4.600	0.200	0.200	1.00	0.3150	2.00	25.72	5.592	1.50	0.2100	16.28
R	3	-4	SAME															
R	4	-5 (RC)	450 X 700		215.2	92.2	+----+	4.600	0.200¥	0.216¥	1.00	0.3150	2.00	27.70	6.021	1.50	0.2127	17.23
R	5	-6 (RC)	450 X 700		215.2	92.2	+----+	4.600	0.200	0.200	1.00	0.3150	2.00	25.72	5.592	1.50	0.2100	16.28
R	8	-9	SAME															
R	9	-10 (RC)	450 X 700		215.2	92.2	+----+	4.600	0.200¥	0.214¥	1.00	0.3150	2.00	27.70	6.021	1.50	0.2127	17.23
R	10	-0A (RC)	450 X 700		215.2	92.2	+----+	2.000	0.200	0.000	1.00	0.3150	2.00	25.72	12.862	1.50	0.2100	51.42
R	0A-11	(RC)	400 X 700		215.2	92.2	+----+	2.600	0.000	0.075	1.00	0.2800	2.00	22.87	8.795	1.50	0.1867	34.98
5	1	-1A (S)	WH-3X3X1X1		2100.0	810.0	+----+	2.299	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
5	1A-2	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
5	2	-3 (RC)	450 X 750		215.2	92.2	+----+	4.600	0.188	0.188	1.00	0.3375	2.00	31.64	6.878	1.50	0.2250	18.07
5	3	-4	SAME															
5	4	-5 (RC)	450 X 750		215.2	92.2	+----+	4.600	0.188¥	0.385¥	1.00	0.3375	2.00	32.25	7.011	1.50	0.2193	20.25
5	5	-6 (RC)	450 X 750		215.2	92.2	+----+	4.600	0.188	0.188	1.00	0.3375	2.00	31.64	6.878	1.50	0.2250	18.07
5	8	-9	SAME															
5	9	-10 (RC)	450 X 750		215.2	92.2	+----+	4.600	0.188¥	0.376¥	1.00	0.3375	2.00	32.25	7.011	1.50	0.2192	20.18
5	10	-0A (RC)	450 X 750		215.2	92.2	+----+	2.000	0.188	0.000	1.00	0.3375	2.00	31.64	15.820	1.50	0.2250	54.51
5	0A-11	(RC)	400 X 700		215.2	92.2	+----+	2.600	0.000	0.075	1.00	0.2800	2.00	22.87	8.795	1.50	0.1867	34.98
4	1	-1A (S)	WH-3X3X1X1		2100.0	810.0	+----+	2.299	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
4	1A-2	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
4	2	-3 (RC)	500 X 800		215.2	92.2	+----+	4.600	0.175	0.175	1.00	0.4000	2.00	42.67	9.275	1.50	0.2667	19.87
4	3	-4	SAME															
4	4	-5 (RC)	500 X 800		215.2	92.2	+----+	4.600	0.175¥	0.206¥	1.00	0.4000	2.00	42.67	9.275	1.50	0.2668	20.10
4	5	-6 (RC)	500 X 800		215.2	92.2	+----+	4.600	0.175	0.175	1.00	0.4000	2.00	42.67	9.275	1.50	0.2667	19.87
4	8	-9	SAME															
4	9	-10 (RC)	500 X 800		215.2	92.2	+----+	4.600	0.175¥	0.290¥	1.00	0.4000	2.00	43.55	9.468	1.50	0.2635	21.30
4	10	-0A (RC)	500 X 800		215.2	92.2	+----+	2.000	0.175	0.000	1.00	0.4000	2.00	42.67	21.332	1.50	0.2667	57.36
4	0A-11	(RC)	400 X 700		215.2	92.2	+----+	2.600	0.000	0.075	1.00	0.2800	2.00	22.87	8.795	1.50	0.1867	34.98
3	1	-1A (S)	WH-3X3X1X1		2100.0	810.0	+----+	2.299	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
3	1A-2	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
3	2	-3 (RC)	500 X 1700		215.2	92.2	+----+	4.600	0.011¥	0.041¥	1.00	0.8500	2.00	409.42	89.001	1.50	0.5666	49.44
3	3	-4 (RC)	400 X 700		215.2	92.2	+----+	4.600	0.275	0.275	1.00	0.2800	2.00	22.87	4.971	1.50	0.1867	17.29
3	4	-5 (RC)	500 X 1700		215.2	92.2	+----+	4.600	0.025	0.025	1.00	0.8500	2.00	409.42	89.002	1.50	0.5667	49.42
3	8	-9	SAME															
3	9	-10 (RC)	500 X 1700		215.2	92.2	+----+	4.600	0.025¥	0.067¥	1.00	0.8500	2.00	409.42	89.001	1.50	0.5654	49.94
3	10	-0A (RC)	500 X 1700		215.2	92.2	+----+	2.000	0.025	0.000	1.00	0.8500	2.00	409.42	204.698	1.50	0.5667	83.83
3	0A-11	(RC)	500 X 1700		215.2	92.2	+----+	2.600	0.000	0.000	1.00	0.8500	2.00	409.42	157.462	1.50	0.5667	74.95
2	1	-1A (S)	WH-3X3X1X1		2100.0	810.0	+----+	2.299	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
2	1A-2	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.300	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
2	2	-3 (RC)	400 X 700		215.2	92.2	+----+	4.600	0.225	0.275	1.00	0.2800	2.00	22.87	4.971	1.50	0.1867	16.95
2	3	-4 (RC)	400 X 700		215.2	92.2	+----+	4.600	0.275	0.275	1.00	0.2800	2.00	22.87	4.971	1.50	0.1867	17.29
2	4	-5 (RC)	500 X 900		215.2	92.2	+----+	4.600	0.225	0.225	1.00	0.4500	2.00	60.75	13.206	1.50	0.3000	24.77
2	6	-7	SAME															
2	7	-8 (RC)	500 X 900		215.2	92.2	+----+	4.600	0.237¥	0.225¥	1.00	0.4500	2.00	61.96	13.470	1.50	0.3017	25.14

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
2	8	-9 (RC)	500 X	900	215.2	92.2	+----+	4.600	0.225	0.225	1.00	0.4500	2.00	60.75	13.206	1.50	0.3000	24.77
2	9	-10 (RC)	500 X	900	215.2	92.2	+----+	4.600	0.225¥	0.380¥	1.00	0.4500	2.00	60.75	13.206	1.50	0.2928	26.68
2	10	-0A (RC)	500 X	900	215.2	92.2	+----+	2.000	0.225	0.000	1.00	0.4500	2.00	60.75	30.373	1.50	0.3000	64.28
2	0A	-11 (RC)	400 X	700	215.2	92.2	+----+	2.600	0.000	0.075	1.00	0.2800	2.00	22.87	8.795	1.50	0.1867	34.98
1	1	-1A (RC)	450 X	800	215.2	92.2	0---0	2.299	0.000	0.000	1.00	0.3600	2.00	38.40	16.702	1.50	0.2400	45.87
1	1A	-2 (RC)	450 X	800	215.2	92.2	+----+	2.300	0.000	0.200	1.00	0.3600	2.00	38.40	16.695	1.50	0.2400	50.39
1	2	-3 (RC)	450 X	800	215.2	92.2	+----+	4.600	0.200	0.250	1.00	0.3600	2.00	38.40	8.348	1.50	0.2400	20.64
1	3	-4 (RC)	400 X	700	215.2	92.2	+----+	4.600	0.275	0.275	1.00	0.2800	2.00	22.87	4.971	1.50	0.1867	17.29
1	4	-5 (RC)	450 X	800	215.2	92.2	+----+	4.600	0.250	0.250	1.00	0.3600	2.00	38.40	8.348	1.50	0.2400	21.04
1	5	-6 (RC)	450 X	800	215.2	92.2	+----+	4.600	0.250¥	0.250¥	1.00	0.3600	2.00	39.86	8.665	1.50	0.2426	21.48
1	6	-7 (RC)	400 X	700	215.2	92.2	+----+	4.600	0.275	0.275	1.00	0.2800	2.00	22.87	4.971	1.50	0.1867	17.29
1	7	-8 (RC)	450 X	800	215.2	92.2	+----+	4.600	0.355¥	0.250¥	1.00	0.3600	2.00	39.86	8.665	1.50	0.2378	22.72
1	8	-9 (RC)	400 X	700	215.2	92.2	+----+	4.600	0.275	0.275	1.00	0.2800	2.00	22.87	4.971	1.50	0.1867	17.29
1	9	-10 (RC)	400 X	700	215.2	92.2	+----+	4.600	0.275¥	0.488¥	1.00	0.2800	2.00	25.41	5.525	1.50	0.1821	20.98
1	10	-0A (RC)	450 X	800	215.2	92.2	+----+	2.000	0.250	0.000	1.00	0.3600	2.00	38.40	19.199	1.50	0.2400	59.39
1	0A	-11 (RC)	450 X	800	215.2	92.2	+----+	2.600	0.000	0.125	1.00	0.3600	2.00	38.40	14.769	1.50	0.2400	42.24
1	11	-1B (RC)	450 X	800	215.2	92.2	+----+	2.300	0.125	0.000	1.00	0.3600	2.00	38.40	16.695	1.50	0.2400	48.64
1	1B	-12 (RC)	450 X	800	215.2	92.2	0---0	2.300	0.000	0.175	1.00	0.3600	2.00	38.40	16.695	1.50	0.2400	49.80
B1	1	-1A (RC)	450 X	1500	215.2	92.2	0---0	2.299	0.000	0.000	1.00	0.6750	2.00	253.12	110.097	1.50	0.4500	74.87
B1	1A	-2 (RC)	400 X	1500	215.2	92.2	+----+	2.300	0.000	0.025	1.00	0.6000	2.00	225.00	97.822	1.50	0.4000	75.26
B1	2	-3 (RC)	400 X	1500	215.2	92.2	+----+	4.600	0.025	0.075	1.00	0.6000	2.00	225.00	48.912	1.50	0.4000	43.75
B1	3	-4 (RC)	300 X	1500	215.2	92.2	+----+	4.600	0.075	0.075	1.00	0.4500	2.00	168.75	36.684	1.50	0.3000	44.30
B1	4	-5 (RC)	450 X	1500	215.2	92.2	+----+	4.600	0.075	0.075	1.00	0.6750	2.00	253.12	55.026	1.50	0.4500	44.30
B1	5	-6 (RC)	450 X	1500	215.2	92.2	+----+	4.600	0.075¥	0.075¥	1.00	0.6750	2.00	253.12	55.026	1.50	0.4500	44.30
B1	8	-9	SAME															
B1	9	-10 (RC)	450 X	1500	215.2	92.2	+----+	4.600	0.075¥	0.092¥	1.00	0.6750	2.00	253.12	55.026	1.50	0.4504	44.47
B1	10	-0A (RC)	400 X	1500	215.2	92.2	+----+	2.000	0.075	0.000	1.00	0.6000	2.00	225.00	112.494	1.50	0.4000	80.95
B1	0A	-11 (RC)	400 X	1500	215.2	92.2	+----+	2.600	0.000	0.000	1.00	0.6000	2.00	225.00	86.535	1.50	0.4000	69.97
B1	11	-1B (RC)	450 X	1500	215.2	92.2	+----+	2.300	0.000	0.000	1.00	0.6750	2.00	253.12	110.049	1.50	0.4500	74.86
B1	1B	-12 (RC)	450 X	1500	215.2	92.2	0---0	2.300	0.000	0.000	1.00	0.6750	2.00	253.12	110.049	1.50	0.4500	74.86

*** COLUMN ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
5	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	4.300	0.000	0.000	99.00	1.2228	1.00	0.046105	0.105	1.00	0.0014	5.22
5	1A	SAME																
5	2	(RC)	750 X	750	215.2	92.2	+----+	4.300	0.162	0.187	99.00	55.6875	1.00	26.37	6.132	1.50	0.3750	11.20
5	4	SAME																
5	5	(RC)	750 X	750	215.2	92.2	+----+	4.300	0.162¥	0.188¥	99.00	55.6875	1.00	29.49	6.857	1.50	0.3789	12.26
5	6	(RC)	750 X	750	215.2	92.2	+----+	4.300	0.162	0.187	99.00	55.6875	1.00	26.37	6.132	1.50	0.3750	11.20
5	9	SAME																
5	10	(RC)	750 X	750	215.2	92.2	+----+	4.300	0.162¥	0.188¥	99.00	55.6875	1.00	29.49	6.857	1.50	0.3789	12.26
5	0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	4.300	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
5	11	(RC)	1400 X	500	215.2	92.2	+----+	4.300	0.225	0.225	99.00	69.3000	1.00	14.58	3.391	1.50	0.4667	5.57
4	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	3.600	0.000	0.000	99.00	1.2228	1.00	0.046105	0.125	1.00	0.0014	7.29
4	1A	SAME																
4	2	(RC)	750 X	750	215.2	92.2	+----+	3.600	0.187	0.212	99.00	55.6875	1.00	26.37	7.324	1.50	0.3750	16.13
4	4	SAME																
4	5	(RC)	750 X	750	215.2	92.2	+----+	3.600	0.188¥	0.213¥	99.00	55.6875	1.00	29.49	8.191	1.50	0.3789	17.55

FL	POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/AO	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X	B XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
4	6	(RC)	750 X	750	215.2	92.2	+----+	3.600	0.187	0.212	99.00	55.6875	1.00	26.37	7.324	1.50	0.3750	16.13
4	9	SAME																
4	10	(RC)	750 X	750	215.2	92.2	+----+	3.600	0.188¥	0.213¥	99.00	55.6875	1.00	29.49	8.191	1.50	0.3789	17.55
4	0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	3.600	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
4	11	(RC)	1400 X	500	215.2	92.2	+----+	3.600	0.225	0.225	99.00	69.3000	1.00	14.58	4.051	1.50	0.4667	8.10
3	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	3.800	0.000	0.000	99.00	1.2228	1.00	0.046105	0.118	1.00	0.0014	6.59
3	1A	SAME																
3	2	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.212	0.662	99.00	55.6875	1.00	26.37	6.939	1.50	0.3750	18.71
3	9	SAME																
3	10	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.213¥	0.663¥	99.00	55.6875	1.00	29.49	7.760	1.50	0.3789	20.30
3	0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	3.800	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
3	11	(RC)	1400 X	500	215.2	92.2	+----+	3.800	0.225	0.725	99.00	69.3000	1.00	14.58	3.838	1.50	0.4667	9.72
2	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	5.800	0.000	0.000	99.00	1.2228	1.00	0.046105	0.078	1.00	0.0014	2.94
2	1A	SAME																
2	2	(RC)	800 X	800	215.2	92.2	+----+	5.800	0.691¥	0.150¥	99.00	63.3600	1.00	34.34	5.920	1.50	0.4243	8.44
2	3	(RC)	900 X	900	215.2	92.2	+----+	5.800	0.625	0.125	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.00
2	4	(RC)	900 X	900	215.2	92.2	+----+	5.800	0.625	0.225	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.37
2	8	SAME																
2	9	(RC)	900 X	900	215.2	92.2	+----+	5.800	0.653¥	0.225¥	99.00	80.1900	1.00	54.67	9.427	1.50	0.5374	10.52
2	10	(RC)	900 X	900	215.2	92.2	+----+	5.800	0.625¥	0.225¥	99.00	80.1900	1.00	58.02	10.003	1.50	0.5437	10.87
2	0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	5.800	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
2	11	(RC)	1400 X	500	215.2	92.2	+----+	5.800	0.725	0.225	99.00	69.3000	1.00	14.58	2.514	1.50	0.4667	3.59
1	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	4.000	0.000	0.000	99.00	1.2228	1.00	0.046105	0.112	1.00	0.0014	5.99
1	1A	SAME																
1	2	(RC)	800 X	800	215.2	92.2	+----+	4.000	0.150	0.200	99.00	63.3600	1.00	34.13	8.533	1.50	0.4267	14.39
1	3	(RC)	900 X	900	215.2	92.2	+----+	4.000	0.125	0.175	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	17.16
1	4	(RC)	900 X	900	215.2	92.2	+----+	4.000	0.225	0.175	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	17.95
1	8	SAME																
1	9	(RC)	900 X	900	215.2	92.2	+----+	4.000	0.225	0.125	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	17.55
1	10	(RC)	900 X	900	215.2	92.2	+----+	4.000	0.225¥	0.175¥	99.00	80.1900	1.00	58.02	14.505	1.50	0.5437	18.73
1	0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	4.000	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
1	11	(RC)	1400 X	500	215.2	92.2	+----+	4.000	0.225	0.275	99.00	69.3000	1.00	14.58	3.646	1.50	0.4667	6.67
B1	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	4.500	0.000	0.000	99.00	1.2228	1.00	0.046105	0.100	1.00	0.0014	4.79
B1	1A	(RC)	200 X	200	215.2	92.2	+----+	4.500	0.350	0.700	99.00	3.9600	1.00	0.13	0.030	1.50	0.0267	1.16
B1	2	(RC)	800 X	800	215.2	92.2	+----+	4.500	0.200	0.550	99.00	63.3600	1.00	34.13	7.585	1.50	0.4267	13.74
B1	3	(RC)	900 X	900	215.2	92.2	+----+	4.500	0.175	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.41
B1	4	SAME																
B1	5	(RC)	900 X	900	215.2	92.2	+----+	4.500	0.210¥	0.525¥	99.00	80.1900	1.00	54.67	12.150	1.50	0.5361	16.77
B1	6	(RC)	900 X	900	215.2	92.2	+----+	4.500	0.327¥	0.525¥	99.00	80.1900	1.00	54.67	12.150	1.50	0.5206	18.09
B1	8	SAME																
B1	9	(RC)	1150 X	900	215.2	92.2	+----+	4.500	0.252¥	0.525¥	99.00	102.4649	1.00	69.86	15.525	1.50	0.6699	17.40
B1	10	(RC)	900 X	900	215.2	92.2	+----+	4.500	0.175	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.41
B1	0A	(RC)	200 X	200	215.2	92.2	+----+	4.500	0.350	0.700	99.00	3.9600	1.00	0.13	0.030	1.50	0.0267	1.16
B1	11	(RC)	650 X	650	215.2	92.2	+----+	4.500	0.237	0.587	99.00	41.8275	1.00	14.88	3.306	1.50	0.2817	9.87
B1	1B	(RC)	200 X	200	215.2	92.2	+----+	4.500	0.350	0.700	99.00	3.9600	1.00	0.13	0.030	1.50	0.0267	1.16
B1	12	(RC)	750 X	750	215.2	92.2	+----+	4.500	0.212	0.562	99.00	55.6875	1.00	26.37	5.859	1.50	0.3750	12.43

*** WALL ***

BETA' = GAMMA * BETA / KAPPA

FL POSIT.	L (M)	H (M)	T (MM)	E (T/CM2)	G (T/CM2)	GAMMA	BETA	KAPPA	BETA'	A/A0	A (M2)	I/I0	I (M4)
5 3 -4	4.600	4.300	200	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.9200	1.000	1.6223
5 6 -7	4.600	4.300	180	215.2	92.2	0.603	0.500	1.000	0.301	1.000	0.8280	1.000	1.4600
5 7 -8	4.600	4.300	180	215.2	92.2	0.603	0.500	1.000	0.301	1.000	0.8280	1.000	1.4600
5 8 -9	4.600	4.300	180	215.2	92.2	0.603	0.500	1.000	0.301	1.000	0.8280	1.000	1.4600
4 3 -4	4.600	3.600	200	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.9200	1.000	1.6223
4 6 -7	4.600	3.600	180	215.2	92.2	0.566	0.500	1.000	0.283	1.000	0.8280	1.000	1.4600
4 7 -8	4.600	3.600	180	215.2	92.2	0.566	0.500	1.000	0.283	1.000	0.8280	1.000	1.4600
4 8 -9	4.600	3.600	180	215.2	92.2	0.566	0.500	1.000	0.283	1.000	0.8280	1.000	1.4600
3 3 -4	4.600	3.800	200	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.9200	1.000	1.6223
3 6 -7	4.600	3.800	180	215.2	92.2	0.577	0.500	1.000	0.289	1.000	0.8280	1.000	1.4600
3 7 -8	4.600	3.800	180	215.2	92.2	0.577	0.500	1.000	0.289	1.000	0.8280	1.000	1.4600
3 8 -9	4.600	3.800	180	215.2	92.2	0.577	0.500	1.000	0.289	1.000	0.8280	1.000	1.4600
2 3 -4	4.600	5.800	200	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.9200	1.000	1.6223
1 2 -3	4.600	4.000	250	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.1500	1.000	2.0278
1 3 -4	4.600	4.000	250	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.1500	1.000	2.0278
1 6 -7	4.600	4.000	250	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.1500	1.000	2.0278
1 8 -9	4.600	4.000	250	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.1500	1.000	2.0278
B1 1A-2	2.300	4.500	180	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.4140	1.000	0.1825
B1 2 -3	4.600	4.500	250	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.1500	1.000	2.0278
B1 3 -4	4.600	4.500	250	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.1500	1.000	2.0278
B1 10-0A	2.000	4.500	250	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.5000	1.000	0.1667
B1 0A-11	2.600	4.500	250	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.6500	1.000	0.3662
B1 11-1B	2.300	4.500	180	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.4140	1.000	0.1825

E FRAME FRAME ANGLE= 0.22 POSITION(X0= 0.000 , Y0= 8.410)

DATE=04/08/93 , TIME=15.48.48

*** GIRDER ***

 $K^* = I/L * (E/E0)$

FL	POSIT.(RC, SRC)	B X D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
	(S)	A X B XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(O/O)
R	1 -1A (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.739	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
R	1A-2 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.550	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
R	2 -3 (RC)	450 X 700	215.2	92.2	+++++	5.284	0.200¥	0.175¥	1.00	0.3150	1.50	21.01	3.976	1.50	0.2130	10.28
R	3 -4 (RC)	450 X 700	215.2	92.2	+++++	5.016	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.189	1.50	0.2130	11.26
R	4 -5 (RC)	450 X 700	215.2	92.2	+++++	4.754	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.420	1.50	0.2130	12.46
R	5 -6 (RC)	450 X 700	215.2	92.2	+++++	4.653	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.516	1.50	0.2130	12.98
R	6 -7 (RC)	450 X 700	215.2	92.2	+++++	4.600	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.568	1.50	0.2130	13.26
R	7 -8 (RC)	450 X 700	215.2	92.2	+++++	4.653	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.516	1.50	0.2130	12.98
R	8 -9 (RC)	450 X 700	215.2	92.2	+++++	4.780	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	4.396	1.50	0.2130	12.34
R	9 -10 (RC)	450 X 700	215.2	92.2	+++++	5.385	0.175¥	0.175¥	1.00	0.3150	1.50	21.01	3.902	1.50	0.2130	9.82
R	10-0A (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.625	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
R	0A-11 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.600	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
R	11-1B (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.377	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.01
R	1B-12 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.921	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.00
5	1 -1A (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.739	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
5	1A-2 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.550	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
5	2 -3 (RC)	450 X 750	215.2	92.2	+++++	5.284	0.187¥	0.163¥	1.00	0.3375	1.50	25.20	4.770	1.50	0.2277	11.29
5	3 -4 (RC)	450 X 750	215.2	92.2	+++++	5.016	0.162¥	0.163¥	1.00	0.3375	1.50	25.20	5.025	1.50	0.2277	12.34
5	4 -5 (RC)	450 X 750	215.2	92.2	+++++	4.754	0.163¥	0.163¥	1.00	0.3375	1.50	25.20	5.301	1.50	0.2277	13.64
5	5 -6 (RC)	450 X 750	215.2	92.2	+++++	4.653	0.163¥	0.163¥	1.00	0.3375	1.50	25.20	5.417	1.50	0.2277	14.19
5	6 -7 (RC)	450 X 750	215.2	92.2	+++++	4.600	0.162¥	0.163¥	1.00	0.3375	1.50	25.20	5.479	1.50	0.2277	14.50
5	7 -8 (RC)	450 X 750	215.2	92.2	+++++	4.653	0.163¥	0.163¥	1.00	0.3375	1.50	25.20	5.417	1.50	0.2277	14.19
5	8 -9 (RC)	450 X 750	215.2	92.2	+++++	4.780	0.162¥	0.163¥	1.00	0.3375	1.50	25.20	5.273	1.50	0.2277	13.50
5	9 -10 (RC)	450 X 750	215.2	92.2	+++++	5.385	0.162¥	0.163¥	1.00	0.3375	1.50	25.20	4.680	1.50	0.2277	10.80
5	10-0A (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.625	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
5	0A-11 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.600	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
5	11-1B (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.377	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.01
5	1B-12 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.921	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.00
4	1 -1A (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.739	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
4	1A-2 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.550	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
4	2 -3 (RC)	500 X 800	215.2	92.2	+++++	5.284	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	6.424	1.50	0.2697	12.64
4	3 -4 (RC)	500 X 800	215.2	92.2	+++++	5.016	0.175¥	0.175¥	1.00	0.4000	1.50	32.37	6.454	1.50	0.2679	13.45
4	4 -5 (RC)	500 X 800	215.2	92.2	+++++	4.754	0.175¥	0.175¥	1.00	0.4000	1.50	32.37	6.809	1.50	0.2679	14.85
4	5 -6 (RC)	500 X 800	215.2	92.2	+++++	4.653	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	7.295	1.50	0.2697	15.99
4	6 -7 (RC)	500 X 800	215.2	92.2	+++++	4.600	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	7.379	1.50	0.2697	16.32
4	7 -8 (RC)	500 X 800	215.2	92.2	+++++	4.653	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	7.295	1.50	0.2697	15.99
4	8 -9 (RC)	500 X 800	215.2	92.2	+++++	4.780	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	7.101	1.50	0.2697	15.22
4	9 -10 (RC)	500 X 800	215.2	92.2	+++++	5.385	0.175¥	0.175¥	1.00	0.4000	1.50	33.94	6.303	1.50	0.2697	12.20
4	10-0A (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.625	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
4	0A-11 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.600	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
4	11-1B (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.377	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.01
4	1B-12 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.921	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.00
3	1 -1A (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.739	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
3	1A-2 (S)	WH-3X3X1X1	2100.0	810.0	+++++	2.550	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
3	2 -3 (RC)	500 X 1700	215.2	92.2	+++++	5.284	0.000¥	0.025¥	1.00	0.8500	1.50	308.27	58.339	1.50	0.5679	35.46

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X	B XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(O/O)
3	3 -4	(RC)	500 X	1700	215.2	92.2	+----+	5.016	0.025	0.025	1.00	0.8500	1.50	307.06	61.215	1.50	0.5667	38.09
3	4 -5	(RC)	500 X	1700	215.2	92.2	+----+	4.754	0.025	0.025	1.00	0.8500	1.50	307.06	64.589	1.50	0.5667	40.68
3	5 -6	(RC)	500 X	1700	215.2	92.2	+----+	4.653	0.025¥	0.025¥	1.00	0.8500	1.50	319.49	68.663	1.50	0.5719	42.47
3	6 -7	(RC)	500 X	1700	215.2	92.2	+----+	4.600	0.025¥	0.025¥	1.00	0.8500	1.50	319.49	69.454	1.50	0.5719	43.04
3	7 -8	(RC)	500 X	1700	215.2	92.2	+----+	4.653	0.025¥	0.025¥	1.00	0.8500	1.50	319.49	68.663	1.50	0.5719	42.47
3	8 -9	(RC)	500 X	1700	215.2	92.2	+----+	4.780	0.025¥	0.025¥	1.00	0.8500	1.50	319.49	66.838	1.50	0.5719	41.15
3	9 -10	(RC)	500 X	1700	215.2	92.2	+----+	5.385	0.025	0.025	1.00	0.8500	1.50	307.06	57.021	1.50	0.5667	34.77
3	10-0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.625	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
3	0A-11	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.600	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
3	11-1B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.377	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.01
3	1B-12	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.921	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.00
2	1 -1A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.739	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
2	1A-2	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.550	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
2	2 -3	(RC)	500 X	900	215.2	92.2	+----+	5.284	0.175	0.225	1.00	0.4500	1.50	45.56	8.623	1.50	0.3000	15.13
2	3 -4	(RC)	500 X	900	215.2	92.2	+----+	5.016	0.225	0.225	1.00	0.4500	1.50	45.56	9.083	1.50	0.3000	16.94
2	4 -5	(RC)	400 X	700	215.2	92.2	+----+	4.754	0.275	0.275	1.00	0.2800	1.50	17.15	3.607	1.50	0.1867	12.71
2	5 -6	(RC)	500 X	900	215.2	92.2	+----+	4.653	0.225¥	0.225¥	1.00	0.4500	1.50	46.00	9.887	1.50	0.3012	19.49
2	6 -7	(RC)	500 X	900	215.2	92.2	+----+	4.600	0.225¥	0.225¥	1.00	0.4500	1.50	46.00	10.001	1.50	0.3012	19.89
2	7 -8	(RC)	500 X	900	215.2	92.2	+----+	4.653	0.225¥	0.225¥	1.00	0.4500	1.50	46.00	9.887	1.50	0.3012	19.49
2	8 -9	(RC)	500 X	900	215.2	92.2	+----+	4.780	0.225¥	0.225¥	1.00	0.4500	1.50	46.00	9.624	1.50	0.3012	18.57
2	9 -10	(RC)	500 X	900	215.2	92.2	+----+	5.385	0.225	0.225	1.00	0.4500	1.50	45.56	8.461	1.50	0.3000	14.86
2	10-0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.625	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
2	0A-11	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.600	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.00
2	11-1B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.377	0.000	0.000	1.00	0.0000	1.50	0.000000	0.000	1.00	0.0000	0.01
2	1B-12	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.921	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.00
1	1 -1A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.739	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
1	1A-2	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.550	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
1	2 -3	(RC)	500 X	900	215.2	92.2	+----+	5.284	0.175	0.225	1.00	0.4500	2.00	60.75	11.497	1.50	0.3000	19.20
1	3 -4	(RC)	500 X	900	215.2	92.2	+----+	5.016	0.225	0.225	1.00	0.4500	2.00	60.75	12.111	1.50	0.3000	21.38
1	4 -5	(RC)	500 X	900	215.2	92.2	+----+	4.754	0.225	0.225	1.00	0.4500	2.00	60.75	12.778	1.50	0.3000	23.43
1	5 -6	(RC)	500 X	900	215.2	92.2	+----+	4.653	0.225¥	0.225¥	1.00	0.4500	1.50	46.00	9.887	1.50	0.3012	19.49
1	6 -7	(RC)	500 X	900	215.2	92.2	+----+	4.600	0.225¥	0.225¥	1.00	0.4500	1.50	46.00	10.001	1.50	0.3012	19.89
1	7 -8	(RC)	500 X	900	215.2	92.2	+----+	4.653	0.225¥	0.225¥	1.00	0.4500	1.50	46.00	9.887	1.50	0.3012	19.49
1	8 -9	(RC)	500 X	900	215.2	92.2	+----+	4.780	0.225¥	0.225¥	1.00	0.4500	2.00	61.19	12.801	1.50	0.3012	23.27
1	9 -10	(RC)	500 X	900	215.2	92.2	+----+	5.385	0.225	0.225	1.00	0.4500	2.00	60.75	11.281	1.50	0.3000	18.88
1	10-0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.625	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
1	0A-11	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.600	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
1	11-1B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.377	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
1	1B-12	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.921	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.00
B1	1 -1A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.739	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
B1	1A-2	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.550	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.01
B1	2 -3	(RC)	450 X	1500	215.2	92.2	+----+	5.284	0.025	0.075	1.00	0.6750	2.00	253.12	47.903	1.50	0.4500	36.95
B1	3 -4	(RC)	450 X	1500	215.2	92.2	+----+	5.016	0.075	0.075	1.00	0.6750	2.00	253.12	50.462	1.50	0.4500	39.95
B1	4 -5	(RC)	300 X	1500	215.2	92.2	+----+	4.754	0.075	0.075	1.00	0.4500	2.00	168.75	35.496	1.50	0.3000	42.63
B1	5 -6	(RC)	450 X	1500	215.2	92.2	+----+	4.653	0.075¥	0.075¥	1.00	0.6750	2.00	253.12	54.399	1.50	0.4500	43.71
B1	6 -7	(RC)	450 X	1500	215.2	92.2	+----+	4.600	0.075¥	0.075¥	1.00	0.6750	2.00	253.12	55.026	1.50	0.4500	44.30
B1	7 -8	(RC)	450 X	1500	215.2	92.2	+----+	4.653	0.075¥	0.075¥	1.00	0.6750	2.00	253.12	54.399	1.50	0.4500	43.71
B1	8 -9	(RC)	450 X	1500	215.2	92.2	+----+	4.780	0.075¥	0.075¥	1.00	0.6750	2.00	253.12	52.954	1.50	0.4500	42.35
B1	9 -10	(RC)	450 X	1500	215.2	92.2	+----+	5.385	0.075	0.075	1.00	0.6750	2.00	253.12	47.005	1.50	0.4500	36.50

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/AO	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X	B XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
B1	10-0A	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.625	0.000	0.000	1.00	0.00000	2.00	0.000000	0.000	1.00	0.00000	0.01
B1	0A-11	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.600	0.000	0.000	1.00	0.00000	2.00	0.000000	0.000	1.00	0.00000	0.01
B1	11-1B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.377	0.000	0.000	1.00	0.00000	2.00	0.000000	0.000	1.00	0.00000	0.01
B1	1B-12	(S)	WH-3X3X1X1		2100.0	810.0	+----+	2.921	0.000	0.000	1.00	0.00000	2.00	0.000000	0.000	1.00	0.00000	0.00

*** COLUMN ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/AO	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X	B XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
5	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	4.300	0.000	0.000	99.00	1.2228	1.00	0.046105	0.105	1.00	0.0014	5.22
5	1A		SAME															
5	2	(RC)	750 X	750	215.2	92.2	+----+	4.300	0.280¥	0.251¥99.00	55.6875	1.00		26.37	6.132	1.50	0.3604	12.61
5	3	(RC)	750 X	700	215.2	92.2	+----+	4.300	0.668¥	0.442¥99.00	51.9750	1.00		21.44	4.985	1.50	0.2889	16.95
5	4	(RC)	750 X	700	215.2	92.2	+----+	4.300	0.621¥	0.421¥99.00	51.9750	1.00		21.44	4.985	1.50	0.2948	16.10
5	5	(RC)	750 X	700	215.2	92.2	+----+	4.300	0.587¥	0.406¥99.00	51.9750	1.00		21.44	4.985	1.50	0.2990	15.51
5	6	(RC)	750 X	700	215.2	92.2	+----+	4.300	0.573¥	0.400¥99.00	51.9750	1.00		21.44	4.985	1.50	0.3008	15.27
5	7		SAME															
5	8	(RC)	750 X	700	215.2	92.2	+----+	4.300	0.589¥	0.407¥99.00	51.9750	1.00		21.44	4.985	1.50	0.2987	15.55
5	9	(RC)	750 X	700	215.2	92.2	+----+	4.300	0.658¥	0.437¥99.00	51.9750	1.00		21.44	4.985	1.50	0.2902	16.76
5	10	(RC)	750 X	700	215.2	92.2	+----+	4.300	0.318¥	0.276¥99.00	51.9750	1.00		21.44	4.985	1.50	0.3332	11.60
5	0A	(RC)	200 X	1000	215.2	92.2	+----+	4.300	0.000	0.000 99.00	19.8000	1.00		16.67	3.876	1.50	0.1333	15.92
5	11	(S)	WH-200X200X8X12		2100.0	810.0	+----+	4.300	0.000	0.000 99.00	1.2228	1.00	0.046105	0.105	1.00	0.0014	5.22	
5	12		SAME															
4	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	3.600	0.000	0.000 99.00	1.2228	1.00	0.046105	0.125	1.00	0.0014	7.29	
4	1A		SAME															
4	2	(RC)	750 X	750	215.2	92.2	+----+	3.600	0.266¥	0.282¥99.00	55.6875	1.00		26.37	7.324	1.50	0.3600	18.04
4	3	(RC)	750 X	700	215.2	92.2	+----+	3.600	0.514¥	0.497¥99.00	51.9750	1.00		21.44	5.955	1.50	0.2892	23.64
4	4	(RC)	750 X	700	215.2	92.2	+----+	3.600	0.485¥	0.473¥99.00	51.9750	1.00		21.44	5.955	1.50	0.2949	22.58
4	5	(RC)	750 X	700	215.2	92.2	+----+	3.600	0.465¥	0.455¥99.00	51.9750	1.00		21.44	5.955	1.50	0.2990	21.85
4	6	(RC)	750 X	700	215.2	92.2	+----+	3.600	0.456¥	0.448¥99.00	51.9750	1.00		21.44	5.955	1.50	0.3007	21.54
4	7		SAME															
4	8	(RC)	750 X	700	215.2	92.2	+----+	3.600	0.466¥	0.456¥99.00	51.9750	1.00		21.44	5.955	1.50	0.2987	21.90
4	9	(RC)	750 X	700	215.2	92.2	+----+	3.600	0.507¥	0.492¥99.00	51.9750	1.00		21.44	5.955	1.50	0.2904	23.41
4	10	(RC)	750 X	700	215.2	92.2	+----+	3.600	0.295¥	0.308¥99.00	51.9750	1.00		21.44	5.955	1.50	0.3327	16.72
4	0A	(RC)	200 X	1000	215.2	92.2	+----+	3.600	0.000	0.000 99.00	19.8000	1.00		16.67	4.630	1.50	0.1333	21.26
4	11	(S)	WH-200X200X8X12		2100.0	810.0	+----+	3.600	0.000	0.000 99.00	1.2228	1.00	0.046105	0.125	1.00	0.0014	7.29	
4	12		SAME															
3	1	(S)	WH-200X200X8X12		2100.0	810.0	+----+	3.800	0.000	0.000 99.00	1.2228	1.00	0.046105	0.118	1.00	0.0014	6.59	
3	1A		SAME															
3	2	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.271¥	0.733¥99.00	55.6875	1.00		26.37	6.939	1.50	0.3607	20.74
3	3		SAME															
3	4	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.212	0.662 99.00	55.6875	1.00		26.37	6.939	1.50	0.3750	18.71
3	5	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.255¥	0.714¥99.00	55.6875	1.00		26.37	6.939	1.50	0.3647	20.17
3	6	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.378¥	0.864¥99.00	55.6875	1.00		26.37	6.939	1.50	0.3313	25.40
3	7		SAME															
3	8	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.385¥	0.872¥99.00	55.6875	1.00		26.37	6.939	1.50	0.3293	25.74
3	9	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.413¥	0.907¥99.00	55.6875	1.00		26.37	6.939	1.50	0.3215	27.18
3	10	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.273¥	0.736¥99.00	55.6875	1.00		26.37	6.939	1.50	0.3600	20.84
3	0A	(RC)	200 X	1000	215.2	92.2	+----+	3.800	0.000	0.000 99.00	19.8000	1.00		16.67	4.386	1.50	0.1333	19.51

FL	POSIT.	(RC, SRC)	B X D	E	G	(T)-(B)	L	RT	RB	A/AO	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(O/O)
3	11	(S)	WH-200X200X8X12	2100.0	810.0	+----+	3.800	0.000	0.000	99.00	1.2228	1.00	0.046105	0.118	1.00	0.0014	6.59
3	12	SAME															
2	1	(S)	WH-200X200X8X12	2100.0	810.0	+----+	5.800	0.000	0.000	99.00	1.2228	1.00	0.046105	0.078	1.00	0.0014	2.94
2	1A	SAME															
2	2	(RC)	800 X 800	215.2	92.2	+----+	5.800	0.650	0.250	99.00	63.3600	1.00	34.13	5.885	1.50	0.4267	8.53
2	3	(RC)	900 X 900	215.2	92.2	+----+	5.800	0.625	0.225	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.37
2	5	SAME															
2	6	(RC)	900 X 900	215.2	92.2	+----+	5.800	0.876¥	0.326¥	99.00	80.1900	1.00	54.67	9.427	1.50	0.5064	12.51
2	7	SAME															
2	8	(RC)	900 X 900	215.2	92.2	+----+	5.800	0.889¥	0.331¥	99.00	80.1900	1.00	54.67	9.427	1.50	0.5045	12.64
2	9	(RC)	900 X 900	215.2	92.2	+----+	5.800	0.625	0.225	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.37
2	10	SAME															
2	0A	(RC)	200 X 1000	215.2	92.2	+----+	5.800	0.000	0.000	99.00	19.8000	1.00	16.67	2.874	1.50	0.1333	9.42
2	11	(S)	WH-200X200X8X12	2100.0	810.0	+----+	5.800	0.000	0.000	99.00	1.2228	1.00	0.046105	0.078	1.00	0.0014	2.94
2	12	SAME															
1	1	(S)	WH-200X200X8X12	2100.0	810.0	+----+	4.000	0.000	0.000	99.00	1.2228	1.00	0.046105	0.112	1.00	0.0014	5.99
1	1A	SAME															
1	2	(RC)	800 X 800	215.2	92.2	+----+	4.000	0.250	0.250	99.00	63.3600	1.00	34.13	8.533	1.50	0.4267	15.46
1	3	(RC)	900 X 900	215.2	92.2	+----+	4.000	0.225	0.225	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	18.36
1	10	SAME															
1	0A	(RC)	200 X 1000	215.2	92.2	+----+	4.000	0.000	0.000	99.00	19.8000	1.00	16.67	4.167	1.50	0.1333	17.95
1	11	(S)	WH-200X200X8X12	2100.0	810.0	+----+	4.000	0.000	0.000	99.00	1.2228	1.00	0.046105	0.112	1.00	0.0014	5.99
1	12	SAME															
B1	1	(RC)	200 X 200	215.2	92.2	+----+	4.500	0.000	0.000	99.00	3.9600	1.00	0.13	0.030	1.50	0.0267	0.69
B1	1A	(S)	WH-200X200X8X12	2100.0	810.0	+----+	4.500	0.000	0.000	99.00	1.2228	1.00	0.046105	0.100	1.00	0.0014	4.79
B1	2	(RC)	800 X 800	215.2	92.2	+----+	4.500	0.250	0.550	99.00	63.3600	1.00	34.13	7.585	1.50	0.4267	14.06
B1	3	(RC)	900 X 900	215.2	92.2	+----+	4.500	0.225	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.78
B1	4	SAME															
B1	5	(RC)	900 X 900	215.2	92.2	+----+	4.500	0.248¥	0.525¥	99.00	80.1900	1.00	54.67	12.150	1.50	0.5371	17.03
B1	6	(RC)	900 X 900	215.2	92.2	+----+	4.500	0.321¥	0.525¥	99.00	80.1900	1.00	54.67	12.150	1.50	0.5272	17.86
B1	7	SAME															
B1	8	(RC)	900 X 900	215.2	92.2	+----+	4.500	0.325¥	0.525¥	99.00	80.1900	1.00	54.67	12.150	1.50	0.5266	17.91
B1	9	(RC)	900 X 900	215.2	92.2	+----+	4.500	0.250¥	0.525¥	99.00	80.1900	1.00	54.67	12.150	1.50	0.5369	17.05
B1	10	(RC)	900 X 900	215.2	92.2	+----+	4.500	0.225	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.78
B1	0A	(RC)	200 X 1000	215.2	92.2	+----+	4.500	0.000	0.000	99.00	19.8000	1.00	16.67	3.704	1.50	0.1333	14.74
B1	11	(S)	WH-200X200X8X12	2100.0	810.0	+----+	4.500	0.000	0.000	99.00	1.2228	1.00	0.046105	0.100	1.00	0.0014	4.79
B1	12	SAME															

*** WALL ***

BETA*=GAMMA*BETA/KAPPA

FL	POSIT.	L	H	T	E	G	GAMMA	BETA	KAPPA	BETA*	A/AO	A	I/I0	I
		(M)	(M)	(MM)	(T/CM2)	(T/CM2)						(M2)		(M4)
2	3 -4	5.016	5.800	200	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.0032	1.000	2.1034
2	4 -5	4.754	5.800	200	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.9508	1.000	1.7907
2	9 -10	5.385	5.800	180	215.2	92.2	1.000	0.500	1.000	0.500	1.000	0.9693	1.000	2.3423

3 FRAME FRAME ANGLE= 90.00 POSITION(XO= 9.200 , YO= 0.000)

DATE= 04/08/93 , TIME=15.48.48

*** GIRDER ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
R	B	-C (RC)	400 X	800	215.2	92.2	+----+	3.000	0.000	0.175	1.00	0.3200	2.00	34.13	11.377	1.50	0.2133	35.95
R	C	-E (RC)	450 X	750	215.2	92.2	+----+	5.900	0.188	0.188	1.00	0.3375	2.00	31.64	5.363	1.50	0.2250	11.42
5	B	-C (RC)	400 X	800	215.2	92.2	+----+	3.000	0.000	0.175	1.00	0.3200	2.00	34.13	11.377	1.50	0.2133	35.95
5	C	-E (RC)	450 X	750	215.2	92.2	+----+	5.900	0.188	0.188	1.00	0.3375	2.00	31.64	5.363	1.50	0.2250	11.42
4	B	-C (RC)	400 X	800	215.2	92.2	+----+	3.000	0.000	0.175	1.00	0.3200	2.00	34.13	11.377	1.50	0.2133	35.95
4	C	-E (RC)	450 X	750	215.2	92.2	+----+	5.900	0.188	0.188	1.00	0.3375	2.00	31.64	5.363	1.50	0.2250	11.42
4	E	-G (RC)	500 X	1000	215.2	92.2	+----+	4.125	0.125¥	0.000¥	1.00	0.5000	0.10	4.82	1.168	1.50	0.3347	2.46
3	B	-C (RC)	400 X	800	215.2	92.2	+----+	3.000	0.000	0.250	1.00	0.3200	2.00	34.13	11.377	1.50	0.2133	37.20
3	C	-E (RC)	400 X	1700	215.2	92.2	+----+	5.900	0.025	0.025	1.00	0.6800	2.00	327.53	55.513	1.50	0.4533	37.15
3	E	-G (RC)	500 X	1500	215.2	92.2	+----+	4.125	0.075¥	0.000¥	1.00	0.7500	0.10	15.04	3.647	1.50	0.5012	4.87
2	B	-C (RC)	400 X	800	215.2	92.2	+----+	3.000	0.000	0.250	1.00	0.3200	2.00	34.13	11.377	1.50	0.2133	37.20
2	C	-E (RC)	500 X	1000	215.2	92.2	+----+	5.900	0.200	0.200	1.00	0.5000	2.00	83.33	14.124	1.50	0.3333	18.79
2	E	-G (S)	WH-3X3X1X1		2100.0	810.0	+----+	4.125	0.000	0.000	1.00	0.0000	2.00	0.000000	0.000	1.00	0.0000	0.00
1	A	-B (RC)	450 X	900	215.2	92.2	+----+	4.699	0.150	0.000	1.00	0.4050	2.00	54.67	11.635	1.50	0.2700	21.51
1	B	-C (RC)	450 X	900	215.2	92.2	+----+	3.000	0.000	0.225	1.00	0.4050	2.00	54.67	18.224	1.50	0.2700	42.40
1	C	-E (RC)	500 X	750	215.2	92.2	+----+	5.900	0.262	0.262	1.00	0.3750	2.00	35.16	5.959	1.50	0.2500	11.99
1	E	-F (RC)	400 X	700	215.2	92.2	0---0	2.900	0.275¥	0.205¥	1.00	0.2800	2.00	25.41	8.763	1.50	0.1899	39.01
B1	A	-B (RC)	450 X	1500	215.2	92.2	+----+	4.699	0.000	0.000	1.00	0.6750	2.00	253.12	53.867	1.50	0.4500	41.63
B1	B	-C (RC)	450 X	1500	215.2	92.2	+----+	3.000	0.000	0.075	1.00	0.6750	2.00	253.12	84.372	1.50	0.4500	64.80
B1	C	-E (RC)	450 X	1500	215.2	92.2	+----+	5.900	0.075	0.075	1.00	0.6750	2.00	253.12	42.902	1.50	0.4500	32.27
B1	E	-F (RC)	400 X	1500	215.2	92.2	0---0	2.900	0.075¥	0.012¥	1.00	0.6000	2.00	225.00	77.583	1.50	0.3996	66.58

*** COLUMN ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
5	B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	4.300	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
5	C	(RC)	750 X	750	215.2	92.2	+----+	4.300	0.212	0.212	99.00	55.6875	1.00	26.37	6.132	1.50	0.3750	11.59
5	E	(RC)	700 X	750	215.2	92.2	+----+	4.300	0.187	0.187	99.00	51.9750	1.00	24.61	5.723	1.50	0.3500	11.33
4	B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	3.600	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
4	C	(RC)	750 X	750	215.2	92.2	+----+	3.600	0.212	0.212	99.00	55.6875	1.00	26.37	7.324	1.50	0.3750	16.34
4	E	(RC)	700 X	750	215.2	92.2	+----+	3.600	0.187	0.312	99.00	51.9750	1.00	24.61	6.836	1.50	0.3500	17.00
3	B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	3.800	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
3	C	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.212	0.662	99.00	55.6875	1.00	26.37	6.939	1.50	0.3750	18.71
3	E	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.345¥	0.708¥	99.00	55.6875	1.00	26.37	6.939	1.50	0.3664	21.07
3	G	(RC)	200 X	200	215.2	92.2	+----+	3.800	0.872¥	1.250¥	99.00	3.9600	1.00	0.13	0.035	1.50	0.0178	6.92
2	B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	5.800	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
2	C	(RC)	900 X	900	215.2	92.2	+----+	5.800	0.625	0.275	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.56
2	E	SAME																
2	G	(S)	WH-200X200X8X12		2100.0	810.0	+----+	5.800	0.000	0.000	99.00	1.2228	1.00	0.046105	0.078	1.00	0.0014	2.94
1	B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	4.000	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00
1	C	(RC)	900 X	900	215.2	92.2	+----+	4.000	0.275	0.225	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	18.79
1	E	(RC)	900 X	900	215.2	92.2	+----+	4.000	0.275	0.150	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	18.15
B1	A	(RC)	750 X	750	215.2	92.2	+----+	4.500	0.262	0.562	99.00	55.6875	1.00	26.37	5.859	1.50	0.3750	12.72
B1	B	(S)	WH-3X3X1X1		2100.0	810.0	+----+	4.500	0.000	0.000	99.00	0.0013	1.00	0.000000	0.000	1.00	0.0000	0.00

FL POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/A0	A	I/I0	I	K'	KAPPA	AS	DS/DT
	(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
B1 C	(RC)	900 X	900	215.2	92.2	+---+	4.500	0.225	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.78
B1 E	(RC)	900 X	900	215.2	92.2	+---+	4.500	0.150	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.23
B1 F	(RC)	750 X	750	215.2	92.2	+---+	4.500	0.176¥	0.562¥	99.00	55.6875	1.00	26.68	5.930	1.50	0.3752	12.33

*** WALL ***

$$\text{BETA}' = \text{GAMMA} * \text{BETA} / \text{KAPPA}$$

FL POSIT.	L	H	T	E	G	GAMMA	BETA	KAPPA	BETA'	A/A0	A	I/I0	I
	(M)	(M)	(MM)	(T/CM2)	(T/CM2)						(M2)		(M4)
B1 C -E	5.900	4.500	300	215.2	92.2	0.580	0.150	1.000	0.087	1.000	1.7700	1.000	5.1345

6 FRAME FRAME ANGLE= 90.00 POSITION(X0= 23.000 , Y0= 0.000)

DATE=04/08/93 , TIME=15.48.48

*** GIRDER ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
R	B	-C (RC)	400 X	700	215.2	92.2	+----+	7.199	0.200	0.200	1.00	0.2800	2.00	22.87	3.176	1.50	0.1867	6.91
R	C	-E (RC)	400 X	900	215.2	92.2	+----+	9.800	0.157¥	0.212¥	1.00	0.3600	2.00	49.62	5.063	1.50	0.2413	6.08
5	B	-C (RC)	400 X	700	215.2	92.2	+----+	7.199	0.200	0.200	1.00	0.2800	2.00	22.87	3.176	1.50	0.1867	6.91
5	C	-E (RC)	450 X	900	215.2	92.2	+----+	9.800	0.167¥	0.449¥	1.00	0.4050	2.00	54.84	5.596	1.50	0.2654	6.42
4	B	-C (RC)	400 X	700	215.2	92.2	+----+	7.199	0.200	0.200	1.00	0.2800	2.00	22.87	3.176	1.50	0.1867	6.91
4	C	-E (RC)	450 X	900	215.2	92.2	+----+	9.800	0.154¥	0.207¥	1.00	0.4050	2.00	54.67	5.579	1.50	0.2702	5.98
3	B	-C (RC)	400 X	700	215.2	92.2	+----+	7.199	0.275	0.275	1.00	0.2800	2.00	22.87	3.176	1.50	0.1867	7.20
3	C	-E (RC)	400 X	1700	215.2	92.2	+----+	9.800	0.025	0.025	1.00	0.6800	2.00	327.53	33.421	1.50	0.4533	17.55
2	B	-C (RC)	400 X	700	215.2	92.2	+----+	7.199	0.275	0.275	1.00	0.2800	2.00	22.87	3.176	1.50	0.1867	7.20
2	C	-E (RC)	550 X	1100	215.2	92.2	+----+	9.800	0.175	0.175	1.00	0.6050	2.00	122.01	12.450	1.50	0.4033	8.66
1	B	-C (RC)	400 X	700	215.2	92.2	+----+	7.199	0.275	0.275	1.00	0.2800	2.00	22.87	3.176	1.50	0.1867	7.20
1	C	-E (RC)	450 X	900	215.2	92.2	+----+	9.800	0.225	0.225	1.00	0.4050	2.00	54.67	5.579	1.50	0.2700	6.09
B1	B	-C (RC)	500 X	1500	215.2	92.2	+----+	7.199	0.075	0.075	1.00	0.7500	2.00	281.25	39.067	1.50	0.5000	24.07
B1	C	-E (RC)	450 X	1500	215.2	92.2	+----+	9.800	0.075	0.075	1.00	0.6750	2.00	253.12	25.829	1.50	0.4500	14.47

*** COLUMN ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X B	XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
5	B	(RC)	700 X	750	215.2	92.2	+----+	4.300	0.162	0.162	99.00	51.9750	1.00	24.61	5.723	1.50	0.3500	11.08
5	C	(RC)	750 X	750	215.2	92.2	+----+	4.300	0.262	0.262	99.00	55.6875	1.00	26.37	6.132	1.50	0.3750	12.14
5	E	(RC)	700 X	750	215.2	92.2	+----+	4.300	0.263¥	0.263¥	99.00	51.9750	1.00	49.00	11.396	1.50	0.3590	21.15
4	B	(RC)	700 X	750	215.2	92.2	+----+	3.600	0.162	0.162	99.00	51.9750	1.00	24.61	6.836	1.50	0.3500	15.51
4	C	(RC)	750 X	750	215.2	92.2	+----+	3.600	0.262	0.262	99.00	55.6875	1.00	26.37	7.324	1.50	0.3750	17.23
4	E	(RC)	700 X	750	215.2	92.2	+----+	3.600	0.263¥	0.263¥	99.00	51.9750	1.00	49.00	13.612	1.50	0.3590	28.78
3	B	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.162	0.162	99.00	55.6875	1.00	26.37	6.939	1.50	0.3750	14.02
3	C	(RC)	750 X	750	215.2	92.2	+----+	3.800	0.262	0.262	99.00	55.6875	1.00	26.37	6.939	1.50	0.3750	19.24
3	E	SAME																
2	B	(RC)	900 X	900	215.2	92.2	+----+	5.800	0.125	0.125	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	8.43
2	C	(RC)	900 X	900	215.2	92.2	+----+	5.800	0.325	0.325	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.76
2	E	SAME																
1	B	(RC)	900 X	900	215.2	92.2	+----+	4.000	0.125	0.125	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	16.78
1	C	(RC)	900 X	900	215.2	92.2	+----+	4.000	0.325	0.225	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	19.24
1	E	SAME																
B1	B	(RC)	900 X	900	215.2	92.2	+----+	4.500	0.125	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.06
B1	C	(RC)	900 X	900	215.2	92.2	+----+	4.500	0.225	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.78
B1	E	SAME																

*** WALL ***

$$BETA^* = GAMMA * BETA / KAPPA$$

FL	POSIT.	L	H	T	E	G	GAMMA	BETA	KAPPA	BETA*	A/A0	A	I/I0	I
		(M)	(M)	(MM)	(T/CM2)	(T/CM2)						(M2)		(M4)
5	B -C	7.199	4.300	200	215.2	92.2	1.000	0.600	1.000	0.600	1.000	1.4398	1.000	6.2182
4	B -C	7.199	3.600	200	215.2	92.2	1.000	0.600	1.000	0.600	1.000	1.4398	1.000	6.2182
3	B -C	7.199	3.800	200	215.2	92.2	1.000	0.500	1.000	0.500	1.000	1.4398	1.000	6.2182
2	B -C	7.199	5.800	200	215.2	92.2	0.598	0.500	1.000	0.299	1.000	1.4398	1.000	6.2182
1	B -C	7.199	4.000	300	215.2	92.2	0.671	0.850	1.000	0.570	1.000	2.1597	1.000	9.3273
B1	B -C	7.199	4.500	300	215.2	92.2	0.570	0.500	1.000	0.285	1.000	2.1597	1.000	9.3273

7 FRAME FRAME ANGLE= 90.00 POSITION(XO= 27.600 , YO= 0.000)

DATE=04/08/93 , TIME=15.48.48

*** GIRDER ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(L)-(R)	L	RL	RR	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X	B XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
R	B -C	(RC)	450 X	750	215.2	92.2	+++++	7.199	0.188¥	0.275¥	1.00	0.3375	2.00	31.64	4.395	1.50	0.2233	8.04
R	C -E	(RC)	400 X	900	215.2	92.2	+++++	9.800	0.150	0.150	1.00	0.3600	2.00	48.60	4.959	1.50	0.2400	5.91
5	B -C	(RC)	450 X	750	215.2	92.2	+++++	7.199	0.188¥	0.492¥	1.00	0.3375	2.00	31.64	4.395	1.50	0.2170	8.76
5	C -E	(RC)	450 X	900	215.2	92.2	+++++	9.800	0.150	0.150	1.00	0.4050	2.00	54.67	5.579	1.50	0.2700	5.91
4	B -C	(RC)	450 X	750	215.2	92.2	+++++	7.199	0.188¥	0.243¥	1.00	0.3375	2.00	31.64	4.395	1.50	0.2241	7.94
4	C -E	(RC)	450 X	900	215.2	92.2	+++++	9.800	0.150	0.150	1.00	0.4050	2.00	54.67	5.579	1.50	0.2700	5.91
3	B -C	(RC)	400 X	1700	215.2	92.2	+++++	7.199	0.025	0.025	1.00	0.6800	2.00	327.53	45.496	1.50	0.4533	28.36
3	C -E	(RC)	400 X	1700	215.2	92.2	+++++	9.800	0.025	0.025	1.00	0.6800	2.00	327.53	33.421	1.50	0.4533	17.55
2	B -C	(RC)	500 X	1000	215.2	92.2	+++++	7.199	0.200¥	0.233¥	1.00	0.5000	2.00	83.33	11.576	1.50	0.3331	13.27
2	C -E	(RC)	550 X	1100	215.2	92.2	+++++	9.800	0.175	0.175	1.00	0.6050	2.00	122.01	12.450	1.50	0.4033	8.66
1	B -C	(RC)	500 X	750	215.2	92.2	+++++	7.199	0.262¥	0.319¥	1.00	0.3750	2.00	35.16	4.883	1.50	0.2492	8.27
1	C -E	(RC)	450 X	900	215.2	92.2	+++++	9.800	0.225	0.225	1.00	0.4050	2.00	54.67	5.579	1.50	0.2700	6.09
B1	B -C	(RC)	500 X	1500	215.2	92.2	+++++	7.199	0.075	0.075	1.00	0.7500	2.00	281.25	39.067	1.50	0.5000	24.07
B1	C -E	(RC)	450 X	1500	215.2	92.2	+++++	9.800	0.075	0.075	1.00	0.6750	2.00	253.12	25.829	1.50	0.4500	14.47

*** COLUMN ***

$$K^* = I/L * (E/E0)$$

FL	POSIT.	(RC, SRC)	B X	D	E	G	(T)-(B)	L	RT	RB	A/A0	A	I/I0	I	K*	KAPPA	AS	DS/DT
		(S)	A X	B XT1XT2	(T/CM2)	(T/CM2)		(M)	(M)	(M)		(M2)		(CM4*10**5)			(M2)	(0/0)
5	B	(RC)	700 X	750	215.2	92.2	+++++	4.300	0.188¥	0.187¥	99.00	51.9750	1.00	24.61	5.723	1.50	0.3500	11.33
5	C	(RC)	750 X	750	215.2	92.2	+++++	4.300	0.262	0.262	99.00	55.6875	1.00	26.37	6.132	1.50	0.3750	12.14
5	E	(RC)	700 X	750	215.2	92.2	+++++	4.300	0.262	0.262	99.00	51.9750	1.00	24.61	5.723	1.50	0.3500	12.14
4	B	(RC)	700 X	750	215.2	92.2	+++++	3.600	0.188¥	0.188¥	99.00	51.9750	1.00	24.61	6.836	1.50	0.3500	15.92
4	C	(RC)	750 X	750	215.2	92.2	+++++	3.600	0.262	0.262	99.00	55.6875	1.00	26.37	7.324	1.50	0.3750	17.23
4	E	(RC)	700 X	750	215.2	92.2	+++++	3.600	0.262	0.262	99.00	51.9750	1.00	24.61	6.836	1.50	0.3500	17.23
3	B	(RC)	750 X	750	215.2	92.2	+++++	3.800	0.187	0.662	99.00	55.6875	1.00	26.37	6.939	1.50	0.3750	18.45
3	C	(RC)	750 X	750	215.2	92.2	+++++	3.800	0.262	0.662	99.00	55.6875	1.00	26.37	6.939	1.50	0.3750	19.24
3	E	SAME																
2	B	(RC)	900 X	900	215.2	92.2	+++++	5.800	0.625	0.275	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.56
2	C	(RC)	900 X	900	215.2	92.2	+++++	5.800	0.625	0.325	99.00	80.1900	1.00	54.67	9.427	1.50	0.5400	10.76
2	E	SAME																
1	B	(RC)	900 X	900	215.2	92.2	+++++	4.000	0.324¥	0.150¥	99.00	80.1900	1.00	54.67	13.669	1.50	0.5332	18.76
1	C	(RC)	900 X	900	215.2	92.2	+++++	4.000	0.325¥	0.225¥	99.00	80.1900	1.00	62.99	15.747	1.50	0.5456	21.36
1	E	(RC)	900 X	900	215.2	92.2	+++++	4.000	0.325	0.225	99.00	80.1900	1.00	54.67	13.669	1.50	0.5400	19.24
B1	B	(RC)	900 X	900	215.2	92.2	+++++	4.500	0.150	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.23
B1	C	(RC)	900 X	900	215.2	92.2	+++++	4.500	0.225	0.525	99.00	80.1900	1.00	54.67	12.150	1.50	0.5400	16.78
B1	E	SAME																

*** WALL ***

$$BETA^* = GAMMA * BETA / KAPPA$$

FL	POSIT.	L	H	T	E	G	GAMMA	BETA	KAPPA	BETA*	A/A0	A	I/I0	I
		(M)	(M)	(MM)	(T/CM2)	(T/CM2)						(M2)		(M4)
5	C -E	9.800	4.300	200	215.2	92.2	0.635	0.200	1.000	0.127	1.000	1.9600	1.000	15.6865
4	C -E	9.800	3.600	200	215.2	92.2	0.601	0.200	1.000	0.120	1.000	1.9600	1.000	15.6865
3	C -E	9.800	3.800	200	215.2	92.2	0.611	0.200	1.000	0.122	1.000	1.9600	1.000	15.6865

B FRAME

R	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
4.300																		
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
5	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
3.600																		
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
4	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
3.800																		
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
3	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
5.800																		
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
2	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
4.000																		
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
1	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---	+	---
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
4.500																		
	I		I		I		I		I		I		I		I		I	
	I		I		I		I		I		I		I		I		I	
B1	+	---	+	---	+</													

$$\begin{array}{cccccccc}
 I & & I & & I & & I & & I & & I & & I & & I \\
 +---2.299---+---2.300---+---5.099---+---5.099---+---4.808---+---4.639---+---4.600---+---4.639---+--- \\
 I & & 1A & & 2 & & 3 & & 4 & & 5 & & 6 & & 7 & & 8
 \end{array}$$

$$\begin{array}{cccccccccccccccc} & & \text{I} & & & \text{I} & & & \text{I} & & & \text{I} & & & \text{I} & & & \text{I} \\ -4.730 & - & + & - & - & 5.016 & - & + & - & - & 2.625 & - & + & - & - & 4.940 & - & + & - & - & 2.470 & - & + & - & - & 2.300 & - & + \\ & & 9 & & & 10 & & & 0A & & & 11 & & & 1B & & & 12 \end{array}$$

$$\begin{array}{cccccccc}
 I & & I & & I & & I & & I & & I & & I \\
 +-----2.299-----+-----2.300-----+-----4.600-----+-----4.600-----+-----4.600-----+-----4.600-----+-----4.600-----+-----4.600-----+-----4.600-----+-----4.600-----+----- \\
 1 & & 1A & & 2 & & 3 & & 4 & & 5 & & 6 & & 7 & & 8
 \end{array}$$

R	+---5.59---+---6.02---+---12.86---+---8.79---+			
	//////////I	I	I	I
	//////W 180///I	I	I	I
	//////////6.13	6.86	0.00	3.39
	//////////I	I	I	I
	//////////I	I	I	I
5	+---6.88---+---7.01---+---15.82---+---8.79---+			
	//////////I	I	I	I
	//////W 180///I	I	I	I
	//////////7.32	8.19	0.00	4.05
	//////////I	I	I	I
	//////////I	I	I	I
4	+---9.28---+---9.47---+---21.33---+---8.79---+			
	//////////I	I	I	I
	//////W 180///I	I	I	I
	//////////6.94	7.76	0.00	3.84
	//////////I	I	I	I
	//////////I	I	I	I
3	+---89.00---+---89.00---+---204.70---+---157.46---+			
	I	I	I	I
	I	I	I	I
	9.43	10.00	0.00	2.51
	I	I	I	I
	I	I	I	I
2	+---13.21---+---13.21---+---30.37---+---8.79---+			
	//////////I	I	I	I
	//////W 250///I	I	I	I
	//////////13.67	14.50	0.00	3.65
	//////////I	I	I	I
	//////////I	I	I	I
1	+---4.97---+---5.52---+---19.20---+---14.77---+---16.69---+0---16.69---0+			
	I	I//////////I//////////I//////////I		I
	I	I//////W 250///I//////W 250///I//////W 180///I		I
	15.52	12.15//////////0.03//////////3.31//////////0.03		5.86
	I	I//////////I//////////I//////////I		I
	I	I//////////I//////////I//////////I		I
B1	+---55.03---+---55.03---+---112.49---+---86.53---+---110.05---+0---110.05---0+			
	I	I	I	I
	--4.600---+---4.600---+---2.000---+---2.600---+---2.300---+---2.300---+			
	9	10	0A	11
				1B
				12

R	+	---	0.00	---	0.00	---	3.98	---	4.19	---	4.42	---	4.52	---	4.57	---	4.52	---	+
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
4.300	0.10		0.10		6.13		4.99		4.99		4.99		4.99		4.99		4.99		4.99
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
5	+	---	0.00	---	0.00	---	4.77	---	5.02	---	5.30	---	5.42	---	5.48	---	5.42	---	+
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
3.600	0.12		0.12		7.32		5.95		5.95		5.95		5.95		5.95		5.95		5.95
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
4	+	---	0.00	---	0.00	---	6.42	---	6.45	---	6.81	---	7.29	---	7.38	---	7.29	---	+
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
3.800	0.12		0.12		6.94		6.94		6.94		6.94		6.94		6.94		6.94		6.94
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
3	+	---	0.00	---	0.00	---	58.34	---	61.22	---	64.59	---	68.66	---	69.45	---	68.66	---	+
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
5.800	0.08		0.08		5.89		9.43		9.43		9.43		9.43		9.43		9.43		9.43
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
2	+	---	0.00	---	0.00	---	8.62	---	9.08	---	3.61	---	9.89	---	10.00	---	9.89	---	+
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
4.000	0.11		0.11		8.53		13.67		13.67		13.67		13.67		13.67		13.67		13.67
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
1	+	---	0.00	---	0.00	---	11.50	---	12.11	---	12.78	---	9.89	---	10.00	---	9.89	---	+
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
4.500	0.03		0.10		7.59		12.15		12.15		12.15		12.15		12.15		12.15		12.15
	I		I		I		I		I		I		I		I		I		I
	I		I		I		I		I		I		I		I		I		I
B1	+	---	0.00	---	0.00	---	47.90	---	50										

R	+---4.40---	+---3.90---	+---0.00---	+---0.00---	+---0.00---	+---0.00---	+
	I	I	I	I	I	I	I
	I	I	I	I	I	I	I
	4.99	4.99	3.88	0.10	0.10	0.10	
	I	I	I	I	I	I	I
5	+---5.27---	+---4.68---	+---0.00---	+---0.00---	+---0.00---	+---0.00---	+
	I	I	I	I	I	I	I
	I	I	I	I	I	I	I
	5.95	5.95	4.63	0.12	0.12	0.12	
	I	I	I	I	I	I	I
4	+---7.10---	+---6.30---	+---0.00---	+---0.00---	+---0.00---	+---0.00---	+
	I	I	I	I	I	I	I
	I	I	I	I	I	I	I
	6.94	6.94	4.39	0.12	0.12	0.12	
	I	I	I	I	I	I	I
3	+---66.84---	+---57.02---	+---0.00---	+---0.00---	+---0.00---	+---0.00---	+
	I/////////I	I	I	I	I	I	I
	I////W 180///I	I	I	I	I	I	I
	9.43/////////9.43	2.87	0.08	0.08	0.08	0.08	
	I/////////I	I	I	I	I	I	I
	I/////////I	I	I	I	I	I	I
2	+---9.62---	+---8.46---	+---0.00---	+---0.00---	+---0.00---	+---0.00---	+
	I	I	I	I	I	I	I
	I	I	I	I	I	I	I
	13.67	13.67	4.17	0.11	0.11	0.11	
	I	I	I	I	I	I	I
1	+---12.80---	+---11.28---	+---0.00---	+---0.00---	+---0.00---	+---0.00---	+
	I	I	I	I	I	I	I
	I	I	I	I	I	I	I
	12.15	12.15	3.70	0.10	0.10	0.10	
	I	I	I	I	I	I	I
81	+---52.95---	+---47.00---	+---0.00---	+---0.00---	+---0.00---	+---0.00---	+
	I	I	I	I	I	I	I
	--4.780---	--5.385---	--2.625---	--2.600---	--2.377---	--2.921---	+
	9	10	0A	11	1B	12	

```

R  +--      +---11.38---+---5.36-----+
   I      I      I      I
   I      I      I      I
4.300  0.00      6.13      5.72
   I      I      I      I
   I      I      I      I
5  +--      +---11.38---+---5.36-----+
   I      I      I      I
   I      I      I      I
3.600  0.00      7.32      6.84
   I      I      I      I
   I      I      I      I
4  +--      +---11.38---+---5.36-----+---1.17-----+
   I      I      I      I      I
   I      I      I      I      I
3.800  0.00      6.94      6.94      0.04
   I      I      I      I      I
   I      I      I      I      I
3  +--      +---11.38---+---55.51-----+---3.65-----+
   I      I      I      I      I
   I      I      I      I      I
5.800  0.00      9.43      9.43      0.08
   I      I      I      I      I
   I      I      I      I      I
2  +--      +---11.38---+---14.12-----+---0.00-----+
   I      I      I      I      I
   I      I      I      I      I
4.000  0.00      13.67      13.67
   I      I      I      I
   I      I      I      I
1  +--      +---11.64---+---18.22---+---5.96-----+0---8.76---0+
   I      I      I      I//////////I      I
   I      I      I      I//////////I      I
4.500  5.86      0.00      12.15//////////12.15      5.93
   I      I      I      I//////////I      I
   I      I      I      I//////////I      I
B1 +--      +---53.87---+---84.37---+---42.90-----+0---77.58---0+

I      I      I      I      I      I      I
+---4.699---+---3.000---+---0.700---+---5.200---+---2.900---+---1.225---+
A      B      C      D      E      F      G

```

$$\begin{array}{ccccccccccc} \text{I} & & \text{I} & & \text{I} & & \text{I} & & \text{I} & & \text{I} & & \text{I} \\ + & \text{---} & 0.500 & \text{---} & + & \text{---} & 7.199 & \text{---} & + & \text{---} & 0.700 & \text{---} & + & \text{---} & 9.100 & \text{---} & + & \text{---} & 0.000 & \text{---} & + & \text{---} & 0.225 & \text{---} & + \\ \text{A} & & \text{B} & & \text{C} & & \text{D} & & \text{E} & & \text{F} & & \text{G} \end{array}$$

7978

```

R  +---+-----4.40-----+-----4.96-----+
    I      I////////////////////I
    I      I////////////////////W 200////I
    4.300  5.72      6.13////////////////////5.72
    I      I////////////////////I
    I      I////////////////////I
5  +---+-----4.40-----+-----5.58-----+
    I      I////////////////////I
    I      I////////////////////W 200////I
    3.600  6.84      7.32////////////////////6.84
    I      I////////////////////I
    I      I////////////////////I
4  +---+-----4.40-----+-----5.58-----+
    I      I////////////////////I
    I      I////////////////////W 200////I
    3.800  6.94      6.94////////////////////6.94
    I      I////////////////////I
    I      I////////////////////I
3  +---+-----4.50-----+-----3.42-----+
    I      I
    I      I
    5.800  9.43      9.43
    I      I
    I      I
2  +---+-----11.58-----+-----12.45-----+
    I      I
    I      I
    4.000  13.67     15.75
    I      I
    I      I
1  +---+-----4.88-----+-----5.58-----+
    I      I
    I      I
    4.500  12.15     12.15
    I      I
    I      I
81 +---+-----39.07-----+-----25.83-----+

```

```

      I      I      I      I      I      I      I
+-----0.500-----+-----7.199-----+-----0.700-----+-----9.100-----+-----0.000-----+-----0.225-----+
A                                     D                                     E                                     F                                     G

```


4 - 1 C,MO,QO OF FRAME

I		I
I	QOA	QOB
I		CB
-----+-----+-----		
I	CA	I
I		MO
I		I

B - FRAME

					5.2	-4.5 4.3	8.7	-10.4 10.3	4.5	-4.3 3.7	4.3	-4.3 3.8	4.3
R	+--												
	I				I -4.8		I -8.9		I -3.9		I -3.8		I -3.7
	I				I 7.0		I 16.8		I 5.9		I 5.8		I
4.300	I				I		I		I		I		I
	I				I 12.5	-12.1I	I 9.0	-8.9I	I 7.5	-7.3I	I 4.4	-4.4I	I 4.5
	I				I	11.8I	I	8.2I	I	6.1I	I	3.4I	I
5	+--												
	I				I-12.0		I -8.2		I -6.2		I -3.4		I -3.5
	I				I 19.9		I 13.8		I 9.4		I 5.1		I
3.600	I				I		I		I		I		I
	I				I 12.5	-12.0I	I 8.0	-7.9I	I 7.1	-7.0I	I 3.9	-3.9I	I 3.9
	I				I	11.6I	I	7.3I	I	5.8I	I	3.0I	I
4	+--												
	I				I-11.9		I -7.3		I -5.9		I -3.0		I -3.0
	I				I 19.5		I 12.3		I 9.0		I 4.5		I
3.800	I				I		I		I		I		I
	I				I 15.3	-14.1I	I 12.0	-12.1I	I 9.2	-9.0I	I 7.7	-7.7I	I 7.7
	I				I	12.8I	I	11.1I	I	7.4I	I	6.2I	I
3	+--												
	I				I-13.7		I-10.6		I -7.5		I -6.2		I -6.3
	I				I 20.1		I 17.1		I 11.3		I 9.5		I
5.800	I				I		I		I		I		I
	I				I 0.0	0.0I	I 7.8	-8.3I	I 4.3	-4.1I	I 4.3	-4.3I	I 4.3
	I				I	0.0I	I	8.5I	I	3.6I	I	3.7I	I
2	+--												
	I				I 0.0		I -7.6		I -3.7		I -3.7		I -3.7
	I				I 0.0		I 13.3		I 5.6		I 5.7		I
4.000	I				I		I		I		I		I
	I				I		I 13.1	-13.3I	I 4.0	-3.8I	I 3.9	-3.9I	I 3.8
	I				I		I	12.3I	I	3.3I	I	3.3I	I
1	+--												
	I				I-11.8		I -3.5		I -3.3		I -3.3		I -3.3
	I				I 19.0		I 5.3		I 5.1		I		I
4.500	I				I		I		I		I		I
	I				I 0.0	0.0I	I 0.0	0.0I	I 0.0	0.0I	I 0.0	0.0I	I 0.0
	I				I		I	0.0I	I	0.0I	I	0.0I	I
B1	+--												
							0.0		0.0		0.0		0.0
							0.0		0.0		0.0		0.0

39

I	I	I	I	I	I	I	I
+---2.300---+	+---2.300---+	+---5.099---+	+---5.099---+	+---4.808---+	+---4.639---+	+---4.600---+	+---4.6
1	1A	2	3	4	5	6	7

-4.5	4.3	-4.6	6.8	-9.2	3.8	-4.0	1.1	-1.3	0.7	-0.7
3.9		4.1		8.6		3.7		0.6		0.3
I	I	I	I	I	I	I	I	I	I	I
5.9	-3.8		-7.0		-3.6		-0.5		-0.3	
I	I	I	I	I	I	I	I	I	I	I
	6.1		13.0				0.9		0.5	
I	I	I	I	I	I	I	I	I	I	I
-4.5	4.6	-4.6	7.9	-8.2	8.2	-8.4	1.0	-1.2	0.7	-0.7
3.5		3.6		7.2		7.5		0.6		0.3
I	I	I	I	I	I	I	I	I	I	I
I	-3.6	I	-7.0	I	-7.5	I	-0.5	I	-0.3	I
5.2	I	I	10.8	I		I	0.8	I	0.5	I
I	I	I	I	I	I	I	I	I	I	I
-3.9	4.0	-4.0	7.4	-7.8	7.5	-7.7	1.0	-1.2	0.7	-0.7
3.0		3.1		6.9		7.0		0.6		0.3
I	I	I	I	I	I	I	I	I	I	I
I	-3.1	I	-6.6	I	-6.9	I	-0.5	I	-0.3	I
4.5	I	I	10.3	I		I	0.8	I	0.5	I
I	I	I	I	I	I	I	I	I	I	I
-7.8	7.8	-3.1	9.8	-10.1	10.1	-10.3	1.1	-1.3	0.7	-0.7
6.4		6.7		8.8		9.2		0.6		0.3
I	I	I	I	I	I	I	I	I	I	I
I	-6.5	I	-8.6	I	-9.2	I	-0.5	I	-0.3	I
9.6	I	I	13.2	I		I	0.9	I	0.5	I
I	I	I	I	I	I	I	I	I	I	I
-4.5	4.3	-4.6	7.9	-8.3	4.4	-4.6	1.1	-1.3	0.7	-0.7
3.8		4.0		7.2		4.2		0.6		0.3
I	I	I	I	I	I	I	I	I	I	I
I	-3.7	I	-7.0	I	-4.1	I	-0.5	I	-0.3	I
5.7	I	I	10.8	I		I	0.9	I	0.5	I
I	I	I	I	I	I	I	I	I	I	I
-4.0	3.7	-3.8	4.9	-5.2	5.7	-5.6	0.7	-0.7		
3.3		3.2		5.0		5.5		0.3		
I	I	I	I	I	I	I	I	I	I	I
I	-3.1	I	-4.7	I	-5.5	I	-0.3	I		I
5.1	I	I	7.5	I		I	0.4	I		I
I	I	I	I	I	I	I	I	I	I	I
0.0	0.0	0.0	0.0	0.0		I	0.0	0.0	0.0	0.0
0.0		0.0		0.0		I		0.0		0.0
I	I	I	I	I	I	I	I	I	I	I
4.639	-4.730	-5.016	-2.625	-4.940	-2.470	-2.300				
8	9	10	0A	11	18	12				

[illegible]

[illegible]

		1.4	-1.2	1.5	-1.2	5.4	-4.6	5.1	-4.4	4.7	-4.3	4.5	-4.3	4.3	-4.3	4.3
			0.6		0.6		4.5		4.1		3.8		3.7		3.8	
R	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	I	-0.7		-0.7		-5.2		-4.7		-4.1		-3.9		-3.8		-3.7
	I	1.0		1.0		7.4		6.7		6.2		5.9		5.8		
4.300	I															
	I	1.4	-1.2	1.5	-1.2	5.2	-5.2	4.9	-4.9	4.6	-4.6	4.5	-4.5	4.4	-4.4	4.5
	I		0.6		0.6		4.5		4.1		3.6		3.5		3.4	
5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	I	-0.7		-0.7		-4.5		-4.1		-3.6		-3.5		-3.4		-3.5
	I	1.0		1.0		6.8		6.1		5.5		5.2		5.1		
3.600	I															
	I	1.4	-1.2	1.5	-1.2	4.5	-4.4	5.0	-5.4	4.2	-4.2	3.8	-3.9	3.9	-3.9	3.9
	I		0.6		0.6		4.0		4.8		3.4		3.0		3.0	
4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	I	-0.7		-0.7		-4.0		-4.6		-3.5		-3.0		-3.0		-3.0
	I	1.0		1.0		6.0		7.2		5.2		4.5		4.5		
3.800	I															
	I	1.4	-1.2	1.5	-1.2	11.0	-10.6	10.5	-10.4	8.3	-8.0	10.2	-10.0	10.0	-10.0	7.7
	I		0.6		0.6		10.2		9.8		7.0		8.4		8.3	
3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	I	-0.7		-0.7		-10.2		-9.9		-7.2		-8.6		-8.3		-6.3
	I	1.0		1.0		15.6		15.2		10.9		12.9		12.7		
5.800	I															
	I	1.4	-1.2	1.5	-1.2	10.4	-10.1	4.4	-4.3	3.6	-3.4	7.1	-7.1	7.1	-7.1	7.1
	I		0.6		0.6		9.4		3.9		3.0		5.8		5.8	
2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	I	-0.7		-0.7		-9.5		-3.9		-3.1		-5.9		-5.8		-5.8
	I	1.0		1.0		14.3		6.0		4.7		8.9		8.8		
4.000	I															
	I	1.3	-1.5	1.5	-1.5	10.9	-10.9	10.6	-10.6	7.3	-7.3	4.3	-4.2	4.2	-4.2	4.2
	I		0.8		0.7		10.1		9.4		5.8		3.6		3.6	
1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	I	-0.7		-0.7		-10.1		-9.4		-5.9		-3.7		-3.6		-3.6
	I	1.2		1.2		15.4		14.2		8.8		5.6		5.5		
4.500	I															
	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	I		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
B1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
	I		I		I		I		I		I		I		I	
53	+	2.740	+	2.549	+	5.284	+	5.015	+	4.754	+	4.653	+	4.600	+	4.6
	1		1A		2		3		4		5		6		7	

-4.5	4.3	-4.7	4.6	-5.6	1.1	-1.5	1.1	-1.1	0.7	-0.9	0.7	-1.0
3.9		4.2		5.4		0.7		0.6		0.4		0.6
I	-3.8	I	-4.6	I	-0.6	I	-0.6	I	-0.4	I	-0.4	I
5.9	I	6.2	I	7.6	I	0.9	I	0.9	I	0.6	I	0.8
I		I		I		I		I		I		I
-4.5I	4.6	-4.6I	5.3	-5.3I	3.8	-4.1I	1.1	-1.1I	0.7	-0.9I	0.7	-1.0I
3.5I		3.7I		4.7I		1.8I		0.6I		0.4I		0.6I
I	-3.7	I	-4.7	I	-1.7	I	-0.6	I	-0.4	I	-0.4	I
5.2	I	5.5	I	7.1	I	2.7	I	0.9	I	0.6	I	0.8
I		I		I		I		I		I		I
-3.9I	4.0	-4.0I	4.6	-4.6I	3.8	-4.1I	1.1	-1.1I	0.7	-0.9I	0.7	-1.0I
3.0I		3.2I		4.2I		1.8I		0.6I		0.4I		0.6I
I	-3.2	I	-4.2	I	-1.7	I	-0.6	I	-0.4	I	-0.4	I
4.6	I	4.8	I	6.2	I	2.7	I	0.9	I	0.6	I	0.8
I		I		I		I		I		I		I
-7.9I	7.9	-8.2I	8.8	-9.5I	3.8	-4.1I	1.1	-1.1I	0.7	-0.9I	0.7	-1.0I
6.4I		6.9I		8.9I		1.8I		0.6I		0.4I		0.6I
I	-6.6	I	-8.3	I	-1.7	I	-0.6	I	-0.4	I	-0.4	I
9.7	I	10.2	I	12.9	I	2.7	I	0.9	I	0.6	I	0.8
I		I		I		I		I		I		I
-7.2I	7.1	-7.4I	4.6	-4.8I	3.8	-4.1I	1.1	-1.1I	0.7	-0.9I	0.7	-1.0I
5.9I		6.1I		4.5I		1.8I		0.6I		0.4I		0.6I
I	-6.0	I	-4.4	I	-1.7	I	-0.6	I	-0.4	I	-0.4	I
8.9	I	9.2	I	6.7	I	2.7	I	0.9	I	0.6	I	0.8
I		I		I		I		I		I		I
-4.3I	4.3	-4.5I	5.6	-5.4I	1.0	-1.0I	1.3	-1.3I	1.3	-2.5I	2.2	-1.6I
3.7I		3.9I		5.4I		0.5I		0.7I		1.0I		0.9I
I	-3.7	I	-5.6	I	-0.5	I	-0.7	I	-0.9	I	-1.1	I
5.6	I	5.9	I	8.5	I	0.8	I	1.1	I	1.5	I	1.5
I		I		I		I		I		I		I
0.0I	0.0	0.0I	0.0	0.0I	0.0	0.0I	0.0	0.0I	0.0	0.0I	0.0	0.0I
0.0I		0.0I		0.0I		0.0I		0.0I		0.0I		0.0I
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I		I		I		I		I		I		I
4.653	-4.780	-5.385	-2.625	-2.600	-2.377	-2.921						
8	9	10	0A	11	1B	12						

[illegible]

		11.1	-11.3	17.9		-17.7
			16.0			33.4
R	+	-----+				
	I	I-15.8		I-33.7		I
	I	I 24.8		I	51.5	I
4.300	I	I		I		I
	I	I 13.9	-16.2I	29.4		-25.9I
	I	I	22.1I			42.7I
5	+	-----+				
	I	I-18.9		I-49.1		I
	I	I 32.1		I	67.8	I
3.600	I	I		I		I
	I	I 13.5	-15.4I	27.0		-24.1I
	I	I	20.9I			39.7I
4	+	-----+				
	I	I-18.3		I-45.0		I
	I	I 30.7		I	62.7	I
3.800	I	I		I		I
	I	I 13.2	-15.0I	35.2		-41.6I
	I	I	22.5I			76.7I
3	+	-----+				
	I	I-19.8		I-67.1		I
	I	I 34.5		I	106.6	I
5.800	I	I		I		I
	I	I 14.0	-16.1I	20.3		-20.2I
	I	I	24.4I			38.0I
2	+	-----+				
	I	I-21.3		I-38.1		I
	I	I 37.6		I	57.2	I
4.000	I	I		I		I
	I	I 13.6	-15.5I	18.5		-18.1I
	I	I	23.5I			34.5I
1	+	-----+				
	I	I-20.7		I-35.1		I
	I	I 37.0		I	52.2	I
4.500	I	I		I		I
	I	I 0.0	0.0I	0.0		0.0I
	I	I	0.0I			0.0I
B1	+	-----+				
		0.0		0.0		
		0.0		0.0		

I	I	I	I	I	I	I
+-----0.500-----+	+-----7.200-----+	+-----0.700-----+	+-----9.100-----+	+-----0.000-----+	+-----0.225-----+	
A	B	C	D	E	F	G

		11.5	-11.6	17.9		-17.7
			16.5			33.4
R	+	+	+	+	+	+
	I	I	I	I	I	I
	I	I	I	I	I	I
4.300	I	I	I	I	I	I
	I	I	I	I	I	I
	I	I	I	I	I	I
5	+	+	+	+	+	+
	I	I	I	I	I	I
	I	I	I	I	I	I
3.600	I	I	I	I	I	I
	I	I	I	I	I	I
	I	I	I	I	I	I
4	+	+	+	+	+	+
	I	I	I	I	I	I
	I	I	I	I	I	I
3.800	I	I	I	I	I	I
	I	I	I	I	I	I
	I	I	I	I	I	I
3	+	+	+	+	+	+
	I	I	I	I	I	I
	I	I	I	I	I	I
5.800	I	I	I	I	I	I
	I	I	I	I	I	I
	I	I	I	I	I	I
2	+	+	+	+	+	+
	I	I	I	I	I	I
	I	I	I	I	I	I
4.000	I	I	I	I	I	I
	I	I	I	I	I	I
	I	I	I	I	I	I
1	+	+	+	+	+	+
	I	I	I	I	I	I
	I	I	I	I	I	I
4.500	I	I	I	I	I	I
	I	I	I	I	I	I
	I	I	I	I	I	I
B1	+	+	+	+	+	+

I	I	I	I	I	I	I
+	+	+	+	+	+	+
0.500	7.200	0.700	9.100	0.000	0.225	
A	B	C	D	E	F	G

5 - 1 AXIAL FORCE MAP

(5 -FLOOR)

I AXIAL FORCE OF FLOOR

-----*-----

I AXIAL FORCE OF TOTAL

1.90	3.93	16.27	23.70	27.69	30.66	32.06	32.06	30.62	27.65	19.00
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
I1.90	I3.93	I16.27	I23.70	I27.69	I30.66	I32.06	*32.06	I30.62	I27.65	I19.00
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I4.53	I	I	I	I	I	*	I	I	I
I	*	I	I	I	I	I	*	I	I	I
I	I4.53	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I1.10	I2.36	I14.76	I26.55	I53.85	I64.22	I46.65	*47.02	I43.96	I44.32	I35.95
-----	*-----*	*-----*	*****	*****	*****	*****	*****	*****	*****	*-----*
1.10	2.36	14.76	I26.55	I53.85	I64.22	*46.65	I47.02	I43.96	*44.32	*35.95
			I	I	I	*	I	I	*	*
			I	I	I	*	I	I	*	*
			I	I	I	*	I	I	*	*
			I7.73	I33.24	I44.20	*25.46	I25.83	I24.62	*28.78	*31.00
			-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
			7.73	33.24	44.20	25.46	25.83	24.62	28.78	31.00

I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

--(F)

8.10	5.05	2.28	1.67	
-----	*-----*	*-----*	*-----*	--(E)
I8.10	I5.05	I2.28	I1.67	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I	I	I5.32	I	
I	I	*	I	--(D)
I	I	I5.32	I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I7.38	I13.66	I	I	
-----	*-----*	*-----*	*-----*	--(C)
7.38	*13.66	I	I	
	*	I	I	
	*	I	I	
	*	I	I	
	*11.17	I3.79	I1.28	
-----*	*-----*	*-----*	*-----*	--(B)
	11.17	3.79	1.28	

--(A)

I	I	I	I
I	I	I	I
(0A)	(11)	(1B)	(12)

			0-----0-----0							
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
1.83	3.87	20.40	I28.20	I35.21	I38.15	39.69	41.59	38.16	34.00	26.05
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
I3.72	I7.80	I36.67	I51.90	I62.90	I68.81	I71.75	*73.65	I68.78	I61.65	I45.05
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I4.06	I	I	I	I	I	*	I	I	I
I	*	I	I	I	I	I	*	I	I	I
I	I8.60	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I1.03	I2.19	I14.48	I33.55	I50.79	I57.20	I64.63	*65.29	I62.31	I55.63	I32.35
-----	*-----*	*-----*	*****	*****	*****	*****	*****	*****	*****	*****
2.13	4.56	29.24	I60.10	I104.64	I121.42	*111.28	I112.31	I106.28	*99.96	*68.31
			I	I	I	*	I	I	*	*
			I	I	I	*	I	I	*	*
			I	I	I	*	I	I	*	*
			I14.96	I34.26	I38.53	*37.20	I29.74	I31.14	*32.27	*30.19
			-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
			22.69	67.50	82.73	62.66	55.57	55.75	61.05	61.19

I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

--(F)

10.29	4.95	2.21	1.60	
-----	*-----*	*-----*	*-----*	--(E)
I18.39	I10.00	I4.49	I3.27	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I	I	I4.85	I	
I	I	*	I	--(D)
I	I	I10.18	I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I7.50	I12.45	I	I	
-----	*-----*	I	I	--(C)
14.88	*26.11	I	I	
	*	I	I	
	*	I	I	
	*	I	I	
	*14.49	I3.62	I1.21	
-----*	*-----*	*-----*	*-----*	--(B)
	25.65	7.41	2.49	

--(A)

I	I	I	I
I	I	I	I
(0A)	(11)	(1B)	(12)

			7.32	8.53	3.60					
			-----	*-----*	*-----*					
			I7.32	I8.53	I3.60					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
			I	I	I					
1.85	3.88	19.43	I30.94	I36.15	I36.33	37.40	38.97	35.95	32.45	25.03
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
I5.57	I11.68	I56.10	I82.83	I99.06	*I05.14	I109.14	*I12.63	I104.73	I94.10	I70.08
I	I	I	I	I	*	I	*	I	I	I
I	I	I	I	I	*	I	*	I	I	I
I	I	I	I	I	*	I	*	I	I	I
I	I4.20	I	I	I	*	I	*	I	I	I
I	*	I	I	I	*	I	*	I	I	I
I	I12.80	I	I	I	*	I	*	I	I	I
I	I	I	I	I	*	I	*	I	I	I
I	I	I	I	I	*	I	*	I	I	I
I	I	I	I	I	*	I	*	I	I	I
I1.05	I2.21	I14.70	I32.52	I47.48	*53.72	I60.21	*60.58	I57.67	I51.63	I30.20
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
3.18	6.77	43.94	I92.62	I152.12	I175.14	*I71.49	I172.89	I163.95	*I51.58	*98.51
			I	I	I	*	I	I	*	*
			I	I	I	*	I	I	*	*
			I	I	I	*	I	I	*	*
			I14.93	I33.46	I36.29	*35.21	I28.66	I29.59	*30.67	*28.57
			-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
			37.62	100.97	119.03	97.87	84.23	85.34	91.72	89.76
I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

--(F)

10.41	4.97	2.23	1.62	
-----	*-----*	*-----*	*-----*	--(E)
I28.79	I14.97	I6.72	I4.89	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I	I	I4.99	I	
I	I	*	I	--(D)
I	I	I15.17	I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I7.61	I12.82	I	I	
-----	*-----*	I	I	--(C)
22.49	*38.93	I	I	
	*	I	I	
	*	I	I	
	*	I	I	
	*14.49	I3.64	I1.23	
-----*	*-----*	*-----*	*-----*	--(B)
	40.14	11.04	3.72	

--(A)

I	I	I	I
I	I	I	I
(0A)	(11)	(18)	(12)

			13.51	16.66	6.31						
			-----	*-----*	*-----*						
			I20.83	I25.19	I9.91						
			I	I	I						
			I	I	I						
			I	I	I						
			I	I	I						
			I	I	I						
			I	I	I						
			I	I	I						
			I	I	I						
			I	I	I						
			I	I	I						
2.04	4.08	33.22	I58.96	I67.52	I72.40	73.67	65.92	48.19	42.83	34.93	
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	
I7.61	I15.76	I89.32	I141.80	*166.57	*177.54	I182.82	I178.55	I152.92	I136.93	I105.01	
I	I	I	I	*	*	I	I	I	I	I	
I	I	I	I	*	*	I	I	I	I	I	
I	I	I	I	*	*	I	I	I	I	I	
I	I5.60	I	I	*	*	I	I	I	I	I	
I	*	I	I	*	*	I	I	I	I	I	
I	I18.41	I	I	*	*	I	I	I	I	I	
I	I	I	I	*	*	I	I	I	I	I	
I	I	I	I	*	*	I	I	I	I	I	
I	I	I	I	*	*	I	I	I	I	I	
I1.24	I2.43	I28.77	I62.88	*80.02	*95.27	I89.17	I84.71	I65.63	I59.75	I40.30	
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	
4.43	9.19	72.71	I155.49	I232.14	I270.41	*260.66	I257.60	I229.58	*211.33	*138.81	
			I	I	I	*	I	I	*	*	
			I	I	I	*	I	I	*	*	
			I	I	I	*	I	I	*	*	
			I21.70	I56.18	I57.31	*47.65	I46.40	I41.63	*43.28	*37.79	
			-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	
			59.32	157.15	176.34	145.52	130.62	126.98	135.00	127.56	
I	I	I	I	I	I	I	I	I	I	I	
I	I	I	I	I	I	I	I	I	I	I	
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	

--(G)

--(F)

11.61	5.16	2.42	1.82	
-----	*-----*	*-----*	*-----*	--(E)
I40.40	I20.13	I9.14	I6.71	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I	I	I6.39	I	
I	I	*	I	--(D)
I	I	I21.56	I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I9.98	I18.13	I	I	
-----	*-----*	I	I	--(C)
32.47	*57.06	I	I	
	*	I	I	
	*	I	I	
	*	I	I	
	*23.66	I3.89	I1.43	
-----*	*-----*	*-----*	*-----*	--(B)
	63.80	14.93	5.15	

--(A)

I	I	I	I
I	I	I	I
(0A)	(11)	(18)	(12)

0.99 0.99 0.59
----------*
21.82 26.18 10.50

0-----0-----0-----0-----0-----0	0-----0-----0-----	
I	I	I
I	I	I
I	I	I
I	I	I
I1.87	I3.90	I26.62
I41.70	I49.92	I50.60
42.58	42.58	I41.21
I42.75	I29.22	
I19.48	I19.66	I115.94
I183.49	216.49	I228.14
I225.39	I221.13	I194.13
I179.68	I134.23	
I	I	I
I	I	I
I	I	I
I	I	I
I	I4.34	I
I	*	I
I	I22.75	I
I	I	I
I	I	I
I	I	I
I1.07	I2.25	I21.08
I42.95	63.94	I76.81
I64.98	I49.50	I46.58
I55.84	I35.73	
I5.50	11.45	I93.79
I198.44	I296.08	I347.22
*325.63	I307.10	I276.16
*267.18	*174.54	
I	I	I
I	I	I
I	I	I
I	I	I
I	I15.97	I46.26
I53.89	*41.78	I27.20
I26.15	*35.40	*30.30
I75.29	I203.41	I230.23
187.29	157.82	153.12
I170.39	I157.86	
I	I	I
I	I	I
I	I	I
I	I	I
0-----0-----0-----0-----0-----0	0-----0-----	
I	I	I
I	I	I
(1)	(1A)	(2)
(3)	(4)	(5)
(6)	(7)	(8)
(9)	(10)	

--(6)

0-----0-----0 -----(F)

I	I	I	I
I	I		I
I	I		I
I	I		I
I10.53	I4.99	2.25	I1.64

* * * * *

--(E)

I 50.93 I 25.12 I 11.39 I 8.35

I	I	I	I
I	I	I	I
I	I	I	I
I	I	15.13	I

I I * I --(D)

I	I	126.70	I
---	---	--------	---

I I I I

I I I I

I I I I

I 7.67	I 13.20	I	I
--------	---------	---	---

----------0-----0 --(C)

40.14 *70.26 I I

* I I

*	I	I
---	---	---

* 1970-1979	I 1980-1989	I 1990-1999
----------------	----------------	----------------

*14.10	13.71	11.25
--------	-------	-------

***** (B) *****

177.90	18.64	6.40
--------	-------	------

_____1
_____0

-----0 -----(A)

$$\begin{array}{c} \text{I} \\ \text{I} \\ (0A) \end{array} \quad \begin{array}{c} \text{I} \\ \text{I} \\ (11) \end{array} \quad \begin{array}{c} \text{I} \\ \text{I} \\ (1B) \end{array} \quad \begin{array}{c} \text{I} \\ \text{I} \\ (12) \end{array}$$

0.44	0.44	0.44

22.25	26.62	10.93

15.91	10.10	20.43	18.58	7.63	3.72			3.76	14.13	15.34
-----						*-----*				
*15.91	I10.10	*20.43	I18.58	I7.63	*3.72			I3.76	*14.13	I15.34
*	I	*	I	I	*			I	*	I
*	I	*	I	I	*			I	*	I
*	I	*	I	I	*			I	*	I
*9.51	I10.47	*31.83	I48.58	I27.50	*35.79	35.78	35.78	I34.85	*33.84	I27.06
-----						*-----*				
*18.99	I30.14	*147.77	*232.08	I243.99	*263.93	I261.17	I256.91	I228.98	*213.51	I161.29
*	I	*	*	I	*	I	I	I	*	I
*	I	*	*	I	*	I	I	I	*	I
*	I	*	*	I	*	I	I	I	*	I
*	I4.47	*	*	I	*	I	I	I	*	I
*	*	*	*	I	*	I	I	I	*	I
*	I27.22	*	*	I	*	I	I	I	*	I
*	I	*	*	I	*	I	I	I	*	I
*	I	*	*	I	*	I	I	I	*	I
*	I	*	*	I	*	I	I	I	*	I
*14.07	I5.97	*40.30	*43.57	I39.63	*64.48	I66.04	I54.92	I51.74	*54.95	I31.54
-----						*-----*				
*19.57	17.41	I134.09	I242.01	I335.71	1411.71	*391.67	I362.02	I327.90	I322.13	*206.08
*		I	I	I	I	*	I	I	I	*
*		I	I	I	I	*	I	I	I	*
*		I	I	I	I	*	I	I	I	*
*		I	I18.80	I41.57	I52.16	*44.55	I35.24	I34.04	I38.54	*34.81
-----						*-----*				
*		I	I94.09	I244.98	*282.39	231.84	193.06	187.16	*208.93	I192.67
*		I	I	I	*				*	I
*		I	I	I	*				*	I
*		I	I	I	*				*	I
*22.12		I32.76	I23.00	I11.88	*6.11				*10.35	I18.13
*****						*****				
22.12		32.76	23.00	11.88	6.11				10.35	18.13
I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

7.23	21.91		21.37	
-----	*-----*		*-----*	--(F)
I7.23	I21.91		I21.37	
I	I		I	
I	I		I	
I	I		I	
I10.93	I15.86	5.36	I12.33	
-----	*-----*		*-----*	--(E)
I61.86	I40.98	I16.74	I20.68	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I	I	I4.96	I	
I	I	*	I	--(D)
I	I	I31.66	I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I6.99	I12.21	I4.44	I8.41	
*****	*****		*****	--(C)
47.14	*82.47	I4.44	I8.41	
	*	I	I	
	*	I	I	
	*	I	I	
	*21.55	I1.14	I0.46	
	-----		*-----*	--(B)
	I99.45	19.79	6.86	
	I			
	I			
	I			
	I16.40			
*****				--(A)
	16.40			
I	I	I	I	
I	I	I	I	
(0A)	(11)	(18)	(12)	

			*=====	*=====	*=====					
			22.25	26.62	10.93					
26.61	15.59	25.85	19.24	14.56	9.50			9.14	21.35	19.47
*=====	*=====	*=====	*=====	*=====	*=====			*=====	*=====	*=====
42.52	25.69	46.28	37.82	22.20	13.22			12.90	35.48	34.81
23.67	11.03	32.19	39.41	23.97	36.88	36.00	36.00	34.54	42.17	24.00
*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====
42.66	41.17	179.96	271.49	267.97	300.81	297.17	292.91	263.52	255.68	185.28
	1.74									
	*=====									
	28.95									
27.78	8.53	45.33	47.30	49.46	59.96	61.64	53.40	53.98	62.02	34.47
*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====
47.35	25.95	179.42	289.31	385.17	471.66	453.31	415.42	381.88	384.15	240.55
			24.00	38.27	46.94	53.37	44.73	47.39	39.09	26.03
			*=====	*=====	*=====	*=====	*=====	*=====	*=====	*=====
			118.09	283.25	329.33	285.21	237.79	234.55	248.03	218.69
38.08		47.35	38.40	28.40	14.31				14.15	30.20
*=====		*=====	*=====	*=====	*=====				*=====	*=====
60.19		80.11	61.40	40.28	20.43				24.51	48.33
I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

12.82	26.82	24.17	
*=====	*=====	*=====	--(F)
20.04	48.73	45.54	

10.79	17.67	4.18	13.88
*=====	*=====	*=====	*=====
72.65	58.66	20.92	34.56

--(E)

	1.52	
	*=====	
	33.18	

--(D)

14.09	16.81	6.92	4.75
*=====	*=====	*=====	*=====
61.22	99.28	11.36	13.16

--(C)

	14.66	0.89	0.03
	*=====	*=====	*=====
	114.11	20.67	6.89

--(B)

	23.19		
	*=====		
	39.59		

--(A)

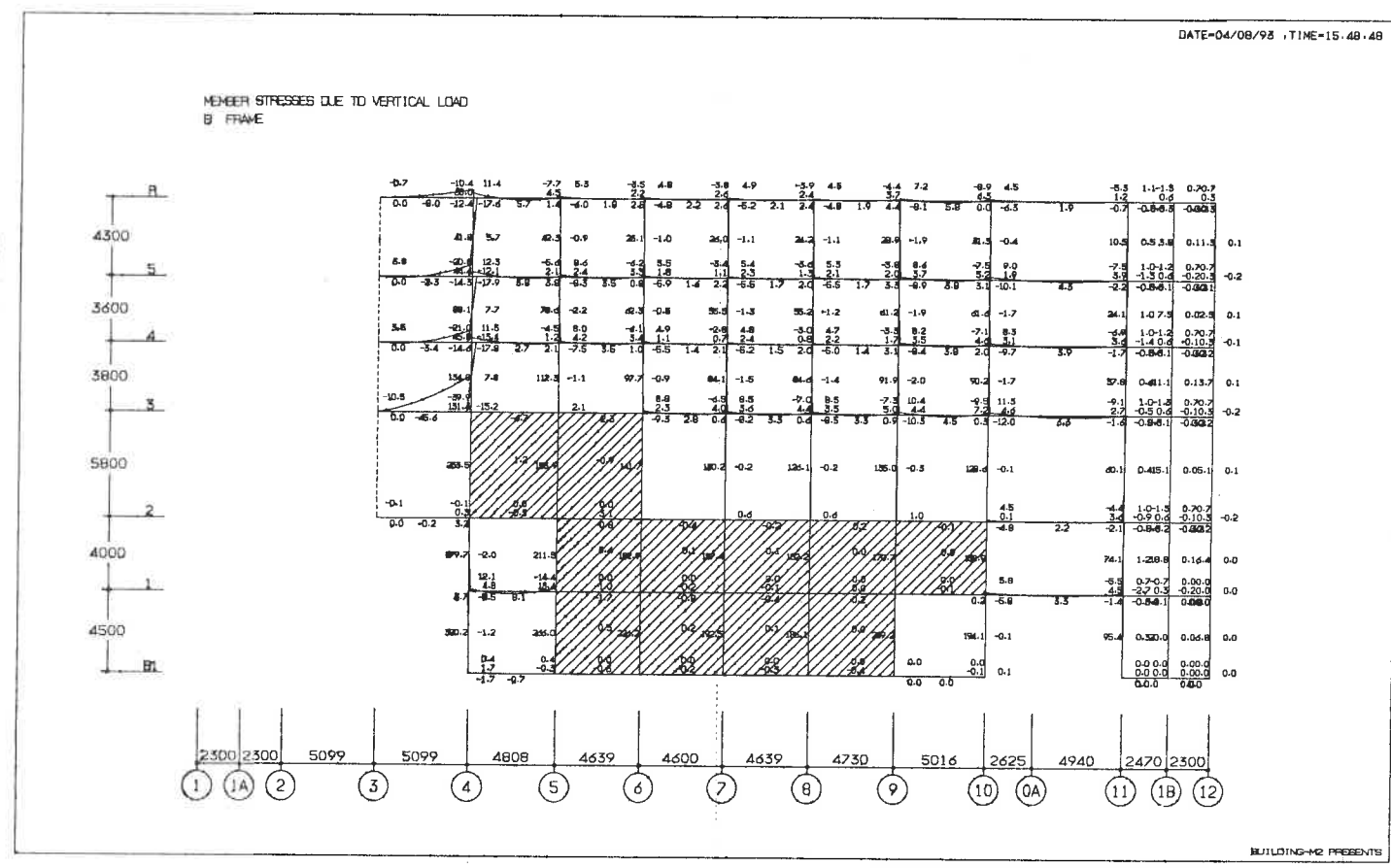
I	I	I	I
I	I	I	I
(0A)	(11)	(18)	(12)

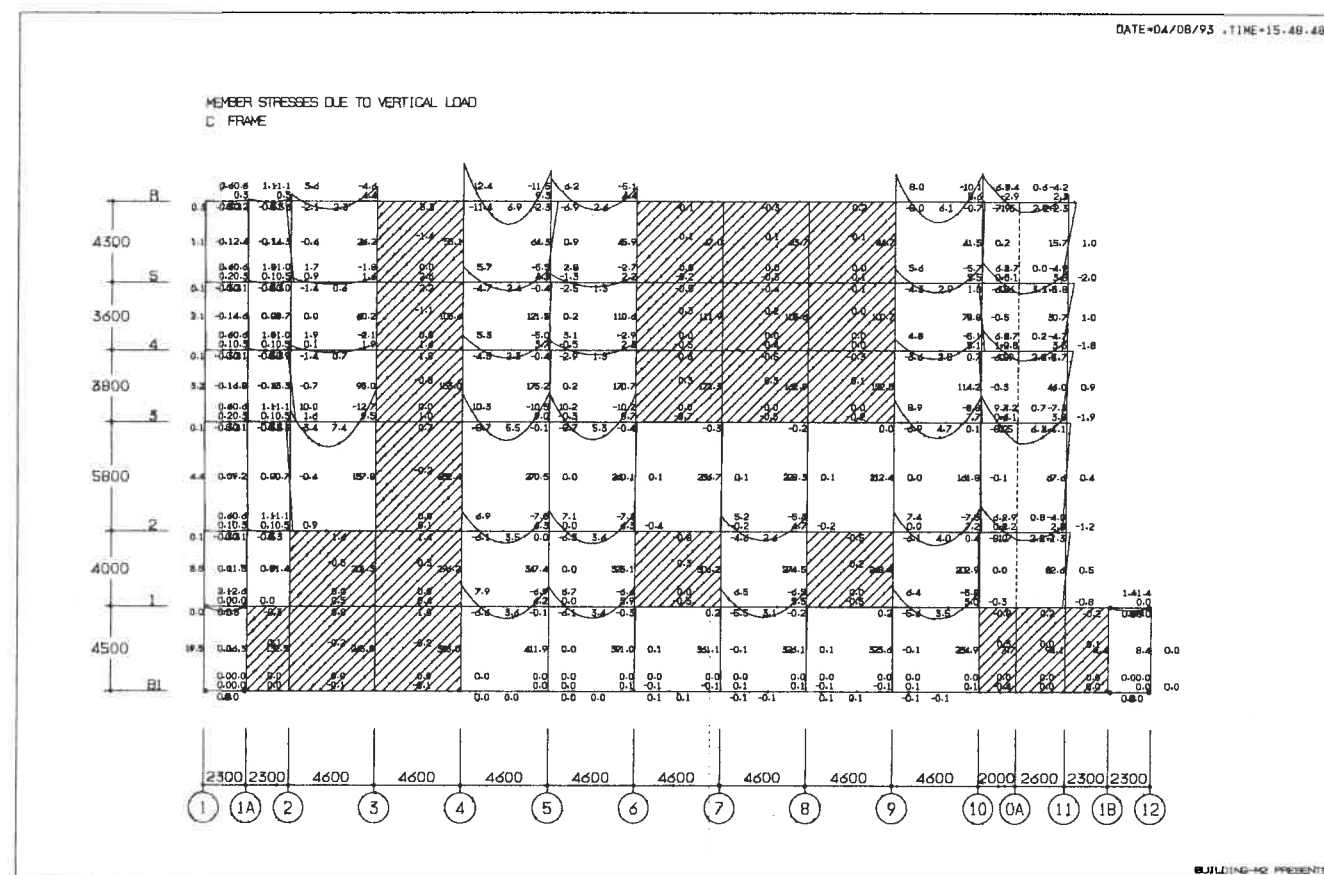
SECTION 6 SEISMIC FORCE 建物重量、地震力

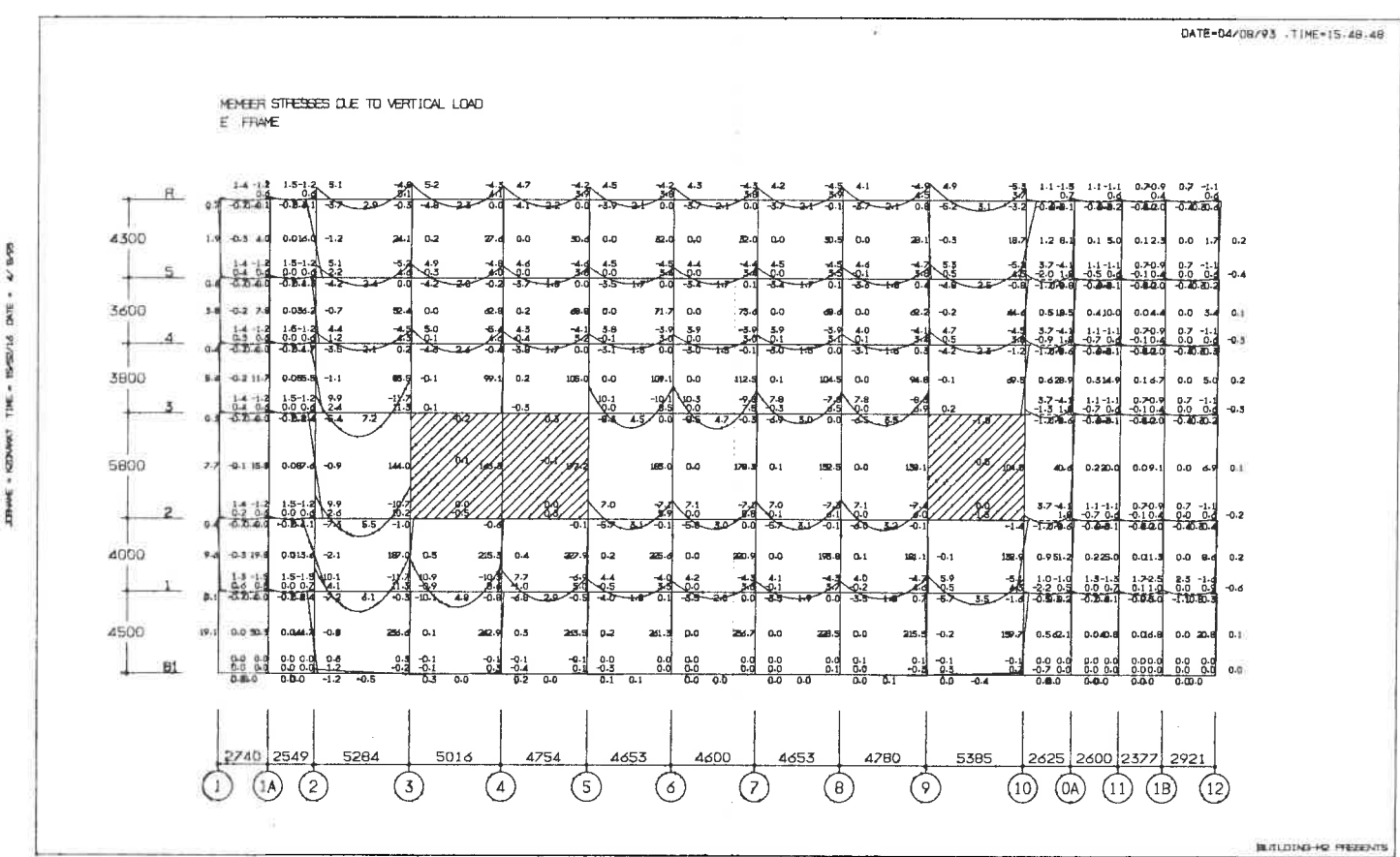
DATE=04/08/93 TIME=15.48.48⁶⁴

F	FLOOR (D.L)	FLOOR (L.L)	GIRDER	BEAM	COLUMN	WALL	OTHERS	F-TOTAL (/AREA)	TOTAL(T)	SHEAR COEFF. /----- X -----/	Q(T)	SHEAR COEFF. /----- Y -----/	Q(T)	AREA
R	432.3	123.8	120.5	4.7		15.9		956.9 (1.61)	956.9					(596.2)
5	325.3	39.9	136.0	8.1	174.5	344.8	15.4	990.0 (1.68)	1946.9	0.4114	393.7	0.4114	393.7	(588.5)
4	336.6	40.9	160.3	8.1	146.1	265.1	15.4	947.8 (1.57)	2894.6	0.3332	648.6	0.3332	648.6	(604.0)
3	488.6	80.9	322.9	63.3	161.3	200.2	56.2	1469.7 (2.43)	4364.3	0.2939	850.7	0.2939	850.7	(604.6)
2	340.0	89.0	178.8	29.2	333.4	220.7	32.0	1131.1 (1.91)	5495.4	0.2528	1103.2	0.2528	1103.2	(590.8)
1	444.9	144.3	237.8	51.7	227.2	142.8	39.7	1488.1 (1.86)	6983.5	0.2281	1253.3	0.2281	1253.3	(799.2)
B1	443.4	131.9	425.2	34.8	355.7	413.9	65.2	1591.3 (1.96)	8574.8	0.2000	1396.7	0.2000	1396.7	(811.1)
F					106.0									
					0.0									
<hr/>														
TOTAL	2811.0	650.8	1581.5	199.9	1504.2	1603.3	224.1	8574.8 (1.87)						(4594.3)
RATIO	32.8	7.6	18.4	2.3	17.5	18.7	2.6	100.0						

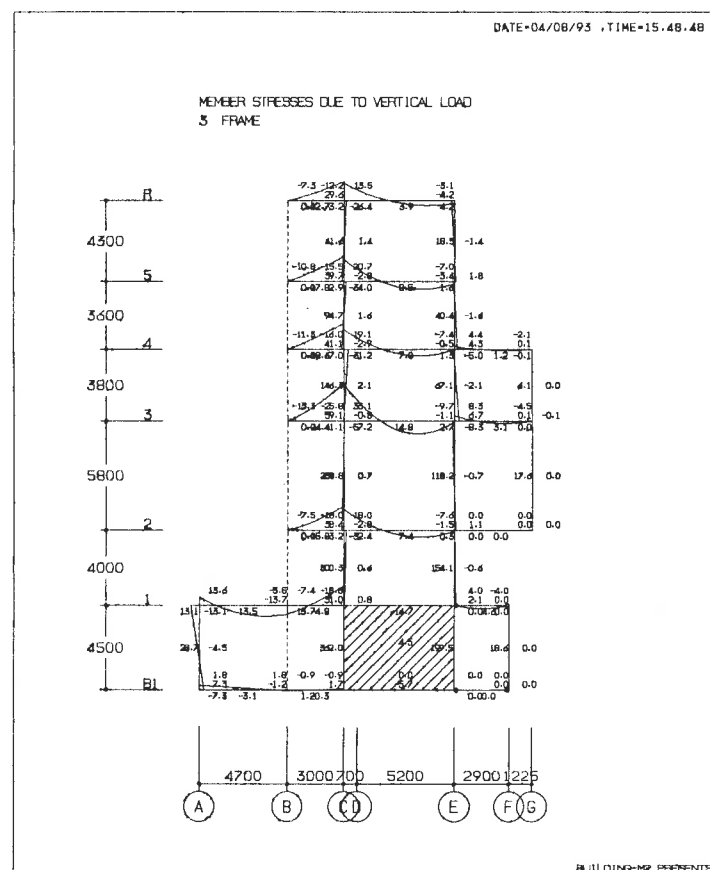
§ 7. 鉛直荷重1.53架構応力.



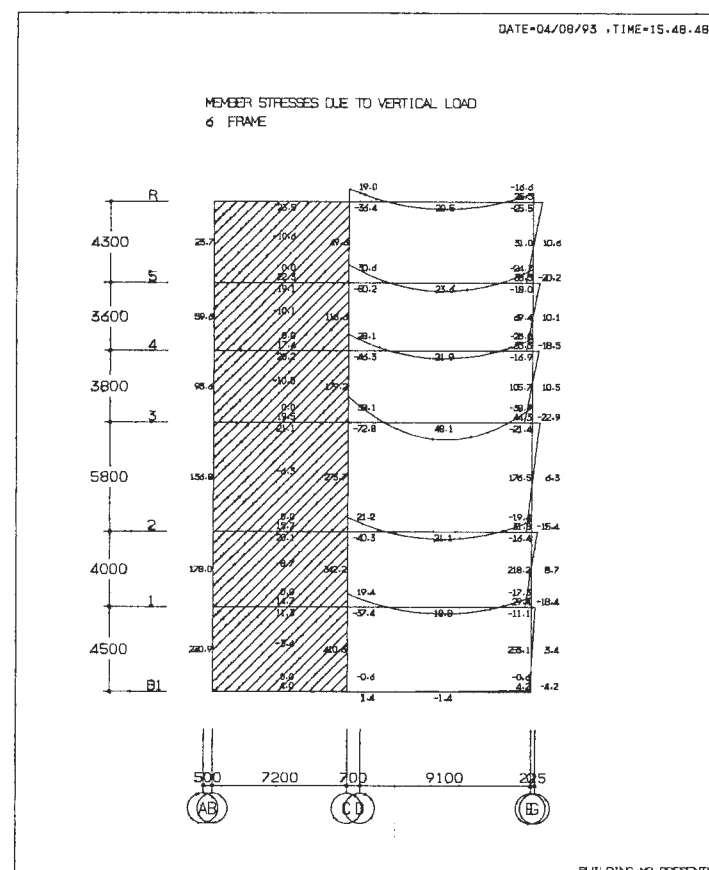




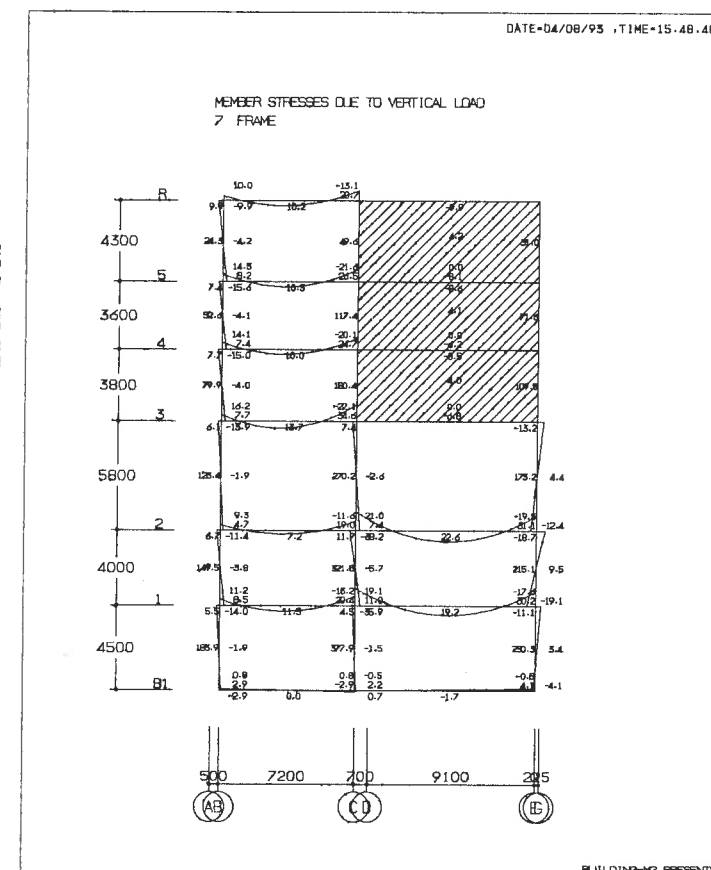
JENKINS - KIDWAY TIME = 15/08/93 DATE = 4/08/93



JENKINS - KIDWAY TIME = 15/08/93 DATE = 4/08/93



JENKINS - KIDWAY TIME = 15/08/93 DATE = 4/08/93



SECTION 8 DISTRIBUTION OF HORIZONTAL FORCE

地震力の分配係数

DATE=04/08/93 , TIME=15.48.48

C.R. =CENTER OF RIGIDITY
C.SF.=CENTER OF SHEAR FORCE
DF/DT=D-FRAME/D-TOTAL

(5 -FLOOR) H= 393.7(T) DIRECTION D-TOTAL H/D(T) DF/DT C.R.(M) C.SF.(M) I(DX)
(DUE TO U-LOAD) --- (X) --- 59.87 6.58 0.36 27.324 25.584 ----*----
--- (Y) --- 0.00 6.58 -- 7.536 8.401 (DY)I

0.00	0.00	0.47	0.89	0.87	0.89	0.91	0.90	0.91	0.89	0.43
I	I	0.04I	0.12I	0.06I	0.06I	0.03I	*	-0.04I	-0.08I	-0.12I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	*	I	I	I	I	I	*	I	I	I
I	0.00I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
I	I	I	I	I	I	I	*	I	I	I
10.00	10.00	10.57	115.23	I	11.00	128.49	*	I	I	10.96
*****X*****										
	0.02	0.10I	0.15I	0.11I	*	-0.11I	-0.07I	*	*	*
		I	I	I	*	I	I	*	*	*
		I	I	I	*	I	I	*	*	*
		I	I	I	*	I	I	*	*	*
		I	10.46	10.89	*0.86	10.85	10.84	*0.86	*0.93	

			0.14	0.15	1.44	0.08	0.05	-0.80	-0.94	

I I I I I I I I I I
I I I I I I I I I I
(1) (1A) (2) (3) (4) (5) (6) (7) (8) (9) (10)

(4 -FLOOR)	H= 648.6(T)	DIRECTION	D-TOTAL	H/D(T)	DF/DT	C.R.(M)	C.SF.(M)	I(DX)
		---(X)---	49.26	13.17	0.44	27.791	25.672	-----*-----
(DUE TO U-LOAD)		---(Y)---	0.00	13.17	--	7.503	8.527	(DY)I

			0	-	0	-	0						
			I		I		I						
			I		I		I						
			I		I		I						
			I		I		I						
			I		I		I						
			I		I		I						
			I		I		I						
			I		I		I						
			I		I		I						
0.00	0.00	0.46	I0.91	I0.91	I0.91	0.88	0.88	0.88	0.86	0.42			
*	*	*	*	*	*	*	*	*	*	*	*	*	*
I	I	0.07I	0.10I	0.13I	0.08I	0.03I	*	-0.03I	-0.08I	-0.10I			
I	I	I	I	I	I	I	*	I	I	I			
I	I	I	I	I	I	I	*	I	I	I			
I	I	I	I	I	I	I	*	I	I	I			
I	I	I	I	I	I	I	*	I	I	I			
I	*	I	I	I	I	I	*	I	I	I			
I	0.00I	I	I	I	I	I	*	I	I	I			
I	I	I	I	I	I	I	*	I	I	I			
I	I	I	I	I	I	I	*	I	I	I			
I	I	I	I	I	I	I	*	I	I	I			
I0.00	I0.00	I0.55	I12.13	I	I1.00	I20.88	*	I	I	I0.97			
*	*	*	*****	X	*****	*****	*****	*****	*****	*****	*	*	*
	0.04	0.11I	0.13I	0.09I	*	-0.08I	-0.06I	*	*	*			
		I	I	I	*	I	I	*	*	*			
		I	I	I	*	I	I	*	*	*			
		I	I	I	*	I	I	*	*	*			
		I	I0.52	I0.94	*0.86	I0.82	I0.81	*0.86	*0.96				
		*	*	*	*	*	*	*	*	*	*	*	*
		0.12	0.14	1.09	0.08	0.05	-0.55	-0.73					

I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

$$\begin{array}{r} I(DX) \\ \hline (DY)I \end{array}$$
[illegible]

I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

(1 -FLOOR) H=1253.3(T) DIRECTION D-TOTAL H/D(T) DF/DT C.R.(M) C.SF.(M) I(DX)
---(X)--- 64.19 19.53 0.29 26.734 24.929 -----*-----
(DUE TO U-LOAD) ---(Y)--- 0.00 19.53 -- 7.077 8.781 (DY)I

0	0	0	0	0	0			0	0	0
I	I	I	I	I	I			I	I	I
I	I	I	I	I	I			I	I	I
I	I	I	I	I	I			I	I	I
I	I	I	I	I	I			I	I	I
I	I	10.45	10.80	10.78	10.76	0.82	0.81	10.83	10.81	10.57

0.00I	0.00I	0.20I	0.30I	0.24	0.17I	0.06I	-0.01I	-0.12I	-0.23I	-0.16I
I	I	I	I		I	I	I	I	I	I
I	I	I	I		I	I	I	I	I	I
I	I	I	I		I	I	I	I	I	I
I	I	I	I		I	I	I	I	I	I
I	*	I	I		I	I	I	I	I	I
I	0.01I	I	I		I	I	I	I	I	I
I	I	I	I		I	I	I	I	I	I
I	I	I	I		I	I	I	I	I	I
I	I	I	I		I	I	I	I	I	I
I	10.00	118.38	I		10.87	19.94	I	19.89	I	11.00

0.00I		0.19I	0.34I	0.23I	0.18I	*	-0.03I	-0.13I	*	*
I		I	I	I	I	*	I	I	*	*
I		I	I	I	I	*	I	I	*	*
I		I	I	I	I	*	I	I	*	*
I		I	I	10.49	116.25	*	I	I	*	*
I		I	*	*-----*						
I		I	I	0.23I	0.47I	1.31	0.31	0.25	-0.90I	-1.32I
I		I	I	I	I				I	I
I		I	I	I	I				I	I
I		I	I	I	I				I	I
I		I	I	I	I				I	I
0	0	0	0	0	0			0	0	0
I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

0-----0-----0	--(F)
---------------	--------

I	I	I
I	I	I
I	I	I
I	I	I
I 0.03	I	I

-----	--(E)
---------	--------

I	0.00I	I	0.00I
I	I	I	I
I	I	I	I
I	I	I	I
I	I	I	I
I	I	*	I
I	I	-0.01I	I
I	I	I	I
I	I	I	I
I	I	I	I
I	I 0.30	I	I

-----	--(C)
---------	--------

*	I	I
*	I	I
*	I	I
*	I	I
*0.41	I	I

-----*	--(B)
--------	--------

-1.55I
I
I
I
I

-----0	--(A)
--------	--------

I	I	I	I
I	I	I	I
(0A)	(11)	(1B)	(12)

DATE=04/08/93 , TIME=15.48.48

(B1-FLOOR) H=1396.7(T) DIRECTION D-TOTAL H/D(T) DF/DT C.R.(M) C.SF.(M)
 --- (X) --- 155.29 8.99 0.17 20.008 24.600
 (DUE TO U-LOAD) --- (Y) --- 0.00 8.99 -- 3.770 8.662

I(DX)
 -----*-----
 (DY)I

0.00 0.00 0.00

0.40	0.01	0.79	0.86	0.01	0.01			0.01	0.78	0.78
-----	*-----*	*-----*	*-----*	*-----*	*-----*			*-----*	*-----*	*-----*
* I	* I	* I	* I	* I	* I			* I	* I	* I
* I	* I	* I	* I	* I	* I			* I	* I	* I
* I	* I	* I	* I	* I	* I			* I	* I	* I
* I	* I	* I	* I	* I	* I			* I	* I	* I
* 10.00	* 0.42	* 10.83	* 10.82	* 0.80	* 0.78	* 0.78		* 10.82	* 0.88	* 10.43
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*		*-----*	*-----*	*-----*
* 0.00I	* I	* -0.06I	* I	* -0.13I	* -0.13I	* -0.23I		* -0.16I		
* I	* I	* I	* I	* I	* I	* I		* I		
* I	* I	* I	* I	* I	* I	* I		* I		
* I	* I	* I	* I	* I	* I	* I		* I		
* I	* I	* I	* I	* I	* I	* I		* I		
* -0.01I	* I	* I	* I	* I	* I	* I		* I		
* I	* I	* I	* I	* I	* I	* I		* I		
* I	* I	* I	* I	* I	* I	* I		* I		
* 0.00	* 118.74	* I	* I	* 0.69	* 10.62	* 10.63		* 10.60	* 0.65	* 18.17
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*		*-----*	*-----*	*-----*
* 1.69I	* 0.26I	* -0.11I	* -0.29I	* -0.20I	* -0.18I	* -13.96I				
* I	* I	* I	* I	* I	* I	* I				
* I	* I	* I	* I	* I	* I	* I				
* I	* I	* I	* I	* I	* I	* I				
* I	* I	* I	* I	* I	* I	* I				
* I	* I	* I	* I	* I	* I	* I				
* I	* I	* I	* I	* I	* I	* I				
* I	* I	* I	* I	* I	* I	* I				
* I	* I	* I	* I	* I	* I	* I				
* 42.75	* I	* I	* I	* I	* I	* I				
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*		*-----*	*-----*	*-----*
* 14.91	* 0.32	* 0.44	* 0.30	* -0.04				* -0.18	* 0.31	
* I	* I	* I	* I	* I	* I	* I		* I	* I	
* I	* I	* I	* I	* I	* I	* I		* I	* I	
(1)	(1A)	(2)	(3)	(4)	(5)	(6)		(8)	(9)	(10)

--(G)

0.01	0.79		0.66	
-----				--(F)
I	-0.22I		-0.27I	
I	I		I	
I	I		I	
I	I		I	
I	-0.06	I0.00	0.00	I0.00
-----				--(E)
0.00I	-0.01I	0.00I	0.00I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I	I	*	I	--(D)
I	I	0.01I	I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
I	I	I	I	
*****				--(C)
	*	I	-0.43I	
	*	I	I	
	*	I	I	
	*	I	I	
	*-0.07	I0.00	I0.00	
-----				--(B)
	-1.07I			
	I			
	I			
	I			
	I			
*****				--(A)
	-0.25			
I	I	I	I	
I	I	I	I	
(0A)	(11)	(1B)	(12)	

(5 -FLOOR) H= 393.7(T) DIRECTION D-TOTAL H/D(T) DF/DT C.R.(M) C.SF.(M) I(DX)
---(X)--- 0.00 8.35 -- 27.324 25.584 -----*-----
(DUE TO V-LOAD) ---(Y)--- 47.14 8.35 0.25 7.536 8.401 (DY)I

		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*
0.00I	0.00I	0.16I	0.63I	0.37I	0.51I	0.48I	*	0.37I	0.35I	0.30I	
I	I	I	I	I	I	I	*	I	I	I	
I	I	I	I	I	I	I	*	I	I	I	
I	I	I	I	I	I	I	*	I	I	I	
I	I	I	I	I	I	I	*	I	I	I	
I	*	I	I	I	I	I	*	I	I	I	
I	-0.02I	I	I	I	I	I	*	I	I	I	
I	I	I	I	I	I	I	*	I	I	I	
I	I	I	I	I	I	I	*	I	I	I	
I	I	I	I	I	I	I	*	I	I	I	
I	I	I	I	I	I	I	*	I	I	I	
I	I	10.00	I-0.07	I	10.00	I-0.14	*	I	I	10.00	
-----	*-----*	*-----*	*****	-----Y-----	*****	*****	*****	*****	*****	*****	*-----*
0.00	0.00	0.08	0.54I	0.99I	1.00I	*	7.89I	0.68I	*	*	
			I	I	I	*	I	I	*	*	
			I	I	I	*	I	I	*	*	
			I	I	I	*	I	I	*	*	
			I	10.01	10.02	*0.02	10.02	10.02	*0.02	*0.02	
			-----	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	*-----*	
			0.59	0.51	24.31	0.35	0.35	3.84	2.50		

I I I I I I I I I I I
I I I I I I I I I I I
(1) (1A) (2) (3) (4) (5) (6) (7) (8) (9) (10)

--(G)

--(F)

```

      *-----*-----*-----*
0.00I      I      I      I      I      I      I      I      I      I      I
I          I      I      I      I      I      I      I      I      I      I
I          I      I      I      I      I      I      I      I      I      I
I          I      I      I      I      I      I      I      I      I      I
I          I      I      I      I      I      I      I      I      I      I
I          I      I      I      I      I      I      I      I      I      I
I          I      I      I      I      I      I      I      I      I      I
I          I      I      I      I      I      I      I      I      I      I
I          I      I      I      I      I      I      I      I      I      I
*-----*-----*-----*
          *
          *
          *
          *
          *0.01
-----*-----*-----*
0.40

```

--(E)

--(D)

--(C)

--(B)

--(A)

```

      I      I      I      I
      I      I      I      I
(0A)  (11)  (1B)  (12)

```

I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

--(F)

```

*-----*-----*-----*
0.00I      I      I      I      --(E )
I          I      I      I
I          I      I      I
I          I      I      I
I          I      I      I
I          I      *      I      --(D )
I          I      0.01I     I
I          I      I      I
I          I      I      I
I          I      I      I
I          I      I      I
*-----*-----I      I      --(C )
          *      I      I
          *      I      I
          *      I      I
          *      I      I
          *0.02    I      I
-----*-----*-----*      --(B )
1.28

```

--- (A)

$$\begin{array}{c} \text{I} \\ \text{I} \\ \text{(OA)} \end{array} \quad \begin{array}{c} \text{I} \\ \text{I} \\ \text{(11)} \end{array} \quad \begin{array}{c} \text{I} \\ \text{I} \\ \text{(1B)} \end{array} \quad \begin{array}{c} \text{I} \\ \text{I} \\ \text{(12)} \end{array}$$

[illegible]

I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

--(F)

	0.00				
	-----				--(E)
0.00	I	I	I	I	
	I	I	I	I	
	I	I	I	I	
	I	I	I	I	
	I	I	I	I	
	I	I	*	I	--(D)
	I	0.01	I	I	
	I	I	I	I	
	I	I	I	I	
	I	I	I	I	
	I	0.00	I	I	--(C)

		*	I	I	
		*	I	I	
		*	I	I	
		*	I	I	
		*0.03	I	I	
	-----*				--(B)
1.47					

--(A)

I	I	I	I
I	I	I	I
(0A)	(11)	(1B)	(12)

DATE=04/08/93 , TIME=15.48.48

(1 -FLOOR) H=1253.3(T) DIRECTION D-TOTAL H/D(T) DF/DT C.R.(M) C.SF.(M)
 --- (X) --- 0.00 31.47 -- 26.734 24.929
 (DUE TO V-LOAD) --- (Y) --- 39.82 31.47 0.42 7.077 8.781

I (DX)
 ----*----
 (DY)I

```

0-----0-----0-----0-----0-----0          0-----0-----0-----
I         I         I         I         I         I          I         I         I
I         I         I         I         I         I          I         I         I
I         I         I         I         I         I          I         I         I
I         I         I         I         I         I          I         I         I
I         I         I0.01      I0.01      I0.01      I0.01      0.01      0.01      I0.01      I0.01      I0.02
*-----*-----*-----*-----*-----*-----*-----*-----*-----*-----*-----
0.01I      0.00I      0.48I      0.86I      0.87      0.95I      0.50I      0.50I      0.58I      0.55I      0.16I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I-0.32      I         I-0.01      I-0.16      I         I-0.16      I         I-0.01
*-----*-----*-----*-----*-----*-----*-----*-----*-----*-----*-----
0.01I      0.00      0.45I      0.99I      0.81I      1.00I      *      0.86I      0.66I      *      *
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
0-----0-----0-----0-----0-----0          0-----0-----0-----
I         I         I         I         I         I         I         I         I         I         I
I         I         I         I         I         I         I         I         I         I         I
(1 )      (1A)      (2 )      (3 )      (4 )      (5 )      (6 )      (7 )      (8 )      (9 )      (10)

```

--(G)

0-----0-----0 --(F)

I	I	I
I	I	I
I	I	I
I	I	I
I0.00	I	I

----------* --(E)

I	0.00I	I	0.00I
I	I	I	I
I	I	I	I
I	I	I	I
I	I	I	I
I	I	*	I
I	I	0.00I	I
I	I	I	I
I	I	I	I
I	I	I	I
I	I0.00	I	I

----------0-----0 --(C)

*	I	I
*	I	I
*	I	I
*	I	I
*0.01	I	I

-----*-----* --(B)

1.62I
I
I
I
I

-----0 --(A)

I	I	I	I
I	I	I	I
(0A)	(11)	(1B)	(12)

(B1-FLOOR) H=1396.7(T) DIRECTION D-TOTAL H/D(T) DF/DT C.R.(M) C.SF.(M) I(DX)
---(X)--- 0.00 17.20 -- 20.008 24.600 -----*-----
(DUE TO V-LOAD) ---(Y)--- 81.23 17.20 0.15 3.770 8.662 (DY)I

----------*

-0.05	0.00	-0.10	-0.11	0.00	0.00			0.00	-0.10	-0.10
-----	*-----*	*-----*	*-----*	*-----*	*-----*			*-----*	*-----*	*-----*
* 0.00I		* I	I 0.00I	*				I	* I	I
* I		* I	I	*				I	* I	I
* I		* I	I	*				I	* I	I
* I		* I	I	*				I	* I	I
* I		* -0.05	I -0.09	I -0.09	* -0.09	-0.09	-0.09	I -0.09	* -0.09	I -0.07
-----	*-----*	*-----*	*-----*	*-----*	*-----*			*-----*	*-----*	*-----*
* 0.00I		* I	I 0.15I	*	I 0.05I	I 0.14I	I 0.55I		* I 0.45I	
* I		* I	I	*	I	I	I		* I	I
* I		* I	I	*	I	I	I		* I	I
* I		* I	I	*	I	I	I		* I	I
* I		* I	I	*	I	I	I		* I	I
* I		* I	I	*	I	I	I		* I	I
* -0.04I		* I	I	*	I	I	I		* I	I
* I		* I	I	*	I	I	I		* I	I
* I		* I	I	*	I	I	I		* I	I
* I		* I	I	*	I	I	I		* I	I
* I -1.33		* I	I	*	I -0.07	I -0.07	I -0.07	I -0.07	* -0.08	I -0.57
-----	*-----*	*-----*	*-----*	*-----*	*-----*			*-----*	*-----*	*-----*
* 0.00	3.43I	1.29I	I 0.02I	I 2.99I	*	I 0.34I	I 0.32I	I 30.63I		*
* I	I	I	I	I	*	I	I	I		*
* I	I	I	I	I	*	I	I	I		*
* I	I	I	I	I	*	I	I	I		*
* I	I	I	I 0.02	I 1.85	*	I	I	I		* 0.02
* I	I	I	*-----*	*-----*	*-----*			*-----*		*-----*
* I	I	I	I 0.08I	I 0.04*	I 7.07	I 0.23	I 0.29		* I 6.52I	
* I	I	I	I	I	*				* I	
* I	I	I	I	I	*				* I	
* I	I	I	I	I	*				* I	
* 1.21	I	I	I	I	*				* 0.62	I
-----	*-----*	*-----*	*-----*	*-----*	*-----*			*-----*	*-----*	*-----*
20.19	0.01	0.42	0.01	0.96				1.25	0.01	
I	I	I	I	I	I	I	I	I	I	I
I	I	I	I	I	I	I	I	I	I	I
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

--(G)

```

      -0.10      -0.08
*-----*-----*
I      0.37I      0.40I  --(F )
I      I      I
I      I      I
I      I      I
I0.00      I      I
*-----*-----*
0.00I      0.01I      I      0.01I  --(E )
I      I      I      I
I      I      I      I
I      I      I      I
I      I      I      I
I      I      *      I  --(D )
I      I      I      I
I      I      I      I
I      I      I      I
I      I      I      I
*****
*      I      0.64I  --(C )
*      I      I
*      I      I
*      I      I
*      I      I
Y-----*-----*  --(B )
2.01I
I
I
I
I
*****
0.41      --(A )
I      I      I      I
I      I      I      I
(0A)      (11)      (1B)      (12)

```

XYNETICS WAS CALLED BY SUB. SKLAY. JOB1=0000 NA1=00 NB1=00

```

      N
      U   I   V
------(FL)-----
      N+U I N+V
      N-U I N-V

```

N = DUE TO VERTICAL FORCE (T)
 U = DUE TO U-LOAD (ANGLE = 0.0)
 V = DUE TO V-LOAD (ANGLE = 90.0)

			-22.3 0.8 I -4.1 ----- (B1) ----- -21.5 I -26.4 -23.0 I -18.1	-26.6 -5.1 I -46.0 ----- (B1) ----- -31.8 I -72.6 -21.5 I 19.4	-10.9 -3.3 I -25.5 ----- (B1) ----- -14.3 I -36.4 -7.6 I 14.6			
-42.5 -36.0 I -117.4 ----- (B1) ----- -78.5 I -160.0 -6.5 I 74.9	-25.7 -4.1 I 1.0 ----- (B1) ----- -29.8 I -24.7 -21.6 I -26.7	-46.3 -3.5 I -38.5 ----- (B1) ----- -49.8 I -84.8 -42.8 I -7.8	-37.8 -6.0 I 1.5 ----- (B1) ----- -43.9 I -36.3 -31.8 I -39.3	-22.2 -11.9 I -68.7 ----- (B1) ----- -34.1 I -90.9 -10.3 I 46.5	-13.2 -3.1 I -102.7 ----- (B1) ----- -16.3 I -116.0 -10.1 I 89.5			15 --- 2 -28
-42.7 30.0 I 79.2 ----- (B1) ----- -12.7 I 36.5 -72.6 I -121.8	-41.2 0.0 I 0.1 ----- (B1) ----- -41.2 I -41.1 -41.2 I -41.3	-180.0 59.0 I -45.9 ----- (B1) ----- -120.9 I -225.9 -239.0 I -134.0	-271.5 154.9 I -120.7 ----- (B1) ----- -116.6 I -392.2 -426.3 I -150.8	-268.0 -21.6 I -129.0 ----- (B1) ----- -289.6 I -397.0 -246.4 I -138.9	-300.8 -157.9 I 3.8 ----- (B1) ----- -458.7 I -297.0 -142.9 I -304.7	-297.2 0.8 I -51.7 ----- (B1) ----- -296.3 I -348.8 -298.0 I -245.5	-292.9 1.5 I -126.3 ----- (B1) ----- -291.4 I -419.2 -294.5 I -166.7	-7 --- -271 -255
	-29.0 0.0 I 0.1 ----- (B1) ----- -29.0 I -28.9 -28.9 I -29.0							
-47.3 -15.9 I -41.8 ----- (B1) ----- -63.2 I -89.2 -31.5 I -5.5	-25.9 49.9 I -5.8 ----- (B1) ----- 24.0 I -31.8 -75.9 I -20.1	-179.4 254.5 I 72.7 ----- (B1) ----- 75.1 I -106.7 -433.9 I -252.1	-289.3 431.9 I 108.0 ----- (B1) ----- 142.6 I -181.3 -721.2 I -397.3	-385.2 -602.4 I 164.7 ----- (B1) ----- -987.6 I -220.4 217.2 I -549.9	-471.7 -9.3 I 47.1 ----- (B1) ----- -480.9 I -424.5 -462.4 I -518.8	-453.3 282.5 I -934.1 ----- (B1) ----- -170.8 I -1387 -735.8 I 480.8	-415.4 -128.9 I 73.7 ----- (B1) ----- -544.4 I -341.7 -286.5 I -489.2	131 --- -250 -513
			-118.1 6.1 I -0.1 ----- (B1) ----- -112.0 I -118.2 -124.2 I -118.0	-283.2 171.8 I 106.7 ----- (B1) ----- -111.4 I -176.5 -455.1 I -390.0	-329.3 121.3 I -6.1 ----- (B1) ----- -208.0 I -335.4 -450.7 I -323.2	-285.2 -52.3 I 976.4 ----- (B1) ----- -337.5 I 691.2 -232.9 I -1262	-237.8 -4.0 I 56.2 ----- (B1) ----- -241.8 I -181.6 -233.8 I -293.9	-8 --- -242 -226
-60.2 125.3 I 83.4 ----- (B1) ----- 65.1 I 23.2 -185.5 I -143.6		-80.1 -0.8 I 0.0 ----- (B1) ----- -81.0 I -80.2 -79.3 I -80.1	-61.4 0.2 I 9.5 ----- (B1) ----- -61.2 I -51.9 -61.6 I -70.9	-40.3 -1.6 I -0.1 ----- (B1) ----- -41.8 I -40.4 -38.7 I -40.2	-20.4 -90.1 I 87.6 ----- (B1) ----- -110.5 I 67.2 69.7 I -108.1			
(1)	(1A)	(2)	(3)	(4)	(5)	(6)	(7)	

							---(G)
-12.9 .7 I -78.0 --(B1)----	-35.5 38.7 I-135.5 ----- (B1)-----	-34.8 -4.2 I 1.0 ----- (B1)-----	-20.0 -1.6 I 0.4 ----- (B1)-----	-48.7 9.4 I -7.8 ----- (B1)-----		-45.5 -8.7 I -3.4 ----- (B1)-----	---(F)
.8 I -90.9 .6 I 65.1	3.2 I-171.0 -74.2 I 100.0	-39.0 I -33.8 -30.6 I -35.9	-21.6 I -19.7 -18.5 I -20.4	-39.3 I -56.6 -58.1 I -40.9		-54.3 I -49.0 -36.8 I -42.1	
-263.5 .8 I 36.2 --(B1)----	-255.7 198.1 I-197.6 ----- (B1)-----	-185.3 -211.3 I -65.6 ----- (B1)-----	-72.6 0.0 I 0.0 ----- (B1)-----	-58.7 1.6 I -2.7 ----- (B1)-----	-20.9 0.0 I 0.0 ----- (B1)-----	-34.6 10.8 I -30.2 ----- (B1)-----	---(E)
.3 I-227.3 .8 I-299.7	-57.6 I-453.2 -453.7 I -58.1	-396.6 I-250.9 26.0 I-119.7	-72.6 I -72.7 -72.7 I -72.6	-57.1 I -61.4 -60.2 I -56.0	-20.9 I -20.9 -20.9 I -20.9	-23.8 I -64.8 -45.3 I -4.3	
					-33.2 0.0 I 0.0 ----- (B1)-----		---(D)
					-33.2 I -33.2 -33.2 I -33.2		
-381.9 .4 I -20.4 --(B1)----	-384.1 -315.9 I -1.9 ----- (B1)-----	-240.6 155.9 I-441.7 ----- (B1)-----	-61.2 0.6 I -0.5 ----- (B1)-----	-99.3 192.1 I-585.3 ----- (B1)-----	-11.4 -41.4 I 4.9 ----- (B1)-----	-13.2 -13.0 I 36.4 ----- (B1)-----	---(C)
.5 I-402.3 .3 I-361.5	-700.1 I-386.1 -68.2 I-382.2	-84.6 I-682.2 -396.5 I 201.1	-60.6 I -61.7 -61.8 I -60.7	92.8 I-684.6 -291.3 I 486.0	-52.7 I -6.5 30.0 I -16.2	-26.1 I 23.3 -0.2 I -49.6	
-234.6 .2 I 57.7 --(B1)----	-248.0 -136.4 I 174.1 ----- (B1)-----	-218.7 -195.3 I 502.1 ----- (B1)-----		-114.1 -302.2 I 583.1 ----- (B1)-----	-20.7 0.0 I 0.0 ----- (B1)-----	-6.9 0.0 I 0.0 ----- (B1)-----	---(B)
.8 I-176.9 .4 I-292.3	-384.5 I -74.0 -111.6 I-422.1	-414.0 I 283.5 -23.4 I-720.8		-416.3 I 468.9 188.0 I-697.2	-20.7 I -20.7 -20.7 I -20.7	-6.9 I -6.9 -6.9 I -6.9	
		-24.5 59.6 I 160.6 ----- (B1)-----	-48.3 0.0 I 0.0 ----- (B1)-----	-39.6 -100.9 I 7.1 ----- (B1)-----			---(A)
		35.1 I 136.1 -84.1 I-185.1	-48.3 I -48.3 -48.3 I -48.3	-140.5 I -32.5 61.3 I -46.6			

(8)

(9)

(10)

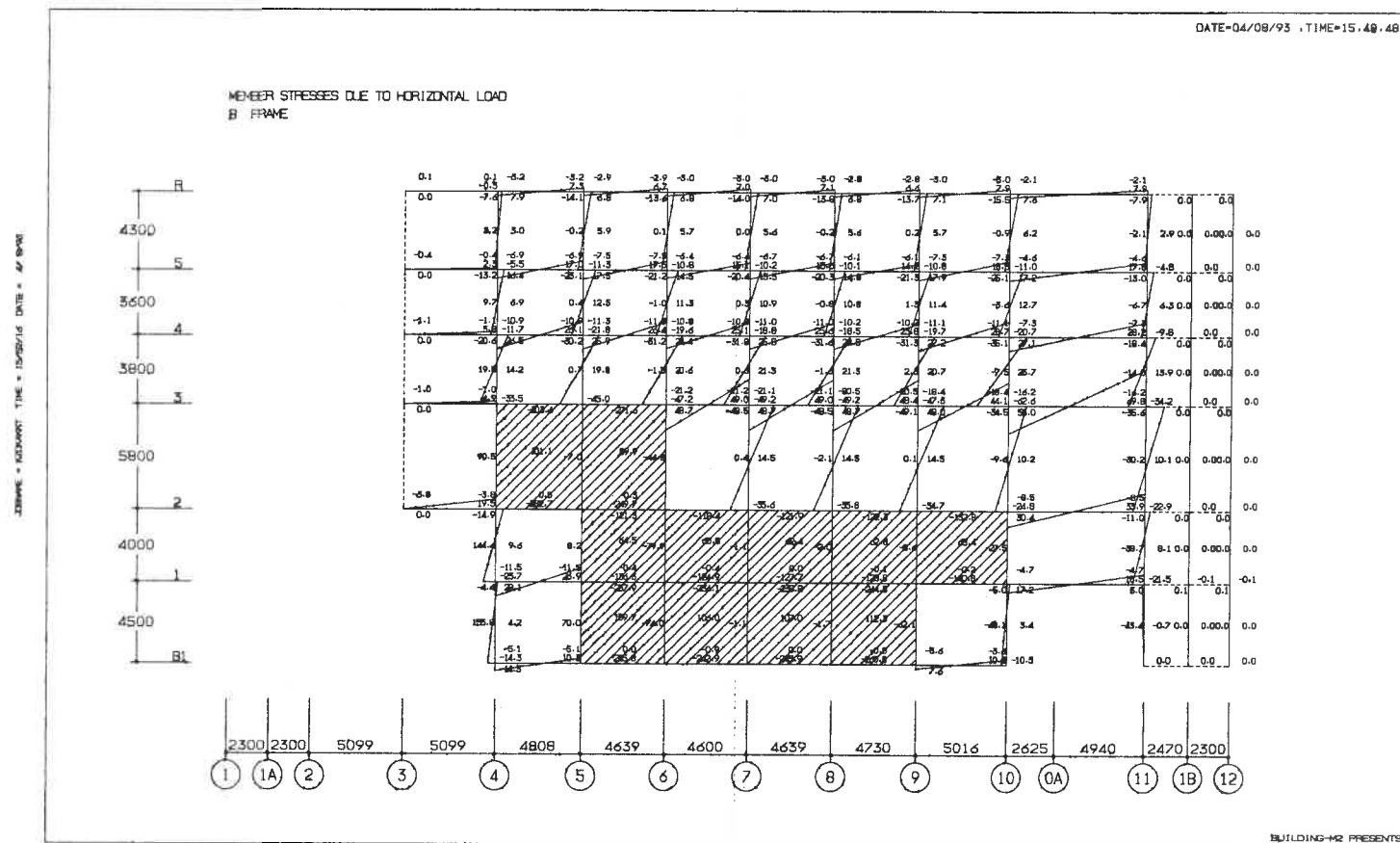
(0A)

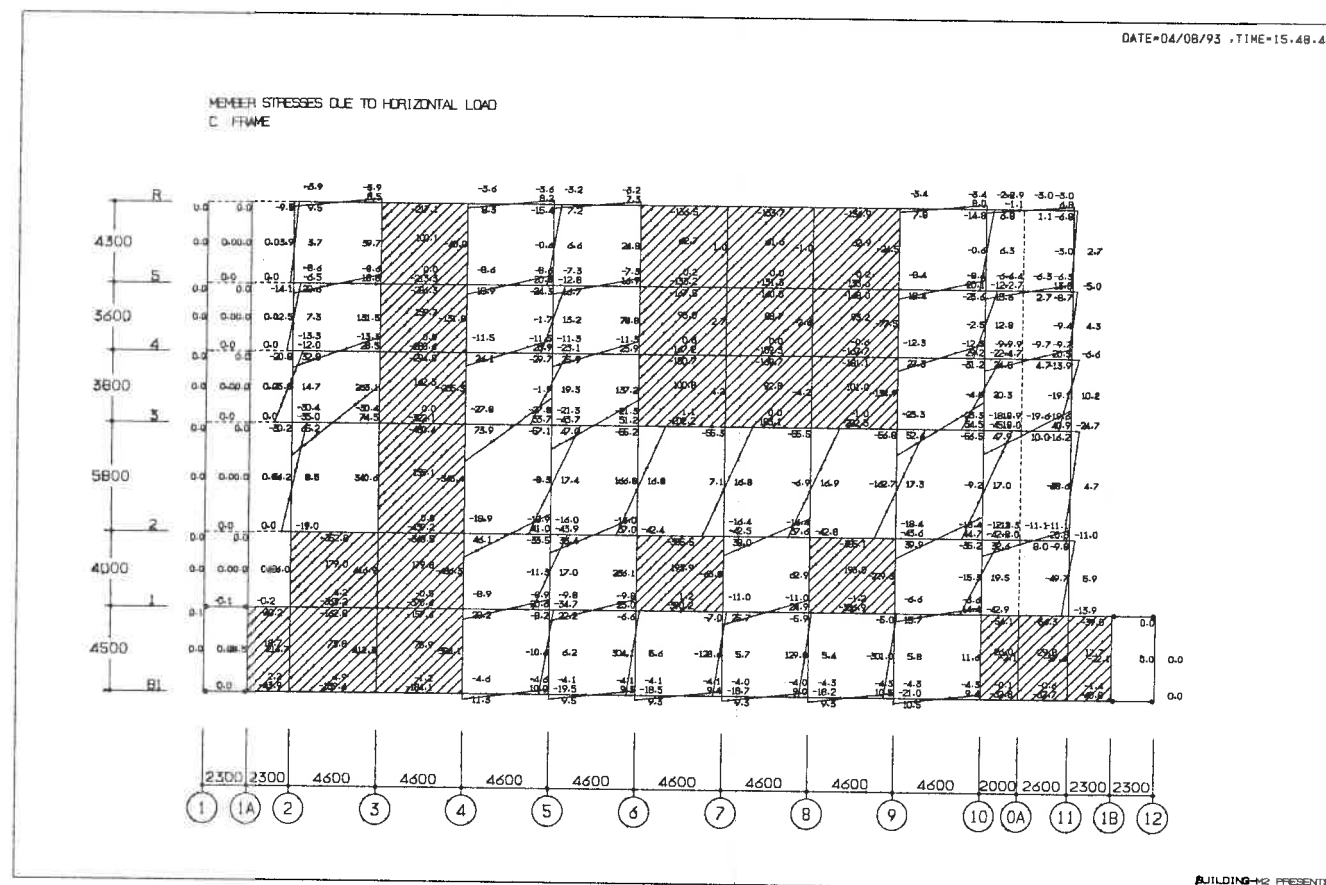
(11)

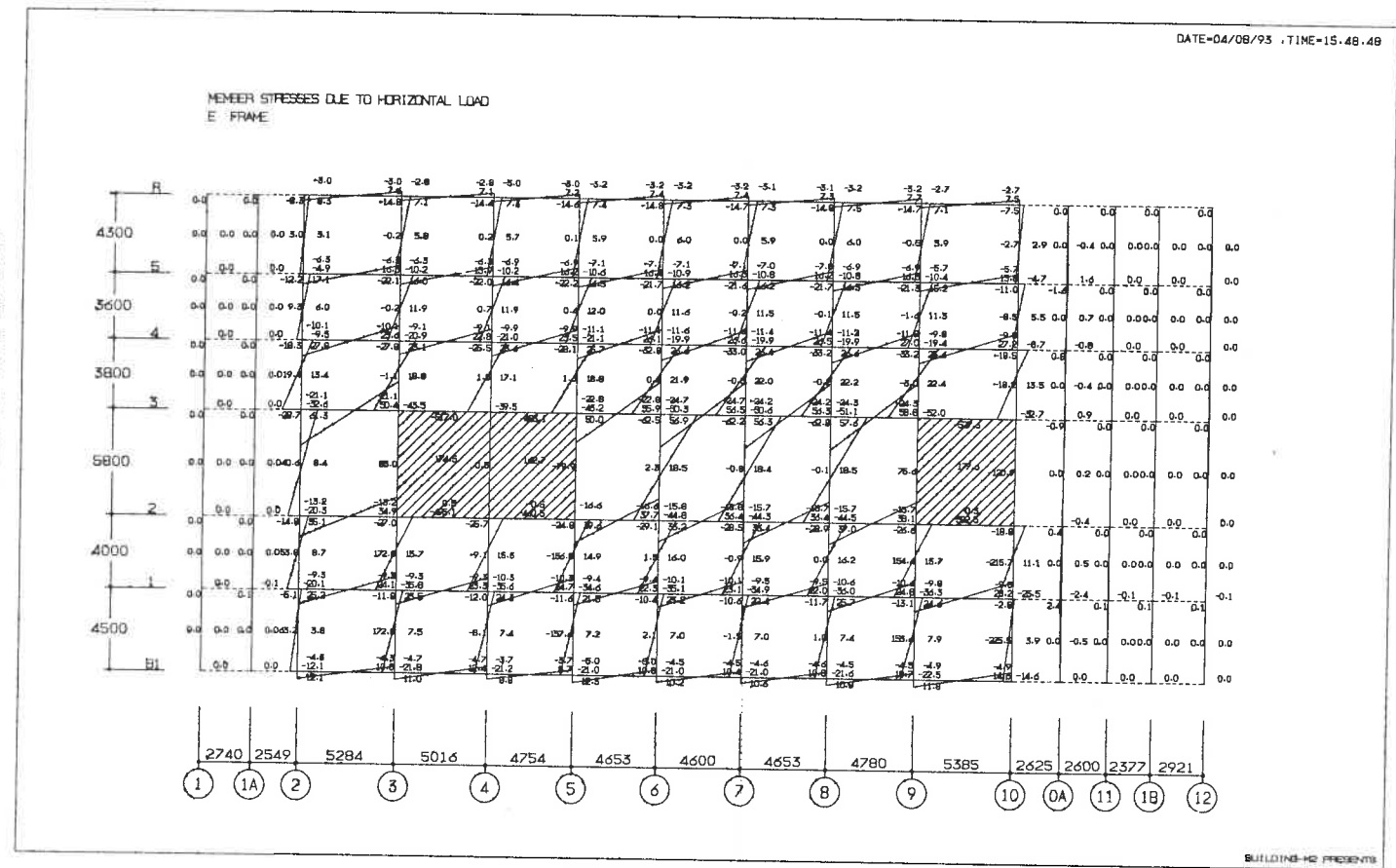
(1B)

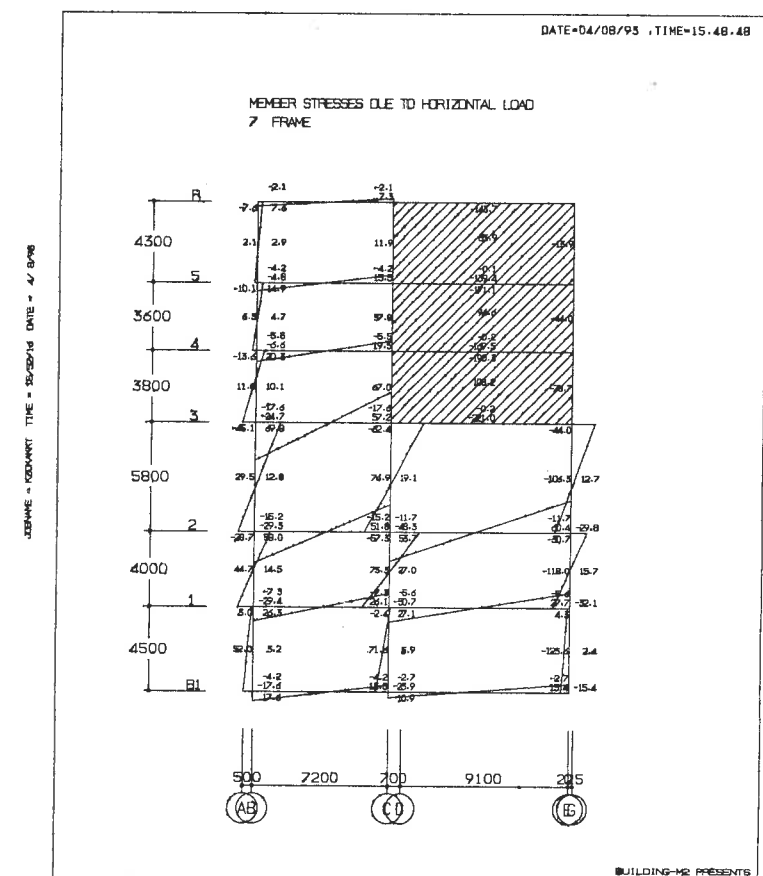
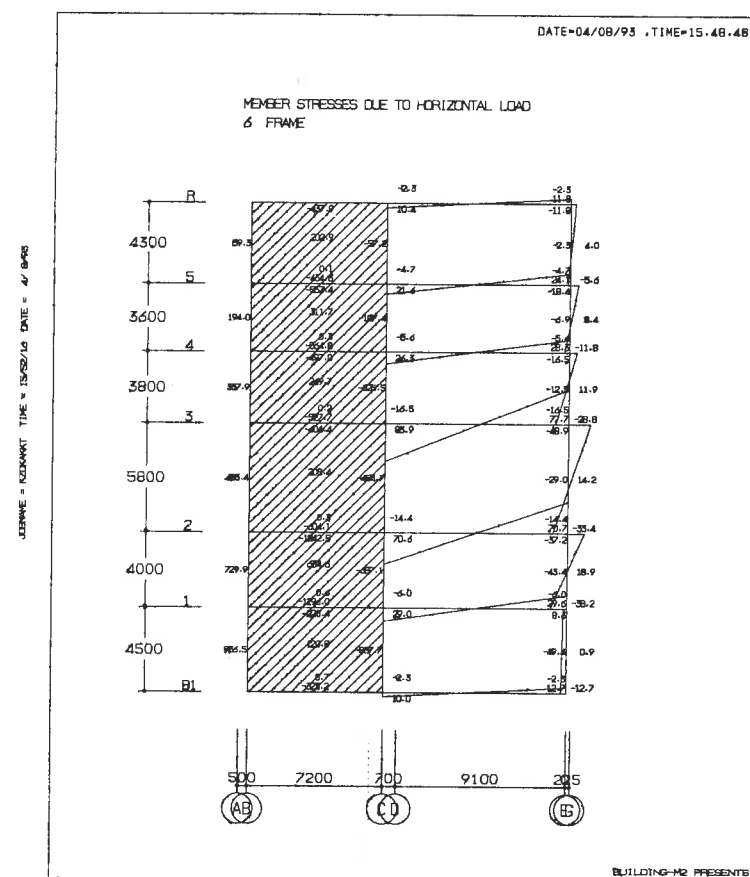
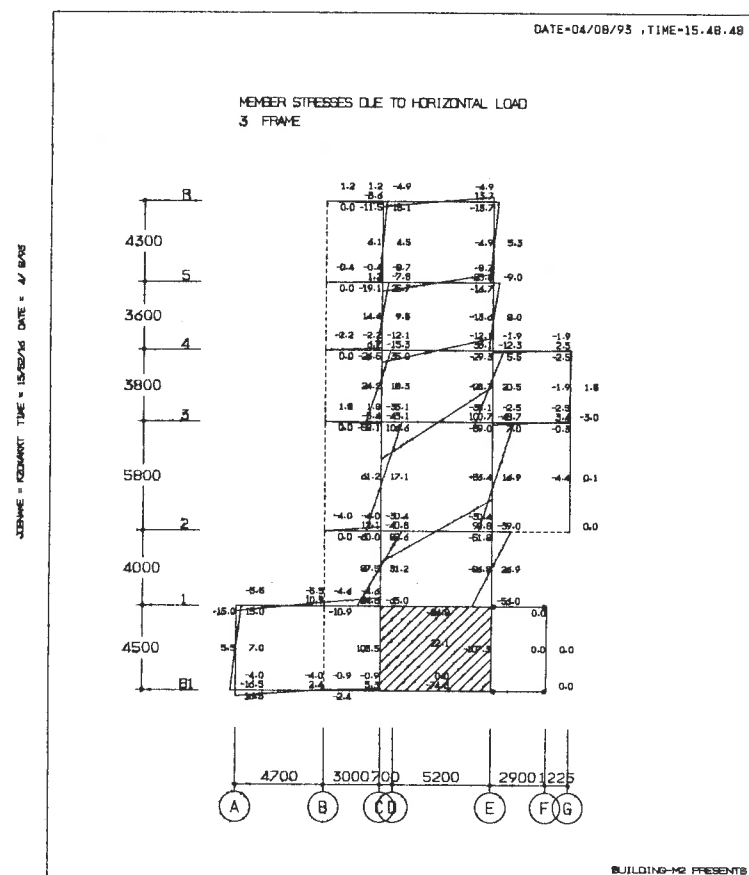
(12)

89. 地震力、風力、雪力









U-UPPER TENSION
L-LOWER TENSION

R-X-1 (B -FRAME 4 -5) -RC- SPAN= 4.808 (M)

B X D	450 X 700		
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	17.6U	9.7U	25.5U
MF	17.6U	10.8U	24.4U
MA	27.8	55.7	55.7
1.0Q*+(QL)	(11.4)	8.3	14.6
MY/L*+(QO)	(8.7)	16.0	33.4
QD	11.4	8.3	14.6
QA	28.4	52.4	40.9
QAA	35.9	53.8	53.8

B X D	450 X 700		
UPPER-BAR	4-D25		DT= 65
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A200(0.28)		
	/----- CENTER -----/		
	PERM	TEMP	TEMP
M (TM)	5.7L	6.0L	5.4L
MF	5.7L	6.0L	5.4L
MA	24.8	39.4	39.4
1.0Q*+(QL)	---	3.2	3.2
MY/L*+(QO)	---	24.7	24.7
QD	---	3.2	3.2
QA	22.5	43.9	32.0
QAA	37.4	56.0	56.0

B X D	450 X 700		
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- RIGHT END -----/		
	PERM	TEMP	TEMP
M (TM)	4.5U	11.8U	2.7L
MF	4.5U	10.7U	1.6L
MA	27.8	55.7	39.4
1.0Q*+(QL)	(7.7)	10.8	4.5
MY/L*+(QO)	(10.4)	35.1	14.3
QD	7.7	10.8	4.5
QA	28.4	52.4	40.9
QAA	35.9	53.8	56.0

R-X-1 (B -FRAME 5 -6) -RC- SPAN= 4.639 (M)

B X D	450 X 700		
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	6.0U	0.8L	12.7U
MF	6.0U	0.2U	11.7U
MA	27.8	55.7	55.7
1.0Q*+(QL)	(5.3)	2.3	8.2
MY/L*+(QO)	(4.5)	21.3	30.2
QD	5.3	2.3	8.2
QA	32.9	47.1	44.1
QAA	35.9	53.8	53.8

B X D	450 X 700		
UPPER-BAR	4-D25		DT= 65
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A200(0.28)		
	/----- CENTER -----/		
	PERM	TEMP	TEMP
M (TM)	1.8L	1.8L	1.8L
MF	1.8L	1.8L	1.8L
MA	24.8	39.4	39.4
1.0Q*+(QL)	---	2.9	2.9
MY/L*+(QO)	---	25.8	25.8
QD	---	2.9	2.9
QA	27.2	38.5	35.3
QAA	37.4	56.0	56.0

B X D	450 X 700		
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- RIGHT END -----/		
	PERM	TEMP	TEMP
M (TM)	2.2U	9.0U	4.5L
MF	2.2U	8.0U	3.5L
MA	27.8	55.7	39.4
1.0Q*+(QL)	(3.5)	6.4	0.6
MY/L*+(QO)	(4.3)	30.0	21.5
QD	3.5	6.4	0.6
QA	32.9	47.1	44.1
QAA	35.9	53.8	56.0

R-X-1 (B -FRAME 6 -7) -RC- SPAN= 4.600 (M)

B X D	450	X	700
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	4.8U	2.1L	11.6U
MF	4.8U	1.0L	10.6U
MA	27.8	39.4	55.7
1.0Q'+(QL)	(4.8)	1.8	7.8
MY/L'+(QO)	(4.3)	21.7	30.4
QD	4.8	1.8	7.8
QA	35.0	47.4	45.4
QAA	35.9	56.0	53.8

450 X 700			
4-D25			DT= 65
4-D25			DT= 65
2-D13-A200(0.28)			
/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.2L	2.1L	2.2L
	2.2L	2.1L	2.2L
	24.8	39.4	39.4
	---	3.0	3.0
	---	26.0	26.0
	---	3.0	3.0
	29.4	38.7	36.6
	37.4	56.0	56.0

450 X 700			
4-D25	2-D25		DT= 90
4-D25			DT= 65
2-D13-A100(0.56)			
/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	2.6U	9.5U	4.4L
	2.6U	8.5U	3.4L
	27.8	55.7	39.4
	(3.8)	6.8	0.8
	(4.3)	30.4	21.7
	3.8	6.8	0.8
	35.0	47.4	45.4
	35.9	53.8	56.0

R-X-1 (B -FRAME 7 -8) -RC- SPAN= 4.639 (M)

B X D	450	X	700
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	5.2U	1.8L	12.2U
MF	5.2U	0.8L	11.1U
MA	27.8	39.4	55.7
1.0Q'+(QL)	(4.9)	1.8	7.9
MY/L'+(QO)	(4.3)	21.5	30.0
QD	4.9	1.8	7.9
QA	33.9	47.7	44.5
QAA	35.9	56.0	53.8

450 X 700			
4-D25			DT= 65
4-D25			DT= 65
2-D13-A200(0.28)			
/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.1L	2.1L	2.2L
	2.1L	2.1L	2.2L
	24.8	39.4	39.4
	---	3.0	3.0
	---	25.8	25.8
	---	3.0	3.0
	28.2	39.1	35.7
	37.4	56.0	56.0

450 X 700			
4-D25	2-D25		DT= 90
4-D25			DT= 65
2-D13-A100(0.56)			
/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	2.4U	9.4U	4.7L
	2.4U	8.4U	3.6L
	27.8	55.7	39.4
	(3.9)	6.9	0.8
	(4.5)	30.2	21.3
	3.9	6.9	0.8
	33.9	47.7	44.5
	35.9	53.8	56.0

R-X-1 (B -FRAME 8 -9) -RC- SPAN= 4.730 (M)

B X D 450 X 700
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.56)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	4.8U	2.0L	11.6U
MF	4.8U	1.0L	10.6U
MA	27.8	39.4	55.7
1.0Q'+(QL)	(4.5)	1.7	7.3
MY/L'+(QO)	(4.3)	20.9	29.5
QD	4.5	1.7	7.3
QA	33.9	46.5	44.0
QAA	35.9	56.0	53.8

450 X 700
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.28)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	1.9L	2.0L	1.8L
	1.9L	2.0L	1.8L
	24.8	39.4	39.4
	---	2.8	2.8
	---	25.2	25.2
	---	2.8	2.8
	28.2	37.8	35.2
	37.4	56.0	56.0

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	3.7U	10.3U	2.9L
	3.7U	9.3U	1.9L
	27.8	55.7	39.4
	(4.4)	7.2	1.6
	(4.6)	29.8	20.6
	4.4	7.2	1.6
	33.9	46.5	44.0
	35.9	53.8	56.0

5-X-1 (B -FRAME 4 -5) -RC- SPAN= 4.808 (M)

B X D 450 X 750
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.56)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	17.9U	1.5U	34.4U
MF	17.9U	4.0U	31.9U
MA	31.6	62.1	62.1
1.0Q'+(QL)	(12.3)	5.3	19.2
MY/L'+(QO)	(9.0)	17.9	35.8
QD	12.3	5.3	19.2
QA	32.7	51.3	46.1
QAA	38.8	58.2	58.2

450 X 750
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.28)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	3.8L	3.5L	4.1L
	3.8L	3.5L	4.1L
	26.7	42.5	42.5
	---	6.9	6.9
	---	26.9	26.9
	---	6.9	6.9
	26.3	41.8	36.4
	40.3	60.4	60.4

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	2.1U	19.1U	14.9L
	2.1U	16.6U	12.4L
	31.6	62.1	42.5
	(5.6)	12.5	1.4
	(8.9)	35.7	18.0
	5.6	12.5	1.4
	32.7	51.3	47.8
	38.8	58.2	60.4

5-X-1 (B -FRAME 5 -6) -RC- SPAN= 4.639 (M)

B X D 450 X 750
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.56)

		/----- LEFT END -----/		
	(TM)	PERM	TEMP	TEMP
M		8.3U	9.2L	25.8U
MF		8.3U	6.5L	23.2U
MA		31.6	42.5	62.1
1.0Q*+(QL)		(8.6)	1.0	16.1
MY/L*+(QO)		(7.5)	20.5	35.5
QD		8.6	1.0	16.1
QA		39.6	51.5	49.4
QAA		38.8	60.4	58.2

450 X 750
4-D25 DT= 65
4-D25 DT= 65

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		3.5L	3.5L	3.5L
		3.5L	3.5L	3.5L
		26.7	42.5	42.5
		---	7.5	7.5
		---	28.0	28.0
		---	7.5	7.5
		33.4	42.0	39.9
		40.3	60.4	60.4

450 X 750
4-D25 2-D25 DT= 90
4-D25 DT= 65
2-D13-A100(0.56)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		3.3U	20.8U	14.2L
		3.3U	18.2U	11.5L
		31.6	62.1	42.5
		(6.2)	13.8	1.3
		(7.3)	35.3	20.7
		6.2	13.8	1.3
		39.6	51.5	51.3
		38.8	58.2	60.4

4-X-1 (B -FRAME 4 -5) -RC- SPAN= 4.808 (M)

B X D 500 X 800
UPPER-BAR 5-D25 DT= 65
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.51)

		/----- LEFT END -----/		
	(TM)	PERM	TEMP	TEMP
M		17.8U	8.8L	44.3U
MF		17.8U	4.7L	40.2U
MA		36.8	45.6	58.6
1.0Q*+(QL)		(11.5)	0.5	22.4
MY/L*+(QO)		(8.0)	19.3	35.3
QD		11.5	0.5	22.4
QA		38.9	59.2	54.1
QAA		36.0	64.9	54.0

500 X 800
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.25)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		2.7L	3.0L	2.5L
		2.7L	3.0L	2.5L
		28.7	45.6	45.6
		---	10.9	10.9
		---	27.3	27.3
		---	10.9	10.9
		30.7	46.9	41.9
		43.2	64.9	64.9

500 X 800
5-D25 DT= 65
4-D25 DT= 65
2-D13-A100(0.51)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		1.2U	27.3U	24.8L
		1.2U	23.2U	20.7L
		36.8	58.6	45.6
		(4.5)	15.4	6.5
		(7.9)	35.2	19.4
		4.5	15.4	6.5
		38.9	59.2	54.1
		36.0	54.0	64.9

4-X-1 (B -FRAME 5 -6) -RC- SPAN= 4.639 (M)

B X D 500 X 800
UPPER-BAR 5-D25 DT= 65
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.51)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	7.5U	18.4L	33.5U
MF	7.5U	14.1L	29.2U
MA	36.8	45.6	58.6
1.0Q*+(QL)	(8.0)	3.3	19.3
MY/L*+(QO)	(7.1)	21.4	35.6
QD	8.0	3.3	19.3
QA	49.4	59.8	59.0
QAA	36.0	64.9	54.0

500 X 800
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.25)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	3.5L	3.2L	3.7L
	3.5L	3.2L	3.7L
	28.7	45.6	45.6
	---	11.3	11.3
	---	28.5	28.5
	---	11.3	11.3
	41.2	47.5	46.7
	43.2	64.9	64.9

500 X 800
5-D25 DT= 65
4-D25 DT= 65
2-D13-A100(0.51)

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	3.4U	29.8U	22.9L
	3.4U	25.6U	18.7L
	36.8	58.6	45.6
	(6.1)	17.3	5.2
	(7.0)	35.4	21.5
	6.1	17.3	5.2
	49.4	59.8	59.0
	36.0	54.0	64.9

3-X-1 (B -FRAME 6 -7) -RC- SPAN= 4.600 (M)

B X D 500 X 1700
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 2-D25 DT= 90
STIRRUP PW(%) 4-D13-A100(12)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	9.3U	39.3L	58.0U
MF	9.3U	29.8L	48.4U
MA	99.5	150.0	158.3
1.0Q*+(QL)	(8.8)	12.4	30.1
MY/L*+(QO)	(7.7)	81.8	97.1
QD	8.8	12.4	30.1
QA	156.1	234.1	234.1
QAA	94.7	213.1	142.1

500 X 1700
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.25)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.8L	2.6L	3.0L
	2.8L	2.6L	3.0L
	63.8	101.5	101.5
	---	21.2	21.2
	---	89.4	89.4
	---	21.2	21.2
	104.0	156.0	156.0
	96.2	144.3	144.3

500 X 1700
4-D25 2-D25 DT= 90
4-D25 2-D25 DT= 90
4-D13-A100(12)

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	4.0U	53.1U	45.0L
	4.0U	43.5U	35.4L
	99.5	158.3	150.0
	(6.5)	27.8	14.7
	(7.7)	97.1	81.8
	6.5	27.8	14.7
	156.1	234.1	234.1
	94.7	142.1	213.1

3-X-1 (B -FRAME 7 -8) -RC- SPAN= 4.639 (M)

B X D 500 X 1700
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 2-D25 DT= 90
STIRRUP PW(%) 4-D13-A100(12)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	8.2U	40.4L	56.9U
MF	8.2U	31.0L	47.4U
MA	99.5	150.0	158.3
1.0Q*+(QL)	(8.5)	12.6	29.5
MY/L*+(QO)	(7.7)	80.8	96.2
QD	8.5	12.6	29.5
QA	156.1	234.1	234.1
QAA	94.7	213.1	142.1

500 X 1700
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.25)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	3.3L	3.1L	3.5L
	3.3L	3.1L	3.5L
	63.8	101.5	101.5
	---	21.1	21.1
	---	88.5	88.5
	---	21.1	21.1
	104.0	156.0	156.0
	96.2	144.3	144.3

500 X 1700
4-D25 2-D25 DT= 90
4-D25 2-D25 DT= 90
4-D13-A100(12)

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	4.4U	53.4U	44.6L
	4.4U	43.9U	35.1L
	99.5	158.3	150.0
	(7.0)	28.1	14.1
	(7.8)	96.3	80.7
	7.0	28.1	14.1
	156.1	234.1	234.1
	94.7	142.1	213.1

1-X-1 (B -FRAME 4 -5) -RC- SPAN= 4.808 (M)

B X D 500 X 900
UPPER-BAR 5-D25 DT= 65
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.51)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	8.5U	19.6L	36.6U
MF	8.5U	14.5L	31.5U
MA	42.1	51.9	67.0
1.0Q*+(QL)	(12.1)	0.6	23.5
MY/L*+(QO)	(13.1)	19.3	45.5
QD	12.1	0.6	23.5
QA	59.6	75.2	75.9
QAA	40.9	73.7	61.4

500 X 900
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.25)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	8.1L	8.7L	7.5L
	8.1L	8.7L	7.5L
	32.6	51.9	51.9
	---	11.5	11.5
	---	32.4	32.4
	---	11.5	11.5
	50.4	61.3	62.0
	49.1	73.7	73.7

500 X 900
5-D25 DT= 65
4-D25 DT= 65
2-D13-A100(0.51)

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	13.4U	40.3U	13.6L
	13.4U	35.1U	8.4L
	42.1	67.0	51.9
	(14.4)	25.8	2.9
	(13.3)	45.8	19.1
	14.4	25.8	2.9
	59.6	75.2	75.9
	40.9	61.4	73.7

R-X-2 (C -FRAME 4 -5) -RC- SPAN= 4.600 (M)

B X D	450	X	700
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	11.4U	3.1U	19.6U
MF	11.4U	4.4U	18.3U
MA	27.8	55.7	55.7
1.0Q'+(QL)	(12.4)	8.8	15.9
MY/L'+(QO)	(11.9)	14.5	38.3
QD	12.4	8.8	15.9
QA	36.2	50.7	49.1
QAA	35.9	53.8	53.8

450 X 700			
4-D25			DT= 65
4-D25			DT= 65
2-D13-A200(0.28)			
/----- CENTER -----/			
	PERM	TEMP	TEMP
	6.9L	6.9L	6.9L
	6.9L	6.9L	6.9L
	24.8	39.4	39.4
	---	3.6	3.6
	---	26.4	26.4
	---	3.6	3.6
	30.7	42.1	40.5
	37.4	56.0	56.0

450 X 700			
4-D25	2-D25		DT= 90
4-D25			DT= 65
2-D13-A100(0.56)			
/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	9.3U	17.5U	1.1U
	9.3U	16.2U	2.4U
	27.8	55.7	55.7
	(11.5)	15.1	7.9
	(12.0)	38.3	14.4
	11.5	15.1	7.9
	36.2	50.7	49.1
	35.9	53.8	53.8

R-X-2 (C -FRAME 5 -6) -RC- SPAN= 4.600 (M)

B X D	450	X	700
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	6.9U	0.3L	14.2U
MF	6.9U	0.9U	13.0U
MA	27.8	55.7	55.7
1.0Q'+(QL)	(6.2)	3.0	9.3
MY/L'+(QO)	(5.6)	20.7	32.0
QD	6.2	3.0	9.3
QA	33.1	46.7	44.8
QAA	35.9	53.8	53.8

450 X 700			
4-D25			DT= 65
4-D25			DT= 65
2-D13-A200(0.28)			
/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.6L	2.5L	2.6L
	2.6L	2.5L	2.6L
	24.8	39.4	39.4
	---	3.2	3.2
	---	26.4	26.4
	---	3.2	3.2
	27.4	38.0	36.0
	37.4	56.0	56.0

450 X 700			
4-D25	2-D25		DT= 90
4-D25			DT= 65
2-D13-A100(0.56)			
/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	4.4U	11.7U	2.9L
	4.4U	10.5U	1.7L
	27.8	55.7	39.4
	(5.1)	8.2	1.9
	(5.6)	32.0	20.7
	5.1	8.2	1.9
	33.1	46.7	44.8
	35.9	53.8	56.0

5-X-2 (C -FRAME 4 -5) -RC- SPAN= 4.600 (M)

B X D	450	X	750
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	4.7U	14.2L	23.6U
MF	4.7U	11.0L	20.4U
MA	31.6	42.5	62.1
1.0Q*+(QL)	(5.7)	2.9	14.2
MY/L*+(QO)	(5.6)	23.1	34.2
QD	5.7	2.9	14.2
QA	42.5	49.8	49.5
QAA	38.8	60.4	58.2

450	X	750	
4-D25		DT= 65	
4-D25		DT= 65	
		2-D13-A200(0.28)	
/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.4L	1.7L	3.2L
	2.4L	1.7L	3.2L
	26.7	42.5	42.5
	---	8.6	8.6
	---	28.7	28.7
	---	8.6	8.6
	36.4	38.3	40.0
	40.3	60.4	60.4

450	X	750	
4-D25	2-D25	DT= 90	
4-D25		DT= 65	
		2-D13-A100(0.56)	
/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	4.3U	24.7U	16.2L
	4.3U	21.5U	13.0L
	31.6	62.1	42.5
	(5.5)	14.0	3.1
	(5.6)	34.2	23.1
	5.5	14.0	3.1
	42.5	47.9	51.4
	38.8	58.2	60.4

5-X-2 (C -FRAME 5 -6) -RC- SPAN= 4.600 (M)

B X D	450	X	750
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	2.5U	14.2L	19.2U
MF	2.5U	11.4L	16.5U
MA	31.6	42.5	62.1
1.0Q*+(QL)	(2.8)	4.5	10.1
MY/L*+(QO)	(2.8)	25.9	31.4
QD	2.8	4.5	10.1
QA	41.0	48.1	46.5
QAA	38.8	60.4	58.2

450	X	750	
4-D25		DT= 65	
4-D25		DT= 65	
		2-D13-A200(0.28)	
/----- CENTER -----/			
	PERM	TEMP	TEMP
	1.3L	1.2L	1.4L
	1.3L	1.2L	1.4L
	26.7	42.5	42.5
	---	7.3	7.3
	---	28.7	28.7
	---	7.3	7.3
	34.9	36.7	36.9
	40.3	60.4	60.4

450	X	750	
4-D25	2-D25	DT= 90	
4-D25		DT= 65	
		2-D13-A100(0.56)	
/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	2.2U	19.1U	14.7L
	2.2U	16.4U	11.9L
	31.6	62.1	42.5
	(2.7)	10.0	4.6
	(2.8)	31.4	25.9
	2.7	10.0	4.6
	41.0	46.4	48.3
	38.8	58.2	60.4

4-X-2 (C -FRAME 4 -5) -RC- SPAN= 4.600 (M)

B X D 500 X 800
 UPPER-BAR 5-D25 DT= 65
 LOWER-BAR 4-D25 DT= 65
 STIRRUP PW(%) 2-D13-A100(0.51)

		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	4.5U	21.6L	30.6U
MF		4.5U	17.3L	26.2U
MA		36.8	45.6	58.6
1.0Q'+(QL)		(5.3)	6.2	16.8
MY/L'+(QO)		(5.1)	23.6	33.9
QD		5.3	6.2	16.8
QA		51.9	57.5	58.1
QAA		36.0	64.9	54.0

500 X 800
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.25)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		2.3L	1.9L	2.7L
		2.3L	1.9L	2.7L
		28.7	45.6	45.6
		---	11.5	11.5
		---	28.8	28.8
		---	11.5	11.5
		43.7	45.2	45.8
		43.2	64.9	64.9

500 X 800
 5-D25 DT= 65
 4-D25 DT= 65
 2-D13-A100(0.51)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		3.7U	30.6U	23.1L
		3.7U	26.3U	18.8L
		36.8	58.6	45.6
		(5.0)	16.5	6.5
		(5.1)	33.9	23.6
		5.0	16.5	6.5
		51.9	57.5	58.1
		36.0	54.0	64.9

4-X-2 (C -FRAME 5 -6) -RC- SPAN= 4.600 (M)

B X D 500 X 800
 UPPER-BAR 5-D25 DT= 65
 LOWER-BAR 4-D25 DT= 65
 STIRRUP PW(%) 2-D13-A100(0.51)

		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	2.9U	23.0L	28.9U
MF		2.9U	18.8L	24.6U
MA		36.8	45.6	58.6
1.0Q'+(QL)		(3.1)	8.1	14.4
MY/L'+(QO)		(3.0)	25.8	31.8
QD		3.1	8.1	14.4
QA		49.7	55.7	55.4
QAA		36.0	64.9	54.0

500 X 800
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.25)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		1.3L	1.4L	1.3L
		1.3L	1.4L	1.3L
		28.7	45.6	45.6
		---	11.3	11.3
		---	28.8	28.8
		---	11.3	11.3
		41.5	43.5	43.2
		43.2	64.9	64.9

500 X 800
 5-D25 DT= 65
 4-D25 DT= 65
 2-D13-A100(0.51)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		2.3U	28.2U	23.5L
		2.3U	24.0U	19.3L
		36.8	58.6	45.6
		(2.9)	14.1	8.4
		(3.0)	31.8	25.8
		2.9	14.1	8.4
		49.7	55.7	55.4
		36.0	54.0	64.9

3-X-2 (C -FRAME 4 -5) -RC- SPAN= 4.600 (M)

B X D 500 X 1700
 UPPER-BAR 4-D25 2-D25 DT= 90
 LOWER-BAR 4-D25 2-D25 DT= 90
 STIRRUP PW(%) 4-D13-A100(12)

	PERM	TEMP	TEMP
M (TM)	8.7U	65.2L	82.6U
MF	8.7U	52.7L	70.1U
MA	99.5	150.0	158.3
1.0Q'+(QL)	(10.3)	17.4	38.1
MY/L'+(QO)	(10.4)	79.1	99.8
QD	10.3	17.4	38.1
QA	156.1	234.1	225.3
QAA	94.7	213.1	142.1

500 X 1700
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.25)

	PERM	TEMP	TEMP
	5.5L	15.6L	4.6U
	5.5L	15.6L	4.6U
	63.8	101.5	108.6
---	27.8	27.8	
---	89.4	89.4	
---	27.8	27.8	
	104.0	156.0	147.0
	96.2	144.3	96.2

500 X 1700
 4-D25 2-D25 DT= 90
 4-D25 2-D25 DT= 90
 4-D13-A100(12)

	PERM	TEMP	TEMP
	9.0U	62.8U	44.7L
	9.0U	50.3U	32.2L
	99.5	158.3	150.0
(10.5)	38.2	17.3	
(10.4)	99.8	79.1	
10.5	38.2	17.3	
156.1	234.1	225.3	
94.7	142.1	213.1	

3-X-2 (C -FRAME 5 -6) -RC- SPAN= 4.600 (M)

B X D 500 X 1700
 UPPER-BAR 4-D25 2-D25 DT= 90
 LOWER-BAR 4-D25 2-D25 DT= 90
 STIRRUP PW(%) 4-D13-A100(12)

	PERM	TEMP	TEMP
M (TM)	8.7U	38.3L	55.8U
MF	8.7U	28.7L	46.2U
MA	99.5	150.0	158.3
1.0Q'+(QL)	(10.2)	11.2	31.5
MY/L'+(QO)	(10.2)	79.3	99.6
QD	10.2	11.2	31.5
QA	156.1	234.1	234.1
QAA	94.7	213.1	142.1

500 X 1700
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.25)

	PERM	TEMP	TEMP
	5.3L	3.2L	7.3L
	5.3L	3.2L	7.3L
	63.8	101.5	101.5
---	21.3	21.3	
---	89.4	89.4	
---	21.3	21.3	
	104.0	156.0	156.0
	96.2	144.3	144.3

500 X 1700
 4-D25 2-D25 DT= 90
 4-D25 2-D25 DT= 90
 4-D13-A100(12)

	PERM	TEMP	TEMP
	8.7U	59.8U	42.5L
	8.7U	50.2U	32.9L
	99.5	158.3	150.0
(10.2)	31.5	11.2	
(10.2)	99.6	79.3	
10.2	31.5	11.2	
156.1	234.1	234.1	
94.7	142.1	213.1	

2-X-2 (C -FRAME 4 -5) -RC- SPAN= 4.600 (M)

B X D	500	X	900
UPPER-BAR	5-D25	1-D25	DT= 80
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.51)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	6.1U	40.0L	52.3U
MF	6.1U	31.5L	43.7U
MA	47.1	51.9	78.3
1.0Q'+(QL)	(6.9)	12.0	25.9
MY/L'+(QO)	(7.0)	30.5	44.4
QD	6.9	12.0	25.9
QA	59.4	71.9	66.4
QAA	48.2	73.7	72.4

500 X 900		
4-D25		DT= 65
4-D25		DT= 65
2-D13-A200(0.25)		
/----- CENTER -----/		
PERM	TEMP	TEMP
3.5L	6.1L	0.9L
3.5L	6.1L	0.9L
32.6	51.9	51.9
---	18.9	18.9
---	37.5	37.5
---	18.9	18.9
51.2	58.0	53.7
49.1	73.7	73.7

500 X 900		
5-D25	1-D25	DT= 80
4-D25		DT= 65
2-D13-A100(0.51)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
6.3U	47.3U	34.7L
6.3U	38.8U	26.1L
47.1	78.3	51.9
(7.0)	26.0	11.9
(7.0)	44.4	30.5
7.0	26.0	11.9
59.4	70.6	67.6
48.2	72.4	73.7

2-X-2 (C -FRAME 5 -6) -RC- SPAN= 4.600 (M)

B X D	500	X	900
UPPER-BAR	5-D25	1-D25	DT= 80
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.51)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	6.3U	30.1L	42.8U
MF	6.3U	22.9L	35.6U
MA	47.1	51.9	78.3
1.0Q'+(QL)	(7.1)	8.9	23.0
MY/L'+(QO)	(7.1)	30.4	44.5
QD	7.1	8.9	23.0
QA	59.6	70.2	69.5
QAA	48.2	73.7	72.4

500 X 900		
4-D25		DT= 65
4-D25		DT= 65
2-D13-A200(0.25)		
/----- CENTER -----/		
PERM	TEMP	TEMP
3.6L	3.3L	3.9L
3.6L	3.3L	3.9L
32.6	51.9	51.9
---	16.0	16.0
---	37.5	37.5
---	16.0	16.0
51.5	56.3	56.8
49.1	73.7	73.7

500 X 900		
5-D25	1-D25	DT= 80
4-D25		DT= 65
2-D13-A100(0.51)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
6.3U	43.3U	30.7L
6.3U	36.1U	23.5L
47.1	78.3	51.9
(7.1)	23.0	8.9
(7.1)	44.5	30.4
7.1	23.0	8.9
59.6	69.0	70.7
48.2	72.4	73.7

1-X-2 (C -FRAME 4 -5) -RC- SPAN= 4.600 (M)

B X D	450	X	800
UPPER-BAR	5-D25		DT= 65
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	6.6U	13.6L	26.8U
MF	6.6U	9.6L	22.8U
MA	35.5	45.6	58.4
1.0Q'+(QL)	(7.9)	1.0	16.8
MY/L'+(QD)	(7.8)	22.0	37.7
QD	7.9	1.0	16.8
QA	48.5	56.7	58.5
QAA	36.0	64.9	54.0

450 X 800		
4-D25	DT= 65	
4-D25	DT= 65	
2-D13-A200(0.28)		
/----- CENTER -----/		
PERM	TEMP	TEMP
3.6L	3.4L	3.8L
3.6L	3.4L	3.8L
28.7	45.6	45.6
---	8.9	8.9
---	29.8	29.8
---	8.9	8.9
40.4	44.4	46.2
43.2	64.9	64.9

450 X 800		
5-D25	DT= 65	
4-D25	DT= 65	
2-D13-A100(0.56)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
6.2U	26.9U	14.4L
6.2U	22.9U	10.4L
35.5	58.4	45.6
(6.9)	15.8	2.0
(6.9)	36.8	22.9
6.9	15.8	2.0
48.5	56.7	58.5
36.0	54.0	64.9

1-X-2 (C -FRAME 5 -6) -RC- SPAN= 4.600 (M)

B X D		450	X	800
UPPER-BAR		5-D25		DT= 65
LOWER-BAR		4-D25		DT= 65
STIRRUP PW(%)		2-D13-A100(0.56)		
		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	6.1U	16.1L	28.4U
MF		6.1U	11.7L	24.0U
MA		35.5	45.6	58.4
1.0Q'+(QL)		(6.7)	3.1	16.6
MY/L'+(QO)		(6.7)	23.2	36.5
QD		6.7	3.1	16.6
QA		46.7	56.1	56.8
QAA		36.0	64.9	54.0

450 X 800		
4-D25	DT= 65	
4-D25	DT= 65	
2-D13-A200 (0.28)		
/----- CENTER -----/		
PERM	TEMP	TEMP
3.4L	3.0L	3.8L
3.4L	3.0L	3.8L
28.7	45.6	45.6
---	9.8	9.8
---	29.8	29.8
---	9.8	9.8
38.5	43.8	44.5
43.2	64.9	64.9

450 X 800		
5-D25	DT= 65	
4-D25	DT= 65	
2-D13-A100(0.56)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
5.9U	28.8U	17.1L
5.9U	24.4U	12.7L
35.5	58.4	45.6
(6.6)	16.4	3.2
(6.7)	36.5	23.2
6.6	16.4	3.2
46.7	56.1	56.8
36.0	54.0	64.9

R-X-1 (E -FRAME 2 -3) -RC- SPAN= 5.284 (M)

B X D 450 X 700
 UPPER-BAR 4-D25 2-D25 DT= 90
 LOWER-BAR 4-D25 DT= 65
 STIRRUP PW(%) 2-D13-A100(0.56)

	PERM	TEMP	TEMP
M (TM)	3.7U	4.6L	12.0U
MF	3.7U	3.4L	10.9U
MA	27.8	39.4	55.7
1.0Q'+(QL)	(5.1)	2.1	8.2
MY/L'+(QO)	(5.4)	16.9	27.7
QD	5.1	2.1	8.2
QA	35.0	43.2	45.7
QAA	35.9	56.0	53.8

450 X 700
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.28)

	PERM	TEMP	TEMP
	2.9L	3.2L	2.6L
	2.9L	3.2L	2.6L
	24.8	39.4	39.4
---	3.0	3.0	
---	22.3	22.3	
---	3.0	3.0	
	29.3	34.4	36.9
	37.4	56.0	56.0

450 X 700
 4-D25 2-D25 DT= 90
 4-D25 DT= 65
 2-D13-A100(0.56)

	PERM	TEMP	TEMP
	5.1U	12.8U	2.5L
	5.1U	11.7U	1.5L
	27.8	55.7	39.4
(4.8)	7.8	1.8	
(4.6)	26.8	17.7	
4.8	7.8	1.8	
35.0	43.2	45.7	
35.9	53.8	56.0	

R-X-1 (E -FRAME 3 -4) -RC- SPAN= 5.016 (M)

B X D 450 X 700
 UPPER-BAR 4-D25 2-D25 DT= 90
 LOWER-BAR 4-D25 DT= 65
 STIRRUP PW(%) 2-D13-A100(0.56)

	PERM	TEMP	TEMP
M (TM)	4.8U	2.4L	11.9U
MF	4.8U	1.4L	10.9U
MA	27.8	39.4	55.7
1.0Q'+(QL)	(5.2)	2.4	8.0
MY/L'+(QO)	(5.1)	18.5	28.6
QD	5.2	2.4	8.0
QA	36.3	44.1	45.3
QAA	35.9	56.0	53.8

450 X 700
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.28)

	PERM	TEMP	TEMP
	2.3L	2.3L	2.3L
	2.3L	2.3L	2.3L
	24.8	39.4	39.4
---	2.8	2.8	
---	23.5	23.5	
---	2.8	2.8	
	30.7	35.3	36.6
	37.4	56.0	56.0

450 X 700
 4-D25 2-D25 DT= 90
 4-D25 DT= 65
 2-D13-A100(0.56)

	PERM	TEMP	TEMP
	4.1U	11.2U	3.0L
	4.1U	10.2U	2.0L
	27.8	55.7	39.4
(4.3)	7.1	1.4	
(4.4)	27.9	19.1	
4.3	7.1	1.4	
36.3	44.1	45.3	
35.9	53.8	56.0	

R-X-1 (E -FRAME 4 -5) -RC- SPAN= 4.754 (M)

B X D 450 X 700
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.56)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	4.1U	3.2L	11.4U
MF	4.1U	2.1L	10.4U
MA	27.8	39.4	55.7
1.0Q'+(QL)	(4.7)	1.7	7.8
MY/L'+(QO)	(4.7)	20.4	29.7
QD	4.7	1.7	7.8
QA	37.1	45.1	45.7
QAA	35.9	56.0	53.8

450 X 700
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.28)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.2L	2.2L	2.1L
	2.2L	2.2L	2.1L
	24.8	39.4	39.4
	---	3.0	3.0
	---	25.0	25.0
	---	3.0	3.0
	31.6	36.3	37.0
	37.4	56.0	56.0

450 X 700
4-D25 2-D25 DT= 90
4-D25 DT= 65
2-D13-A100(0.56)

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	3.9U	11.0U	3.3L
	3.9U	10.0U	2.3L
	27.8	55.7	39.4
	(4.2)	7.3	1.2
	(4.3)	29.3	20.8
	4.2	7.3	1.2
	37.1	45.1	45.7
	35.9	53.8	56.0

R-X-1 (E -FRAME 5 -6) -RC- SPAN= 4.653 (M)

B X D 450 X 700
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.56)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	3.9U	3.6L	11.3U
MF	3.9U	2.4L	10.2U
MA	27.8	39.4	55.7
1.0Q'+(QL)	(4.5)	1.3	7.7
MY/L'+(QO)	(4.5)	21.2	30.2
QD	4.5	1.3	7.7
QA	37.3	45.3	45.8
QAA	35.9	56.0	53.8

450 X 700
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.28)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.1L	2.1L	2.1L
	2.1L	2.1L	2.1L
	24.8	39.4	39.4
	---	3.2	3.2
	---	25.7	25.7
	---	3.2	3.2
	31.8	36.6	37.1
	37.4	56.0	56.0

450 X 700
4-D25 2-D25 DT= 90
4-D25 DT= 65
2-D13-A100(0.56)

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	3.8U	11.2U	3.7L
	3.8U	10.1U	2.5L
	27.8	55.7	39.4
	(4.2)	7.4	1.0
	(4.3)	29.9	21.4
	4.2	7.4	1.0
	37.3	45.3	45.8
	35.9	53.8	56.0

5-X-1 (E -FRAME 2 -3) -RC- SPAN= 5.284 (M)

450 X 750				450 X 750				450 X 750			
UPPER-BAR		4-D25	2-D25	DT= 90	4-D25		DT= 65	4-D25		2-D25	DT= 90
LOWER-BAR		4-D25		DT= 65	4-D25		DT= 65	4-D25			DT= 65
STIRRUP PW(%)		2-D13-A100(0.56)			2-D13-A200(0.28)			2-D13-A100(0.56)			
/----- LEFT END -----/				/----- CENTER -----/				/----- RIGHT END -----/			
	PERM	TEMP	TEMP		PERM	TEMP	TEMP		PERM	TEMP	TEMP
M (TM)	4.2U	12.9L	21.2U		2.4L	2.8L	2.0L		4.6U	20.9U	11.7L
MF	4.2U	10.6L	18.9U		2.4L	2.8L	2.0L		4.6U	18.7U	9.5L
MA	31.6	42.5	62.1		26.7	42.5	42.5		31.6	62.1	42.5
1.0Q*+(QL)	(5.1)	1.3	11.4		---	6.3	6.3		(5.2)	11.6	1.1
MY/L*+(QO)	(5.2)	19.1	29.4		---	24.2	24.2		(5.2)	29.4	19.1
QD	5.1	1.3	11.4		---	6.3	6.3		5.2	11.6	1.1
QA	41.3	48.4	46.1		35.3	37.0	36.5		41.3	46.7	47.9
QAA	38.8	60.4	58.2		40.3	60.4	60.4		38.8	58.2	60.4

5-X-1 (E -FRAME 3 -4) -RC- SPAN= 5.016 (M)

450 X 750				450 X 750				450 X 750				
UPPER-BAR		4-D25	2-D25	DT= 90	4-D25		DT= 65	4-D25		2-D25	DT= 90	
LOWER-BAR		4-D25		DT= 65	4-D25		DT= 65	4-D25			DT= 65	
STIRRUP PW(%)		2-D13-A100(0.56)			2-D13-A200(0.28)			2-D13-A100(0.56)				
/----- LEFT END -----/				/----- CENTER -----/				/----- RIGHT END -----/				
		PERM	TEMP	TEMP	PERM		TEMP	TEMP	PERM		TEMP	TEMP
M	(TM)	4.2U	11.7L	20.2U	2.0L		2.1L	1.9L	4.0U		19.8U	11.9L
MF		4.2U	9.5L	18.0U	2.0L		2.1L	1.9L	4.0U		17.6U	9.7L
MA		31.6	42.5	62.1	26.7		42.5	42.5	31.6		62.1	42.5
1.0Q*+(QL)		(4.9)	1.4	11.3	---		6.3	6.3	(4.8)		11.2	1.5
MY/L*+(QO)		(4.9)	20.7	30.5	---		25.6	25.6	(4.9)		30.5	20.7
QD		4.9	1.4	11.3	---		6.3	6.3	4.8		11.2	1.5
QA		41.7	49.1	47.0	35.7		37.7	37.3	41.7		47.3	48.8
QAA		38.8	60.4	58.2	40.3		60.4	60.4	38.8		58.2	60.4

5-X-1 (E -FRAME 4 -5) -RC- SPAN= 4.754 (M)

B X D		450	X	750
UPPER-BAR		4-D25	2-D25	DT= 90
LOWER-BAR		4-D25		DT= 65
STIRRUP PW(%)		2-D13-A100(0.56)		
		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	3.7U	12.7L	20.1U
MF		3.7U	10.3L	17.7U
MA		31.6	42.5	62.1
1.0Q'+(QL)		(4.6)	2.2	11.5
MY/L'+(QO)		(4.6)	22.6	31.8
QD		4.6	2.2	11.5
QA		43.0	49.9	47.8
QAA		38.8	60.4	58.2

450 X 750			
4-D25		DT= 65	
4-D25		DT= 65	
2-D13-A200(0.28)			
/----- CENTER -----/			
	PERM	TEMP	TEMP
	1.8L	1.9L	1.7L
	1.8L	1.9L	1.7L
	26.7	42.5	42.5
	---	6.9	6.9
	---	27.2	27.2
	---	6.9	6.9
	37.0	38.5	38.2
	40.3	60.4	60.4

450 X 750			
4-D25	2-D25	DT= 90	
4-D25		DT= 65	
2-D13-A100(0.56)			
/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	3.6U	19.8U	12.6L
	3.6U	17.4U	10.2L
	31.6	62.1	42.5
	(4.6)	11.4	2.3
	(4.6)	31.8	22.6
	4.6	11.4	2.3
	43.0	48.1	49.6
	38.8	58.2	60.4

5-X-1 (E -FRAME 5 -6) -RC- SPAN= 4.653 (M)

B X D		450 X 750	
UPPER-BAR	4-D25	2-D25	DT= 90
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.56)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	3.5U	13.0L	20.0U
MF	3.5U	10.5L	17.6U
MA	31.6	42.5	62.1
1.0Q'+(QL)	(4.5)	2.6	11.6
MY/L'+(Q0)	(4.5)	23.4	32.4
QD	4.5	2.6	11.6
QA	43.4	50.2	48.1
QAA	38.8	60.4	58.2

450 X 750			
4-D25		DT= 65	
4-D25		DT= 65	
2-D13-A200(0.28)			
/----- CENTER -----/			
	PERM	TEMP	TEMP
	1.7L	1.8L	1.7L
	1.7L	1.8L	1.7L
	26.7	42.5	42.5
	---	7.1	7.1
	---	27.9	27.9
	---	7.1	7.1
	37.5	38.8	38.5
	40.3	60.4	60.4

450 X 750			
4-D25	2-D25	DT= 90	
4-D25		DT= 65	
2-D13-A100(0.56)			
/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	3.4U	19.8U	12.9L
	3.4U	17.3U	10.5L
	31.6	62.1	42.5
	(4.5)	11.5	2.6
	(4.5)	32.4	23.4
	4.5	11.5	2.6
	43.4	48.4	50.0
	38.8	58.2	60.4

4-X-1 (E -FRAME 2 -3) -RC- SPAN= 5.284 (M)

B X D 500 X 800
 UPPER-BAR 5-D25 DT= 65
 LOWER-BAR 4-D25 DT= 65
 STIRRUP PW(%) 2-D13-A100(0.51)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	3.5U	24.3L	31.3U
MF	3.5U	20.5L	27.5U
MA	36.8	45.6	58.6
1.0Q'+(QL)	(4.4)	5.7	14.5
MY/L'+(QO)	(4.5)	19.9	28.9
QD	4.4	5.7	14.5
QA	49.4	54.3	52.5
QAA	36.0	64.9	54.0

500 X 800
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.25)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.1L	3.2L	1.0L
	2.1L	3.2L	1.0L
	28.7	45.6	45.6
	---	10.1	10.1
	---	24.4	24.4
	---	10.1	10.1
	41.2	42.0	40.3
	43.2	64.9	64.9

500 X 800
 5-D25 DT= 65
 4-D25 DT= 65
 2-D13-A100(0.51)

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	4.3U	29.9U	21.3L
	4.3U	26.1U	17.6L
	36.8	58.6	45.6
	(4.5)	14.6	5.6
	(4.4)	28.8	20.0
	4.5	14.6	5.6
	49.4	54.3	52.5
	36.0	54.0	64.9

4-X-1 (E -FRAME 3 -4) -RC- SPAN= 5.016 (M)

B X D 500 X 800
 UPPER-BAR 5-D25 DT= 65
 LOWER-BAR 4-D25 DT= 65
 STIRRUP PW(%) 2-D13-A100(0.51)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	4.6U	18.5L	27.6U
MF	4.6U	15.1L	24.2U
MA	36.8	45.6	58.6
1.0Q'+(QL)	(5.0)	4.1	14.2
MY/L'+(QO)	(5.0)	20.9	31.0
QD	5.0	4.1	14.2
QA	51.7	56.5	55.5
QAA	36.0	64.9	54.0

500 X 800
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.25)

/----- CENTER -----/			
	PERM	TEMP	TEMP
	2.6L	2.7L	2.5L
	2.6L	2.7L	2.5L
	28.7	45.6	45.6
	---	9.1	9.1
	---	26.0	26.0
	---	9.1	9.1
	43.5	44.3	43.2
	43.2	64.9	64.9

500 X 800
 5-D25 DT= 65
 4-D25 DT= 65
 2-D13-A100(0.51)

/----- RIGHT END -----/			
	PERM	TEMP	TEMP
	4.6U	27.4U	18.2L
	4.6U	24.0U	14.8L
	36.8	58.6	45.6
	(5.4)	14.6	3.7
	(5.4)	31.4	20.5
	5.4	14.6	3.7
	51.7	56.5	55.5
	36.0	54.0	64.9

4-X-1 (E -FRAME 4 -5) -RC- SPAN= 4.754 (M)

B X D 500 X 800
UPPER-BAR 5-D25 DT= 65
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.51)

		/----- LEFT END -----/		
	(TM)	PERM	TEMP	TEMP
M		3.8U	19.8L	27.5U
MF		3.8U	16.1L	23.7U
MA		36.8	45.6	58.6
1.0Q'+(QL)		(4.3)	5.6	14.3
MY/L'+(QO)		(4.2)	23.4	31.9
QD		4.3	5.6	14.3
QA		50.8	56.6	56.2
QAA		36.0	64.9	54.0

500 X 800
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.25)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		1.7L	1.8L	1.6L
		1.7L	1.8L	1.6L
		28.7	45.6	45.6
		---	9.9	9.9
		---	27.7	27.7
		---	9.9	9.9
		42.7	44.3	44.0
		43.2	64.9	64.9

500 X 800
5-D25 DT= 65
4-D25 DT= 65
2-D13-A100(0.51)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		3.2U	26.7U	20.3L
		3.2U	23.0U	16.6L
		36.8	58.6	45.6
		(4.1)	14.0	5.9
		(4.2)	31.8	23.5
		4.1	14.0	5.9
		50.8	56.6	56.2
		36.0	54.0	64.9

4-X-1 (E -FRAME 5 -6) -RC- SPAN= 4.653 (M)

B X D 500 X 800
UPPER-BAR 5-D25 DT= 65
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.51)

		/----- LEFT END -----/		
	(TM)	PERM	TEMP	TEMP
M		3.1U	22.6L	28.8U
MF		3.1U	18.4L	24.6U
MA		36.8	45.6	58.6
1.0Q'+(QL)		(3.8)	7.3	15.0
MY/L'+(QO)		(3.8)	24.6	32.2
QD		3.8	7.3	15.0
QA		53.1	56.3	56.5
QAA		36.0	64.9	54.0

500 X 800
4-D25 DT= 65
4-D25 DT= 65
2-D13-A200(0.25)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		1.5L	1.3L	1.7L
		1.5L	1.3L	1.7L
		28.7	45.6	45.6
		---	11.1	11.1
		---	28.4	28.4
		---	11.1	11.1
		44.9	44.1	44.3
		43.2	64.9	64.9

500 X 800
5-D25 DT= 65
4-D25 DT= 65
2-D13-A100(0.51)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		3.0U	29.1U	23.2L
		3.0U	24.9U	19.0L
		36.8	58.6	45.6
		(3.9)	15.0	7.3
		(3.9)	32.3	24.5
		3.9	15.0	7.3
		53.1	56.3	56.5
		36.0	54.0	64.9

3-X-1 (E -FRAME 5 -6) -RC- SPAN= 4.653 (M)

B X D 500 X 1700
 UPPER-BAR 4-D25 2-D25 DT= 90
 LOWER-BAR 4-D25 2-D25 DT= 90
 STIRRUP PW(%) 4-D13-A100(12)

		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	8.3U	41.8L	58.3U
MF		8.3U	31.5L	48.0U
MA		99.5	150.0	158.3
1.0Q*+(QL)	(10.1)	12.6	32.9	
MY/L*+(QO)	(10.2)	78.0	98.3	
QD	10.1	12.6	32.9	
QA	156.1	233.4	234.1	
QAA	94.7	213.1	142.1	

500 X 1700
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.25)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		4.5L	1.6L	7.5L
		4.5L	1.6L	7.5L
		63.8	101.5	101.5
		---	22.8	22.8
		---	88.2	88.2
		---	22.8	22.8
		104.0	155.3	156.0
		96.2	144.3	144.3

500 X 1700
 4-D25 2-D25 DT= 90
 4-D25 2-D25 DT= 90
 4-D13-A100(12)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		8.5U	64.4U	47.4L
		8.5U	54.2U	37.1L
		99.5	158.3	150.0
		(10.1)	32.8	12.7
		(10.0)	98.2	78.2
		10.1	32.8	12.7
		156.1	233.4	234.1
		94.7	142.1	213.1

3-X-1 (E -FRAME 6 -7) -RC- SPAN= 4.600 (M)

B X D 500 X 1700
 UPPER-BAR 4-D25 2-D25 DT= 90
 LOWER-BAR 4-D25 2-D25 DT= 90
 STIRRUP PW(%) 4-D13-A100(12)

		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	8.5U	48.4L	65.4U
MF		8.5U	37.3L	54.3U
MA		99.5	150.0	158.3
1.0Q*+(QL)	(10.3)	14.4	34.9	
MY/L*+(QO)	(10.0)	79.4	99.5	
QD	10.3	14.4	34.9	
QA	156.1	234.1	234.1	
QAA	94.7	213.1	142.1	

500 X 1700
 4-D25 DT= 65
 4-D25 DT= 65
 2-D13-A200(0.25)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		4.7L	4.9L	4.5L
		4.7L	4.9L	4.5L
		63.8	101.5	101.5
		---	24.7	24.7
		---	89.4	89.4
		---	24.7	24.7
		104.0	156.0	156.0
		96.2	144.3	144.3

500 X 1700
 4-D25 2-D25 DT= 90
 4-D25 2-D25 DT= 90
 4-D13-A100(12)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		7.5U	64.0U	49.0L
		7.5U	52.9U	37.9L
		99.5	158.3	150.0
		(9.8)	34.5	14.8
		(10.0)	99.5	79.4
		9.8	34.5	14.8
		156.1	234.1	234.1
		94.7	142.1	213.1

2-X-1 (E -FRAME 5 -6) -RC- SPAN= 4.653 (M)

500 X 900				500 X 900				500 X 900			
UPPER-BAR		5-D25 DT= 65		4-D25 DT= 65		5-D25 DT= 65		5-D25 DT= 65		5-D25 DT= 65	
LOWER-BAR		4-D25 DT= 65		4-D25 DT= 65		4-D25 DT= 65		4-D25 DT= 65		4-D25 DT= 65	
STIRRUP PW(%)		2-D13-A100(0.51)		2-D13-A200(0.25)		2-D13-A100(0.51)		2-D13-A100(0.51)		2-D13-A100(0.51)	
/----- LEFT END -----/				/----- CENTER -----/				/----- RIGHT END -----/			
	PERM	TEMP	TEMP		PERM	TEMP	TEMP		PERM	TEMP	TEMP
M (TM)	5.7U	33.9L	45.3U		3.1L	4.1L	2.2L		5.9U	43.6U	31.8L
MF	5.7U	26.4L	37.8U		3.1L	4.1L	2.2L		5.9U	36.1U	24.3L
MA	42.1	51.9	67.0		32.6	51.9	51.9		42.1	67.0	51.9
1.0Q'+(QL)	(7.0)	9.6	23.7		---	16.6	16.6		(7.1)	23.7	9.5
MY/L'+(QO)	(7.1)	26.7	40.9		---	33.8	33.8		(7.1)	40.8	26.7
QD	7.0	9.6	23.7		---	16.6	16.6		7.1	23.7	9.5
QA	62.4	71.2	69.5		53.1	57.3	55.6		62.4	71.2	69.5
QAA	40.9	73.7	61.4		49.1	73.7	73.7		40.9	61.4	73.7

2-X-1 (E -FRAME 6 -7) -RC- SPAN= 4.600 (M)

500 X 900				500 X 900				500 X 900			
UPPER-BAR		5-D25 DT= 65		4-D25 DT= 65		4-D25 DT= 65		5-D25 DT= 65		5-D25 DT= 65	
LOWER-BAR		4-D25 DT= 65		4-D25 DT= 65		4-D25 DT= 65		4-D25 DT= 65		4-D25 DT= 65	
STIRRUP PW(%)		2-D13-A100(0.51)		2-D13-A200(0.25)		2-D13-A200(0.25)		2-D13-A100(0.51)		2-D13-A100(0.51)	
/----- LEFT END -----/				/----- CENTER -----/				/----- RIGHT END -----/			
	PERM	TEMP	TEMP		PERM	TEMP	TEMP		PERM	TEMP	TEMP
M (TM)	5.8U	30.4L	41.9U		3.0L	2.9L	3.1L		5.8U	42.3U	30.6L
MF	5.8U	23.3L	34.8U		3.0L	2.9L	3.1L		5.8U	35.2U	23.5L
MA	42.1	51.9	67.0		32.6	51.9	51.9		42.1	67.0	51.9
1.0Q'+(QL)	(7.1)	8.7	22.9		---	15.8	15.8		(7.1)	22.9	8.7
MY/L'+(QO)	(7.1)	27.1	41.4		---	34.3	34.3		(7.1)	41.4	27.1
QD	7.1	8.7	22.9		---	15.8	15.8		7.1	22.9	8.7
QA	62.4	70.9	71.2		53.1	57.0	57.3		62.4	70.9	71.2
QAA	40.9	73.7	61.4		49.1	73.7	73.7		40.9	61.4	73.7

1-X-1 (E -FRAME 2 -3) -RC- SPAN= 5.284 (M)

B X D	500 X 900		
UPPER-BAR	5-D25	DT= 65	
LOWER-BAR	4-D25	DT= 65	
STIRRUP PW(%)	2-D13-A100(0.51)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	7.2U	18.0L	32.5U
MF	7.2U	14.3L	28.8U
MA	42.1	51.9	67.0
1.0Q'+(QL)	(10.1)	0.8	19.5
MY/L'+(QO)	(10.9)	17.7	39.5
QD	10.1	0.8	19.5
QA	58.7	72.1	72.3
QAA	40.9	73.7	61.4

500 X 900		
4-D25	DT= 65	
4-D25	DT= 65	
2-D13-A200(0.25)		
/----- CENTER -----/		
PERM	TEMP	TEMP
6.1L	6.7L	5.6L
6.1L	6.7L	5.6L
32.6	51.9	51.9
---	9.3	9.3
---	28.6	28.6
---	9.3	9.3
49.4	58.2	58.4
49.1	73.7	73.7

500 X 900		
5-D25	DT= 65	
4-D25	DT= 65	
2-D13-A100(0.51)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
11.3U	35.4U	12.8L
11.3U	31.2U	8.6L
42.1	67.0	51.9
(11.7)	21.0	2.3
(10.9)	39.5	17.7
11.7	21.0	2.3
58.7	72.1	72.3
40.9	61.4	73.7

1-X-1 (E -FRAME 3 -4) -RC- SPAN= 5.016 (M)

B X D	500	X	900
UPPER-BAR	5-D25		DT= 65
LOWER-BAR	4-D25		DT= 65
STIRRUP PW(%)	2-D13-A100(0.51).		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	10.1U	13.5L	33.6U
MF	10.1U	9.3L	29.4U
MA	42.1	51.9	67.0
1.0Q'+(QL)	(10.9)	1.6	20.3
MY/L'+(QO)	(10.6)	20.2	41.4
QD	10.9	1.6	20.3
QA	59.9	74.0	72.9
QAA	40.9	73.7	61.4

500 X 900		
4-D25	DT= 65	
4-D25	DT= 65	
2-D13-A200 (0.25)		
/----- CENTER -----/		
PERM	TEMP	TEMP
4.8L	5.0L	4.7L
4.8L	5.0L	4.7L
32.6	51.9	51.9
---	9.3	9.3
---	30.8	30.8
---	9.3	9.3
50.6	60.1	59.0
49.1	73.7	73.7

500 X 900		
5-D25	DT= 65	
4-D25	DT= 65	
2-D13-A100(0.51)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
8.6U	31.9U	14.7L
8.6U	27.7U	10.5L
42.1	67.0	51.9
(10.3)	19.6	1.0
(10.6)	41.4	20.2
10.3	19.6	1.0
59.9	74.0	72.9
40.9	61.4	73.7

1-X-1 (E -FRAME 4 -5) -RC- SPAN= 4.754 (M)

B X D	500 X 900		
UPPER-BAR	5-D25	DT= 65	
LOWER-BAR	4-D25	DT= 65	
STIRRUP PW(%)	2-D13-A100(0.51)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	6.8U	17.5L	31.2U
MF	6.8U	12.9L	26.5U
MA	42.1	51.9	67.0
1.0Q'+(QL)	(7.7)	2.6	18.0
MY/L'+(QO)	(7.3)	25.6	40.2
QD	7.7	2.6	18.0
QA	60.9	72.9	72.4
QAA	40.9	73.7	61.4

500 X 900		
4-D25	DT= 65	
4-D25	DT= 65	
2-D13-A200(0.25)		
/----- CENTER -----/		
PERM	TEMP	TEMP
2.9L	2.7L	3.0L
2.9L	2.7L	3.0L
32.6	51.9	51.9
---	10.3	10.3
---	32.9	32.9
---	10.3	10.3
51.6	59.0	58.5
49.1	73.7	73.7

500 X 900		
5-D25	DT= 65	
4-D25	DT= 65	
2-D13-A100(0.51)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
5.0U	29.7U	19.7L
5.0U	25.1U	15.0L
42.1	67.0	51.9
(6.9)	17.3	3.4
(7.3)	40.2	25.6
6.9	17.3	3.4
60.9	72.9	72.4
40.9	61.4	73.7

1-X-1 (E -FRAME 5 -6) -RC- SPAN= 4.653 (M)

B X D	500 X 900		
UPPER-BAR	5-D25	DT= 65	
LOWER-BAR	4-D25	DT= 65	
STIRRUP PW(%)	2-D13-A100(0.51)		
	/----- LEFT END -----/		
	PERM	TEMP	TEMP
M (TM)	4.0U	17.5L	25.5U
MF	4.0U	13.3L	21.3U
MA	42.1	51.9	67.0
1.0Q'+(QL)	(4.4)	5.0	13.9
MY/L'+(QO)	(4.3)	29.4	38.1
QD	4.4	5.0	13.9
QA	60.4	69.5	70.9
QAA	40.9	73.7	61.4

500 X 900		
4-D25	DT= 65	
4-D25	DT= 65	
2-D13-A200(0.25)		
/----- CENTER -----/		
PERM	TEMP	TEMP
1.8L	1.4L	2.2L
1.8L	1.4L	2.2L
32.6	51.9	51.9
---	9.4	9.4
---	33.8	33.8
---	9.4	9.4
51.1	55.6	57.0
49.1	73.7	73.7

500 X 900		
5-D25	DT= 65	
4-D25	DT= 65	
2-D13-A100(0.51)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
3.5U	25.8U	18.9L
3.5U	21.5U	14.6L
42.1	67.0	51.9
(4.0)	13.5	5.4
(4.2)	37.9	29.6
4.0	13.5	5.4
60.4	69.5	70.9
40.9	61.4	73.7

R-Y-2 (6 -FRAME C -E) -RC- SPAN= 9.800 (M)

B X D 400 X 900
UPPER-BAR 4-D25 4-D25 DT=100
LOWER-BAR 4-D25 2-D25 DT= 90
STIRRUP PW(%) 2-D13-A200(0.32)

		/----- LEFT END -----/		
	(TM)	PERM	TEMP	TEMP
M		36.4U	26.0U	46.8U
MF		36.4U	26.9U	45.9U
MA		46.6	93.2	93.2
1.0Q'+(QL)		(19.0)	16.8	21.3
MY/L'+(QO)		(17.9)	2.2	38.1
QD		19.0	2.2	21.3
QA		26.6	39.6	37.0
QAA		62.7	94.1	94.1

400 X 900
4-D25 1-D25 DT= 80
4-D25 2-D25 DT= 90
2-D13-A200(0.32)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		20.5L	19.8L	21.2L
		20.5L	19.8L	21.2L
		47.4	75.5	75.5
		---	2.3	2.3
		---	20.2	20.2
		---	2.3	2.3
		27.3	40.1	38.0
		71.5	107.2	107.2

400 X 900
4-D25 4-D25 DT=100
4-D25 2-D25 DT= 90
2-D13-A200(0.32)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		25.5U	37.3U	13.7U
		25.5U	36.5U	14.6U
		46.6	93.2	93.2
		(16.6)	18.8	14.3
		(17.7)	37.9	2.5
		16.6	18.8	2.5
		26.6	39.6	37.0
		62.7	94.1	94.1

5-Y-2 (6 -FRAME C -E) -RC- SPAN= 9.800 (M)

B X D 450 X 900
UPPER-BAR 5-D25 5-D25 DT=100
LOWER-BAR 5-D25 2-D25 DT= 85
STIRRUP PW(%) 2-D13-A150(0.38)

		/----- LEFT END -----/		
	(TM)	PERM	TEMP	TEMP
M		50.2U	28.6U	71.9U
MF		50.2U	30.3U	70.1U
MA		54.9	109.8	109.8
1.0Q'+(QL)		(30.6)	25.9	35.2
MY/L'+(QO)		(29.4)	4.8	53.9
QD		30.6	4.8	35.2
QA		34.7	45.6	46.6
QAA		78.4	117.7	117.7

450 X 900
5-D25 1-D25 DT= 80
4-D25 2-D25 DT= 90
2-D13-A200(0.28)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		23.6L	22.4L	24.8L
		23.6L	22.4L	24.8L
		47.4	75.5	75.5
		---	4.7	4.7
		---	24.6	24.6
		---	4.7	4.7
		32.5	41.7	43.2
		71.5	107.2	107.2

450 X 900
5-D25 5-D25 DT=100
5-D25 2-D25 DT= 85
2-D13-A150(0.38)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		38.3U	62.3U	14.2U
		38.3U	60.6U	16.0U
		54.9	109.8	109.8
		(24.7)	29.4	20.1
		(25.9)	50.5	1.4
		24.7	29.4	1.4
		34.7	45.6	46.6
		78.4	117.7	117.7

4-Y-2 (6 -FRAME C -E) -RC- SPAN= 9.800 (M)

B X D 450 X 900
UPPER-BAR 4-D25 4-D25 DT=100
LOWER-BAR 4-D25 2-D25 DT= 90
STIRRUP PW(%) 2-D13-A200(0.28)

		/----- LEFT END -----/		
	(TM)	PERM	TEMP	TEMP
M		46.3U	19.9U	72.6U
MF		46.3U	22.0U	70.5U
MA		49.2	98.5	98.5
1.0Q'+(QL)		(28.1)	22.5	33.7
MY/L'+(QO)		(27.0)	6.7	47.3
QD		28.1	6.7	33.7
QA		31.7	40.1	40.8
QAA		62.7	94.1	94.1

450 X 900
4-D25 1-D25 DT= 80
4-D25 2-D25 DT= 90
2-D13-A200(0.28)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		21.9L	20.9L	22.9L
		21.9L	20.9L	22.9L
		47.4	75.5	75.5
		---	5.6	5.6
		---	20.3	20.3
		---	5.6	5.6
		32.5	40.6	41.8
		71.5	107.2	107.2

450 X 900
4-D25 4-D25 DT=100
4-D25 2-D25 DT= 90
2-D13-A200(0.28)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		35.3U	63.7U	7.0U
		35.3U	61.6U	9.1U
		49.2	98.5	98.5
		(23.0)	28.6	17.4
		(24.1)	44.4	3.9
		23.0	28.6	3.9
		31.7	40.1	40.8
		62.7	94.1	94.1

3-Y-2 (6 -FRAME C -E) -RC- SPAN= 9.800 (M)

B X D 400 X 1700
UPPER-BAR 4-D25 4-D25 DT=100
LOWER-BAR 4-D25 2-D25 DT= 90
STIRRUP PW(%) 2-D13-A150(0.42)

		/----- LEFT END -----/		
	(TM)	PERM	TEMP	TEMP
M		72.8U	11.1L	156.7U
MF		72.8U	3.7L	149.3U
MA		129.9	150.0	206.7
1.0Q'+(QL)		(38.1)	21.6	54.6
MY/L'+(QO)		(35.2)	7.6	78.1
QD		38.1	7.6	54.6
QA		84.7	121.3	105.8
QAA		125.5	213.1	188.2

400 X 1700
3-D25 2-D25 DT= 95
3-D25 2-D25 DT= 95
2-D13-A200(0.32)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		48.1L	51.2L	45.0L
		48.1L	51.2L	45.0L
		78.3	124.6	124.6
		---	16.5	16.5
		---	42.9	42.9
		---	16.5	16.5
		79.0	112.8	97.2
		118.0	177.0	177.0

400 X 1700
4-D25 4-D25 DT=100
4-D25 2-D25 DT= 90
2-D13-A150(0.42)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		44.3U	121.9U	33.4L
		44.3U	114.5U	26.0L
		129.9	206.7	150.0
		(38.7)	55.2	22.2
		(41.6)	84.5	1.2
		38.7	55.2	1.2
		84.7	121.3	105.8
		125.5	188.2	213.1

2-Y-2 (6 -FRAME C -E) -RC- SPAN= 9.800 (M)

B X D 550 X 1100
 UPPER-BAR 6-D25 6-D25 DT=100
 LOWER-BAR 6-D25 2-D25 DT= 85
 STIRRUP PW(%) 2-D13-A150(0.31)

		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	40.3U	30.3L	111.0U
MF		40.3U	23.8L	104.5U
MA		93.6	126.1	187.3
1.0Q*+(QL)	(21.2)	6.7	35.6	
MY/L*+(QO)	(20.3)	17.1	57.7	
QD	21.2	6.7	35.6	
QA	51.9	60.8	59.5	
QAA	117.7	179.1	176.5	

550 X 1100
 4-D25 2-D25 DT= 90
 4-D25 2-D25 DT= 90
 2-D13-A200(0.23)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		21.1L	21.1L	21.1L
		21.1L	21.1L	21.1L
		59.1	94.1	94.1
		---	14.4	14.4
		---	37.4	37.4
		---	14.4	14.4
		48.6	55.8	54.5
		89.1	133.7	133.7

550 X 1100
 6-D25 6-D25 DT=100
 6-D25 2-D25 DT= 85
 2-D13-A150(0.31)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		31.8U	102.5U	38.9L
		31.8U	96.0U	32.4L
		93.6	187.3	126.1
		(19.4)	33.8	4.9
	(20.2)	57.6	17.1	
	19.4	33.8	4.9	
	51.9	60.8	59.5	
	117.7	176.5	179.1	

1-Y-2 (6 -FRAME C -E) -RC- SPAN= 9.800 (M)

B X D 450 X 900
 UPPER-BAR 5-D25 3-D25 DT= 95
 LOWER-BAR 4-D25 2-D25 DT= 90
 STIRRUP PW(%) 4-D13-A150(0.75)

		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	37.4U	8.4U	66.3U
MF		37.4U	11.1U	63.6U
MA		49.7	99.5	99.5
1.0Q*+(QL)	(19.4)	13.4	25.3	
MY/L*+(QO)	(18.5)	2.2	39.3	
QD	19.4	2.2	25.3	
QA	43.8	59.7	59.6	
QAA	63.1	94.7	94.7	

450 X 900
 5-D25 DT= 65
 4-D25 2-D25 DT= 90
 2-D13-A200(0.28)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		18.8L	18.5L	19.1L
		18.8L	18.5L	19.1L
		47.4	75.5	75.5
		---	6.0	6.0
		---	20.7	20.7
		---	6.0	6.0
		29.9	37.6	38.6
		71.5	107.2	107.2

450 X 900
 5-D25 3-D25 DT= 95
 4-D25 2-D25 DT= 90
 4-D13-A150(0.75)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		29.4U	59.0U	0.2L
		29.4U	56.3U	2.5U
		49.7	99.5	99.5
		(17.3)	23.3	11.4
	(18.1)	38.9	2.6	
	17.3	23.3	2.6	
	43.8	59.7	59.6	
	63.1	94.7	94.7	

R-Y-1 (7 -FRAME B -C) -RC- SPAN= 7.200 (M)

B X D 450 X 750
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 DT= 65
STIRRUP PW(%) 2-D13-A100(0.56)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	9.9U	2.3U	17.5U
MF	9.9U	3.1U	16.8U
MA	31.6	62.1	62.1
1.0Q*+(QL)	(0.0)	7.9	12.0
MY/L*+(QO)	(11.5)	5.7	28.6
QD	10.0	5.7	12.0
QA	31.0	43.6	49.3
QAA	38.8	58.2	58.2

450 X 750
4-D25 DT= 65
4-D25 2-D25 DT= 90
2-D13-A200(0.28)

/----- CENTER -----/		
PERM	TEMP	TEMP
10.2L	10.4L	10.0L
10.2L	10.4L	10.0L
38.6	61.5	61.5
---	2.1	2.1
---	17.1	17.1
---	2.1	2.1
24.5	32.6	39.7
58.2	87.4	87.4

450 X 750
4-D25 2-D25 DT= 90
4-D25 DT= 65
2-D13-A100(0.56)

/----- RIGHT END -----/		
PERM	TEMP	TEMP
20.7U	27.9U	13.4U
20.7U	27.2U	14.2U
31.6	62.1	62.1
(13.1)	15.2	11.1
(11.6)	28.7	5.5
13.1	15.2	5.5
31.0	43.6	49.3
38.8	58.2	58.2

5-Y-1 (7 -FRAME B -C) -RC- SPAN= 7.200 (M)

B X D 450 X 750
UPPER-BAR 4-D25 2-D25 DT= 90
LOWER-BAR 4-D25 2-D25 DT= 90
STIRRUP PW(%) 2-D13-A100(0.56)

/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	15.6U	0.7U	30.5U
MF	15.6U	2.3U	28.9U
MA	33.0	61.5	61.5
1.0Q*+(QL)	(14.5)	10.3	18.7
MY/L*+(QO)	(16.0)	3.8	35.8
QD	14.5	3.8	18.7
QA	34.9	46.6	46.9
QAA	38.8	58.2	58.2

450 X 750
5-D25 DT= 65
4-D25 2-D25 DT= 90
2-D13-A200(0.28)

/----- CENTER -----/		
PERM	TEMP	TEMP
10.3L	10.0L	10.6L
10.3L	10.0L	10.6L
38.6	61.5	61.5
---	4.2	4.2
---	19.8	19.8
---	4.2	4.2
28.6	35.6	37.2
58.2	87.4	87.4

450 X 750
4-D25 2-D25 DT= 90
4-D25 2-D25 DT= 90
2-D13-A100(0.56)

/----- RIGHT END -----/		
PERM	TEMP	TEMP
26.5U	42.0U	11.0U
26.5U	40.4U	12.6U
33.0	61.5	61.5
(21.6)	25.8	17.3
(20.0)	39.9	0.2
21.6	25.8	0.2
34.9	46.6	46.9
38.8	58.2	58.2

4-Y-1 (7 -FRAME B -C) -RC- SPAN= 7.200 (M)

B X D		450	X	750
UPPER-BAR		4-D25	2-D25	DT= 90
LOWER-BAR		4-D25	2-D25	DT= 90
STIRRUP PW(%)		2-D13-A100(0.56)		
		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	15.0U	5.2L	35.3U
MF		15.0U	3.2L	33.2U
MA		33.0	61.5	61.5
1.0Q'+(QL)		(14.1)	8.5	19.6
MY/L'+(QO)		(15.4)	4.4	35.2
QD		14.1	4.4	19.6
QA		34.9	45.5	44.8
QAA		38.8	87.4	58.2

450 X 750		
4-D25		DT= 65
4-D25	2-D25	DT= 90
2-D13-A200 (0.28)		
/----- CENTER -----/		
PERM	TEMP	TEMP
10.0L	10.3L	9.6L
10.0L	10.3L	9.6L
38.6	61.5	61.5
---	5.5	5.5
---	19.8	19.8
---	5.5	5.5
28.6	34.5	35.0
58.2	87.4	87.4

450 X 750		
4-D25	2-D25	DT= 90
4-D25	2-D25	DT= 90
2-D13-A100(0.56)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
24.7U	44.3U	5.2U
24.7U	42.2U	7.3U
33.0	61.5	61.5
(20.1)	25.7	14.6
(18.8)	38.6	1.1
20.1	25.7	1.1
34.9	45.5	44.8
38.8	58.2	58.2

3-Y-1 (7 -FRAME B -C) -RC- SPAN= 7.200 (M)

B X D		400 X 1700	
UPPER-BAR	4-D25	3-D25	DT= 95
LOWER-BAR	4-D25	1-D25	DT= 80
STIRRUP PW(%)	2-D13-A100(0.63)		
/----- LEFT END -----/			
	PERM	TEMP	TEMP
M (TM)	13.9U	55.9L	83.7U
MF	13.9U	48.0L	75.7U
MA	114.5	125.8	182.1
1.0Q'+(QL)	(16.2)	1.5	33.8
MY/L'+(QO)	(19.1)	33.3	71.4
QD	16.2	1.5	33.8
QA	103.1	139.8	135.1
QAA	110.2	178.7	165.2

400 X 1700		
4-D25		DT= 65
3-D25	2-D25	DT= 95
2-D13-A200(0.32)		
/----- CENTER -----/		
PERM	TEMP	TEMP
13.7L	20.0L	7.5L
13.7L	20.0L	7.5L
78.3	124.6	124.6
---	17.6	17.6
---	52.4	52.4
---	17.6	17.6
86.8	111.7	110.4
118.0	177.0	177.0

400 X 1700		
4-D25	3-D25	DT= 95
4-D25	1-D25	DT= 80
2-D13-A100(0.63)		
/----- RIGHT END -----/		
PERM	TEMP	TEMP
34.6U	91.8U	22.6L
34.6U	83.9U	14.7L
114.5	182.1	125.8
(22.1)	39.7	4.4
(19.2)	71.6	33.2
22.1	39.7	4.4
103.1	138.5	135.1
110.2	165.2	178.7

2-Y-1 (7 -FRAME B -C) -RC- SPAN= 7.200 (M)

500 X 1000				500 X 1000				500 X 1000								
UPPER-BAR		5-D25	3-D25	DT= 95		5-D25		DT= 65		5-D25	3-D25	DT= 95				
LOWER-BAR		5-D25	2-D25	DT= 85		4-D25	2-D25	DT= 90		5-D25	2-D25	DT= 85				
STIRRUP PW(%)		4-D13-A100(12)				2-D13-A200(0.25)				4-D13-A100(12)						
		/----- LEFT END -----/						/----- CENTER -----/						/----- RIGHT END -----/		
		PERM	TEMP	TEMP			PERM	TEMP	TEMP			PERM	TEMP	TEMP		
M	(TM)	11.4U	46.6L	69.3U			7.2L	10.2L	4.1L			19.0U	70.9U	32.8L		
MF		11.4U	39.7L	62.5U			7.2L	10.2L	4.1L			19.0U	64.0U	25.9L		
MA		65.8	99.4	114.6			53.3	84.8	84.8			65.8	114.6	99.4		
1.0Q'+(QL)		(9.3)	5.9	24.6			---	15.2	15.2			(11.6)	26.8	3.7		
MY/L'+(QO)		(10.4)	25.4	46.2			---	35.8	35.8			(10.5)	46.3	25.3		
QD		9.3	5.9	24.6			---	15.2	15.2			11.6	26.8	3.7		
QA		71.8	95.4	92.3			43.0	49.4	48.6			71.8	94.4	93.3		
QAA		71.0	141.3	106.5			80.3	120.5	120.5			71.0	106.5	141.3		

2-Y-2 (7 -FRAME C -E) -RC- SPAN= 9.800 (M)

550 X 1100				550 X 1100				550 X 1100								
UPPER-BAR		6-D25	6-D25	DT=100		4-D25	2-D25	DT= 90		6-D25	6-D25	DT=100				
LOWER-BAR		6-D25	2-D25	DT= 85		4-D25	2-D25	DT= 90		6-D25	2-D25	DT= 85				
STIRRUP PW(%)		2-D13-A150(0.31)				2-D13-A200(0.23)				2-D13-A150(0.31)						
		/----- LEFT END -----/						/----- CENTER -----/						/----- RIGHT END -----/		
		PERM	TEMP	TEMP				PERM	TEMP	TEMP				PERM	TEMP	TEMP
M	(TM)	38.2U	15.6L	91.9U				22.6L	19.2L	25.9L				31.1U	91.6U	29.3L
MF		38.2U	10.3L	86.7U				22.6L	19.2L	25.9L				31.1U	86.3U	24.1L
MA		93.6	126.1	187.3				59.1	94.1	94.1				93.6	187.3	126.1
1.0Q'+(QL)		(21.0)	9.4	32.7				---	11.7	11.7				(19.5)	31.2	7.9
MY/L'+(QO)		(20.3)	17.1	57.7				---	37.4	37.4				(20.2)	57.6	17.1
QD		21.0	9.4	32.7				---	11.7	11.7				19.5	31.2	7.9
QA		53.3	61.8	63.5				50.1	56.8	58.5				53.3	61.8	63.5
QAA		117.7	179.1	176.5				89.1	133.7	133.7				117.7	176.5	179.1

1-Y-1 (7 -FRAME B -C) -RC- SPAN= 7.200 (M)

B X D 500 X 750
 UPPER-BAR 5-D25 2-D25 DT= 85
 LOWER-BAR 5-D25 DT= 65
 STIRRUP PW(%) 2-D13-A100(0.51)

		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	14.0U	12.3L	40.3U
MF		14.0U	9.0L	37.1U
MA		37.0	53.2	73.0
1.0Q*+(QL)	(11.2)	3.9	18.5	
MY/L*+(QO)	(12.1)	9.0	33.2	
QD	11.2	3.9	18.5	
QA	33.3	44.0	44.0	
QAA	45.6	75.6	68.5	

500 X 750
 4-D25 DT= 65
 4-D25 2-D25 DT= 90
 2-D13-A200(0.25)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		11.5L	11.6L	11.4L
		11.5L	11.6L	11.4L
		38.6	61.5	61.5
		---	7.3	7.3
		---	21.1	21.1
		---	7.3	7.3
		26.7	32.7	33.9
		58.2	87.4	87.4

500 X 750
 5-D25 2-D25 DT= 85
 5-D25 DT= 65
 2-D13-A100(0.51)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		20.4U	46.5U	5.7L
		20.4U	43.3U	2.4L
		37.0	73.0	53.2
		(13.2)	20.5	5.9
		(12.3)	33.4	8.8
		13.2	20.5	5.9
		33.3	44.0	44.0
		45.6	68.5	75.6

1-Y-2 (7 -FRAME C -E) -RC- SPAN= 9.800 (M)

B X D 450 X 900
 UPPER-BAR 5-D25 3-D25 DT= 95
 LOWER-BAR 4-D25 2-D25 DT= 90
 STIRRUP PW(%) 4-D13-A150(0.75)

		/----- LEFT END -----/		
		PERM	TEMP	TEMP
M	(TM)	35.9U	8.9U	63.0U
MF		35.9U	11.4U	60.4U
MA		49.7	99.5	99.5
1.0Q*+(QL)	(19.1)	13.5	24.7	
MY/L*+(QO)	(18.5)	2.2	39.3	
QD	19.1	2.2	24.7	
QA	44.3	59.9	59.6	
QAA	63.1	94.7	94.7	

450 X 900
 5-D25 DT= 65
 4-D25 2-D25 DT= 90
 2-D13-A200(0.28)

		/----- CENTER -----/		
		PERM	TEMP	TEMP
		19.2L	18.8L	19.5L
		19.2L	18.8L	19.5L
		47.4	75.5	75.5
		---	5.6	5.6
		---	20.7	20.7
		---	5.6	5.6
		30.5	37.8	38.6
		71.5	107.2	107.2

450 X 900
 5-D25 3-D25 DT= 95
 4-D25 2-D25 DT= 90
 4-D13-A150(0.75)

		/----- RIGHT END -----/		
		PERM	TEMP	TEMP
		30.2U	58.0U	2.5U
		30.2U	55.4U	5.0U
		49.7	99.5	99.5
		(17.6)	23.1	12.0
		(18.1)	38.9	2.6
		17.6	23.1	2.6
		44.3	59.9	59.6
		63.1	94.7	94.7

SECTION 11 COLUMN CHECK
柱の断面検討

DATE=04/08/93 , TIME=15.48.48 ¹²⁸

T-TENSION
G-GIRDER YIELD

C- 1 (5FL-B-6)

DX*DY		700 X 750			700 X 750			700 X 750		
X- BAR		5-D25				5-D25				5-D25
HOOP PW(%)			2-D13-A100				2-D13-A100			2-D13-A100 (0.34)
Y- BAR		5-D25				5-D25				5-D25
HOOP PW(%)			2-D13-A100				2-D13-A100			2-D13-A100 (0.36)
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	25.1	25.0	25.2	25.1	25.0	25.2	Q (T)	1.0	4.7 6.7
M	(TM)	2.5	11.1	16.1	1.8	9.0	12.6	MY/H'	---	36.3 36.4
MF		---	9.1	14.1	---	6.9	10.4	QD	1.0	4.7 6.7
MA		35.0	56.9	56.9	35.0	56.9	56.9	QA	28.9	52.0 52.0
Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	23.7	35.7T	83.0	23.7	35.7T	83.0	Q (T)	0.0	0.0 0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H'	---	28.5 34.9G
MF		---	0.0	0.0	---	0.0	0.0	QD	0.0	0.0 0.0
MA		37.6	43.4	73.5	37.6	43.4	73.5	QA	28.9	53.5 53.5

C- 1 (4FL-B-6)

DX*DY		700 X 750			700 X 750			700 X 750		
X- BAR		5-D25				5-D25				5-D25
HOOP PW(%)			2-D13-A100				2-D13-A100			2-D13-A100 (0.34)
Y- BAR		5-D25				5-D25				5-D25
HOOP PW(%)			2-D13-A100				2-D13-A100			2-D13-A100 (0.36)
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	62.3	63.3	61.3	62.3	63.3	61.3	Q (T)	0.5	10.8 11.9
M	(TM)	0.8	20.4	22.0	1.1	18.4	20.7	MY/H'	---	53.5 42.2G
MF		---	16.2	17.8	---	13.9	16.2	QD	0.5	10.8 11.9
MA		33.7	66.6	66.1	33.7	66.6	66.1	QA	28.9	52.0 52.0

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	59.6	134.4T	253.7	59.6	134.4T	253.7	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H'	---	14.5	47.36	
MF		---	0.0	0.0	---	0.0	0.0	QD		0.0	0.0	0.0
MA		36.2	12.9	70.6	36.2	12.9	70.6	QA		28.9	53.5	53.5

C- 1 (5FL-B-7)

DX*DY		700 X 750		700 X 750		700 X 750	
X- BAR	5-D25			5-D25			5-D25
HOOP PW(%)		2-D13-A100			2-D13-A100		2-D13-A100 (0.34)
Y- BAR	5-D25			5-D25			5-D25
HOOP PW(%)		2-D13-A100			2-D13-A100		2-D13-A100 (0.36)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	26.0	25.9	26.0	26.0	25.9	26.0	Q	(T)	1.1	4.5	6.8
M	(TM)	2.6	11.3	16.6	2.3	8.0	12.5	MY/H'	---	36.5	36.5	
MF		---	9.4	14.6	---	5.9	10.4	QD		1.1	4.5	6.8
MA		35.0	57.1	57.1	35.0	57.1	57.1	QA		28.9	52.0	52.0

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	24.3	22.3	26.4	24.3	22.3	26.4	Q	(T)	4.2	1.3	7.1
M	(TM)	9.9	2.3	17.5	8.2	3.4	12.9	MY/H'	---	38.7	32.16	
MF		---	3.4	16.4	---	4.5	11.9	QD		4.2	1.3	7.1
MA		37.6	60.2	61.3	37.6	60.2	61.3	QA		28.9	53.5	53.5

C- 1 (4FL-B-7)

DX*DY		700 X 750		700 X 750		700 X 750	
X- BAR	5-D25			5-D25			5-D25
HOOP PW(%)		2-D13-A100			2-D13-A100		2-D13-A100 (0.34)
Y- BAR	5-D25			5-D25			5-D25
HOOP PW(%)		2-D13-A100			2-D13-A100		2-D13-A100 (0.36)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	55.5	55.2	55.8	55.5	55.2	55.8	Q	(T)	1.3	9.6	12.1
M	(TM)	2.2	18.2	22.6	2.4	16.4	21.1	MY/H ²	---	---	51.9	41.7G
MF		---	14.2	18.5	---	12.0	16.8	QD	1.3	9.6	12.1	
MA		33.9	64.6	64.7	33.9	64.6	64.7	QA	29.0	52.0	52.0	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	52.6	46.3	58.9	52.6	46.3	58.9	Q	(T)	4.1	0.5	8.8
M	(TM)	7.4	2.7	17.6	7.4	0.8	14.0	MY/H ²	---	---	37.8G	36.6G
MF		---	1.0	15.8	---	2.5	12.3	QD	4.1	0.5	8.8	
MA		36.4	66.8	70.2	36.4	66.8	70.2	QA	31.5	53.5	53.5	

C- 1 (3FL-B-7)

DX*DY		750 X 750		750 X 750		750 X 750	
X- BAR		5-D25		5-D25		5-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.34)
Y- BAR		5-D25		5-D25		5-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.34)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	84.1	83.5	84.7	84.1	83.5	84.7	Q	(T)	1.5	19.8	22.8
M	(TM)	2.1	29.7	33.9	3.6	45.6	52.8	MY/H ²	---	---	62.5G	52.2G
MF		---	21.2	25.4	---	27.5	34.7	QD	1.5	19.8	22.8	
MA		37.4	76.4	76.4	37.4	76.4	76.4	QA	31.0	55.7	55.7	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	79.9	68.1	91.7	79.9	68.1	91.7	Q	(T)	4.0	6.0	14.1
M	(TM)	7.7	6.0	21.3	7.7	17.0	32.4	MY/H ²	---	---	43.6G	43.4G
MF		---	2.2	17.5	---	8.4	23.9	QD	4.0	6.0	14.1	
MA		37.5	72.9	76.1	37.5	72.9	76.1	QA	32.4	55.7	55.7	

C- 1 (2FL-B-7)

DX*DY		900 X 900			900 X 900			900 X 900		
X- BAR		7-D25			7-D25			7-D25		
HOOP PW(%)			2-D13-A100			2-D13-A100			2-D13-A100	(0.28)
Y- BAR		7-D25			7-D25			7-D25		
HOOP PW(%)			2-D13-A100			2-D13-A100			2-D13-A100	(0.28)
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	130.2	129.8	130.5	130.2	129.8	130.5	Q (T)	0.2	14.3 14.7
M	(TM)	0.6	47.9	49.0	0.6	35.0	36.3	MY/H'	---	67.1 67.2
MF		---	35.6	36.7	---	28.5	29.7	QD	0.2	14.3 14.7
MA		64.0	130.0	129.9	64.0	130.0	129.9	QA	44.7	74.8 74.8
Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	123.4	93.9	152.8	123.4	93.9	152.8	Q (T)	1.9	11.0 14.7
M	(TM)	6.1	38.9	51.2	4.7	24.7	34.0	MY/H'	---	52.3G 46.9G
MF		---	28.0	40.3	---	18.2	27.5	QD	1.9	11.0 14.7
MA		64.0	122.1	129.2	64.0	122.1	129.2	QA	44.7	74.8 74.8

C- 1 (1FL-B-7)

DX*DY		900 X 900			900 X 900			900 X 900		
X- BAR		5-D25			5-D25			5-D25		
HOOP PW(%)			2-D13-A100			2-D13-A100			2-D13-A100	(0.28)
Y- BAR		5-D25			5-D25			5-D25		
HOOP PW(%)			2-D13-A100			2-D13-A100			2-D13-A100	(0.28)
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	157.4	158.5	156.3	157.4	158.5	156.3	Q (T)	0.0	0.0 0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H'	---	70.0G 59.8G
MF		---	0.0	0.0	---	0.0	0.0	QD	0.0	0.0 0.0
MA		58.3	112.3	112.3	58.3	112.3	112.3	QA	44.7	74.8 74.8

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	149.5	104.8	194.2	149.5	104.8	194.2	Q	(T)	3.8	10.7	18.3
M	(TM)	6.7	21.9	35.4	8.5	20.9	37.8	MY/H°	---	---	55.0G	58.3G
MF		---	14.7	28.1	---	15.5	32.4	QD	3.8	10.7	18.3	
MA		58.1	100.9	113.0	58.1	100.9	113.0	QA	47.6	74.8	74.8	

C- 1 (B1FL-B-7)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	192.5	193.7	191.4	192.5	193.7	191.4	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H°	---	69.4G	59.7G	
MF		---	0.0	0.0	---	0.0	0.0	QD	0.0	0.0	0.0	
MA		58.8	113.0	113.0	58.8	113.0	113.0	QA	44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	183.9	131.9	235.9	183.9	131.9	235.9	Q	(T)	1.9	1.4	5.1
M	(TM)	5.5	8.6	2.5	2.9	14.7	20.5	MY/H°	---	---	47.6G	51.7G
MF		---	9.8	1.3	---	12.3	18.1	QD	1.9	1.4	5.1	
MA		58.8	109.6	114.2	58.8	109.6	114.2	QA	44.7	74.8	74.8	

C- 2 (5FL-C-3)

DX*DY		750 X 750		750 X 750		750 X 750	
X- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.34)
Y- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.34)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	26.2	13.4T	65.9	26.2	13.4T	65.9	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H°	---	32.6	45.9	
MF		---	0.0	0.0	---	0.0	0.0	QD	0.0	0.0	0.0	
MA		38.9	50.1	72.3	38.9	50.1	72.3	QA	31.0	55.7	55.7	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	41.6	35.5	47.7	41.6	35.5	47.7	Q	(T)	1.4	5.9	3.1
M	(TM)	3.2	14.8	8.3	2.8	10.6	5.1	MY/H°	---	41.7	43.8	
MF		---	13.0	6.5	---	8.8	3.3	QD	1.4	5.9	3.1	
MA		38.2	64.0	67.3	38.2	64.0	67.3	QA	31.0	55.7	55.7	

C- 2 (4FL-C-3)

DX*DY		750 X 750		750 X 750		750 X 750	
X- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.34)
Y- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.34)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	60.2	71.3T	191.7	60.2	71.3T	191.7	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H'	---	28.7	55.4G	
MF		---	0.0	0.0	---	0.0	0.0	QD	0.0	0.0	0.0	
MA		37.7	32.4	74.8	37.7	32.4	74.8	QA	31.0	55.7	55.7	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	94.7	80.3	109.1	94.7	80.3	109.1	Q	(T)	1.6	11.2	7.9
M	(TM)	2.9	22.0	16.2	2.9	18.2	12.3	MY/H°	---	58.7G	52.9G	
MF		---	18.2	12.3	---	14.4	8.5	QD	1.6	11.2	7.9	
MA		37.4	76.1	75.7	37.4	76.1	75.7	QA	33.8	55.7	55.7	

C- 2 (3FL-C-3)

DX*DY		750 X 750			750 X 750			750 X 750					
X- BAR		6-D25	2-D13-A100			6-D25	2-D13-A100			6-D25	2-D13-A100 (0.34)		
HOOP	PW(%)												
Y- BAR		6-D25	2-D13-A100			6-D25	2-D13-A100			6-D25	2-D13-A100 (0.34)		
HOOP	PW(%)												
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	93.0	140.1T	326.2	93.0	140.1T	326.2	Q	(T)	0.0	0.0	0.0	
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H*	---	24.6	74.4G		
MF		---	0.0	0.0	---	0.0	0.0	QD		0.0	0.0	0.0	
MA		40.0	21.8	76.4	40.0	21.8	76.4	QA		31.0	55.7	55.7	
Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	146.3	122.1	170.6	146.3	122.1	170.6	Q	(T)	2.1	20.4	16.3	
M	(TM)	7.0	33.4	19.5	0.8	44.0	42.3	MY/H*	---	71.6G	66.9G		
MF		---	26.1	12.2	---	28.4	26.7	QD		2.1	20.4	16.3	
MA		38.9	81.8	80.4	38.9	81.8	80.4	QA		31.0	55.7	55.7	

C- 2 (2FL-C-3)

DX*DY		900 X 900			900 X 900			900 X 900					
X- BAR		8-D25	2-D13-A100			8-D25	2-D13-A100			8-D25	2-D13-A100 (0.28)		
HOOP	PW(%)												
Y- BAR		8-D25	2-D13-A100			8-D25	2-D13-A100			8-D25	2-D13-A100 (0.28)		
HOOP	PW(%)												
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	157.8	182.9T	498.4	157.8	182.9T	498.4	Q	(T)	0.0	0.0	0.0	
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H*	---	22.6	73.8G		
MF		---	0.0	0.0	---	0.0	0.0	QD		0.0	0.0	0.0	
MA		66.8	36.4	127.3	66.8	36.4	127.3	QA		44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	238.8	177.6	299.9	238.8	177.6	299.9	Q	(T)	0.7	17.7	16.4
M	(TM)	1.1	59.2	57.0	2.8	43.5	38.0	MY/H*	---	73.0G	69.2G	
MF		---	44.7	42.5	---	35.0	29.5	QD	0.7	17.7	16.4	
MA		64.3	136.4	133.9	64.3	136.4	133.9	QA	44.7	74.8	74.8	

C- 2 (B1FL-C-3)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		6-D25		6-D25		6-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		6-D25		6-D25		6-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	245.0	167.4T	657.3	245.0	167.4T	657.3	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H*	---	17.1	82.5G	
MF		---	0.0	0.0	---	0.0	0.0	QD	0.0	0.0	0.0	
MA		59.5	16.4	99.1	59.5	16.4	99.1	QA	44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	362.0	258.4	465.5	362.0	258.4	465.5	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H*	---	85.2G	86.8G	
MF		---	0.0	0.0	---	0.0	0.0	QD	0.0	0.0	0.0	
MA		44.1	121.5	120.3	44.1	121.5	120.3	QA	44.7	74.8	74.8	

C- 1 (5FL-E-3)

DX*DY		700 X 750		700 X 750		700 X 750	
X- BAR		5-D25		5-D25		5-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.34)
Y- BAR		5-D25		5-D25		5-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.36)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	24.1	24.3	23.9	24.1	24.3	23.9	Q	(T)	0.2	6.0	5.7
M	(TM)	0.3	15.1	14.4	0.3	10.6	9.9	MY/H ²	---		36.2	36.2
MF		---	13.1	12.4	---	8.4	7.7	QD	0.2	6.0	5.7	
MA		35.1	56.7	56.6	35.1	56.7	56.6	QA	28.9	52.0	52.0	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	18.5	23.4	13.6	18.5	23.4	13.6	Q	(T)	1.4	3.9	6.7
M	(TM)	4.2	9.5	17.9	1.8	7.1	10.8	MY/H ²	---	38.9	31.9G	
MF		---	7.5	15.9	---	5.2	8.8	QD	1.4	3.9	6.7	
MA		37.9	60.5	57.7	37.9	60.5	57.7	QA	28.9	53.5	53.5	

C- 1 (4FL-E-3)

DX*DY		700 X 750		700 X 750		700 X 750	
X- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.34)
Y- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.36)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	52.4	52.6	52.3	52.4	52.6	52.3	Q	(T)	0.0	11.9	11.9
M	(TM)	0.0	22.1	22.0	0.1	20.7	21.0	MY/H ²	---	51.4	41.0G	
MF		---	17.6	17.5	---	15.9	16.2	QD	0.0	11.9	11.9	
MA		34.0	63.9	63.8	34.0	63.9	63.8	QA	28.9	52.0	52.0	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	40.4	54.0	26.8	40.4	54.0	26.8	Q	(T)	1.6	6.4	9.7
M	(TM)	1.6	15.1	18.3	4.3	8.0	16.6	MY/H ²	---	40.7G	32.2G	
MF		---	12.1	15.3	---	4.0	12.5	QD	1.6	6.4	9.7	
MA		36.8	68.9	61.4	36.8	68.9	61.4	QA	28.9	53.5	53.5	

C- 1 (3FL-E-3)

DX*DY		750 X 750			750 X 750			750 X 750					
X- BAR		5-D25	2-D13-A100			5-D25	2-D13-A100			5-D25	2-D13-A100 (0.34)		
HOOP PW(%)													
Y- BAR		5-D25	2-D13-A100			5-D25	2-D13-A100			5-D25	2-D13-A100 (0.34)		
HOOP PW(%)													
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	83.5	84.6	82.4	83.5	84.6	82.4	Q	(T)	0.1	18.7	18.8	
M	(TM)	0.2	27.6	28.0	0.1	43.4	43.6	MY/H*		---	62.0G	51.4G	
MF		---	20.1	20.5	---	27.5	27.6	QD		0.1	18.7	18.8	
MA		37.4	76.4	76.4	37.4	76.4	76.4	QA		31.0	55.7	55.7	
Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	67.1	90.9	43.4	67.1	90.9	43.4	Q	(T)	2.1	18.4	22.6	
M	(TM)	1.3	28.0	30.6	6.7	42.0	55.3	MY/H*		---	58.2G	43.2G	
MF		---	17.8	20.4	---	24.5	37.9	QD		2.1	18.4	22.6	
MA		37.6	76.2	66.2	37.6	76.2	66.2	QA		31.0	55.7	55.7	

C- 1 (2FL-E-3)

DX*DY		900 X 900			900 X 900			900 X 900					
X- BAR		7-D25	2-D13-A100			7-D25	2-D13-A100			7-D25	2-D13-A100 (0.28)		
HOOP PW(%)													
Y- BAR		7-D25	2-D13-A100			7-D25	2-D13-A100			7-D25	2-D13-A100 (0.28)		
HOOP PW(%)													
		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
X-DIRECTION		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	144.0	61.0	227.0	144.0	61.0	227.0	Q	(T)	0.0	0.0	0.0	
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H*		---	56.4	75.7G	
MF		---	0.0	0.0	---	0.0	0.0	QD		0.0	0.0	0.0	
MA		64.0	111.3	128.1	64.0	111.3	128.1	QA		44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	118.2	174.5	61.8	118.2	174.5	61.8	Q	(T)	0.7	16.2	17.6
M	(TM)	2.7	56.3	61.8	1.1	37.9	40.1	MY/H'	---	---	72.0G	51.8G
MF		---	41.9	47.4	---	29.4	31.7	QD	0.7	16.2	17.6	
MA		64.0	128.8	111.6	64.0	128.8	111.6	QA	44.7	74.8	74.8	

C- 1 (1FL-E-3)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR	5-D25	2-D13-A100		2-D13-A100		2-D13-A100 (0.28)	
HOOP PW(%)							
Y- BAR	5-D25	2-D13-A100		2-D13-A100		2-D13-A100 (0.28)	
HOOP PW(%)							

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	187.0	14.2	359.8	187.0	14.2	359.8	Q	(T)	0.5	16.1	15.2
M	(TM)	1.0	27.9	26.0	0.9	36.7	34.9	MY/H*	---	---	52.7	75.9G
MF		---	20.9	18.9	---	29.6	27.9	QD	0.5	16.1	15.2	
MA		58.8	70.5	117.4	58.8	70.5	117.4	QA	49.6	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	154.1	240.9	67.4	154.1	240.9	67.4	Q	(T)	0.6	26.3	27.5
M	(TM)	0.3	51.4	52.1	2.1	53.9	58.0	MY/H*	---	---	68.2G	46.9G
MF		---	38.0	38.6	---	43.8	47.9	QD	0.6	26.3	27.5	
MA		58.2	114.4	88.6	58.2	114.4	88.6	QA	44.7	74.8	74.8	

C- 1 (B1FL-E-6)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR	5-D25	2-D13-A100		2-D13-A100		2-D13-A100 (0.28)	
HOOP PW(%)							
Y- BAR	5-D25	2-D13-A100		2-D13-A100		2-D13-A100 (0.28)	
HOOP PW(%)							

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	261.3	259.1	263.4	261.3	259.1	263.4	Q	(T)	0.0 6.9 7.0
M	(TM)	0.1	10.3	10.5	0.0	20.9	21.0	MY/H*	---	74.8G 65.7G
MF		---	7.2	7.4	---	15.7	15.8	QD	0.0	6.9 7.0
MA		56.1	114.9	115.1	56.1	114.9	115.1	QA	44.7	74.8 74.8

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	253.1	302.5	203.8	253.1	302.5	203.8	Q	(T)	3.4 4.3 2.5
M	(TM)	11.1	2.4	19.7	4.2	16.9	8.5	MY/H*	---	66.3G 52.3G
MF		---	2.0	20.1	---	16.2	7.8	QD	3.4	4.3 2.5
MA		56.8	116.3	113.3	56.8	116.3	113.3	QA	44.7	74.8 74.8

C- 1 (5FL-E-6)

DX*DY		700 X 750		700 X 750		700 X 750	
X- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.34)
Y- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.36)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	32.0	32.0	32.0	32.0	32.0	32.0	Q	(T)	0.0 6.0 6.0
M	(TM)	0.0	14.8	14.8	0.0	10.9	10.9	MY/H*	---	37.4 37.4
MF		---	12.7	12.7	---	8.7	8.6	QD	0.0	6.0 6.0
MA		34.7	58.7	58.7	34.7	58.7	58.7	QA	28.9	52.0 52.0

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	31.0	33.2	28.7	31.0	33.2	28.7	Q	(T)	10.6 14.7 6.6
M	(TM)	25.5	37.3	13.7	20.2	25.9	14.6	MY/H*	---	42.4 41.6
MF		---	35.5	15.6	---	24.1	16.4	QD	10.6	14.7 6.6
MA		37.2	63.2	61.9	37.2	63.2	61.9	QA	28.9	53.5 53.5

C- 1 (4FL-E-6)

DX*DY		700 X 750			700 X 750			700 X 750					
X- BAR		5-D25				5-D25				5-D25			
HOOP	PW(%)		2-D13-A100				2-D13-A100				2-D13-A100 (0.34)		
Y- BAR		5-D25				5-D25				5-D25			
HOOP	PW(%)		2-D13-A100				2-D13-A100				2-D13-A100 (0.36)		
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	71.7	71.7	71.7	71.7	71.7	71.7	Q	(T)	0.0	11.6	11.6	
M	(TM)	0.0	21.7	21.7	0.0	19.9	19.9	MY/H*		---	54.5G	43.0G	
MF		---	17.3	17.4	---	15.3	15.3	QD		0.0	11.6	11.6	
MA		33.6	68.7	68.7	33.6	68.7	68.7	QA		28.9	52.0	52.0	
Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	69.4	76.3	62.5	69.4	76.3	62.5	Q	(T)	10.1	18.5	1.7	
M	(TM)	18.0	36.5	0.4	18.5	30.3	6.7	MY/H*		---	53.5G	43.1G	
MF		---	32.7	3.4	---	26.5	10.4	QD		10.1	18.5	1.7	
MA		36.0	73.8	71.2	36.0	73.8	71.2	QA		31.3	53.5	53.5	

C- 1 (3FL-E-6)

DX*DY		750 X 750			750 X 750			750 X 750					
X- BAR		5-D25				5-D25				5-D25			
HOOP	PW(%)		2-D13-A100				2-D13-A100				2-D13-A100 (0.34)		
Y- BAR		5-D25				5-D25				5-D25			
HOOP	PW(%)		2-D13-A100				2-D13-A100				2-D13-A100 (0.34)		
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	109.1	108.7	109.5	109.1	108.7	109.5	Q	(T)	0.0	21.9	21.9	
M	(TM)	0.0	32.8	32.8	0.0	50.4	50.3	MY/H*		---	64.9G	54.6G	
MF		---	24.1	24.0	---	31.8	31.7	QD		0.0	21.9	21.9	
MA		37.3	75.7	75.7	37.3	75.7	75.7	QA		31.0	55.7	55.7	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	105.7	118.2	93.2	105.7	118.2	93.2	Q	(T)	10.5	22.4	1.5
M	(TM)	16.9	33.4	0.4	22.9	51.7	6.0	MY/H°	---	56.4G	46.4G	
MF		---	28.0	5.7	---	41.5	4.2	QD	10.5	22.4	1.5	
MA		37.4	75.5	76.1	37.4	75.5	76.1	QA	31.0	55.7	55.7	

C- 1 (2FL-E-6)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		7-D25		7-D25		7-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		7-D25		7-D25		7-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	183.0	180.7	185.3	183.0	180.7	185.3	Q	(T)	0.0	18.5	18.5
M	(TM)	0.0	62.5	62.4	0.0	44.8	44.7	MY/H°	---	74.8	74.4G	
MF		---	46.8	46.7	---	36.5	36.4	QD	0.0	18.5	18.5	
MA		63.8	128.6	128.6	63.8	128.6	128.6	QA	44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	176.5	205.4	147.5	176.5	205.4	147.5	Q	(T)	6.3	20.5	7.8
M	(TM)	21.4	70.3	27.5	15.4	48.8	18.0	MY/H°	---	62.1G	49.1G	
MF		---	58.2	15.4	---	41.0	10.2	QD	6.3	20.5	7.8	
MA		63.9	128.3	129.4	63.9	128.3	129.4	QA	44.7	74.8	74.8	

C- 1 (1FL-E-6)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		5-D25		5-D25		5-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		5-D25		5-D25		5-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	225.6	224.1	227.1	225.6	224.1	227.1	Q	(T)	0.0 16.1 16.0
M	(TM)	0.1	29.2	29.0	0.0	35.1	35.0	MY/H*	---	76.0G 66.3G
MF		---	22.0	21.8	---	27.9	27.8	QD	0.0	16.1 16.0
MA		58.2	113.8	113.9	58.2	113.8	113.9	QA	44.7	74.8 74.8

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	218.2	261.6	174.8	218.2	261.6	174.8	Q	(T)	8.7 27.6 10.2
M	(TM)	16.4	53.6	20.9	18.4	56.6	19.8	MY/H*	---	82.8G 62.2G
MF		---	43.3	10.5	---	48.1	11.4	QD	8.7	27.6 10.2
MA		58.5	115.0	112.6	58.5	115.0	112.6	QA	49.5	74.8 74.8

C- 1 (B1FL-E-6)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	261.3	259.1	263.4	261.3	259.1	263.4	Q	(T)	0.0 6.9 7.0
M	(TM)	0.1	10.3	10.5	0.0	20.9	21.0	MY/H*	---	74.8G 65.7G
MF		---	7.2	7.4	---	15.7	15.8	QD	0.0	6.9 7.0
MA		56.1	114.9	115.1	56.1	114.9	115.1	QA	44.7	74.8 74.8

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	253.1	302.5	203.8	253.1	302.5	203.8	Q	(T)	3.4 4.3 2.5
M	(TM)	11.1	2.4	19.7	4.2	16.9	8.5	MY/H*	---	66.3G 52.3G
MF		---	2.0	20.1	---	16.2	7.8	QD	3.4	4.3 2.5
MA		56.8	116.3	113.3	56.8	116.3	113.3	QA	44.7	74.8 74.8

C- 1 (5FL-E-7)

DX*DY		700 X 750			700 X 750			700 X 750		
X- BAR		5-D25				5-D25				5-D25
HOOP PW(%)			2-D13-A100				2-D13-A100			2-D13-A100 (0.34)
Y- BAR		5-D25				5-D25				5-D25
HOOP PW(%)			2-D13-A100				2-D13-A100			2-D13-A100 (0.36)
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	32.0	32.1	32.0	32.0	32.1	32.0	Q (T)	0.0	5.9 5.9
M	(TM)	0.0	14.7	14.6	0.0	10.8	10.8	MY/H*	---	37.4 37.4
MF		---	12.6	12.6	---	8.6	8.6	QD	0.0	5.9 5.9
MA		34.7	58.7	58.7	34.7	58.7	58.7	QA	28.9	52.0 52.0
Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	31.0	44.9	17.1	31.0	44.9	17.1	Q (T)	0.0	0.0 0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H*	---	44.4 39.5
MF		---	0.0	0.0	---	0.0	0.0	QD	0.0	0.0 0.0
MA		37.2	66.4	58.7	37.2	66.4	58.7	QA	28.9	53.5 53.5

C- 1 (4FL-E-7)

DX*DY		700 X 750			700 X 750			700 X 750		
X- BAR		5-D25				5-D25				5-D25
HOOP PW(%)			2-D13-A100				2-D13-A100			2-D13-A100 (0.34)
Y- BAR		5-D25				5-D25				5-D25
HOOP PW(%)			2-D13-A100				2-D13-A100			2-D13-A100 (0.36)
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/		
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP
N	(T)	73.6	73.7	73.4	73.6	73.7	73.4	Q (T)	0.0	11.5 11.6
M	(TM)	0.1	21.6	21.7	0.1	19.9	20.0	MY/H*	---	54.7G 43.2G
MF		---	17.2	17.4	---	15.2	15.4	QD	0.0	11.5 11.6
MA		33.5	68.9	68.9	33.5	68.9	68.9	QA	28.9	52.0 52.0

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	71.6	115.5	27.6	71.6	115.5	27.6	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H*	---	57.0G	39.8G	
MF		---	0.0	0.0	---	0.0	0.0	QD		0.0	0.0	0.0
MA		36.0	72.5	61.6	36.0	72.5	61.6	QA		28.9	53.5	53.5

C- 1 (3FL-E-7)

DX*DY		750 X 750		750 X 750		750 X 750	
X- BAR		5-D25		5-D25		5-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.34)
Y- BAR		5-D25		5-D25		5-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.34)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	112.5	112.9	112.2	112.5	112.9	112.2	Q	(T)	0.1	22.1	21.9
M	(TM)	0.1	33.1	32.9	0.3	50.9	50.3	MY/H*	---	65.3G	54.8G	
MF		---	24.3	24.1	---	32.2	31.6	QD		0.1	22.1	21.9
MA		37.3	75.6	75.6	37.3	75.6	75.6	QA		31.0	55.7	55.7

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	109.5	188.2	30.8	109.5	188.2	30.8	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H*	---	62.7G	40.2G	
MF		---	0.0	0.0	---	0.0	0.0	QD		0.0	0.0	0.0
MA		37.3	74.8	62.7	37.3	74.8	62.7	QA		31.0	55.7	55.7

C- 1 (2FL-E-7)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		7-D25		7-D25		7-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		7-D25		7-D25		7-D25	
HOOP	PW(%)		2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	178.3	179.1	177.5	178.3	179.1	177.5	Q	(T)	0.1	18.4	18.3
M	(TM)	0.3	62.5	61.9	0.1	44.4	44.2	MY/H°	---	74.5	73.9G	
MF		---	46.9	46.3	---	36.1	35.9	QD	0.1	18.4	18.3	
MA		63.9	128.7	128.7	63.9	128.7	128.7	QA	44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	173.2	279.5	66.9	173.2	279.5	66.9	Q	(T)	4.4	17.1	8.3
M	(TM)	13.2	57.2	30.8	12.4	42.2	17.4	MY/H°	---	66.5G	43.8G	
MF		---	46.4	20.0	---	35.2	10.4	QD	4.4	17.1	8.3	
MA		63.9	128.0	113.3	63.9	128.0	113.3	QA	44.7	74.8	74.8	

C- 1 (1FL-E-7)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		5-D25		5-D25		5-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	220.9	221.8	219.9	220.9	221.8	219.9	Q	(T)	0.0	15.9	15.8
M	(TM)	0.0	28.6	28.5	0.1	35.0	34.8	MY/H°	---	75.8G	65.7G	
MF		---	21.4	21.3	---	27.9	27.7	QD	0.0	15.9	15.8	
MA		58.4	113.8	113.7	58.4	113.8	113.7	QA	44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	215.1	333.0	97.1	215.1	333.0	97.1	Q	(T)	9.5	25.2	6.2
M	(TM)	18.7	49.4	11.9	19.1	51.2	13.0	MY/H°	---	88.4G	54.6G	
MF		---	40.8	3.3	---	44.2	5.9	QD	9.5	25.2	6.2	
MA		58.5	117.0	98.4	58.5	117.0	98.4	QA	51.1	74.8	74.8	

C- 1 (B1FL-E-7)

DX*DY		900 X 900			900 X 900			900 X 900					
X- BAR		5-D25	2-D13-A100			5-D25	2-D13-A100			5-D25	2-D13-A100 (0.28)		
HOOP	PW(%)												
Y- BAR		5-D25	2-D13-A100			5-D25	2-D13-A100			5-D25	2-D13-A100 (0.28)		
HOOP	PW(%)												
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	256.7	258.1	255.2	256.7	258.1	255.2	Q	(T)	0.0	7.0	7.0	
M	(TM)	0.0	10.6	10.6	0.0	21.0	21.0	MY/H*	---	74.7G	65.1G		
MF		---	7.4	7.4	---	15.7	15.7	QD	0.0	7.0	7.0		
MA		56.5	114.9	114.8	56.5	114.9	114.8	QA	44.7	74.8	74.8		
Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	250.3	373.8	126.7	250.3	373.8	126.7	Q	(T)	3.4	5.8	0.9	
M	(TM)	11.1	6.7	15.4	4.1	19.5	11.2	MY/H*	---	70.9G	45.4G		
MF		---	5.6	16.5	---	17.7	9.4	QD	3.4	5.8	0.9		
MA		57.0	117.5	107.9	57.0	117.5	107.9	QA	44.7	74.8	74.8		

C- 2 (2FL-C-7)

DX*DY		900 X 900			900 X 900			900 X 900					
X- BAR		8-D25	2-D13-A100			8-D25	2-D13-A100			8-D25	2-D13-A100 (0.28)		
HOOP	PW(%)												
Y- BAR		8-D25	2-D13-A100			8-D25	2-D13-A100			8-D25	2-D13-A100 (0.28)		
HOOP	PW(%)												
X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/					
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP			
N	(T)	256.7	249.6	263.9	256.7	249.6	263.9	Q	(T)	0.1	16.9	16.8	
M	(TM)	0.3	55.6	55.0	0.2	42.7	42.2	MY/H*		---	88.5G	81.7G	
MF		---	41.2	40.6	---	35.1	34.6	QD		0.1	16.9	16.8	
MA		63.1	134.6	134.4	63.1	134.6	134.4	QA		44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	270.2	193.3	347.1	270.2	193.3	347.1	Q	(T)	2.6	16.5	21.6
M	(TM)	7.4	55.0	69.8	7.4	40.9	55.7	MY/H'	---	---	84.7	80.3G
MF		---	38.8	53.6	---	30.4	45.2	QD		2.6	16.5	21.6
MA		62.0	135.9	133.2	62.0	135.9	133.2	QA		44.7	74.8	74.8

C- 2 (1FL-C-7)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		6-D25		6-D25		6-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		6-D25		6-D25		6-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	306.2	369.2	243.1	306.2	369.2	243.1	Q	(T)	0.0	0.0	0.0
M	(TM)	0.0	0.0	0.0	0.0	0.0	0.0	MY/H'	---	93.6G	70.9G	
MF		---	0.0	0.0	---	0.0	0.0	QD		0.0	0.0	0.0
MA		53.2	122.5	121.3	53.2	122.5	121.3	QA		44.7	74.8	74.8

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	321.5	248.2	394.7	321.5	248.2	394.7	Q	(T)	5.7	21.3	32.7
M	(TM)	11.7	45.6	69.0	11.0	39.8	61.7	MY/H*	---	---	109.6G	102.0G
MF		---	30.7	54.2	---	27.6	49.5	QD		5.7	21.3	32.7
MA		50.7	121.4	122.3	50.7	121.4	122.3	QA		50.2	74.8	74.8

C- 2 (B1FL-C-7)

DX*DY		900 X 900		900 X 900		900 X 900	
X- BAR		6-D25		6-D25		6-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)
Y- BAR		6-D25		6-D25		6-D25	
HOOP PW(%)			2-D13-A100		2-D13-A100		2-D13-A100 (0.28)

X-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	361.1	489.7	232.5	361.1	489.7	232.5	Q	(T)	0.1	5.6	5.8
M	(TM)	0.2	6.7	7.2	0.1	18.6	18.8	MY/H'	---	---	84.5G	62.6G
MF		---	4.5	4.9	---	14.3	14.5	QD	0.1	5.6	5.8	
MA		44.2	119.0	121.2	44.2	119.0	121.2	QA	44.7	74.8	74.8	

Y-DIRECTION		/----- TOP -----/			/----- BOTTOM -----/			/----- SHEAR -----/				
		PERM	TEMP	TEMP	PERM	TEMP	TEMP	PERM	TEMP	TEMP		
N	(T)	377.9	306.3	449.4	377.9	306.3	449.4	Q	(T)	1.5	4.4	7.4
M	(TM)	4.5	2.1	7.0	2.2	21.7	26.2	MY/H'	---	---	84.9G	82.0G
MF		---	4.7	4.3	---	17.3	21.8	QD	1.5	4.4	7.4	
MA		41.5	122.1	121.0	41.5	122.1	121.0	QA	44.7	74.8	74.8	

SECTION 12 SHEAR WALL CHECK
耐震壁の断面検討

DATE=04/08/93 , TIME=15.48.48 149

12 - 1 RC SHEAR WALL

B-FRAME (1FL-5-6)

SPAN= 4.639 HEIGHT= 4.000

	B X D	900 X 900	T X L	180 X 4639	B X D	900 X 900
	HOOP	2-D13-A100	BAR	2-D10,D13-A200	HOOP	2-D13-A100
	PW(%)	0.28	PS(%)	0.55	PW(%)	0.28
	/-- L COLUMN --/		/----- WALL -----/		/-- R COLUMN --/	
Q		--		64.5		--
QD		--		64.5		--
GAMMA		--		1.0		--
Q1		--		87.7		--
QW(QC)		(108.3)		111.2		(108.3/2)
Q2		--		273.7		--
TAU (KG/CM2)		--		(7.7)		--

C-FRAME (1FL-6-7)

SPAN= 4.600 HEIGHT= 4.000

	B X D	900 X 900	T X L	250 X 4600	B X D	900 X 900
	HOOP	2-D13-A100	BAR	2-D13,D16-A200	HOOP	2-D13-A100
	PW(%)	0.28	PS(%)	0.65	PW(%)	0.28
	/-- L COLUMN --/		/----- WALL -----/		/-- R COLUMN --/	
Q		--		193.9		--
QD		--		193.9		--
GAMMA		--		1.0		--
Q1		--		120.7		--
QW(QC)		(108.3)		180.9		(108.3)
Q2		--		397.6		--
TAU (KG/CM2)		--		(16.9)		--

6-FRAME (3FL-B-C)

SPAN= 7.200 HEIGHT= 3.800

	B X D	750 X 750	T X L	200 X 7200	B X D	750 X 750
	HOOP	2-D13-A100	BAR	2-D13-A200	HOOP	2-D13-A100
	PW(%)	0.34	PS(%)	0.63	PW(%)	0.34
	/-- L COLUMN --/		/----- WALL -----/		/-- R COLUMN --/	
Q		--		269.7		--
QD		--		269.7		--
GAMMA		--		1.0		--
Q1		--		151.2		--
QW(QC)		(78.9)		245.7		(78.9)
Q2		--		403.7		--
TAU (KG/CM2)		--		(18.7)		--

HU151U...STRUCTURAL TYPE(DEBUG) 1=RC 2=SRC 3=S

1 1 1 1 1 1

1 1 1 1 1 1

HU151U...STRUCTURAL TYPE(DEBUG) 1=RC 2=SRC 3=S

1 1 1 1 1 1

1 1 1 1 1 1

§ 13. 基礎の検討

(F1)

*** 長期 ***

柱軸力 (t)	470.0	形状 (Dx*Dy)	3200 X 3200	3200 X 3200
基礎平均重量 (t/m3)	2.0	柱形状 (a*a')	900 X 900	900 X 900
基礎深さ (m)	0.00	基礎成	1000 X 1000	1000 X 1000
合計 (t)	470.0	鉄筋	17-D22	17-D22

/----- 地反力 -----/		/---主筋---/		/---配力筋---/	
Fe (t/m2)	45.9	at (cm2)	65.8		65.8
FeA(t/m2)	50.0	ld (mm)	0.0		0.0
		M (tm)	97.1		97.1
		MA (tm)	103.6		100.2
		Q (t)	168.9		168.9
		QA (t)	176.4		170.5
		QaA (t)	196.8		190.2
		Qp (t)	329.3		
		QpA (t)	531.5		

(F2)

*** 長期 ***

柱軸力 (t)	325.0	形状 (Dx*Dy)	2700 X 2700	2700 X 2700
基礎平均重量 (t/m3)	2.0	柱形状 (a*a')	900 X 900	900 X 900
基礎深さ (m)	0.00	基礎成	900 X 900	900 X 900
合計 (t)	325.0	鉄筋	15-D22	15-D22

/----- 地反力 -----/		/---主筋---/		/---配力筋---/	
Fe (t/m2)	44.6	at (cm2)	58.1		58.1
FeA(t/m2)	50.0	ld (mm)	0.0		0.0
		M (tm)	48.8		48.8
		MA (tm)	81.3		78.2
		Q (t)	108.3		108.3
		QA (t)	132.3		127.3
		QaA (t)	154.4		148.6
		Qp (t)	202.3		
		QpA (t)	449.3		

(F3)

*** 長期 ***

柱軸力 (t)	241.0	形状 (Dx*Dy)	2600 X 2600	2600 X 2600
基礎平均重量 (t/m3)	2.0	柱形状 (a*a')	850 X 850	850 X 850
基礎深さ (m)	0.00	基礎成	800 X 800	800 X 800
合計 (t)	241.0	鉄筋	14-D22	14-D22

/----- 地反力 -----/		/---主筋---/		/---配力筋---/	
Fe (t/m2)	35.7	at (cm2)	54.2		54.2
FeA(t/m2)	50.0	ld (mm)	0.0		0.0
		M (tm)	35.5		35.5
		MA (tm)	66.4		63.5
		Q (t)	81.1		81.1
		QA (t)	111.5		106.7
		QaA (t)	126.1		120.7
		Qp (t)	159.1		
		QpA (t)	360.1		

(F4)

*** 長期 ***

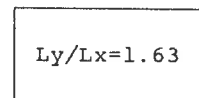
柱軸力 (t)	180.0	形状 (Dx*Dy)	2300 X 2300	2300 X 2300
基礎平均重量 (t/m3)	2.0	柱形状 (a*a')	800 X 800	800 X 800
基礎深さ (m)	0.00	基礎成	800 X 800	800 X 800
合計 (t)	180.0	鉄筋	17-D19	17-D19

/----- 地反力 -----/		/---主筋---/		/---配力筋---/	
Fe (t/m2)	34.0	at (cm2)	48.8		48.8
FeA(t/m2)	50.0	ld (mm)	0.0		0.0
		M (tm)	22.0		22.0
		MA (tm)	59.8		57.6
		Q (t)	58.7		58.7
		QA (t)	98.6		95.1
		QaA (t)	131.2		126.5
		Qp (t)	107.0		
		QpA (t)	347.2		

2. 14 その他の部材の検討

床版の検討

(S3)



4600

スラブ ($t=180$ $\gamma=2.4$) 432 (kg/m²)仕上荷重 90 (kg/m²)積載荷重 180 (kg/m²) $W_x = 615$ (kg/m²) $W = 702$ (kg/m²) $M_{x1} = 1.08$ (t·m/m) $M_{y1} = 0.62$ (t·m/m) $M_{x2} = 0.72$ (t·m/m) $M_{y2} = 0.41$ (t·m/m)

[スラブ厚の検討]

 $W_p = 270$ (kg/m²)

必要スラブ厚

 $t = 14.37$ (cm) O.K.

[断面検討]

SD30

 $f_t = 2.00$ (t/cm²)

短辺方向

端部 D13 @100

 $d = 14.50$ (cm) $j = 12.69$ (cm) $at = 12.70$ (cm²) $Ma = 3.22$ (t·m/m) $> M_{x1}$

中央 D13 @100

 $at = 12.70$ (cm²) $Ma = 3.22$ (t·m/m) $> M_{x2}$

長辺方向

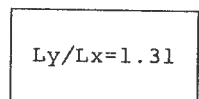
端部 D10D13 @200

 $d = 13.50$ (cm) $j = 11.81$ (cm) $at = 4.95$ (cm²) $Ma = 1.17$ (t·m/m) $> M_{y1}$

中央 D10D13 @200

 $at = 4.95$ (cm²) $Ma = 1.17$ (t·m/m) $> M_{y2}$

(S6)



3500

スラブ ($t=180$ $\gamma=2.4$) 432 (kg/m²)仕上荷重 250 (kg/m²)積載荷重 740 (kg/m²) $W_x = 1065$ (kg/m²) $W = 1422$ (kg/m²) $M_{x1} = 1.09$ (t·m/m) $M_{y1} = 0.73$ (t·m/m) $M_{x2} = 0.72$ (t·m/m) $M_{y2} = 0.48$ (t·m/m)

[スラブ厚の検討]

 $W_p = 990$ (kg/m²)

必要スラブ厚

 $t = 14.09$ (cm) O.K.

[断面検討]

SD30

 $f_t = 2.00$ (t/cm²)

短辺方向

端部 D13 @150

 $d = 14.50$ (cm) $j = 12.69$ (cm) $at = 8.47$ (cm²) $Ma = 2.15$ (t·m/m) $> M_{x1}$

中央 D13 @150

 $at = 8.47$ (cm²) $Ma = 2.15$ (t·m/m) $> M_{x2}$

長辺方向

端部 D13 @200

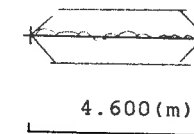
 $d = 13.50$ (cm) $j = 11.81$ (cm) $at = 6.35$ (cm²) $Ma = 1.50$ (t·m/m) $> M_{y1}$

中央 D13 @200

 $at = 6.35$ (cm²) $Ma = 1.50$ (t·m/m) $> M_{y2}$

小梁の検討

(B1)

 $ly1 = 3.000$ (m) $w1 = 630$ (kg/m²) $ly2 = 3.000$ (m) $qb = 0.29$ (t/m)
 $w2 = 630$ (kg/m²)

基本応力

 $C = 3.25$ (tm) $Mo = 5.05$ (tm) $Qo = 3.59$ (t)

断面

300 x 550

300 x 550

300 x 550

上端筋

4-D19 DT= 60

3-D19 DT= 60

4-D19 DT= 60

下端筋

3-D19 DT= 60

3-D19 DT= 60

3-D19 DT= 60

あばら筋

2-D10@200(0.24)

2-D10@200(0.24)

2-D10@200(0.24)

/---- 左端 ----/

/---- 中央 ----/

/---- 右端 ----/

Md (tm)

0.60C

Mo=0.35C

0.60C

Ma (tm)

1.9

3.9

1.9

Qd (t)

3.6

3.6

Qa (t)

11.6

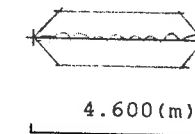
11.6

Qaa (t)

14.4

14.4

(B2)

 $ly1 = 3.500$ (m) $w1 = 1422$ (kg/m²) $ly2 = 3.000$ (m) $qb = 0.29$ (t/m)
 $w2 = 790$ (kg/m²)

基本応力

 $C = 5.58$ (tm) $Mo = 8.76$ (tm) $Qo = 6.05$ (t)

断面

300 x 550

300 x 550

300 x 550

上端筋

4-D19 DT= 60

3-D19 DT= 60

4-D19 DT= 60

下端筋

3-D19 DT= 60

4-D19 DT= 60

3-D19 DT= 60

あばら筋

2-D10@200(0.24)

2-D10@200(0.24)

2-D10@200(0.24)

/---- 左端 ----/

/---- 中央 ----/

/---- 右端 ----/

Md (tm)

0.60C

Mo=0.35C

0.60C

Ma (tm)

3.4

6.8

3.4

Qd (t)

6.0

6.0

Qa (t)

11.4

11.4

Qaa (t)

14.4

14.4

保有耐力の検討結果 (Y方向)

FLOOR TYPE		HEIGHT (M)	ASSUMED RANK OF STRUCTURE AND					QU.NEED	CALCULATED		CHECK OF STRUCTURAL RANK											
			CLMN	WALL	BETA	DS	FS	FE	QU (T)	QU (T)	COLUMN				WALL, BRACE				WALL, BRACE			
											FA	FB	FC	FD	RANK	WA	WB	WC	WD	RANK	BETA	RANK
R		26.000	(A)	(A)	(C)	0.40	1.00	1.24	975.7	1005.7	101	0	0	0	(A)	100	0	0	0	(A)	0.83	(C)
5	(RC)	21.700	(A)	(A)	(C)	0.40	1.00	1.30	1680.5	1732.2	99	1	0	0	(A)	100	0	0	0	(A)	0.79	(C)
4	(RC)	18.100	(A)	(A)	(C)	0.40	1.00	1.35	2299.3	2370.1	99	0	1	0	(A)	100	0	0	0	(A)	0.80	(C)
3	(RC)	14.300	(A)	(A)	(C)	0.40	1.00	1.02	2240.2	2309.2	100	0	0	0	(A)	100	0	0	0	(A)	0.85	(C)
2	(RC)	8.500	(A)	(A)	(B)	0.35	1.00	1.12	2456.5	2532.2	96	4	0	0	(A)	100	0	0	0	(A)	0.68	(B)
1	(RC)	4.500	(A)	(A)	(C)	0.40	1.00	1.36	3787.4	3904.1	98	2	1	0	(A)	100	0	0	0	(A)	0.94	(C)
B1		0.000																				

	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y
5	30.	2.42	0.34	89.	2.06	0.10	59.	1.69	0.08	0.	1.53	0.01	8.	1.32	0.01
4	58.	3.14	0.48	150.	2.71	0.16	112.	2.28	0.15	0.	2.09	0.02	48.	1.85	0.07
3	107.	3.52	0.71	281.	2.95	0.30	205.	2.38	0.28	0.	2.13	0.03	34.	1.80	0.05
2	90.	5.63	0.53	363.	5.24	0.38	265.	4.84	0.31	0.	4.67	0.02	61.	4.45	0.09
1	103.	3.91	0.50	233.	3.52	0.17	145.	3.13	0.14	0.	2.96	0.02	103.	2.74	0.15
B1	53.	3.07	0.65	1537.	3.24	0.66	336.	3.40	0.30	0.	3.48	0.05	135.	3.57	0.18

1B-FRAME				12-FRAME			
	SHEAR	DEF(MM)	D/D.Y		SHEAR	DEF(MM)	D/D.Y
5	0.	1.14	0.04	5	0.	0.95	0.00
4	-3.	1.64	0.13	4	0.	1.42	0.01
3	-2.	1.51	0.12	3	0.	1.23	0.01
2	1.	4.26	0.15	2	0.	4.06	0.01
1	-2.	2.55	0.10	1	0.	2.36	0.03
B1	1.	3.66	0.09	B1	51.	3.74	0.69

== C FRAME ==

			DELTA(MM)	ALPHA	TAU	GAMMA	RANK
(R) +--	+---	-1.---+	-0.57	0.004 MG			
I	1.I	I		0.001 MT			
4.300	I (-2.)	I	(-0.02)	0.004 Q	-0.17	-0.000004	(A) WALL
I	I	I	6.	0.005 MB			
(5) +--	+---	-2.---+	-0.55	0.008 MG			
I	-3.I	I		0.003 MT			
3.600	I (-3.)	I	(-0.03)	0.008 Q	-0.37	-0.000008	(A) WALL
I	I	I	15.	0.013 MB			
(4) +--	+---	-4.---+	-0.52	0.011 MG			
I	-11.I	I		0.008 MT			
3.800	I (-5.)	I	(-0.05)	0.012 Q	-0.57	-0.000012	(A) WALL
I	I	I	31.	0.021 MB			
(3) +--	+---	-10.---+	-0.47	0.011 MG			
I	-21.I	I		0.010 MT			
5.800	I (-10.)	I	(-0.14)	0.023 Q	-1.09	-0.000024	(A) WALL
I	I	I	79.	0.037 MB			
(2) +--	+---	-79.---+	-0.33	0.036 MG			

I I
I I
+-----+
(3) (4)

/----- SOLUTION DUE TO U(+) LOAD (ANGLE = 0.0 , LOAD FACTOR = 1.031) -----/ STEP = 50/ 50									
FLOOR	HEIGHT (M)	FORCE (T)	SHEAR (T)	O.T.M. (T*M)	X-DISP. (MM)	Y-DISP. (MM)	THETA-Z (RAD)	DISP. (MM)	DIRECT. (DEG)
R		710.2		0.	18.47	-0.43	-0.000298	18.48	-1.3
	4.300		710.2						
5		459.9		3054.	16.34	-0.50	-0.000271	16.35	-1.8
	3.600		1170.0						
4		364.5		7266.	13.77	-0.45	-0.000238	13.78	-1.9
	3.800		1534.5						
3		455.4		13097.	11.20	-0.12	-0.000205	11.20	-0.6
	5.800		1990.0						
2		1170.0		24639.	6.63	-0.34	-0.000150	6.64	-2.9
	4.000		3159.9						
1		1159.2		37278.	2.16	-0.28	-0.000044	2.18	-7.3
	4.500		4319.1						
B1				56715.					

STORY SHEAR, DEFLECTION AND DEF/DEF.YIELD OF EACH FRAME

	A -FRAME			B -FRAME			C -FRAME			D -FRAME			E -FRAME		
	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y
5				77.	2.10	0.37	390.	2.18	0.59				88.	2.20	0.39
4				157.	2.49	0.50	590.	2.59	0.85				178.	2.61	0.47
3				299.	2.51	0.73	681.	2.61	0.93				322.	2.64	0.77
2				459.	4.21	0.91	208.	4.39	0.39				1040.	4.43	0.83
1				1023.	4.06	0.69	1747.	4.36	1.37				395.	4.45	0.72
B1	1803.	1.82	0.47	1365.	1.97	0.52	836.	2.14	0.44				181.	2.17	0.55

	F -FRAME			G -FRAME			1 -FRAME			1A-FRAME			2 -FRAME		
	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y
5							0.	0.74	0.00	0.	0.68	0.01	1.	0.61	0.04
4							0.	0.86	0.00	0.	0.78	0.01	3.	0.71	0.08
3				6.	2.94	0.64	0.	0.87	0.00	0.	0.79	0.00	3.	0.72	0.13
2				0.	4.94	0.03	0.	1.34	0.00	0.	1.21	0.01	1.	1.08	0.15
1				0.	5.43	0.03	0.	2.65	0.05	1.	2.41	0.07	21.	2.16	0.23
B1	142.	2.52	0.53	0.	2.58	0.02	390.	0.75	0.22	-1.	0.65	0.11	44.	0.55	0.03

	3 -FRAME			4 -FRAME			5 -FRAME			6 -FRAME			7 -FRAME		
	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y
5	3.	0.48	0.06	4.	0.36	0.05	3.	0.23	0.03	16.	0.10	0.02	-2.	-0.03	0.00
4	5.	0.56	0.08	8.	0.41	0.08	5.	0.26	0.04	25.	0.12	0.03	-2.	-0.03	0.00
3	11.	0.57	0.10	16.	0.42	0.10	14.	0.26	0.02	20.	0.11	0.02	-3.	-0.04	0.00
2	8.	0.83	0.09	53.	0.58	0.06	11.	0.32	0.01	5.	0.07	0.00	-3.	-0.19	0.02
1	34.	1.67	0.23	32.	1.18	0.23	25.	0.69	0.08	58.	0.21	0.04	-8.	-0.28	0.04
B1	13.	0.35	0.22	1.	0.14	0.25	-4.	-0.06	0.00	-32.	-0.26	0.02	-5.	-0.46	0.12

8 -FRAME

9 -FRAME

10-FRAME

CA-FRAME

11-FRAME

	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y	SHEAR	DEF(MM)	D/D.Y
5	-2.	-0.16	0.02	-12.	-0.29	0.01	-15.	-0.42	0.02	0.	-0.47	0.00	-3.	-0.54	0.01
4	-3.	-0.18	0.03	-18.	-0.33	0.02	-23.	-0.47	0.03	0.	-0.54	0.00	-16.	-0.62	0.02
3	-6.	-0.19	0.04	-33.	-0.34	0.04	-43.	-0.49	0.06	0.	-0.56	0.00	-12.	-0.64	0.02
2	-7.	-0.44	0.04	-48.	-0.70	0.05	-52.	-0.95	0.06	0.	-1.05	0.00	-17.	-1.20	0.02
1	-20.	-0.77	0.09	-84.	-1.26	0.06	-81.	-1.75	0.08	0.	-1.96	0.01	-84.	-2.24	0.12
B1	-12.	-0.66	0.13	-411.	-0.86	0.18	-105.	-1.07	0.10	0.	-1.15	0.01	-48.	-1.27	0.06

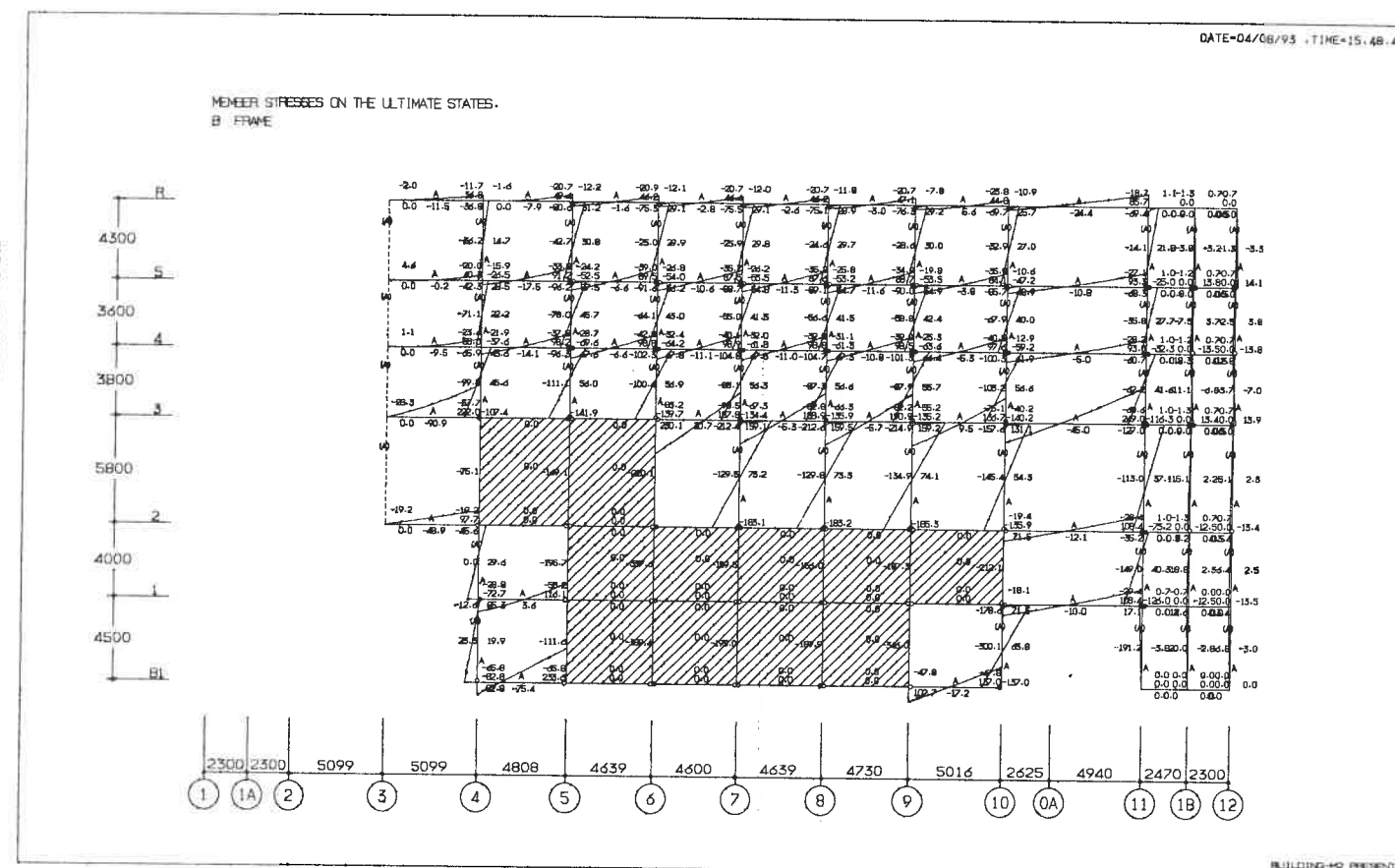
	1B-FRAME				12-FRAME		
	SHEAR	DEF(MM)	D/D.Y		SHEAR	DEF(MM)	D/D.Y
5	0.	-0.61	0.02		0.	-0.67	0.00
4	1.	-0.70	0.06		0.	-0.77	0.00
3	1.	-0.72	0.06		0.	-0.80	0.01
2	0.	-1.33	0.05		0.	-1.46	0.00
1	2.	-2.48	0.10		0.	-2.73	0.03
B1	0.	-1.37	0.03		-20.	-1.47	0.24

== C FRAME ==

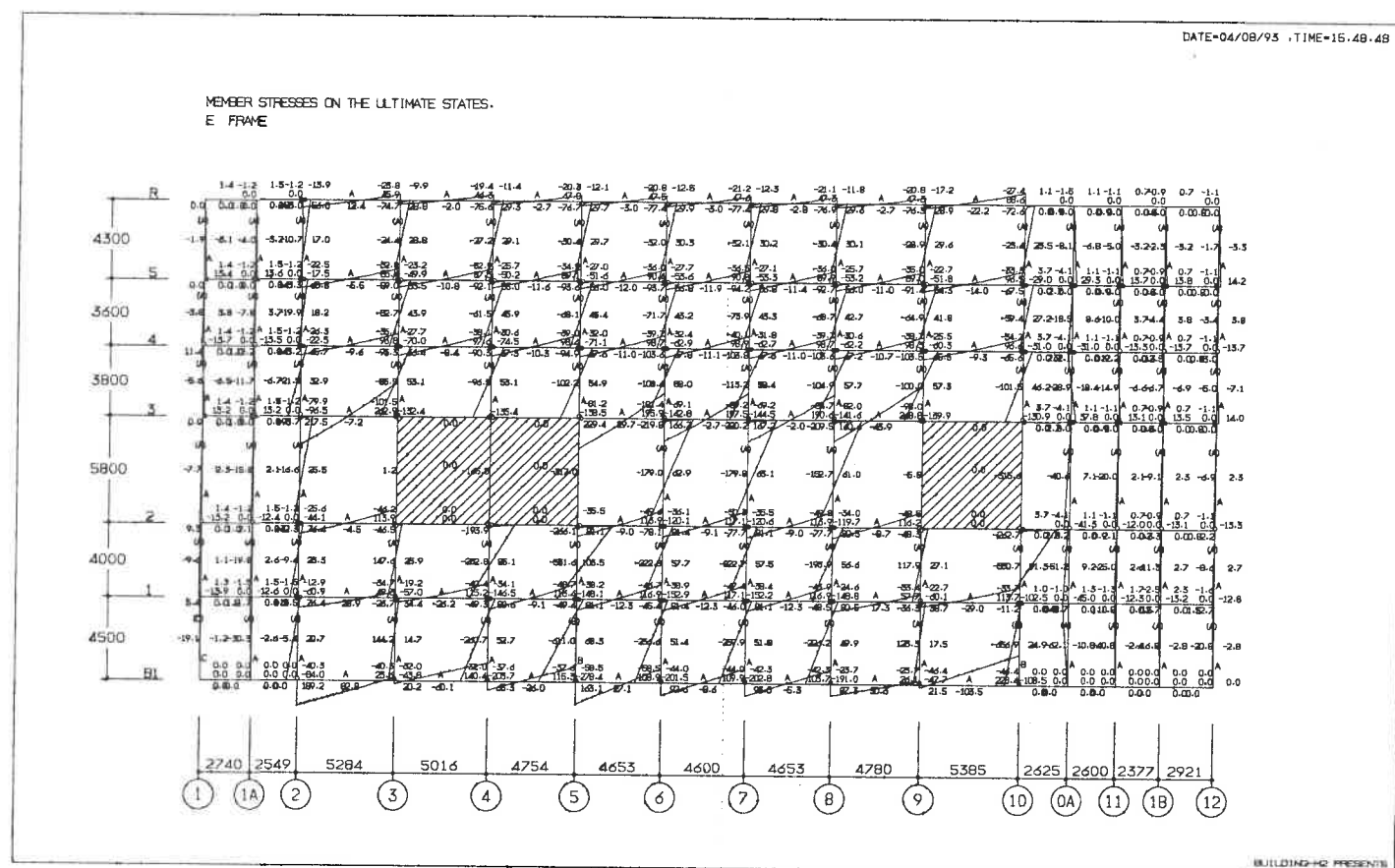
		DELTA(MM)	ALPHA	TAU	GAMMA	RANK
(R)+--	+--- 227.---+	18.26	0.806 MG			
I	-227.I		0.223 MT			
4.300	I (156.) I	(2.18)	0.359 Q	16.94	0.000367	(A) WALL
I	I	-443.	0.435 MB			
(5)+--	+--- 335.---+	16.08	1.633 MG			
I	108.I		0.092 MT			
3.600	I (246.) I	(2.59)	0.566 Q	26.76	0.000580	(A) WALL
I	I	-994.	0.846 MB			
(4)+--	+--- 358.---+	13.50	2.493 MG			
I	636.I		0.423 MT			
3.800	I (229.) I	(2.61)	0.526 Q	24.86	0.000539	(A) WALL
I	I	-1505.	1.000 MB			
(3)+--	+--- 996.---+	10.89	1.207 MG			
I	509.I		0.236 MT			
5.800	I (285.) I	(4.39)	0.656 Q	30.98	0.000672	(A) WALL
I	I	-2162.	1.000 MB			
(2)+--	+--- 2162.---+	6.50	1.000 MG			



§. 17. 終局時応力 (代表架構)







RC造建物の構造特性係数

柱・はり部材				
柱・はりの種別		FA	FB	FC
共通条件		想定される破壊モードが、曲げ破壊であること。		
柱の条件	h ₀ /Dの下限**	2.5	2.0	—
	α ₁ /F _c の上限	0.35	0.45	0.55
	p ₁ の上限	0.8%	1.0%	—
	r ₀ /F _c の上限	0.1	0.125	0.15
はりの条件		r ₀ /F _c の上限	0.15	0.20

部材群としての種別	$\frac{\sum_{i=1}^n Q_{i1}}{\sum_{i=1}^n Q_{i1}}$	$\frac{\sum_{i=1}^n Q_{i2}}{\sum_{i=1}^n Q_{i2}}$	$\frac{\sum_{i=1}^n Q_{i3}}{\sum_{i=1}^n Q_{i3}}$
A	50%以上	—	20%以上
B	—	—	50%未満
C	—	—	50%以上

D部材を除いた部材群としての種別 (A or B or C)

部材群としての種別 (D部材がある場合判定はDとなる。)

耐力壁の種別		WA	WB	WC	WD
共通条件		せん断破壊をしないこと			
B. S. WALL	r ₀ /F _c の上限	0.2	0.25	—	左記以外
	壁式構造の耐力壁	0.1	0.125	0.15	
S. WALL		せん断型の降伏せん断力		Q _y ≤ Q _d	Q _y > Q _d

部材群としての種別	$\frac{\sum_{i=1}^n Q_{i1}}{\sum_{i=1}^n Q_{i1}}$	$\frac{\sum_{i=1}^n Q_{i2}}{\sum_{i=1}^n Q_{i2}}$	$\frac{\sum_{i=1}^n Q_{i3}}{\sum_{i=1}^n Q_{i3}}$
A	50%以上	—	20%以上
B	—	—	50%未満
C	—	—	50%以上

D部材を除いた部材群としての種別 (A or B or C)

部材群としての種別 (Dの壁がある場合判定はDとなる。)

$$\beta = \frac{\sum_{i=1}^n Q_{i1}}{Q_{d1}}$$

	WA			WB			WC			WD		
	Δ ≤ 0.1	0.1 < Δ ≤ 0.2	Δ > 0.2	Δ ≤ 0.1	0.1 < Δ ≤ 0.2	Δ > 0.2	Δ ≤ 0.1	0.1 < Δ ≤ 0.2	Δ > 0.2	Δ ≤ 0.1	0.1 < Δ ≤ 0.2	Δ > 0.2
FA	I (0.3)	I (0.35)	I (0.4)	II (0.35)	II (0.4)	II (0.45)	II (0.35)	II (0.4)	II (0.5)	III (0.4)	III (0.45)	III (0.55)
FB	II (0.35)	II (0.4)	II (0.45)	II (0.35)	II (0.4)	II (0.45)	II (0.35)	II (0.45)	II (0.5)	III (0.4)	III (0.5)	III (0.55)
FC	III (0.4)	III (0.45)	III (0.45)	III (0.4)	III (0.45)	III (0.5)	III (0.4)	III (0.45)	III (0.5)	III (0.45)	III (0.5)	III (0.55)
FD	IV (0.45)	IV (0.5)	IV (0.55)	IV (0.45)	IV (0.5)	IV (0.55)	IV (0.45)	IV (0.5)	IV (0.55)	IV (0.45)	IV (0.5)	IV (0.55)
壁式構造 (Δ=1)	—	—	II (0.45)	—	—	II (0.5)	—	—	IV (0.55)	—	—	IV (0.55)

構造特性係数 D s

- Σ_iQ_i : 層全体の柱の降伏せん断力
(Σ_iQ_i = Σ_{i=1}ⁿQ_{i1} + Σ_{i=1}ⁿQ_{i2} + Σ_{i=1}ⁿQ_{i3})
- Σ_iQ_{di} : 保有水平耐力計算終了時の層全体の壁のせん断力の和
(Σ_iQ_{di} = Σ_{i=1}ⁿQ_{di1} + Σ_{i=1}ⁿQ_{di2} + Σ_{i=1}ⁿQ_{di3})
- Q_{d1} : 保有水平耐力計算終了時の層せん断力

A -FRAME

部材ランク一覧表

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)

B -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
R -FL	(RC)	(A)	3 --4	M	0.01	---	---						
R -FL	(RC)	(A)	4 --5	M	0.02	---	---						
R -FL	(RC)	(A)	5 --6	M	0.03	---	---						
R -FL	(RC)	(A)	6 --7	M	0.02	---	---						
R -FL	(RC)	(A)	7 --8	M	0.02	---	---						
R -FL	(RC)	(A)	8 --9	M	0.02	---	---						
R -FL	(RC)	(A)	9 --10	M	0.02	---	---						
R -FL	(RC)	(A)	10--11	M	0.02	---	---						
5 -FL	(RC)	(A)	3 --4	M	0.01	---	---						
5 -FL	(RC)	(A)	4 --5	M	0.04	---	---						
5 -FL	(RC)	(A)	5 --6	M	0.04	---	---						
5 -FL	(RC)	(A)	6 --7	M	0.04	---	---						
5 -FL	(RC)	(A)	7 --8	M	0.04	---	---						
5 -FL	(RC)	(A)	8 --9	M	0.04	---	---						
5 -FL	(RC)	(A)	9 --10	M	0.04	---	---						
5 -FL	(RC)	(A)	10--11	M	0.03	---	---						
4 -FL	(RC)	(A)	3 --4	M	0.01	---	---						
4 -FL	(RC)	(A)	4 --5	M	0.04	---	---						
4 -FL	(RC)	(A)	5 --6	M	0.04	---	---						
4 -FL	(RC)	(A)	6 --7	M	0.04	---	---						
4 -FL	(RC)	(A)	7 --8	M	0.04	---	---						
4 -FL	(RC)	(A)	8 --9	M	0.04	---	---						
4 -FL	(RC)	(A)	9 --10	M	0.04	---	---						
4 -FL	(RC)	(A)	10--11	M	0.02	---	---						
3 -FL	(RC)	(A)	3 --4	M	0.02	---	---						
3 -FL	(RC)	(A)	6 --7	M	0.05	---	---						
3 -FL	(RC)	(A)	7 --8	M	0.04	---	---						
3 -FL	(RC)	(A)	8 --9	M	0.04	---	---						
3 -FL	(RC)	(A)	9 --10	M	0.04	---	---						
3 -FL	(RC)	(A)	10--11	M	0.03	---	---						
2 -FL	(RC)	(A)	3 --4	M	0.02	---	---						
2 -FL	(RC)	(A)	10--11	M	0.03	---	---						
1 -FL	(RC)	(A)	4 --5	M	0.04	---	---						
1 -FL	(RC)	(A)	10--11	M	0.03	---	---						
B1-FL	(RC)	(A)	4 --5	M	0.05	---	---						
B1-FL	(RC)	(A)	9 --10	M	0.05	---	---						
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC)	(A)	4	M*	5.1	0.03	0.5	0.013	---	---	---	---	14.7
5 -FL	(RC)	(A)	5	M*	5.1	0.04	0.5	0.028	---	---	---	---	30.8 2
5 -FL	(RC)	(A)	6	M*	5.1	0.02	0.5	0.027	---	---	---	---	29.9 2
5 -FL	(RC)	(A)	7	M*	5.1	0.02	0.5	0.027	---	---	---	---	29.8 2
5 -FL	(RC)	(A)	8	M*	5.1	0.02	0.5	0.027	---	---	---	---	29.7 2

5	-FL	(RC) (A)	9	M*	5.1	0.03	0.5	0.027	----	----	----	----	30.0	2
5	-FL	(RC) (A)	10	M*	4.8	0.03	0.4	0.023	----	----	----	----	27.0	2
5	-FL	(RC) (A)	11	M*	5.1	0.01	0.5	0.020	----	----	----	----	21.8	2
5	-FL	(S) (A)	1B	----	----	----	----	----	----	----	8.3	22.0	-3.2	
5	-FL	(S) (A)	12	----	----	----	----	----	----	----	8.3	22.0	-3.3	
4	-FL	(RC) (A)	4	M*	4.1	0.06	0.5	0.020	----	----	----	----	22.2	
4	-FL	(RC) (A)	5	M*	4.1	0.07	0.5	0.041	----	----	----	----	45.7	2
4	-FL	(RC) (A)	6	M*	4.1	0.06	0.5	0.039	----	----	----	----	43.0	2
4	-FL	(RC) (A)	7	M*	4.1	0.05	0.5	0.038	----	----	----	----	41.5	2
4	-FL	(RC) (A)	8	M*	4.1	0.05	0.5	0.038	----	----	----	----	41.5	2
4	-FL	(RC) (A)	9	M*	4.1	0.05	0.5	0.038	----	----	----	----	42.4	2
4	-FL	(RC) (A)	10	M*	3.8	0.06	0.4	0.034	----	----	----	----	40.0	2
4	-FL	(RC) (A)	11	M*	4.1	0.03	0.5	0.025	----	----	----	----	27.7	1
4	-FL	(S) (A)	1B	----	----	----	----	----	----	----	8.3	22.0	3.7	1
4	-FL	(S) (A)	12	----	----	----	----	----	----	----	8.3	22.0	3.8	1
3	-FL	(RC) (A)	4	M*	4.0	0.08	0.5	0.039	----	----	----	----	45.6	
3	-FL	(RC) (A)	5	M*	4.0	0.09	0.5	0.047	----	----	----	----	56.0	1
3	-FL	(RC) (A)	6	M*	4.0	0.08	0.5	0.048	----	----	----	----	56.9	1
3	-FL	(RC) (A)	7	M*	4.0	0.07	0.5	0.048	----	----	----	----	56.3	1
3	-FL	(RC) (A)	8	M*	4.0	0.07	0.5	0.048	----	----	----	----	56.6	1
3	-FL	(RC) (A)	9	M*	4.0	0.07	0.5	0.047	----	----	----	----	55.7	1
3	-FL	(RC) (A)	10	M*	4.0	0.09	0.5	0.048	----	----	----	----	56.6	1
3	-FL	(RC) (A)	11	M*	4.0	0.05	0.5	0.035	----	----	----	----	41.6	1
3	-FL	(S) (A)	1B	----	----	----	----	----	----	----	8.3	22.0	-6.8	
3	-FL	(S) (A)	12	----	----	----	----	----	----	----	8.3	22.0	-7.0	
2	-FL	(RC) (A)	7	M*	4.6	0.08	0.4	0.043	----	----	----	----	73.2	2
2	-FL	(RC) (A)	8	M*	4.6	0.08	0.4	0.043	----	----	----	----	73.3	2
2	-FL	(RC) (A)	9	M*	4.6	0.08	0.4	0.044	----	----	----	----	74.1	2
2	-FL	(RC) (A)	10	M*	5.1	0.11	0.4	0.040	----	----	----	----	54.3	2
2	-FL	(RC) (A)	11	M*	4.6	0.07	0.4	0.022	----	----	----	----	37.1	1
2	-FL	(S) (A)	1B	----	----	----	----	----	----	----	8.3	22.0	2.2	12
2	-FL	(S) (A)	12	----	----	----	----	----	----	----	8.3	22.0	2.3	12
1	-FL	(RC) (A)	4	M*	3.4	0.00	0.3	0.017	----	----	----	----	29.6	
1	-FL	(RC) (A)	11	M*	3.4	0.09	0.3	0.024	----	----	----	----	40.3	11
1	-FL	(S) (A)	1B	----	----	----	----	----	----	----	8.3	22.0	2.3	
1	-FL	(S) (A)	12	----	----	----	----	----	----	----	8.3	22.0	2.5	
B1	-FL	(RC) (A)	4	M*	4.0	-0.01	0.3	0.012	----	----	----	----	19.9	12
B1	-FL	(RC) (A)	10	M*	4.5	0.22	0.4	0.049	----	----	----	----	65.8	21
B1	-FL	(RC) (A)	11	M*	6.0	0.11	0.3	-0.002	----	----	----	----	-3.8	
B1	-FL	(S) (A)	1B	----	----	----	----	----	----	----	8.3	22.0	-2.8	
B1	-FL	(S) (A)	12	----	----	----	----	----	----	----	8.3	22.0	-3.0	

C -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL
R -FL	(RC) (A)	2	--3	M	0.05	----	----	
R -FL	(RC) (A)	4	--5	M	0.04	----	----	
R -FL	(RC) (A)	5	--6	M	0.04	----	----	
R -FL	(RC) (A)	9	--10	M	0.03	----	----	
R -FL	(RC) (A)	10	--0A	M	0.02	----	----	
R -FL	(RC) (A)	0A	--11	M	0.03	----	----	
5 -FL	(RC) (A)	2	--3	M	0.05	----	----	
5 -FL	(RC) (A)	4	--5	M	0.05	----	----	
5 -FL	(RC) (A)	5	--6	M	0.05	----	----	
5 -FL	(RC) (A)	9	--10	M	0.04	----	----	
5 -FL	(RC) (A)	10	--0A	M	0.03	----	----	
5 -FL	(RC) (A)	0A	--11	M	0.03	----	----	
4 -FL	(RC) (A)	2	--3	M	0.04	----	----	
4 -FL	(RC) (A)	4	--5	M	0.04	----	----	

4 -FL	(RC) (A)	5 --6	M	0.04	----	----
4 -FL	(RC) (A)	9 --10	M	0.04	----	----
4 -FL	(RC) (A)	10--0A	M	0.03	----	----
4 -FL	(RC) (A)	0A--11	M	0.03	----	----
3 -FL	(RC) (A)	2 --3	M	0.06	----	----
3 -FL	(RC) (A)	4 --5	M	0.06	----	----
3 -FL	(RC) (A)	5 --6	M	0.06	----	----
3 -FL	(RC) (A)	9 --10	M	0.05	----	----
3 -FL	(RC) (A)	10--0A	M	0.03	----	----
3 -FL	(RC) (A)	0A--11	M	0.03	----	----
2 -FL	(RC) (A)	4 --5	M	0.05	----	----
2 -FL	(RC) (A)	5 --6	M	0.05	----	----
2 -FL	(RC) (A)	7 --8	M	0.05	----	----
2 -FL	(RC) (A)	9 --10	M	0.05	----	----
2 -FL	(RC) (A)	10--0A	M	0.03	----	----
2 -FL	(RC) (A)	0A--11	M	0.03	----	----
1 -FL	(RC) (A)	4 --5	M	0.05	----	----
1 -FL	(RC) (A)	5 --6	M	0.05	----	----
1 -FL	(RC) (A)	7 --8	M	0.05	----	----
1 -FL	(RC) (A)	9 --10	M	0.05	----	----
B1-FL	(RC) (A)	4 --5	M	0.05	----	----
B1-FL	(RC) (A)	5 --6	M	0.02	----	----
B1-FL	(RC) (A)	6 --7	M	0.03	----	----
B1-FL	(RC) (A)	7 --8	M	0.04	----	----
B1-FL	(RC) (A)	8 --9	M	0.04	----	----
B1-FL	(RC) (A)	9 --10	M	0.06	----	----

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON
5 -FL	(S) (A)		1	----	----	----	----	----	----	----	8.3	22.0	-3.2
5 -FL	(S) (A)		1A	----	----	----	----	----	----	----	8.3	22.0	-3.2
5 -FL	(RC) (A)		2	M*	4.8	0.01	0.4	0.015	----	----	----	----	18.0 1
5 -FL	(RC) (A)		5	M*	4.8	0.06	0.5	0.029	----	----	----	----	34.7 2
5 -FL	(RC) (A)		10	M*	4.8	0.04	0.5	0.023	----	----	----	----	26.7
5 -FL	(RC) (A)		11	M*	7.2	0.01	0.5	0.010	----	----	----	----	14.6 1
4 -FL	(S) (A)		1	----	----	----	----	----	----	----	8.3	22.0	3.8 1
4 -FL	(S) (A)		1A	----	----	----	----	----	----	----	8.3	22.0	3.8 1
4 -FL	(RC) (A)		2	M*	3.8	0.01	0.4	0.016	----	----	----	----	18.7 1
4 -FL	(RC) (A)		5	M*	3.8	0.11	0.5	0.042	----	----	----	----	49.4 1
4 -FL	(RC) (A)		10	M*	3.8	0.07	0.5	0.032	----	----	----	----	37.4
4 -FL	(RC) (A)		11	M*	5.8	0.03	0.5	0.008	----	----	----	----	12.2 1
3 -FL	(S) (A)		1	----	----	----	----	----	----	----	8.3	22.0	-6.9
3 -FL	(S) (A)		1A	----	----	----	----	----	----	----	8.3	22.0	-6.4
3 -FL	(RC) (A)		2	M*	4.0	0.00	0.5	0.026	----	----	----	----	30.7 1
3 -FL	(RC) (A)		5	M*	4.0	0.15	0.5	0.054	----	----	----	----	64.1 1
3 -FL	(RC) (A)		10	M*	4.0	0.10	0.5	0.050	----	----	----	----	59.5
3 -FL	(RC) (A)		11	M*	6.2	0.05	0.5	0.016	----	----	----	----	23.5 1
2 -FL	(S) (A)		1	----	----	----	----	----	----	----	8.3	22.0	2.3 1
2 -FL	(S) (A)		1A	----	----	----	----	----	----	----	8.3	22.0	0.6
2 -FL	(RC) (A)		2	M*	5.1	-0.02	0.4	0.021	----	----	----	----	28.2 2
2 -FL	(RC) (A)		5	M*	4.6	0.17	0.5	0.043	----	----	----	----	73.6 2
2 -FL	(RC) (A)		6	M*	4.6	-0.02	0.5	0.031	----	----	----	----	52.2 2
2 -FL	(RC) (A)		7	M	4.6	0.14	0.5	0.058	----	----	----	----	98.5 2
2 -FL	(RC) (A)		8	M	4.6	0.14	0.5	0.058	----	----	----	----	97.9 2
2 -FL	(RC) (A)		9	M	4.6	0.29	0.5	0.074	----	----	----	----	125.5 2
2 -FL	(RC) (A)		10	M*	4.6	0.10	0.5	0.026	----	----	----	----	43.8
2 -FL	(RC) (A)		11	M*	8.2	0.09	0.5	0.009	----	----	----	----	13.2 1
1 -FL	(S) (A)		1	----	----	----	----	----	----	----	8.3	22.0	3.0
1 -FL	(S) (A)		1A	----	----	----	----	----	----	----	8.3	22.0	3.3 1
1 -FL	(RC) (A)		5	M*	3.4	0.22	0.4	0.035	----	----	----	----	58.7 1

1 -FL	(RC) (A)	10	M*	3.4	0.14	0.4	0.030	---	---	---	---	50.3
1 -FL	(RC) (A)	11	M*	6.6	0.12	0.5	0.021	---	---	---	---	31.0 1
B1-FL	(S) (A)	1	---	---	---	---	---	---	---	8.3	22.0	166 -3.1
B1-FL	(RC) (A)	5	M*	4.1	0.26	0.4	0.036	---	---	---	---	61.5 1
B1-FL	(RC) (A)	6	M*	6.2	-0.16	0.4	0.006	---	---	---	---	9.6 2
B1-FL	(RC) (B)	7	M	4.1	0.38	0.4	0.078	---	---	---	---	132.2 2
B1-FL	(RC) (A)	8	M*	4.1	0.02	0.4	0.033	---	---	---	---	57.0 2
B1-FL	(RC) (C)	9	M*	4.2	0.45	0.3	0.068	---	---	---	---	147.4 2
B1-FL	(RC) (A)	12	M*	4.9	0.01	0.5	0.000	---	---	---	---	0.0

D -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON

E -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
R -FL	(RC) (A)	2 --3	M	0.03	---	---							
R -FL	(RC) (A)	3 --4	M	0.02	---	---							
R -FL	(RC) (A)	4 --5	M	0.02	---	---							
R -FL	(RC) (A)	5 --6	M	0.03	---	---							
R -FL	(RC) (A)	6 --7	M	0.03	---	---							
R -FL	(RC) (A)	7 --8	M	0.03	---	---							
R -FL	(RC) (A)	8 --9	M	0.02	---	---							
R -FL	(RC) (A)	9 --10	M	0.03	---	---							
5 -FL	(RC) (A)	2 --3	M	0.04	---	---							
5 -FL	(RC) (A)	3 --4	M	0.04	---	---							
5 -FL	(RC) (A)	4 --5	M	0.04	---	---							
5 -FL	(RC) (A)	5 --6	M	0.04	---	---							
5 -FL	(RC) (A)	6 --7	M	0.05	---	---							
5 -FL	(RC) (A)	7 --8	M	0.04	---	---							
5 -FL	(RC) (A)	8 --9	M	0.04	---	---							
5 -FL	(RC) (A)	9 --10	M	0.04	---	---							
4 -FL	(RC) (A)	2 --3	M	0.04	---	---							
4 -FL	(RC) (A)	3 --4	M	0.04	---	---							
4 -FL	(RC) (A)	4 --5	M	0.04	---	---							
4 -FL	(RC) (A)	5 --6	M	0.04	---	---							
4 -FL	(RC) (A)	6 --7	M	0.04	---	---							
4 -FL	(RC) (A)	7 --8	M	0.04	---	---							
4 -FL	(RC) (A)	8 --9	M	0.04	---	---							
4 -FL	(RC) (A)	9 --10	M	0.04	---	---							
3 -FL	(RC) (A)	2 --3	M	0.05	---	---							
3 -FL	(RC) (A)	5 --6	M	0.05	---	---							
3 -FL	(RC) (A)	6 --7	M	0.04	---	---							
3 -FL	(RC) (A)	7 --8	M	0.04	---	---							
3 -FL	(RC) (A)	8 --9	M	0.05	---	---							
2 -FL	(RC) (A)	2 --3	M	0.04	---	---							
2 -FL	(RC) (A)	5 --6	M	0.05	---	---							
2 -FL	(RC) (A)	6 --7	M	0.05	---	---							
2 -FL	(RC) (A)	7 --8	M	0.05	---	---							
2 -FL	(RC) (A)	8 --9	M	0.04	---	---							
1 -FL	(RC) (A)	2 --3	M	0.03	---	---							
1 -FL	(RC) (A)	3 --4	M	0.03	---	---							
1 -FL	(RC) (A)	4 --5	M	0.04	---	---							
1 -FL	(RC) (A)	5 --6	M	0.05	---	---							

1 -FL	(RC)	(A)	6 --7	M	0.05	----	----
1 -FL	(RC)	(A)	7 --8	M	0.05	----	----
1 -FL	(RC)	(A)	8 --9	M	0.03	----	----
1 -FL	(RC)	(A)	9 --10	M	0.03	----	----
B1-FL	(RC)	(A)	2 --3	M	0.03	----	----
B1-FL	(RC)	(A)	3 --4	M	0.02	----	----
B1-FL	(RC)	(A)	4 --5	M	0.04	----	----
B1-FL	(RC)	(A)	5 --6	M	0.04	----	----
B1-FL	(RC)	(A)	6 --7	M	0.03	----	----
B1-FL	(RC)	(A)	7 --8	M	0.03	----	----
B1-FL	(RC)	(A)	8 --9	M	0.02	----	----
B1-FL	(RC)	(A)	9 --10	M	0.03	----	----

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(S)	(A)	1	----	----	----	----	----	----	----	8.3	22.0	-3.1
5 -FL	(S)	(A)	1A	----	----	----	----	----	----	----	8.3	22.0	-3.2
5 -FL	(RC)	(A)	2	M*	4.8	0.01	0.4	0.014	----	----	----	----	17.0 1
5 -FL	(RC)	(A)	3	M*	5.1	0.02	0.5	0.026	----	----	----	----	28.8 2
5 -FL	(RC)	(A)	4	M*	5.1	0.02	0.5	0.026	----	----	----	----	29.1 2
5 -FL	(RC)	(A)	5	M*	5.1	0.03	0.5	0.027	----	----	----	----	29.7 2
5 -FL	(RC)	(A)	6	M*	5.1	0.03	0.5	0.027	----	----	----	----	30.3 2
5 -FL	(RC)	(A)	7	M*	5.1	0.03	0.5	0.027	----	----	----	----	30.2 2
5 -FL	(RC)	(A)	8	M*	5.1	0.03	0.5	0.027	----	----	----	----	30.1 2
5 -FL	(RC)	(A)	9	M*	5.1	0.03	0.5	0.027	----	----	----	----	29.6 2
5 -FL	(RC)	(A)	10	M*	5.1	0.02	0.5	0.021	----	----	----	----	23.5 2
5 -FL	(RC)	(A)	0A	M*	6.0	0.02	0.4	-0.016	----	----	----	----	-6.8 1
5 -FL	(S)	(A)	11	----	----	----	----	----	----	----	8.3	22.0	-3.2 1
5 -FL	(S)	(A)	1B	----	----	----	----	----	----	----	8.3	22.0	-3.2 1
5 -FL	(S)	(A)	12	----	----	----	----	----	----	----	8.3	22.0	-3.3 1
4 -FL	(S)	(A)	1	----	----	----	----	----	----	----	8.3	22.0	3.8 1
4 -FL	(S)	(A)	1A	----	----	----	----	----	----	----	8.3	22.0	3.7 1
4 -FL	(RC)	(A)	2	M*	3.8	0.02	0.4	0.015	----	----	----	----	18.2 1
4 -FL	(RC)	(A)	3	M*	4.1	0.05	0.5	0.040	----	----	----	----	43.9 2
4 -FL	(RC)	(A)	4	M*	4.1	0.06	0.5	0.042	----	----	----	----	45.9 2
4 -FL	(RC)	(A)	5	M*	4.1	0.06	0.5	0.041	----	----	----	----	45.4 2
4 -FL	(RC)	(A)	6	M*	4.1	0.07	0.5	0.039	----	----	----	----	43.2 2
4 -FL	(RC)	(A)	7	M*	4.1	0.07	0.5	0.039	----	----	----	----	43.3 2
4 -FL	(RC)	(A)	8	M*	4.1	0.06	0.5	0.039	----	----	----	----	42.7 2
4 -FL	(RC)	(A)	9	M*	4.1	0.06	0.5	0.038	----	----	----	----	41.8 2
4 -FL	(RC)	(A)	10	M*	4.1	0.05	0.5	0.025	----	----	----	----	27.2 1
4 -FL	(RC)	(A)	0A	M*	3.6	0.04	0.4	0.020	----	----	----	----	8.6 1
4 -FL	(S)	(A)	11	----	----	----	----	----	----	----	8.3	22.0	3.7 1
4 -FL	(S)	(A)	1B	----	----	----	----	----	----	----	8.3	22.0	3.8 1
4 -FL	(S)	(A)	12	----	----	----	----	----	----	----	8.3	22.0	3.8 1
3 -FL	(S)	(A)	1	----	----	----	----	----	----	----	8.3	22.0	-6.5 0
3 -FL	(S)	(A)	1A	----	----	----	----	----	----	----	8.3	22.0	-6.7 0
3 -FL	(RC)	(A)	2	M*	4.0	0.02	0.5	0.028	----	----	----	----	32.9 1
3 -FL	(RC)	(A)	3	M*	4.0	0.07	0.5	0.045	----	----	----	----	53.1 1
3 -FL	(RC)	(A)	4	M*	4.0	0.08	0.5	0.045	----	----	----	----	53.1 1
3 -FL	(RC)	(A)	5	M*	4.0	0.09	0.5	0.046	----	----	----	----	54.9 1
3 -FL	(RC)	(A)	6	M*	4.0	0.09	0.5	0.049	----	----	----	----	58.0 1
3 -FL	(RC)	(A)	7	M*	4.0	0.10	0.5	0.049	----	----	----	----	58.4 1
3 -FL	(RC)	(A)	8	M*	4.0	0.09	0.5	0.049	----	----	----	----	57.7 1
3 -FL	(RC)	(A)	9	M*	4.0	0.08	0.5	0.048	----	----	----	----	57.3 1
3 -FL	(RC)	(A)	10	M*	4.0	0.09	0.5	0.039	----	----	----	----	46.2 1
3 -FL	(RC)	(A)	0A	M*	3.8	0.07	0.4	-0.044	----	----	----	----	-18.4 0
3 -FL	(S)	(A)	11	----	----	----	----	----	----	----	8.3	22.0	-6.6 0
3 -FL	(S)	(A)	1B	----	----	----	----	----	----	----	8.3	22.0	-6.9 0
3 -FL	(S)	(A)	12	----	----	----	----	----	----	----	8.3	22.0	-7.1 0

2 -FL	(S) (A)	1	---	---	---	---	---	---	---	8.3	22.0	2.3	1
2 -FL	(S) (A)	1A	---	---	---	---	---	---	---	8.3	22.0	2.1	1
2 -FL	(RC) (A)	2	M*	5.1	0.01	0.4	0.019	---	---	---	---	25.5	2
2 -FL	(RC) (A)	6	M*	4.6	0.11	0.4	0.037	---	---	---	---	62.9	2
2 -FL	(RC) (A)	7	M*	4.6	0.11	0.4	0.037	---	---	---	---	63.1	2
2 -FL	(RC) (A)	8	M*	4.6	0.09	0.4	0.036	---	---	---	---	61.0	2
2 -FL	(RC) (A)	0A	M*	5.8	0.10	0.4	0.017	---	---	---	---	7.1	1
2 -FL	(S) (A)	11	---	---	---	---	---	---	---	8.3	22.0	2.1	1
2 -FL	(S) (A)	1B	---	---	---	---	---	---	---	8.3	22.0	2.3	1
2 -FL	(S) (A)	12	---	---	---	---	---	---	---	8.3	22.0	2.3	1
1 -FL	(S) (A)	1	---	---	---	---	---	---	---	8.3	22.0	1.1	1
1 -FL	(S) (A)	1A	---	---	---	---	---	---	---	8.3	22.0	2.6	1
1 -FL	(RC) (A)	2	M*	3.9	0.01	0.4	0.017	---	---	---	---	23.3	1
1 -FL	(RC) (A)	3	M*	3.9	-0.09	0.3	0.015	---	---	---	---	25.9	2
1 -FL	(RC) (A)	4	M*	3.4	0.14	0.3	0.050	---	---	---	---	85.1	2
1 -FL	(RC) (A)	5	M*	3.4	0.31	0.3	0.061	---	---	---	---	103.5	2
1 -FL	(RC) (A)	6	M*	3.4	0.13	0.3	0.034	---	---	---	---	57.7	1
1 -FL	(RC) (A)	7	M*	3.4	0.13	0.3	0.034	---	---	---	---	57.5	1
1 -FL	(RC) (A)	8	M*	3.4	0.11	0.3	0.033	---	---	---	---	56.6	1
1 -FL	(RC) (A)	9	M*	3.9	-0.07	0.3	0.016	---	---	---	---	27.1	2
1 -FL	(RC) (A)	10	M*	3.4	0.32	0.3	0.054	---	---	---	---	91.3	2
1 -FL	(RC) (A)	0A	M*	****	0.12	0.4	0.022	---	---	---	---	9.2	1
1 -FL	(S) (A)	11	---	---	---	---	---	---	---	8.3	22.0	2.6	1
1 -FL	(S) (A)	1B	---	---	---	---	---	---	---	8.3	22.0	2.7	1
1 -FL	(S) (A)	12	---	---	---	---	---	---	---	8.3	22.0	2.7	1
B1-FL	(RC) (C)	1	M*	6.0	0.23	2.0	-0.014	---	---	---	---	-1.2	1
B1-FL	(S) (A)	1A	---	---	---	---	---	---	---	8.3	22.0	-2.6	1
B1-FL	(RC) (A)	2	M*	4.5	0.00	0.4	0.015	---	---	---	---	20.7	12
B1-FL	(RC) (A)	3	M*	5.0	-0.08	0.3	0.009	---	---	---	---	14.7	22
B1-FL	(RC) (A)	4	M*	4.0	0.15	0.3	0.031	---	---	---	---	52.7	12
B1-FL	(RC) (B)	5	M*	4.0	0.36	0.3	0.040	---	---	---	---	68.3	12
B1-FL	(RC) (A)	6	M*	4.0	0.15	0.3	0.030	---	---	---	---	51.4	12
B1-FL	(RC) (A)	7	M*	4.0	0.15	0.3	0.030	---	---	---	---	51.8	12
B1-FL	(RC) (A)	8	M*	4.0	0.13	0.3	0.029	---	---	---	---	49.9	12
B1-FL	(RC) (A)	9	M*	4.4	-0.07	0.3	0.010	---	---	---	---	17.5	22
B1-FL	(RC) (B)	10	M*	4.0	0.39	0.3	0.015	---	---	---	---	24.9	12
B1-FL	(RC) (A)	0A	M*	****	0.15	0.4	-0.026	---	---	---	---	-10.8	1
B1-FL	(S) (A)	11	---	---	---	---	---	---	---	8.3	22.0	-2.4	1
B1-FL	(S) (A)	1B	---	---	---	---	---	---	---	8.3	22.0	-2.8	1
B1-FL	(S) (A)	12	---	---	---	---	---	---	---	8.3	22.0	-2.8	1

F -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL
1 -FL	(RC) (A)	1	--1A	M	0.03	---	---	
1 -FL	(RC) (A)	1A	--2	M	0.02	---	---	
1 -FL	(RC) (A)	2	--3	M	0.02	---	---	
1 -FL	(RC) (A)	3	--4	M	0.01	---	---	
1 -FL	(RC) (A)	4	--5	M	0.00	---	---	
1 -FL	(RC) (A)	8	--9	M	0.01	---	---	
1 -FL	(RC) (A)	9	--10	M	0.02	---	---	
1 -FL	(RC) (A)	10	--0A	M	0.01	---	---	
1 -FL	(RC) (A)	0A	--11	M	0.02	---	---	
1 -FL	(RC) (A)	11	--12	M	0.03	---	---	
B1-FL	(RC) (A)	1	--1A	M	0.03	---	---	
B1-FL	(RC) (A)	1A	--2	M	0.01	---	---	
B1-FL	(RC) (A)	2	--3	M	0.02	---	---	
B1-FL	(RC) (A)	3	--4	M	0.01	---	---	
B1-FL	(RC) (A)	4	--5	M	0.00	---	---	

B1-FL	(RC)	(A)	8 ---9	M	0.01	----	----
B1-FL	(RC)	(A)	9 ---10	M	0.02	----	----
B1-FL	(RC)	(A)	10---0A	M	0.01	----	----
B1-FL	(RC)	(A)	0A---11	M	0.01	----	----
B1-FL	(RC)	(A)	11---12	M	0.03	----	----

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
B1-FL	(RC)	(A)	1	M*	4.9	0.01	0.5	0.016	----	----	----	----	19.0 1
B1-FL	(S)	(A)	1A	----	----	----	----	----	----	----	8.3	22.0	7.0
B1-FL	(RC)	(A)	2	M*	4.8	0.01	0.5	0.034	----	----	----	----	40.3
B1-FL	(RC)	(A)	3	M*	4.8	0.02	0.5	0.033	----	----	----	----	38.6 2
B1-FL	(RC)	(C)	4	M*	18.0	0.15	2.0	0.034	----	----	----	----	2.9
B1-FL	(RC)	(C)	5	M*	18.0	0.03	2.0	0.032	----	----	----	----	2.7
B1-FL	(RC)	(C)	8	M*	18.0	0.01	2.0	0.028	----	----	----	----	2.4 2
B1-FL	(RC)	(A)	9	M*	4.8	0.01	0.5	0.031	----	----	----	----	36.0 2
B1-FL	(RC)	(A)	10	M*	4.8	0.02	0.5	0.034	----	----	----	----	39.6
B1-FL	(RC)	(C)	0A	M*	18.5	0.09	2.0	0.031	----	----	----	----	2.6
B1-FL	(RC)	(A)	11	M*	4.8	0.01	0.5	0.032	----	----	----	----	37.5 2
B1-FL	(RC)	(A)	12	M*	4.8	0.03	0.5	0.034	----	----	----	----	39.7 2

G -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL						
4 -FL	(RC)	(A)	3 --4	M	0.00	---	---							
4 -FL	(RC)	(A)	4 --5	M	0.00	---	---							
3 -FL	(RC)	(A)	3 --4	M	0.01	---	---							
3 -FL	(RC)	(A)	4 --5	M	0.01	---	---							
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)	
3 -FL	(RC)	(C)	3	M*	15.0	0.06	2.0	0.037	---	---	---	---	3.1 22	
3 -FL	(RC)	(C)	4	M*	15.0	0.12	2.0	0.040	---	---	---	---	3.4 22	
3 -FL	(RC)	(C)	5	M*	15.0	0.05	2.0	0.036	---	---	---	---	3.1 22	
2 -FL	(S)	(A)	3	---	---	---	---	---	---	---	8.3	22.0	3.0 12	
2 -FL	(S)	(A)	4	---	---	---	---	---	---	---	8.3	22.0	3.5 12	
2 -FL	(S)	(A)	5	---	---	---	---	---	---	---	8.3	22.0	3.6 12	
1 -FL	(S)	(A)	3	---	---	---	---	---	---	---	8.3	22.0	0.1 0	
1 -FL	(S)	(A)	4	---	---	---	---	---	---	---	8.3	22.0	-0.1 0	
1 -FL	(S)	(A)	5	---	---	---	---	---	---	---	8.3	22.0	0.1 0	
B1-FL	(S)	(A)	3	---	---	---	---	---	---	---	8.3	22.0	-2.8 0	
B1-FL	(S)	(A)	4	---	---	---	---	---	---	---	8.3	22.0	-2.6 0	
B1-FL	(S)	(A)	5	---	---	---	---	---	---	---	8.3	22.0	-2.9 0	

1 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	-3.2
5 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-3.2
4 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	3.8 1
4 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	3.8 1
3 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	2.9
3 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	2.8
2 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	-2.8
2 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-2.7
1 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	3.4 1
1 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	3.3 1

1A -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
B1-FL	(RC)	(D)	C --D	S	0.01	---	---						
B1-FL	(RC)	(A)	D --E	M	0.00	---	---						
B1-FL	(RC)	(A)	E --F	M	0.00	---	---						
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	-3.2 (
5 -FL	(RC)	(A)	D	M*	6.0	0.01	0.5	-0.008	---	---	---	---	-4.0 (
5 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-3.2 (
4 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	3.8 12
4 -FL	(RC)	(A)	D	M*	7.2	0.02	0.5	0.010	---	---	---	---	5.0 12
4 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	3.7 12
3 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	-4.0 (
3 -FL	(RC)	(A)	D	M*	****	0.02	0.5	-0.005	---	---	---	---	-2.8 (
3 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-2.1 (
2 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	-2.2 (
2 -FL	(RC)	(A)	D	M*	11.6	0.04	0.5	-0.007	---	---	---	---	-3.6 (
2 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-2.5 (
1 -FL	(S)	(A)	C	---	---	---	---	---	---	---	8.3	22.0	3.3 12
1 -FL	(RC)	(A)	D	M*	8.0	0.04	0.5	0.010	---	---	---	---	5.2 12
1 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	3.2 12
B1-FL	(RC)	(C)	C	M*	22.5	0.21	2.0	-0.018	---	---	---	---	-1.5 (
B1-FL	(RC)	(A)	D	M*	****	0.05	0.5	-0.008	---	---	---	---	-4.2 (
B1-FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-1.7 (
B1-FL	(S)	(A)	F	---	---	---	---	---	---	---	8.3	22.0	1.4 (

2 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL
R -FL	(RC)	(A)	C --E	M	0.03	---	---	
5 -FL	(RC)	(A)	C --E	M	0.04	---	---	
4 -FL	(RC)	(A)	C --E	M	0.04	---	---	
3 -FL	(RC)	(A)	C --E	M	0.04	---	---	

2 -FL	(RC)	(A)	C --E	M	0.04	---	---							
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)	
5 -FL	(RC)	(A)	C	M*	****	0.01	0.4	0.003	---	---	---	---	3.6	
5 -FL	(RC)	(A)	E	M*	4.8	0.02	0.4	0.010	---	---	---	---	12.3	1
4 -FL	(RC)	(A)	C	M*	3.9	0.01	0.4	0.011	---	---	---	---	13.4	1
4 -FL	(RC)	(A)	E	M*	3.9	0.05	0.4	0.016	---	---	---	---	18.4	1
3 -FL	(RC)	(A)	C	M*	4.1	0.00	0.4	0.009	---	---	---	---	11.1	1
3 -FL	(RC)	(A)	E	M*	4.1	0.08	0.4	0.012	---	---	---	---	14.6	1
2 -FL	(RC)	(A)	C	M*	6.0	0.00	0.5	0.001	---	---	---	---	1.4	
2 -FL	(RC)	(A)	E	M*	****	0.12	0.5	0.002	---	---	---	---	2.6	
1 -FL	(RC)	(A)	C	M*	4.1	0.01	0.5	0.026	---	---	---	---	35.0	1
1 -FL	(RC)	(A)	E	M*	4.1	0.15	0.5	0.040	---	---	---	---	53.2	1
B1-FL	(RC)	(A)	A	M*	4.8	0.03	0.5	0.000	---	---	---	---	0.0	

3 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL						
R -FL	(RC)	(A)	B --C	M	0.03	---	---							
R -FL	(RC)	(A)	C --E	M	0.02	---	---							
5 -FL	(RC)	(A)	B --C	M	0.02	---	---							
5 -FL	(RC)	(A)	C --E	M	0.04	---	---							
4 -FL	(RC)	(A)	B --C	M	0.03	---	---							
4 -FL	(RC)	(A)	C --E	M	0.04	---	---							
4 -FL	(RC)	(A)	E --G	M	0.01	---	---							
3 -FL	(RC)	(A)	B --C	M	0.00	---	---							
3 -FL	(RC)	(A)	C --E	M	0.06	---	---							
3 -FL	(RC)	(A)	E --G	M	0.01	---	---							
2 -FL	(RC)	(A)	B --C	M	0.03	---	---							
2 -FL	(RC)	(A)	C --E	M	0.05	---	---							
1 -FL	(RC)	(A)	A --B	M	0.02	---	---							
1 -FL	(RC)	(A)	B --C	M	0.05	---	---							
B1-FL	(RC)	(A)	A --B	M	0.01	---	---							
B1-FL	(RC)	(A)	B --C	M	0.05	---	---							

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)	
5 -FL	(RC)	(A)	C	M*	4.7	0.02	0.5	0.018	---	---	---	---	20.7	
5 -FL	(RC)	(A)	E	M*	4.7	0.03	0.5	0.024	---	---	---	---	26.8	21
4 -FL	(RC)	(A)	C	M*	3.7	0.05	0.5	0.027	---	---	---	---	31.6	
4 -FL	(RC)	(A)	E	M*	3.8	0.07	0.5	0.026	---	---	---	---	28.4	11
3 -FL	(RC)	(A)	C	M*	4.0	0.07	0.5	0.041	---	---	---	---	47.9	
3 -FL	(RC)	(A)	E	M*	3.7	0.11	0.5	0.051	---	---	---	---	60.6	12
3 -FL	(RC)	(C)	G	M*	14.0	0.13	2.0	0.044	---	---	---	---	3.7	22
2 -FL	(RC)	(A)	C	M*	4.6	0.06	0.5	0.020	---	---	---	---	33.7	
2 -FL	(RC)	(A)	E	M*	4.6	0.15	0.4	0.032	---	---	---	---	54.1	11
2 -FL	(S)	(A)	G	---	---	---	---	---	---	---	8.3	22.0	1.5	
1 -FL	(RC)	(A)	C	M*	3.3	0.06	0.4	0.036	---	---	---	---	61.8	
1 -FL	(RC)	(A)	E	M*	3.3	0.20	0.3	0.049	---	---	---	---	82.5	12
B1-FL	(RC)	(A)	A	M*	4.8	0.01	0.5	0.029	---	---	---	---	34.8	12
B1-FL	(RC)	(A)	F	M*	5.1	0.02	0.5	0.000	---	---	---	---	0.0	

4 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL						
R -FL	(RC)	(A)	B --C	M	0.03	---	---							
R -FL	(RC)	(A)	C --E	M	0.02	---	---							

5 -FL	(RC)	(A)	B --C	M	0.05	---	---
5 -FL	(RC)	(A)	C --E	M	0.02	---	---
4 -FL	(RC)	(A)	B --C	M	0.05	---	---
4 -FL	(RC)	(A)	C --E	M	0.03	---	---
4 -FL	(RC)	(A)	E --G	M	0.03	---	---
3 -FL	(RC)	(A)	B --C	M	0.07	---	---
3 -FL	(RC)	(A)	E --G	M	0.04	---	---
2 -FL	(RC)	(A)	B --C	M	0.03	---	---
1 -FL	(RC)	(A)	B --C	M	0.04	---	---
1 -FL	(RC)	(B)	E --F	M	0.15	---	---
B1-FL	(RC)	(A)	B --C	M	0.03	---	---
B1-FL	(RC)	(A)	C --E	M	0.00	---	---
B1-FL	(RC)	(A)	E --F	M	0.01	---	---

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC)	(A)	B	M*	4.7	0.02	0.5	0.019	---	---	---	---	20.9 1
5 -FL	(RC)	(A)	C	M*	4.7	0.05	0.5	0.031	---	---	---	---	36.3 2
5 -FL	(RC)	(A)	E	M*	4.7	0.03	0.5	0.019	---	---	---	---	21.0 2
4 -FL	(RC)	(A)	B	M*	3.8	0.03	0.5	0.020	---	---	---	---	22.4 1
4 -FL	(RC)	(A)	C	M*	3.8	0.11	0.5	0.044	---	---	---	---	51.5 1
4 -FL	(RC)	(A)	E	M*	3.8	0.07	0.5	0.023	---	---	---	---	25.5
3 -FL	(RC)	(A)	B	M*	4.1	0.02	0.5	0.029	---	---	---	---	34.4 1
3 -FL	(RC)	(A)	C	M*	4.1	0.17	0.5	0.058	---	---	---	---	68.1 1
3 -FL	(RC)	(A)	E	M*	3.8	0.05	0.5	0.047	---	---	---	---	56.1
2 -FL	(RC)	(A)	B	M*	4.6	0.01	0.4	0.014	---	---	---	---	24.6 1
1 -FL	(RC)	(A)	B	M*	3.6	0.01	0.3	0.019	---	---	---	---	32.1 1
1 -FL	(RC)	(A)	C	M*	3.5	-.03	0.4	0.033	---	---	---	---	56.3 2
1 -FL	(RC)	(B)	F	M*	3.3	0.39	0.3	0.030	---	---	---	---	50.9
B1-FL	(RC)	(B)	A	M*	9.5	0.04	1.0	0.000	---	---	---	---	0.0
B1-FL	(RC)	(A)	B	M*	****	0.01	0.3	0.002	---	---	---	---	3.0
B1-FL	(RC)	(A)	C	M*	****	0.00	0.4	0.000	---	---	---	---	0.8
B1-FL	(RC)	(A)	E	M*	****	0.33	0.3	0.003	---	---	---	---	4.8
B1-FL	(RC)	(D)	F	M*	22.1	1.87	2.0	0.001	---	---	---	---	0.1

5 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
R -FL	(RC)	(A)	B --C	M	0.02	---	---						
R -FL	(RC)	(A)	C --E	M	0.02	---	---						
5 -FL	(RC)	(A)	B --C	M	0.04	---	---						
5 -FL	(RC)	(A)	C --E	M	0.03	---	---						
4 -FL	(RC)	(A)	B --C	M	0.04	---	---						
4 -FL	(RC)	(A)	E --G	M	0.11	---	---						
3 -FL	(RC)	(A)	B --C	M	0.05	---	---						
3 -FL	(RC)	(A)	E --G	M	0.12	---	---						
2 -FL	(RC)	(A)	B --C	M	0.04	---	---						
1 -FL	(RC)	(A)	B --C	M	0.04	---	---						
B1-FL	(RC)	(A)	B --C	M	0.03	---	---						
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC)	(A)	B	M*	4.7	0.03	0.5	0.017	---	---	---	---	19.3 11
5 -FL	(RC)	(A)	C	M*	4.5	0.06	0.5	0.034	---	---	---	---	40.3 21
5 -FL	(RC)	(A)	E	M*	4.5	0.03	0.5	0.026	---	---	---	---	28.1 21
4 -FL	(RC)	(A)	B	M*	3.8	0.05	0.5	0.020	---	---	---	---	22.6 11
4 -FL	(RC)	(A)	C	M	3.6	0.11	0.5	0.062	---	---	---	---	73.8 22
4 -FL	(RC)	(A)	E	M*	3.6	0.08	0.5	0.044	---	---	---	---	48.8 0
3 -FL	(RC)	(A)	B	M*	4.1	0.06	0.5	0.026	---	---	---	---	30.6 11

3 -FL	(RC) (C)	G	M*	14.5	0.49	2.0	0.045	---	---	---	---	3.8
2 -FL	(RC) (A)	D	M*	4.6	0.04	0.4	0.017	---	---	---	---	29.6 1
2 -FL	(S) (A)	G	---	---	---	---	---	---	---	8.3	22.0	1.5
1 -FL	(RC) (A)	B	M*	3.4	0.04	0.3	0.032	---	---	---	---	53.7 1
1 -FL	(RC) (A)	C	M	3.2	0.17	0.4	0.077	---	---	---	---	130.3 2
1 -FL	(RC) (A)	E	M	3.2	0.23	0.3	0.079	---	---	---	---	135.0 2

6 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
R -FL	(RC) (A)	C	--E	M	0.02	---	---						
5 -FL	(RC) (A)	C	--E	M	0.03	---	---						
4 -FL	(RC) (A)	C	--E	M	0.03	---	---						
3 -FL	(RC) (A)	C	--E	M	0.04	---	---						
2 -FL	(RC) (A)	C	--E	M	0.03	---	---						
1 -FL	(RC) (A)	C	--E	M	0.03	---	---						
B1-FL	(RC) (A)	C	--E	M	0.02	---	---						
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC) (A)	E		M*	4.5	0.03	0.5	0.027	---	---	---	---	29.3 2
4 -FL	(RC) (A)	E		M*	3.6	0.08	0.5	0.042	---	---	---	---	46.4 2
3 -FL	(RC) (A)	E		M*	3.9	0.12	0.5	0.039	---	---	---	---	46.3 1
2 -FL	(RC) (A)	E		M*	4.6	0.14	0.4	0.033	---	---	---	---	56.8 1
1 -FL	(RC) (A)	E		M*	3.2	0.19	0.3	0.049	---	---	---	---	82.9 1
B1-FL	(RC) (A)	E		M*	****	0.22	0.3	0.002	---	---	---	---	3.5 (

7 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL					
R -FL	(RC) (A)	B	--C	M	0.03	---	---						
5 -FL	(RC) (A)	B	--C	M	0.03	---	---						
4 -FL	(RC) (A)	B	--C	M	0.03	---	---						
3 -FL	(RC) (A)	B	--C	M	0.04	---	---						
2 -FL	(RC) (A)	B	--C	M	0.04	---	---						
2 -FL	(RC) (A)	C	--E	M	0.03	---	---						
1 -FL	(RC) (A)	B	--C	M	0.03	---	---						
1 -FL	(RC) (A)	C	--E	M	0.03	---	---						
B1-FL	(RC) (A)	B	--C	M	0.01	---	---						
B1-FL	(RC) (A)	C	--E	M	0.01	---	---						
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC) (A)	B		M*	4.7	0.02	0.5	0.017	---	---	---	---	19.2 11
4 -FL	(RC) (A)	B		M*	3.8	0.03	0.5	0.020	---	---	---	---	22.1 11
3 -FL	(RC) (A)	B		M*	4.1	0.04	0.5	0.023	---	---	---	---	27.4 11
2 -FL	(RC) (A)	B		M*	4.6	0.03	0.4	0.020	---	---	---	---	33.9 11
2 -FL	(RC) (A)	C		M*	4.6	0.05	0.5	0.039	---	---	---	---	65.8 21
2 -FL	(RC) (A)	E		M*	4.6	0.25	0.4	0.045	---	---	---	---	77.1 21
1 -FL	(RC) (A)	B		M*	3.3	0.03	0.3	0.023	---	---	---	---	38.3 11
1 -FL	(RC) (A)	C		M*	3.2	0.09	0.4	0.056	---	---	---	---	95.5 12
1 -FL	(RC) (A)	E		M*	3.2	0.28	0.3	0.045	---	---	---	---	76.5 11
B1-FL	(RC) (A)	B		M*	****	0.04	0.3	0.006	---	---	---	---	10.6 0
B1-FL	(RC) (A)	C		M*	6.0	0.12	0.4	0.012	---	---	---	---	20.2 0
B1-FL	(RC) (A)	E		M*	****	0.32	0.3	0.006	---	---	---	---	10.0 0

8 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL
R -FL	(RC)	(A)	B --C	M	0.02	---	---	
R -FL	(RC)	(A)	C --E	M	0.02	---	---	
5 -FL	(RC)	(A)	B --C	M	0.04	---	---	
5 -FL	(RC)	(A)	C --E	M	0.03	---	---	
4 -FL	(RC)	(A)	B --C	M	0.04	---	---	
4 -FL	(RC)	(A)	C --E	M	0.03	---	---	
3 -FL	(RC)	(A)	B --C	M	0.05	---	---	
3 -FL	(RC)	(A)	C --E	M	0.04	---	---	
2 -FL	(RC)	(A)	B --C	M	0.04	---	---	
2 -FL	(RC)	(A)	C --E	M	0.04	---	---	
1 -FL	(RC)	(A)	B --C	M	0.04	---	---	
1 -FL	(RC)	(A)	C --E	M	0.03	---	---	
1 -FL	(RC)	(A)	E --F	M	0.11	---	---	
B1-FL	(RC)	(A)	B --C	M	0.01	---	---	
B1-FL	(RC)	(A)	C --E	M	0.01	---	---	
B1-FL	(RC)	(A)	E --F	M	0.05	---	---	

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC)	(A)	B	M*	4.7	0.02	0.5	0.017	---	---	---	---	18.9 11
5 -FL	(RC)	(A)	C	M*	4.5	0.04	0.5	0.032	---	---	---	---	38.0 21
5 -FL	(RC)	(A)	E	M*	4.5	0.03	0.5	0.027	---	---	---	---	29.4 21
4 -FL	(RC)	(A)	B	M*	3.8	0.03	0.5	0.021	---	---	---	---	23.5 11
4 -FL	(RC)	(A)	C	M*	3.6	0.10	0.5	0.045	---	---	---	---	53.1 21
4 -FL	(RC)	(A)	E	M*	3.6	0.07	0.5	0.040	---	---	---	---	44.1 21
3 -FL	(RC)	(A)	B	M*	4.1	0.04	0.5	0.024	---	---	---	---	28.1 11
3 -FL	(RC)	(A)	C	M*	3.9	0.15	0.5	0.060	---	---	---	---	71.1 11
3 -FL	(RC)	(A)	E	M*	3.9	0.11	0.5	0.043	---	---	---	---	50.7 11
2 -FL	(RC)	(A)	B	M*	4.6	0.03	0.4	0.020	---	---	---	---	34.8 11
2 -FL	(RC)	(A)	C	M*	4.6	0.15	0.5	0.048	---	---	---	---	81.9 21
2 -FL	(RC)	(A)	E	M*	4.6	0.12	0.4	0.032	---	---	---	---	53.8 11
1 -FL	(RC)	(A)	B	M*	3.3	0.02	0.3	0.022	---	---	---	---	38.0 11
1 -FL	(RC)	(A)	C	M*	3.2	0.18	0.4	0.057	---	---	---	---	97.2 11
1 -FL	(RC)	(A)	E	M*	3.2	0.16	0.3	0.043	---	---	---	---	72.6 0
B1-FL	(RC)	(A)	B	M*	****	0.03	0.3	0.011	---	---	---	---	18.2 0
B1-FL	(RC)	(A)	C	M*	****	0.22	0.4	0.014	---	---	---	---	24.6 0
B1-FL	(RC)	(A)	E	M*	4.0	0.11	0.3	0.023	---	---	---	---	39.3 0

9 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL
R -FL	(RC)	(A)	C --E	M	0.03	---	---	
5 -FL	(RC)	(A)	C --E	M	0.04	---	---	
4 -FL	(RC)	(A)	C --E	M	0.04	---	---	
3 -FL	(RC)	(A)	C --E	M	0.05	---	---	
2 -FL	(RC)	(A)	C --E	M	0.04	---	---	
B1-FL	(RC)	(A)	B --C	M	0.04	---	---	

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC)	(A)	E	M*	4.5	0.03	0.5	0.028	---	---	---	---	30.4 21
4 -FL	(RC)	(A)	E	M*	3.6	0.07	0.5	0.043	---	---	---	---	47.2 21
3 -FL	(RC)	(A)	E	M*	3.9	0.10	0.5	0.035	---	---	---	---	40.9 11
2 -FL	(RC)	(A)	E	M*	4.6	0.11	0.4	0.037	---	---	---	---	62.8 11
1 -FL	(RC)	(A)	E	M*	3.2	0.16	0.3	0.051	---	---	---	---	87.4 12

10 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL
R -FL	(RC)	(A)	C --E	M	0.04	---	---	
5 -FL	(RC)	(A)	C --E	M	0.05	---	---	
4 -FL	(RC)	(A)	C --E	M	0.05	---	---	
3 -FL	(RC)	(A)	C --E	M	0.07	---	---	
2 -FL	(RC)	(A)	C --E	M	0.04	---	---	
1 -FL	(RC)	(A)	C --E	M	0.05	---	---	
B1-FL	(RC)	(A)	C --E	M	0.06	---	---	

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC)	(A)	E	M*	4.7	0.02	0.5	0.023	---	---	---	---	25.6 2
4 -FL	(RC)	(A)	E	M*	3.8	0.06	0.5	0.026	---	---	---	---	28.8 1
3 -FL	(RC)	(A)	E	M*	4.1	0.09	0.5	0.032	---	---	---	---	37.6 1
2 -FL	(RC)	(A)	E	M*	4.6	0.11	0.4	0.028	---	---	---	---	47.4 1
1 -FL	(RC)	(A)	E	M*	3.6	0.14	0.3	0.013	---	---	---	---	22.5 1
B1-FL	(RC)	(A)	A	M*	5.1	0.02	0.5	0.011	---	---	---	---	13.5 1
B1-FL	(RC)	(A)	E	M*	4.2	0.17	0.3	0.032	---	---	---	---	54.8 1
B1-FL	(RC)	(A)	F	M*	5.1	0.01	0.5	0.014	---	---	---	---	16.1 1

0A -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL
B1-FL	(RC)	(A)	C --E	M	0.01	---	---	
B1-FL	(RC)	(A)	E --F	M	0.01	---	---	

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(RC)	(B)	E	M*	21.5	0.02	1.0	-0.006	---	---	---	---	-2.5 0
4 -FL	(RC)	(B)	E	M*	18.0	0.04	1.0	0.009	---	---	---	---	3.8 12
3 -FL	(RC)	(B)	E	M*	19.0	0.07	1.0	-0.007	---	---	---	---	-3.0 0
2 -FL	(RC)	(B)	E	M*	29.0	0.10	1.0	0.006	---	---	---	---	2.6 12
1 -FL	(RC)	(B)	E	M*	20.0	0.12	1.0	-0.007	---	---	---	---	-2.8 0
B1-FL	(RC)	(D)	C	M*	****	0.56	2.0	0.024	---	---	---	---	2.0 0
B1-FL	(RC)	(B)	E	M*	22.5	0.15	1.0	0.009	---	---	---	---	3.7 12
B1-FL	(RC)	(C)	F	M*	****	0.09	2.0	0.013	---	---	---	---	1.1 0

11 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL
1 -FL	(RC)	(A)	A --B	M	0.05	---	---	
1 -FL	(RC)	(A)	C --E	M	0.04	---	---	
1 -FL	(RC)	(A)	E --F	M	0.02	---	---	
B1-FL	(RC)	(A)	A --B	M	0.04	---	---	
B1-FL	(RC)	(A)	C --E	M	0.04	---	---	
B1-FL	(RC)	(A)	E --F	M	0.01	---	---	

COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)
5 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-3.4 0
4 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	2.9 11
3 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-5.0 0
2 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-0.4 0
1 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	3.9 0
B1-FL	(RC)	(A)	A	M*	5.0	0.01	0.5	0.029	---	---	---	---	33.8 12
B1-FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	5.5 0

B1-FL	(RC)	(A)	F	M*	4.8	0.02	0.5	0.033	---	---	---	---	38.9	2
1B -FRAME														176
GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL						
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON	
5 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	-0.4	
5 -FL	(RC)	(A)	D	M*	8.6	0.01	0.5	0.008	---	---	---	---	4.0	1
5 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	3.2	
4 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	-7.3	
4 -FL	(RC)	(A)	D	M*	7.2	0.02	0.5	-.019	---	---	---	---	-10.0	
4 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-7.5	
3 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	-5.9	
3 -FL	(RC)	(A)	D	M*	7.6	0.03	0.5	-.017	---	---	---	---	-8.8	
3 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-6.1	
2 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	2.2	12
2 -FL	(RC)	(A)	D	M*	11.6	0.04	0.5	0.007	---	---	---	---	3.6	12
2 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	2.3	12
1 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	-5.7	
1 -FL	(RC)	(A)	D	M*	8.0	0.05	0.5	-.019	---	---	---	---	-9.8	
1 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-5.7	
B1-FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	2.8	12
B1-FL	(RC)	(C)	C	M*	22.5	0.05	2.0	0.012	---	---	---	---	1.0	12
B1-FL	(RC)	(A)	D	M*	9.0	0.06	0.5	0.010	---	---	---	---	5.0	12
B1-FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	2.8	12

12 -FRAME

GIRDER	TYPE	RANK	POSITION	MODE	TAU/FC	B/TF	H/TW	STEEL						
1 -FL	(RC)	(A)	C --E	M	0.12	---	---							
1 -FL	(RC)	(A)	E --F	M	0.01	---	---							
B1-FL	(RC)	(A)	C --E	M	0.12	---	---							
B1-FL	(RC)	(A)	E --F	M	0.01	---	---							
COLUMN	TYPE	RANK	POSITION	MODE	2M/QD	SIGMA/FC	PT (%)	TAU/FC	N/NO	SMO/MO	B/TF	H/TW	QB (TON)	
5 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	-3.2	0
5 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-3.2	0
4 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	3.8	12
4 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	3.8	12
3 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	-4.6	0
3 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	-4.6	0
2 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	2.3	12
2 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	1.8	0
1 -FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	-4.3	0
1 -FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	0.8	0
B1-FL	(S)	(A)	B	---	---	---	---	---	---	---	8.3	22.0	2.0	0
B1-FL	(RC)	(A)	C	M*	4.8	-.04	0.5	0.026	---	---	---	---	30.7	0
B1-FL	(S)	(A)	E	---	---	---	---	---	---	---	8.3	22.0	1.8	0
B1-FL	(RC)	(A)	F	M*	4.8	0.02	0.5	0.033	---	---	---	---	38.8	22

XYNETICS WAS CALLED BY SUB. SKLAY. JOB1=0000 NA1=00 NB1=00


```

0-----1-----2-----3-----4-----5-----6-----7-----8
1 +++ *GO
2 T
3 T
4 T KATURA HAMA
5 T
6 T MODULE NAME "KATURA" (19930220)
7 T
8 T
9 +++ *GENERAL
10 **GRID NAME
11 X A B C D E F G
12 Y 11A 2 3 4 5 6 7 8 9100A111B12
13 Z R 5 4 3 2 1B1
14 **ROUTE OF CALCULATION 3 3
15 X RC 5B1
16 Y RC 5B1
17 **NODE POSITION
18 X 2500 5200 700 2600 5500 1225
19 Y 2300 2300 4600 4600 4600 4600 4600 4600 4600 4600 2000 2600 2300 2300
20 Z 4300 3600 3800 5800 4000 4500
21 R A 912 1475 B 3 2200
22 R B 5 -1400 B 6 7 -2000 B 8 -1400
23 R B 9 -300 B10 1700 B11 4200
24 R E 1 -2590 E1A -1100 D1B 1100
25 R E 3 2600 E 4 4600 E 5 5800
26 R E 6 7 6500 E 8 5800 E 9 4500
27 R E10 1700 B1B 5100 B12 5100
28 R F 5 8 1000 E1B -600 E12 -2400
29 **MATERIAL
30 C FC210 RB124 C 01
31 R SD301019SD352225S
32 S SS41 5B1 SS41 RB1
33 T RC 5B1 RC RB1 RC RB1
34 **SHEAR COEF. B1 R 06
35 T 0540 0540
36 **FLOOR LOAD LIST
37 1 5B1 150 250 500 400 200 B1F MACHINE
38 2 5B1 150 90 300 180 80 IPPAN UKA OFFICE
39 3 5B1 180 90 180 130 60 KYAKU RM. NON BEAM
40 4 5B1 150 90 360 330 210 KENSYUU ROOM
41 5 5B1 250 90 300 180 80 STAIR
42 6 5B1 150 250 180 130 60 W.C
43 7 81 150 300 180 130 60 B1 TYUBO
44 8 5B1 150 90 360 330 210 RESTAURANT HALL
45 9 5B1 150 90 360 330 210 OOHIROMA
46 10 3 180 740 850 780 740 YOKUSO W-SLAB
47 11 3 150 740 230 180 110 YOKUSHITU W-SLAB
48 12 RB1 300 300 180 130 60 TENBO DEKKI
49 13 R 180 300 180 130 60 RF YANE
50 14 3 150 740 410 380 260 HALL W-SLAB 15+18
0-----1-----2-----3-----4-----5-----6-----7-----8

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CARD-NO

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0-----1-----2-----3-----4-----5-----6-----7-----8
51 15 R 180 300 3000 3000 3000 E.V MACHINE
52 16 5 2 150 300 180 130 60 5F-2F YANE
53 17 1 150 300 360 330 210 CAFE DEKKI
54 18B1 150 300 300 180 80 TYUUBO
55 19 1B1 150 250 550 400 200 CAR LOAD
56 20 1 150 100 180 130 60 CANTI SLAB
57 **TYPICAL FLOOR
58 G R 13 5 1 2B1 7
59 +++ *BUILDING SHAPE
60 **PLAN R
61 ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
62 +
63 F
64 60 60 60 60 60 60 60 60 60 60 60 60
65 E +99 +99 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +99 +99 +99 +99 +
66 I I99 I I I I I I I I I I I I I I I I I I I99 I I
67 D + +
68 99 299 2 4 111 1 1 1 2 1 2 1 2 1 2 1 2 1 1 299 299 I I I I
69 C +99 +99 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +21 +
70 50 1 1 3 1 1 3 1 1 1 1 1 1 5 3 1 - 3 299 299
71 B + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 - +99 +99 +
72 60 60 60 60 60 60 60
73 A
74
75 **PLAN 5
76 ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
77 +
78 F
79 60 60 60 60 60 60 60 60 60 60 60 60
80 E 77997799 3 1 1 1 1 1 1 1 1 1 1 1 1 1 19980997799779977
81 I I99 I I I I I I I I I I I I I I I I I I I99 I I
82 D 6 6
83 99 299 2 4 711 7 1 7 2 7 2 7 2 7 2 7 2 7 1 299 299 I I I I
84 C 77997799 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 28821 5
85 5013 110 1 9 3 8 1 8 1 8 124 323 - 3 299 299
86 B 88 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1 - 199779977
87 60 60 60 60 60 60 60
88 A
89
90 **PLAN 4
91 ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
92 +
93 G +50 +50 +
94 I I I I I I I
95 F
96 60 60 61201430144061 60 60 60 60 60
97 E 77997799 3 1 1 1 1 1 1 1 1 1 1 1 1 1 19980997799779977
98 I I99 I I I I I I I I I I I I I I I I I I I99 I I
99 D 6 6
100 99 299 2 4 711 7 1 7 2 7 2 7 2 7 2 7 2 7 1 299 299 I I I I
0-----1-----2-----3-----4-----5-----6-----7-----8

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		1	2	3	4	5	6	7	8
101	C	77997799	3	2	2	2	2	2	2
102			5013	110	1	9	3	8	1
103	B		88	1	1	1	1	1	1
104			60	60	60	60	60	60	60
105	A								
106									
107	**PLAN		3						
108	++	1	1A	2	3	4	5	6	7
109	+								
110	G		7050705070						
111			I	I	I	I	I	I	I
112	F								
113		60	60	61203130314061	60	60	60	60	60
114	E	77997799	3	1	1	1	1	1	1
115		I	I99	I	I	I	I	I	I
116	D		6						
117		99	299	2	4221120	118	216	216	215
118	C	77997799	3	1	2	3	2	2	2
119			5030	127	126	315	115	115	124
120	B		88	1	1	1	1	1	1
121			60	60	60	60	60	60	60
122	A								
123									
124	**PLAN		2						
125	++	1	1A	2	3	4	5	6	7
126	+								
127	G		7799779977						
128			I	I	I	I	I	I	I
129	F								
130		60	60	6199	99	9961	60	60	60
131	E	77997799	3	1	1	1	1	1	1
132		I	I99	I	I	I	I	I	I
133	D		6						
134		99	299	2	435	133	132	232	232
135	C	77997799	3	3	2	3	2	2	2
136			50361227	126	315	115	115	124	323
137	B		88	1	1	3	1	3	1
138			60	60	60	60	60	60	60
139	A								
140									
141	**PLAN		1						
142	++	1	1A	2	3	4	5	6	7
143	+								
144	G		7799779977						
145									
146	F	+11	+11	+1	+1	+1	+1	+1	+1
147		2379937	137	338103810					
148	E	77997799	3	1	1	1	1	1	1
149		I	I99	I	I	I	I	I	I
150	D		6						

CARD-NO

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0-----1-----2-----3-----4-----5-----6-----7-----8
151      2389938 339 142 - 241 241 241 241 241 1399940 2389938 2
152      C 77 277 2 3 2 2 3 2 222 2 2 3 2 2 2 3 2 3 2 288 2 5 2 + 2 +
153      I I      I I 2 I 127 126 346 146 146 324 323 - 3 99 99
154      B      88 1 1 1 3 1 1 1 1 1 1 1 3 3 1 - 199779977
155      244 - 2442145 338 3      338 337 - 1
156      A + 1 - + 1 + 1 + 1 +      + 1 + 1 - +
157
158      **PLAN      B1
159      ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
160      +
161      G      7799779977
162
163      F 4117711 4 1 4 170 170      70 1 4 1 4117011 4 1 - 4
164      4539053 452 340104010      1040 348 3479047 247 - 2
165      E 70997799 3 1 1 1 1 3 1 1 1 1 1 1 1 1 1 19980997799779977
166      I I90 I I I I I I I I I I I I I I I I I I I I99 I I
167      D 6      6
168      4409040 452 151 150 249 249 249 249 347 1489048 2489948 2
169      C 77 170 2 3 2 2 3 2 1 2 1 2 1 2 1 2 121 1 2 270 2 5 170 1 4
170      I I      I I 2 I 157 557 557 557 557 556 3 I 3 99 99
171      B      88 1 1 1 1 1 1 1 1 1 1 1 3 3 199779977
172      458 - 258 258 359 3      355 354 - 1
173      A 4 2 - 4 2 4 2 7 2 7      4 2 4 2 - 4
174
175      **PLAN      W 5 4
176      ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
177      +
178      F
179
180      E      19B919B919B919B919B919B919B919B9Q1
181      I      I I I I I I I I
182      D
183      19E5      16E116E116E120D716E116E616D7
184      C      20 16C0 18C918C018D119D2
185      19D520 16E716E818E920 50
186      B      Q1 19E419C119B919B919B919C119 -B6
187
188      A
189
190      **PLAN      W 3
191      ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
192      +
193      G      19B919B9
194      I I I
195      F
196      19B9Q1 19B9
197      E      19B9 19B919B919B919B919B9Q1
198      I I I I I I I
199      D
200      19B9 16D420D6 20D716E116E216D7
0-----1-----2-----3-----4-----5-----6-----7-----8

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CARD-NO

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0-----1-----2-----3-----4-----5-----6-----7-----8
201 C Q1 20 18C918C018D119D2
202 Q1 16D319D520 Q1 16D918D020 50
203 B Q1 19C119C119B919B919B919C119 -B6
204
205 A
206
207 **PLAN W 2
208 ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
209 +
210 G
211
212 F
213
214 E Q1 20 20 19B919B919B919B918 Q1
215 I I I I
216 D
217 19C6 20C620C7 16C8
218 C 19B020 19B8
219 Q1 16C319C420C5 25C525 50
220 B Q1 20C118C1 19C1
221
222 A
223
224 **PLAN W 1
225 ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
226 +
227 G
228
229 F
230
231 E Q1 Q1 Q1
232
233 D
234
235 C 25 25 25 16B725 19B8
236 19C430B316B416B430B530 50
237 B Q1 18 18 18 18 18
238
239 A
240
241 **PLAN W B1
242 ++ 1 1A 2 3 4 5 6 7 8 9 10 0A 11 1B 12
243 +
244 G
245
246 F Q1 Q1 19B119B1Q1 Q1 Q1 Q1 Q1 Q1 -
247 40 30 31A4 50 40
248 E 19B119B119B119B1
249 I I I I I
250 D
0-----1-----2-----3-----4-----5-----6-----7-----8
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0-----1-----2-----3-----4-----5-----6-----7-----8
251      40      30 30A3      30A7      30
252      C      18 25 25      16B216B216B216B219A425 25 13
253      I      31A519A630A8      16A931A030      50
254      B      Q1 40 40 40 40
255      40A1      40      40
256      A      40 - 40 40 40      40 40 -
257
258      **COLUMN LIST
259      C      5      1RC      700 750
260      R      525      213100 =      525      213100 =
261      C      4      1RC      700 750
262      R      525      213100 =      525      213100 =
263      C      3      1RC      750 750
264      R      525      213100 =      525      213100 =
265      C      2      1RC      900 900
266      R      725      213100 =      725      213100 =
267      C      1      1RC      900 900
268      R      525      213100 =      525      213100 =
269      C      1      11RC      900 900
270      R      525      213100 =      525      413100 =
271      C      B1      1RC      900 900
272      R      525      213100 =      525      213100 =
273      C      5      2RC      750 750
274      R      525      213100 =      525      213100 =
275      C      4      2RC      750 750
276      R      525      213100 =      525      213100 =
277      C      3      2RC      750 750
278      R      625      213100 =      625      213100 =
279      C      2      2RC      900 900
280      R      825      213100 =      825      213100 =
281      C      1      2RC      900 900
282      R      625      213100 =      625      213100 =
283      C      1      22RC      900 900
284      R      625      213100 =      625      413100 =
285      C      B1      2RC      900 900
286      R      625      213100 =      625      213100 =
287      C      B1      21RC      9001150
288      R      525      213100 =      625      213100 =
289      C      5      3RC      750 750
290      R      425      213100 =      425      213100 =
291      C      4      3RC      750 750
292      R      425      213100 =      425      213100 =
293      C      3      3RC      750 750
294      R      525      213100 =      425      213100 =
295      C      2      3RC      800 800
296      R      525      213100 =      625      213100 =
297      C      1      3RC      800 800
298      R      525      213100 =      625      213100 =
299      C      B1      3RC      800 800
300      R      525      213100 =      625      213100 =
0-----1-----2-----3-----4-----5-----6-----7-----8

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CARD-NO	0	1	2	3	4	5	6	7	8
301	C	B1	4RC		750	750			
302	R	525		213100	=		525	213100	=
303	C	5	1 5RC		500	1400			
304	R	725		313100	=		325	213100	=
305	C	B1	5RC		650	650			
306	R	425		213100	=		525	213100	=
307	C	5B1	6RC		500	500			
308	R	419		210100	=		419	210100	=
309	C	5B1	7RC		400	400			
310	R	422		210100	=		422	210100	=
311	C	5B170RC			200	200			
312	R	416		210100	=		416	210100	=
313	C	5B180RC			1000	200			
314	R	222		213100	=		522	313100	=
315	C	5B177S							
316	F	WH 200 200 8	12I	=			WH 200 200 8	12I	=
317	C	5B188S							
318	F	WH 3 3 1	1I	=			WH 3 3 1	1I	=
319	**GIRDER LIST								
320	G	R	X 1RC						S
321	C	450 700		710	=				=
322	R	4 225	4	25 213100		4 25	4 25	213200	=
323	G	5	X 1RC						S
324	C	450 750		710	=				=
325	R	4 225	4	25 213100		4 25	4 25	213200	=
326	G	4	X 1RC						S
327	C	500 800		710	=				=
328	R	5 25	4	25 213100		4 25	4 25	213200	=
329	G	3	X 1RC						S
330	C	5001700		710	=				=
331	R	4 225	4 225	413100		4 25	4 25	213200	=
332	G	2	X 1RC						S
333	C	500 900		710	=				=
334	R	5 25	4	25 213100		4 25	4 25	213200	=
335	G	1	X 1RC						S
336	C	500 900		710	=				=
337	R	5 25	4	25 213100		4 25	4 25	213200	=
338	G	R 4X21RC							S
339	C	400 700		710	=				=
340	R	2 25	2	25 213100		2 25	2 25	213200	=
341	G	2	X21RC						S
342	C	400 700		710	=				=
343	R	2 25	2	25 213100		2 25	2 25	213200	=
344	G	1B1X11RC							S
345	C	450 800		710	=				=
346	R	2 25	2	25 313100		2 25	2 25	213200	=
347	G	R	X 2RC						S
348	C	450 700		710	=				=
349	R	4 225	4	25 213100		4 25	4 25	213200	=
350	G	5	X 2RC						S

	0	1	2	3	4	5	6	7	8
351	C	450 750	710	=					
352	R	4 225	4 25	213100	4 25	4 25	213200	=	
353	G	4 X 2RC			S				
354	C	500 800	710	=					
355	R	5 25	4 25	213100	4 25	4 25	213200	=	
356	G	3 X 2RC			S				
357	C	5001700	710	=					
358	R	4 225	4 225	413100	4 25	4 25	213200	=	
359	G	3 X 21RC			S				
360	C	5001700	710	=					
361	R	2 25	2 25	413100	2 25	2 25	213200	=	
362	G	2 X 2RC			S				
363	C	500 900	710	=					
364	R	5 125	4 25	213100	4 25	4 25	213200	=	
365	G	1 X 2RC			S				
366	C	450 800	710	=					
367	R	5 25	4 25	213100	4 25	4 25	213200	=	
368	G	4 X 50RC			S				
369	C	450 800	710	=					
370	R	2 25	2 25	413100	5 25	4 25	213200	=	
371	G	3 X 50RC			S				
372	C	450 800	710	=					
373	R	2 25	2 25	413100	5 25	4 25	213200	=	
374	G	R 1X 3RC			S				
375	C	400 700	710	=					
376	R	4 25	4 25	213200	4 25	4 25	213200	=	
377	G	R Y 1RC			S				
378	C	450 750	710	=					
379	R	4 225	4 25	213100	4 25	4 225	213200	=	
380	G	5 Y 1RC			S				
381	C	450 750	710	=					
382	R	4 225	4 225	213100	5 25	4 225	213200	=	
383	G	4 Y 1RC			S				
384	C	450 750	710	=					
385	R	4 225	4 225	213100	4 25	4 225	213200	=	
386	G	3 Y 1RC			S				
387	C	4001700	710	=					
388	R	4 325	4 125	213100	4 25	3 225	213200	=	
389	G	R Y11RC			S				
390	C	450 750	710	=					
391	R	5 325	4 225	413100	4 25	4 225	213200	4 225	4 25 21310
392	G	5 Y11RC			S				
393	C	450 750	710	=					
394	R	5 325	4 225	413100	5 25	4 225	213200	4 225	4 25 21310
395	G	4 Y11RC			S				
396	C	450 750	710	=					
397	R	5 325	4 225	413100	4 25	4 225	213200	4 225	4 25 21310
398	G	3 Y11RC			S				
399	C	4001700	710	=					
400	R	5 325	4 225	413100	4 25	3 225	213200	=	

CARD-NO	0	1	2	3	4	5	6	7	8
401	G	2	Y 1RC		S				
402	C	5001000	710	=					
403	R	5 325	5 225	413100	5 25	4 225	213200	=	
404	G	2	Y12RC		S				
405	C	500 750	710	=					
406	R	4 25	4 25	413100	4 25	4 225	213200	=	
407	G	1	Y 1RC		S				
408	C	500 750	710	=					
409	R	5 225	5 25	213100	4 25	4 225	213200	=	
410	G	4	Y20RC		S				
411	C	5001000	710	=					
412	R	2 25	2 25	513100	4 25	4 225	213200	=	
413	G	3	Y20RC		S				
414	C	5001500	710	=					
415	R	2 25	2 25	513100	4 25	4 225	213200	=	
416	G	4	3Y30RC		S				
417	C	4501000	710	=					
418	R	5 225	5 25	213200	4 25	4 225	213200	=	
419	G	4	3Y40RC		S				
420	C	450 900	710	=					
421	R	5 225	5 25	213200	4 25	4 225	213200	=	
422	G	R	Y 2RC		S				
423	C	400 900	710	=					
424	R	4 425	4 225	213200	4 125	4 225	213200	=	
425	G	5	Y 2RC		S				
426	C	450 900	710	=					
427	R	5 525	5 225	213150	5 125	4 225	213200	=	
428	G	4	Y 2RC		S				
429	C	450 900	710	=					
430	R	4 425	4 225	213200	4 125	4 225	213200	=	
431	G	3	Y 2RC		S				
432	C	4001700	710	=					
433	R	4 425	4 225	213150	3 225	3 225	213200	=	
434	G	2	Y 2RC		S				
435	C	5501100	710	=					
436	R	6 625	6 225	213150	4 225	4 225	213200	=	
437	G	1	Y 2RC		S				
438	C	450 900	710	=					
439	R	5 325	4 225	413150	5 25	4 225	213200	=	
440	G	1	Y21RC		S				
441	C	450 900	710	=					
442	R	4 25	4 25	213100	4 25	4 25	213200	=	
443	G	R	1Y 3RC		S				
444	C	400 700	710	=					
445	R	4 25	4 25	413100	4 25	4 25	213200	=	
446	G	R	B1Y 4RC		S				
447	C	450 700	710	=					
448	R	2 25	2 25	413100	4 25	4 25	213200	=	
449	G	R	B1Y50RC		S				
450	C	400 800	710	=					

CARD-NO

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0-----1-----2-----3-----4-----5-----6-----7-----8
451 R 4 25 4 25 213200 4 25 4 25 213200 =
452 G RB1Y10RC S
453 C 450 800 710 =
454 R 4 25 4 25 213200 4 25 4 25 213200 =
455 G RB1X99S
456 F WH 3 3 1 1 =
457 G RB1Y99S
458 F WH 3 3 1 1 =
459 G RB1X90RC S
460 C 350 600 =
461 R 4 25 4 25 210200 4 25 4 25 210200 =
462 G RB1Y90RC S
463 C 350 600 =
464 R 2 19 2 19 413100 4 25 4 25 210200 =
465 G B1 X 1RC S
466 C 4501500 710 =
467 R 4 225 4 225 213200 4 25 4 25 213200 =
468 G B1 X 2RC S
469 C 4001500 710 =
470 R 4 25 4 25 213200 4 25 4 25 213200 =
471 G B1 X 3RC S
472 C 3001500 710 =
473 R 3 25 3 25 213200 3 25 3 25 213200 =
474 G B1 Y 1RC S
475 C 4501500 710 =
476 R 4 225 4 225 213200 4 25 4 25 213200 =
477 G B1 Y 2RC S
478 C 4501500 710 =
479 R 4 225 4 225 213200 4 25 4 225 213200 =
480 G B1 Y 3RC S
481 C 4001500 710 =
482 R 4 25 4 25 213100 4 25 4 25 213200 =
483 G B1 Y 5RC S
484 C 8001500 710 5001500
485 R 6 25 6 25 216200 5 25 5 25 213200 5 25 5 25 21320
486 **BAY LIST
487 1 LD13 BY LD BY BM BM
488 2 LD12 BY LD BY BM BM
489 3 X1 LD BY 4LD15 BY BM 18M
490 4 Y1 LD13 BY LD15 BY BM 28M
491 5 X1 LD BY 6LD BY 6 BM 18M
492 6 Y1 LD13 BY LD15 BY BM 38M
493 7 X1 LD 3XBY LD 3XBY BM 48M 2500 W 180 4000
494 8 X1 LD 3XBY LD 3XBY BM 48M 1500 W 150 3600
495 9 X1 LD 5 BY LD 2 BY BM 18M 3200 W 180 3100
496 10 X1 LD BY11LD 2 BY BM 18M 3200 W 180 2000
497 11 Y1 LD 2 BY LD BY12 BM 28M W 180
498 12 X1 LD 2 BY LD BY BM 28M W 180
499 13 Y1 LD 1 BY LD 2 BY BM 18M W 150
500 14 LD16 BY LD BY BM BM
0-----1-----2-----3-----4-----5-----6-----7-----8

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CARD-NO

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0-----1-----2-----3-----4-----5-----6-----7-----8
501 15 LD 3 BY LD BY BM BM
502 16 X1 LD BY17LD10 BY BM 5BM 2500 Q 05
503 17 X1 LD11 BY LD11 BY BM 5BM
504 18 X1 LD BY19LD11 BY BM 5BM 6000
505 19 X1 LD11 BY LD11 BY BM 5BM 5500
506 20 X1 LD BY21LD11 BY BM 5BM
507 21 X1 LD11 BY LD11 BY BM 5BM
508 22 X1 LD11 BY LD10 BY BM 5BM 2500 Q 05
509 23 LD 5 BY LD BY BM BM
510 24 X1 LD 1 BY LD BY25 BM 1BM 1800 W 180 2500
511 25 Y1 LD 2 BY LD BY BM 2BM W 180 2000
512 26 X1 LD 5 BY LD14 BY BM 5BM 3200 W 180 3600
513 27 X1 LD BY28LD14 BY BM 5BM 3200 W 180 3600
514 28 Y1 LD14 BY LD BY29 BM 2BM 2600 W 180
515 29 X1 LD14 BY LD BY BM 2BM 2000 W 180
516 30 LD14 BY LD BY BM BM
517 31 LD11 BY LD BY BM BM
518 32 X2 LD 9 BY LD BY BM 2BM 2
519 33 X1 LD BY34LD 1 BY BM 2BM 5000
520 34 X1 LD 1 BY LD 1 BY BM 2BM
521 35 X1 LD 1 BY LD 1 BY BM 2BM 2500
522 36 LD 6 BY LD BY BM BM
523 37 X1 LD17 BY LD17 BY BM 2BM
524 38 LD17 BY LD BY BM BM
525 39 X1 LD 8 BY LD 8 BY BM 2BM
526 40 LD 8 BY LD BY BM BM
527 41 X2 LD 8 BY LD BY BM 2BM 2 3000
528 42 X1 LD 8 BY LD BY43 BM 6BM 3500
529 43 Y1 LD 8 BY LD BY BM 3BM 3500
530 44 X2 LD17 BY LD BY BM 3BM 3
531 45 X1 LD 6 BY LD 8 BY BM 3BM
532 46 X1 LD 2 BY LD 2 BY BM 1BM 3500
533 47 X1 LD18 BY LD18 BY BM 3BM
534 48 LD18 BY LD BY BM BM
535 49 X2 LD 4 BY LD BY BM 2BM 2
536 50 X1 LD 8 BY LD BY BM 2BM
537 51 X1 LD 8 BY LD 8 BY BM 2BM
538 52 X1 LD 4 BY LD 4 BY BM 2BM
539 53 LD 1 BY LD BY BM BM
540 54 X1 LD19 BY LD19 BY BM 3BM
541 55 LD19 BY LD BY BM BM
542 56 X1 LD19 BY LD BY25 BM 3BM
543 57 X1 LD 1 BY LD 2 BY BM 3BM 3500
544 58 X2 LD 1 BY LD BY BM 3BM 3
545 59 LD 6 BY LD BY BM BM
546 60 C LD20 BY LD BY BM BM 700
547 61 V LD20 BY LD BY BM BM 700
548 **BEAMLIST
549 B 1 RC
550 C 350 600 =
0-----1-----2-----3-----4-----5-----6-----7-----8

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CARD-NO

0-----1-----2-----3-----4-----5-----6-----7-----8

551	B	2	RC						
552	C	300	500	=			=		
553	B	3	RC						
554	C	300	600	=			=		
555	B	4	RC						
556	C	180	180	=			=		
557	B	5	RC						
558	C	350	1700	=			=		
559	B	6	RC						
560	C	450	1000	=			=		

561 **WALL LIST

562	W	15	150	100*	110	131	501	013	150	113	113	110	213	213	113
563	W	18	180	100*	10	132	001	013	200	213	213	213	213	213	113
564	W	20	200	100*	13	200	13	200	216	216	213	416	416	116	
565	W	25	250	100*	13	162	001	131	6200	216	216	213	416	416	116
566	W	30	300	100*	16	200	16	200	416	416	216	419	419	216	
567	W	35	350	100*	13	162	001	131	6200	416	416	216	419	419	416
568	W	40	400	100*	16	200	16	200	419	419	416	422	422	416	
569	W	45	450	100*	16	200	16	200	419	419	416	422	422	416	
570	W	50	500	100*	16	192	001	161	9200	419	419	416	622	622	419
571	W	55	550	100*	16	192	001	161	9200	422	422	416	622	622	419
572	W	60	600	100*	19	200	19	200	422	422	419	625	625	422	
573	Z	10	2	535	600	10	132	001	013	200	213	213	213	213	113
574	Z	16	2	470		10	132	001	013	200	213	213	213	213	113
575	Z	19	2	535		10	132	001	013	200	213	213	213	213	113
576	Z	21	2	583		10	132	001	013	200	213	213	213	213	113
577	Z	31	2	823		10	132	001	013	200	213	213	213	213	113
578	Z	26	2	705		10	132	001	013	200	213	213	213	213	113
579	Z	41	21	100*		10	132	001	013	200	213	213	213	213	113
580	Z	46	21	200*		10	132	001	013	200	213	213	213	213	113
581	Z	91	2	150		10	132	001	013	200	213	213	213	213	113

582 **OPEN LIST

583	A1	RB		1300	2000										
584	A2	LB		1000	2000										
585	A3	LB	1300	1500	2000										
586	A4	LB		1500	2000										
587	A5	RB		1500	2000										
588	A6	RB		2700	2400										
589	A7	LB		1500	2000	RB			1500	2000					
590	A8	RB		1600	2400										
591	A9	RB		1600	2400										
592	A0	RB		1600	2400										
593	B1	B			3000										
594	B2	B			2400										
595	B3	B		1000	2000										
596	B4	LB		3500											
597	B5	B		1000	2000										
598	B6	B	800		1200										
599	B7	RB		2000	2000										
600	B8	LB		1500											

0-----1-----2-----3-----4-----5-----6-----7-----8

CARD-NO

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0-----1-----2-----3-----4-----5-----6-----7-----8
601  B9  B      600      1500
602  B0 LB  800      300      LB 1500      300      LB 2200      300
603  C1 LB 1700      300      B      300      RB 1700      300
604  C2 LB      1800 2000
605  C3 LB      1300      RB      1300
606  C4 RB      2700
607  C5 RB      1800 2400
608  C6 LB      1600 2000
609  C7 RB      2200 2000
610  C8 RB      4700
611  C9 RB      1000 2000
612  C0 LB      1000 2000
613  D1  B      1000 2000
614  D2 LB      1600 2000
615  D3 RB      2700
616  D4 LB      1800
617  D5 RB      2700
618  D6 LB 2200      1000 2000      RB      1500 2000
619  D7 LB      1500 2400
620  D8 LB      5000
621  D9 RB      1000
622  D0 RB      1000 2000
623  E1 LB      1500 2400      LB 3300      1000 2000
624  E2 LB      5500
625  E3 RB      3000
626  E4 LB      600 2000 1500
627  E5 LB      1500
628  E6 LB      3600
629  E7 LB      4300
630  E8 RB      1100
631  E9 RB  800      1000 2000
632  **OTHER LOAD LIST
633  QQ1  20
634  +++ *PRECHECK      **      0
635  +++ *STRUCTURAL MODEL      B C E 3 6 7      2 2  MATRIX
636  **FRAME ANGLE
637  A 1      12      B 1      12
638  C 1      12      D 1      12
639  E 1      12      F 1      12
640  G 3      5      1 A      F
641  1A A      F      2 A      F
642  3 A      F      4 A      F
643  5 A      F      6 A      F
644  7 A      F      8 A      F
645  9 A      F      10 A      F
646  0A A      F      11 A      F
647  1B A      F      12 A      F
648  **COLUMN      10      99
649  C11      4      3 2 G
650  C11      8      81      F
0-----1-----2-----3-----4-----5-----6-----7-----8

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CARD-NO

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0-----1-----2-----3-----4-----5-----6-----7-----8
651  **GIRDER                20
652  G      15                A    1B1 1 5
653  G      15                A    1B1 911
654  G      15                F    1B1 1 5
655  G      15                F    1B1 812
656  G      15                B    1   5 9
657  G      15                E    1   5 8
658  G      15                B    R 2 310
659  G      15                E    R 2 11B
660  G      15                1    1B1 A F
661  G      15                12   1B1 A F
662  G      10                8 9 1   B E
663  G      10                1011 1   A F
664  G      01                2    R 2 C E
665  G      01                3    4 3 E G
666  G      01                5    4 2 E G
667  G11                      2    1B1 A B
668  G11                      C    1   11A
669  G11                      C    1B11B12
670  G11                      C    B1   11A
671  G11                      10   1B1 A B
672  G11                      4    1B1 A B
673  G11                      3    1B1 E F
674  G11                      10   1B1 E F
675  **WALL                  1    05
676  W      020                B    1   510
677  W      015                9    1   B C
678  W      015                10   1   B C
679  W      015                2    B1   C F
680  W      015                3    B1   C E
681  W      015                5    B1   C E
682  W      085                6    1   B C
683  W      1                  9    B1   C E
684  W      02                10   5 4 B C
685  W      025                9    5 4 B C
686  W      020                7    5 3 C E
687  W      06                 6    5 4 B C
688  W      01                 5    3 2 C E
689  +++ *C,MO,QD          *
690  +++ *AXIAL FORCE
691  +++ *SEISMIC FORCE
692  +++ *VERTICAL STRESS    MATRIX
693  **DRAWING *
694  +++ *DISTRIBUTE OF H.F.
695  **EQUIVALENCE OF V.D.
696  B 6 B 9 B10
697  +++ *HORIZONTAL STRESS
698  **DRAWING *
699  +++ *GIRDER CHECK
700  G    B R 4 9
0-----1-----2-----3-----4-----5-----6-----7-----8

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CARD-NO

	0	1	2	3	4	5	6	7	8
701	G	B	5	4	6				
702	G	B	4	4	6				
703	G	B	3	6	8				
704	G	B	1	4	5				
705	G	C	R	4	6				
706	G	C	5	4	6				
707	G	C	4	4	6				
708	G	C	3	4	6				
709	G	C	2	4	6				
710	G	C	1	4	6				
711	G	E	R	2	6				
712	G	E	5	2	6				
713	G	E	4	2	6				
714	G	E	3	5	7				
715	G	E	2	5	7				
716	G	E	1	2	6				
717	G	3	R	C	E				
718	G	3	5	C	E				
719	G	3	4	C	E				
720	G	3	3	C	E				
721	G	6	R	C	E				
722	G	6	5	C	E				
723	G	6	4	C	E				
724	G	6	3	C	E				
725	G	6	2	C	E				
726	G	6	1	C	E				
727	G	7	R	B	C				
728	G	7	5	B	C				
729	G	7	4	B	C				
730	G	7	3	B	C				
731	G	7	2	B	E				
732	G	7	1	B	E				
733	+++	*COLUMN CHECK							
734	C	5	B	6					
735	C	4	B	6					
736	C	5	B	7					
737	C	4	B	7					
738	C	3	B	7					
739	C	2	B	7					
740	C	1	B	7					
741	C	B1	B	7					
742	C	5	C	3					
743	C	4	C	3					
744	C	3	C	3					
745	C	2	C	3					
746	C	B1	C	3					
747	C	5	E	3					
748	C	4	E	3					
749	C	3	E	3					
750	C	2	E	3					

CARD-NO

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0-----1-----2-----3-----4-----5-----6-----7-----8
751 C 1 E 3
752 C B1 E 6
753 C 5 E 6
754 C 4 E 6
755 C 3 E 6
756 C 2 E 6
757 C 1 E 6
758 C B1 E 6
759 C 5 E 7
760 C 4 E 7
761 C 3 E 7
762 C 2 E 7
763 C 1 E 7
764 C B1 E 7
765 C 2 C 7
766 C 1 C 7
767 C B1 C 7
768 +++ *WALL CHECK
769 **RCWALL
770 B 1 5 6
771 C 1 6 7
772 6 3 B C
773 +++ *CHECK OF BEARING CAPACITY P
774 **ASSUMED RANK OF DEFORMABILITY
775 FRAMAAAAAA
776 WALLAAAAAA
777 BETABBBBCC
778 **FRAME
779 **DRAWING *
780 **B.S.WALL
781 C 3 4 R 2 05 15 2000
782 **S.WALL
783 A 1 5B1 640
784 A 911B1 640
785 B 5 9B1 640
786 B 510 1 280
787 C 1A 4B1 320
788 C 101BB1 180
789 C 2 4 1 400
790 C 6 7 1 400
791 C 8 9 1 400
792 C 6 9 5 3 190
793 E 3 5 2 340
794 E 910 2 340
795 1 A 6B1 600
796 3 D EB1 600
797 2 C FB1 850
798 4 C E 2 910
799 5 C EB1 1050
800 5 C E 3 2 810
0-----1-----2-----3-----4-----5-----6-----7-----8

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AAAAAA
AAAAAA
CCCCBC

CARD-NO

	0	1	2	3	4	5	6	7	8
801	7	C E 5 3							
802	9	C E B1							
803	9	E FB1							
804	9	A BB1							
805	11	B C 5B1							
806	6	B C 5 2							
807	6	B C 1B1							
808	9	B C 5 3							
809	9	B C 2							
810	9	B C 1							
811	10	B C 5 3							
812	10	B C 2							
813	10	B C 1B1							
814	**CALCULATION OF QU								
815	X	103 10	10		10	10			
816	Y	103 10	10		10	10			
817	+++ *END								

