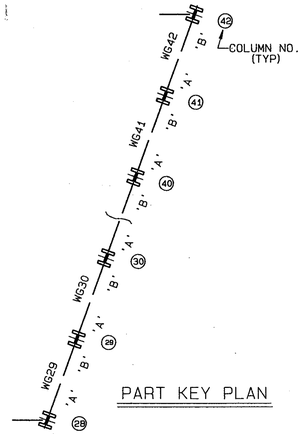
WIND GIRDERS (EAST WALL)

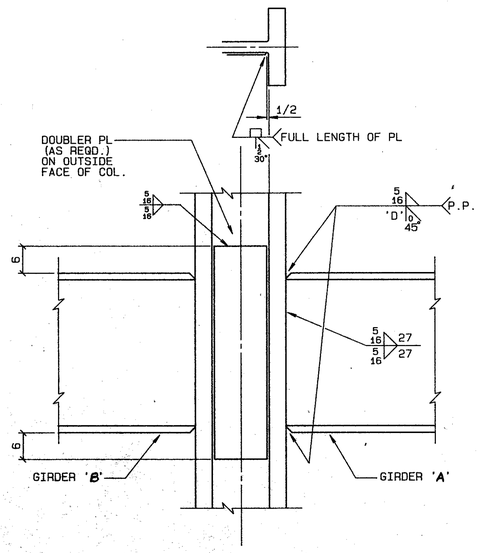
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
97/10	WG29	8 TO 10	W36X245	B775	1310	234	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
96/9	WG30	8 TO 10	W36X245	C774	1040	212	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
	WG31	8 TO 10	W36X245	B774	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
	WG32	8 TO 10	W36X245	C774	970	217	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
	WG33	8 TO 10	W36X245	B774	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
	WG34	8 TO 10	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
	WG35	8 TO 10	W36X245	C774	1010	205	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
	WG36	8 TO 10	W36X245	⌐	1010	205	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
	WG37	8 TO 10	W36X245	⊥	980	219	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
	WG38	8 TO 10	W36X245	B774	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
	WG39	8 TO 10	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
	WG40	8 TO 10	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
	WG41	8 TO 10	W36X245	C774	1020	207	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 7/8 X 3'-1 1/2 - B751	10
97/12	WG42	8 TO 10	W36X245	D777	1280	244	10 1/2 X 1/2 X 2'-3 1/2 - A750	9	9 X 7/8 X 3'-1 1/2 - B751	10
97/11	WG29	11 TO 13	W36X210	B783	980	180	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
96/11	WG30	11 TO 13	W36X210	B782	940	191	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG31	11 TO 13	W36X210	⊥	920	187	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG32	11 TO 13	W36X210	C782	950	213	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 3/4 X 2'-7 1/2 - C751	8
	WG33	11 TO 13	W36X210	B782	950	193	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG34	11 TO 13	W36X210	⌐	970	197	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG35	11 TO 13	W36X210	⌐	980	199	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG36	11 TO 13	W36X210	⊥	980	199	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG37	11 TO 13	W36X210	C782	960	215	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 3/4 X 2'-7 1/2 - C751	8
	WG38	11 TO 13	W36X210	B782	950	193	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG39	11 TO 13	W36X210	⌐	950	193	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG40	11 TO 13	W36X210	⌐	920	187	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG41	11 TO 13	W36X210	⊥	950	193	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
97/13	WG42	11 TO 13	W36X210	D783	890	176	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	*8



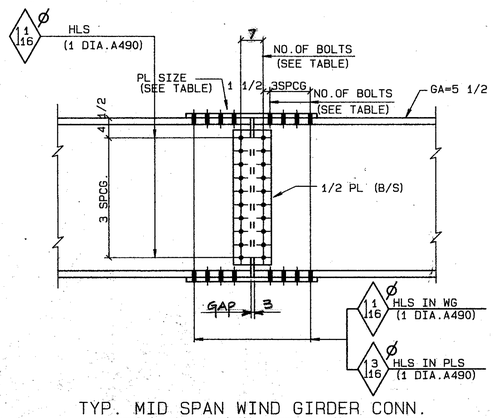
PART KEY PLAN

COLUMNS (EAST 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
28	8, 9	W14X730 +2 WEB PLS 12 1/2 X 6	WG29	W36X245	1 1/4	–	–	–	–
28	10	W14X730	WG29	W36X245	1 1/4	–	–	–	–
29	8 TO 10	W14X665	WG30	W36X245	1	WG29	W36X245	1 1/4	–
30	8 TO 10	W14X550	WG31	W36X245	1	WG30	W36X245	1	–
31	8 TO 10	W14X550	WG32	W36X245	1	WG31	W36X245	1	–
32	8 TO 10	W14X500	WG33	W36X245	1	WG32	W36X245	1	3/8
33	8 TO 10	W14X500	WG34	W36X245	1	WG33	W36X245	1	3/8
34	8 TO 10	W14X500	WG35	W36X245	1	WG34	W36X245	1	3/8
35	8 TO 10	W14X500	WG36	W36X245	1	WG35	W36X245	1	1/2
36	8 TO 10	W14X500	WG37	W36X245	1	WG36	W36X245	1	1/2
37	8 TO 10	W14X500	WG38	W36X245	1	WG37	W36X245	1	3/8
38	8 TO 10	W14X500	WG39	W36X245	1	WG38	W36X245	1	3/8
39	8 TO 10	W14X550	WG40	W36X245	1	WG39	W36X245	1	–
40	8 TO 10	W14X550	WG41	W36X245	1	WG40	W36X245	1	–
41	8 TO 10	W14X665	WG42	W36X245	1 1/4	WG41	W36X245	1	–
42	8, 9	W14X730 +2 WEB PLS 12 1/2 X 6	–	–	–	WG42	W36X245	1 1/4	–
42	10	W14X730	–	–	–	WG42	W36X245	1 1/4	–
28	11 TO 13	W14X730	WG29	W36X210	1 1/4	–	–	–	–
29	11 TO 13	W14X665	WG30	W36X210	1 1/4	WG29	W36X210	1 1/4	–
30	11 TO 13	W14X550	WG31	W36X210	1 1/4	WG30	W36X210	1 1/4	–
31	11 TO 13	W14X550	WG32	W36X210	1 1/4	WG31	W36X210	1 1/4	–
32	11 TO 13	W14X500	WG33	W36X210	1 1/4	WG32	W36X210	1 1/4	3/8
33	11 TO 13	W14X500	WG34	W36X210	1 1/4	WG33	W36X210	1 1/4	3/8
34	11 TO 13	W14X500	WG35	W36X210	1 1/4	WG34	W36X210	1 1/4	3/8
35	11 TO 13	W14X500	WG36	W36X210	1 1/4	WG35	W36X210	1 1/4	3/8
36	11 TO 13	W14X500	WG37	W36X210	1 1/4	WG36	W36X210	1 1/4	3/8
37	11 TO 13	W14X500	WG38	W36X210	1 1/4	WG37	W36X210	1 1/4	3/8
38	11 TO 13	W14X500	WG39	W36X210	1 1/4	WG38	W36X210	1 1/4	3/8
39	11 TO 13	W14X550	WG40	W36X210	1 1/4	WG39	W36X210	1 1/4	–
40	11 TO 13	W14X550	WG41	W36X210	1 1/4	WG40	W36X210	1 1/4	–
41	11 TO 13	W14X665	WG42	W36X210	1 1/8	WG41	W36X210	1 1/4	–
42	11 TO 13	W14X730	–	–	–	WG42	W36X210	1 1/8	–



TYP. SHOP WELDED WIND GIRDER CONN. AT COLUMN



TYP. MID SPAN WIND GIRDER CONN.

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 8/85E

REV #	DESCRIPTION	DATE	MADE BY	X NO.
1	GEN'L REV.	15APR85	MK	

SPEC.	AS NOTED						
HOLES	AS NOTED						
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 EAST ELEV. 8TH TO 13TH		84-15	9111	

FRANKEL STEEL LIMITED
220 ATTWELL DRIVE, UNIT 1, REXDALE, ONTARIO M9W 5B2