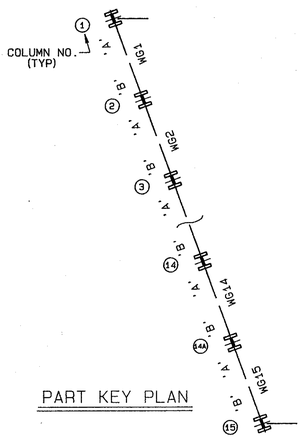
WIND GIRDERS (WEST WALL)

PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
96/2	WG1	8 TO 10	W36X280	B772	1360	253	10 1/2 X 1/2 X 2'-3 1/2 - A750	9	9 X 1 X 3'-7 1/2 - A751	12
96/5	WG2	8 TO 10	W36X280	B773	1170	234	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 1 X 3'-7 1/2 - A751	12
96/8	WG3	8 TO 10	W36X280	A771	970	197	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
	WG4	8 TO 10	W36X280	B771	1010	205	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 1 X 3'-7 1/2 - A751	12
	WG5	8 TO 10	W36X280	A771	890	181	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
	WG6	8 TO 10	W36X280	A771	810	185	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
	WG7	8 TO 10	W36X280	B771	1080	220	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 1 X 3'-7 1/2 - A751	12
	WG8	8 TO 10	W36X280	C771	1230	250	10 1/2 X 1/2 X 2'-3 1/2 - A750	9	9 X 1 X 3'-7 1/2 - A751	12
	WG9	8 TO 10	W36X280	A771	930	189	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
	WG10	8 TO 10	W36X280		880	179	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
	WG11	8 TO 10	W36X280		920	187	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
	WG12	8 TO 10	W36X280		920	187	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
96/12	WG13	8 TO 10	W36X280	A772	940	190	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
96/5	WG14	8 TO 10	W36X280	A773	950	190	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 1 X 3'-7 1/2 - A751	12
96/15	WG15	8 TO 10	W36X280	C772	970	243	10 1/2 X 1/2 X 2'-3 1/2 - A750	9	9 X 1 X 3'-7 1/2 - A751	12
96/3	WG1	11 TO 13	W36X245	D776	1110	210	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
96/6	WG2	11 TO 13	W36X245	B780	1130	226	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
96/9	WG3	11 TO 13	W36X245	C774	1030	210	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
	WG4	11 TO 13	W36X245	B774	990	201	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG5	11 TO 13	W36X245		960	195	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG6	11 TO 13	W36X245	C774	900	203	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
	WG7	11 TO 13	W36X245	B774	880	179	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG8	11 TO 13	W36X245		920	187	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG9	11 TO 13	W36X245		940	191	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG10	11 TO 13	W36X245		930	189	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG11	11 TO 13	W36X245		910	185	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG12	11 TO 13	W36X245		970	197	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/13	WG13	11 TO 13	W36X245	C776	950	192	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/6	WG14	11 TO 13	W36X245	B780	1020	204	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
96/16	WG15	11 TO 13	W36X245	C777	730	183	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10

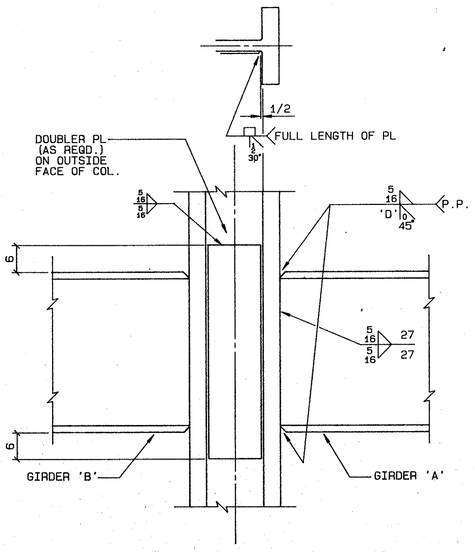


COLUMN NO. (TYP)

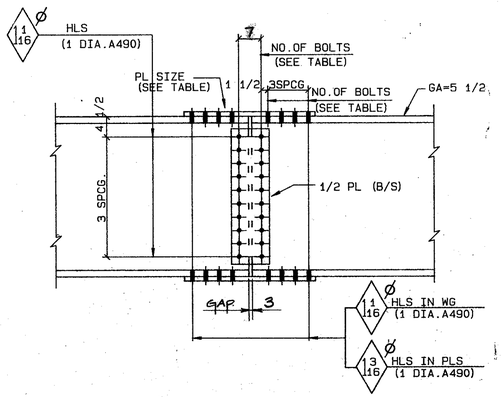
PART KEY PLAN

COLUMNS (WEST WALL)

COLUMN NO.	FLOOR	SIZE	GIRDER 'A' NO.	GIRDER 'A' SIZE	GIRDER 'A' WELD 'D'	GIRDER 'B' NO.	GIRDER 'B' SIZE	GIRDER 'B' WELD 'D'	DOUBLER PL
1	8, 9	W14X730 +WEB PLS 12 1/2 X 6	WG1	W36X280	1 3/8	-	-	-	-
1	10	W14X730	WG1	W36X280	1 3/8	-	-	-	-
2	8 TO 10	W14X665	WG2	W36X280	1 1/8	WG1	W36X280	1 3/8	-
3	8 TO 10	W14X550	WG3	W36X280	1	WG2	W36X280	1 1/8	3/8
4	8 TO 10	W14X550	WG4	W36X280	1	WG3	W36X280	1	-
5	8 TO 10	W14X500 +FLG PLS 16 X 1 1/4	WG5	W36X280	SEE DET.	WG4	W36X280	SEE DET.	3/8
6	8 TO 10	W14X500	WG6	W36X280	3/4	WG5	W36X280	7/8	-
7	8 TO 10	W14X500	WG7	W36X280	1 1/8	WG6	W36X280	3/4	3/8
8	8, 9	W14X550 +FLG PLS 16 X 1	WG8	W36X280	SEE DET.	WG7	W36X280	SEE DET.	1/2
8	10	W14X500	WG8	W36X280	1 1/4	WG7	W36X280	1 1/8	7/8
9	8 TO 10	W14X500	WG9	W36X280	7/8	WG8	W36X280	1 1/4	5/8
10	8 TO 10	W14X500	WG10	W36X280	7/8	WG9	W36X280	7/8	-
11	8 TO 10	W14X500	WG11	W36X280	7/8	WG10	W36X280	7/8	-
12	8, 9	W14X550	WG12	W36X280	7/8	WG11	W36X280	7/8	-
12	10	W14X500	WG12	W36X280	7/8	WG11	W36X280	7/8	-
13	8 TO 10	W14X550	WG13	W36X280	1	WG12	W36X280	7/8	-
14	8 TO 10	W14X550	WG14	W36X280	1	WG13	W36X280	1	-
14A	8 TO 10	W14X665	WG15	W36X280	1	WG14	W36X280	1	-
15	8 TO 10	W14X730	-	-	-	WG15	W36X280	1	-
1	11 TO 13	W14X730	WG1	W36X245	1 1/8	-	-	-	-
2	11 TO 13	W14X665	WG2	W36X245	1 1/8	WG1	W36X245	1 1/8	-
3	11 TO 13	W14X550	WG3	W36X245	1	WG2	W36X245	1 1/8	3/8
4	11 TO 13	W14X550	WG4	W36X245	1	WG3	W36X245	1	-
5	11 TO 13	W14X500 +FLG PLS 16 X 1 1/4	WG5	W36X245	SEE DET.	WG4	W36X245	SEE DET.	3/8
6	11 TO 13	W14X500	WG6	W36X245	7/8	WG5	W36X245	1	3/8
7	11 TO 13	W14X500	WG7	W36X245	7/8	WG6	W36X245	7/8	-
8	11 TO 13	W14X500	WG8	W36X245	7/8	WG7	W36X245	7/8	-
9	11 TO 13	W14X500	WG9	W36X245	1	WG8	W36X245	7/8	3/8
10	11 TO 13	W14X500	WG10	W36X245	7/8	WG9	W36X245	1	3/8
11	11 TO 13	W14X500	WG11	W36X245	7/8	WG10	W36X245	7/8	-
12	11 TO 13	W14X500	WG12	W36X245	1	WG11	W36X245	7/8	3/8
13	11 TO 13	W14X550	WG13	W36X245	1	WG12	W36X245	1	-
14	11 TO 13	W14X550	WG14	W36X245	1	WG13	W36X245	1	-
14A	11 TO 13	W14X665	WG15	W36X245	3/4	WG14	W36X245	1	-
15	11 TO 13	W14X730	-	-	-	WG15	W36X245	3/4	-

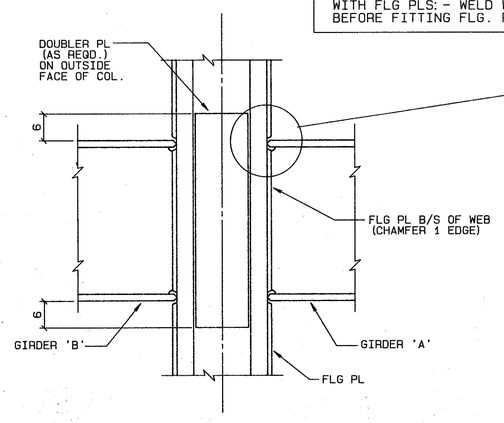


TYP. SHOP WELDED WIND GIRDER CONN. AT COLUMN

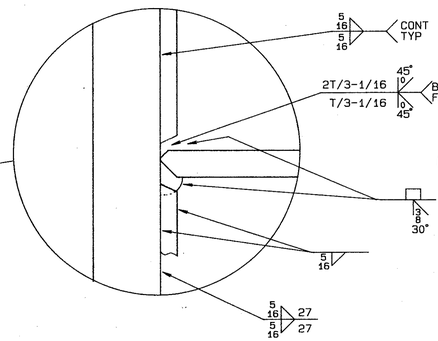


TYP. MID SPAN WIND GIRDER CONN.

DETAILER NOTE:
ADD SHOP NOTE AT COLS WITH FLG PLS: - WELD W.G. BEFORE FITTING FLG. PLS



TYP. SHOP WELDED WIND GIRDER CONN. AT COLUMN WITH FLG. PL'S



FOR CALCULATIONS SEE SKETCHES MC1 TO MC5 ISSUED BY J.WEIR.

2

NOTES

STEEL GRADES - WIND GIRDERS A36, COLS A36, CONN MAT'L 44W
WELDING E70 SERIES ELECTRODES

BOLTS
FLG CONNECTIONS 1"A490F (OVS HLS) 14.9 KIPS/BOLT S.S.
(1 1/16 HLS IN FLGS-1 3/16 HLS IN PLS) 2/WASH EACH BOLT
WEB CONNECTIONS 1"A490F (STD HLS) 17.3 KIPS/BOLT S.S.

July 8/85

REV #	DESCRIPTION	DATE	MADE BY	X NO.
2	TO APPROV	MAY14/85	GM	
1	GEN'L REV	15APR85	MK	

SPEC	AS NOTED	FRANKEL STEEL LIMITED					
HOLES	AS NOTED	220 ATTWELL DRIVE, UNIT 1, REXDALE, ONTARIO M9W 5B2					
FINISH							
MADE RJ/GM	DATE MAR/85	SQUAD	PROJECT: 7 WORLD TRADE CENTER		CONTRACT	DWG. NO.	REV.
CHK'D HL	DATE APR/85	FR	DETAIL: WIND GIRD. CONN'S WEST ELEV. 8TH TO 13TH		84-15	9106	