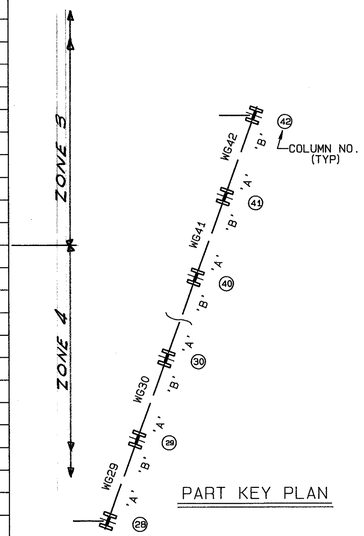
WIND GIRDERS (EAST WALL)

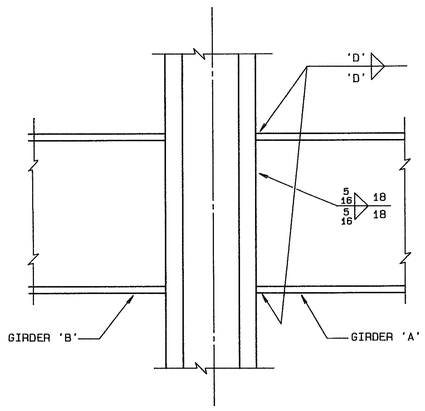
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
137/5	WG29	36, 37	W36X170	B759	400	85	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
137/6	WG30	36, 37	W36X170	A759	370	75	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG31	36, 37	W36X170		410	83	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG32	36, 37	W36X170		460	114	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG33	36, 37	W36X170		490	100	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG34	36, 37	W36X170		530	108	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG35	36, 37	W36X170		530	108	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG36	36, 37	W36X170		530	108	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG37	36, 37	W36X170		510	124	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG38	36, 37	W36X170		480	98	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG39	36, 37	W36X170		460	94	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG40	36, 37	W36X170		400	81	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG41	36, 37	W36X170		360	73	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
137/7	WG42	36, 37	W36X170	C759	380	87	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/13	WG29	38, 39	W36X170	B791	330	74	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/14	WG30	38, 39	W36X170	A791	290	59	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG31	38, 39	W36X170		330	67	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG32	38, 39	W36X170		380	97	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG33	38, 39	W36X170		410	83	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG34	38, 39	W36X170		460	94	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG35	38, 39	W36X170		460	94	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG36	38, 39	W36X170		460	94	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG37	38, 39	W36X170		440	110	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG38	38, 39	W36X170		400	81	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG39	38, 39	W36X170		380	77	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG40	38, 39	W36X170		330	67	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG41	38, 39	W36X170		290	59	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/15	WG42	38, 39	W36X170	C791	310	74	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8



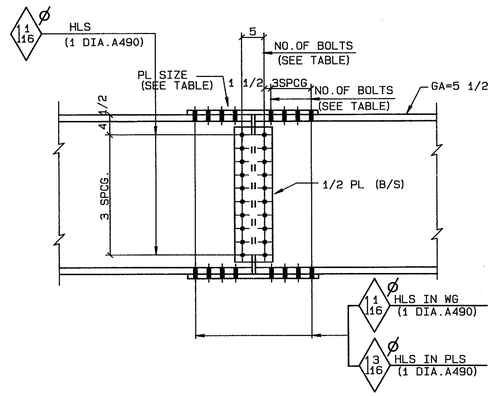
PART KEY PLAN

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	36, 37	W14X342	WG29	W36X170	7/16	–	–	–	–
29	36, 37	W14X283	WG30	W36X170	7/16	WG29	W36X170	7/16	–
30	36, 37	W14X283	WG31	W36X170	1/2	WG30	W36X170	7/16	–
31	36, 37	W14X311	WG32	W36X170	1/2	WG31	W36X170	1/2	–
32	36, 37	W14X311	WG33	W36X170	9/16	WG32	W36X170	1/2	–
33	36, 37	W14X342	WG34	W36X170	5/8	WG33	W36X170	9/16	–
34	36, 37	W14X370	WG35	W36X170	5/8	WG34	W36X170	5/8	–
35	36, 37	W14X370	WG36	W36X170	5/8	WG35	W36X170	5/8	–
36	36, 37	W14X370	WG37	W36X170	9/16	WG36	W36X170	5/8	–
37	36, 37	W14X342	WG38	W36X170	9/16	WG37	W36X170	9/16	–
38	36, 37	W14X311	WG39	W36X170	1/2	WG38	W36X170	9/16	–
39	36, 37	W14X311	WG40	W36X170	1/2	WG39	W36X170	1/2	–
40	36, 37	W14X283	WG41	W36X170	7/16	WG40	W36X170	1/2	–
41	36, 37	W14X283	WG42	W36X170	7/16	WG41	W36X170	7/16	–
42	36, 37	W14X342	–	–	–	WG42	W36X170	7/16	–
28	38, 39	W14X283	WG29	W36X170	3/8	–	–	–	–
29	38, 39	W14X233	WG30	W36X170	3/8	WG29	W36X170	3/8	–
30	38, 39	W14X233	WG31	W36X170	3/8	WG30	W36X170	3/8	–
31	38, 39	W14X283	WG32	W36X170	7/16	WG31	W36X170	3/8	–
32	38, 39	W14X283	WG33	W36X170	1/2	WG32	W36X170	7/16	–
33	38, 39	W14X311	WG34	W36X170	1/2	WG33	W36X170	1/2	–
34	38, 39	W14X342	WG35	W36X170	1/2	WG34	W36X170	1/2	–
35	38, 39	W14X342	WG36	W36X170	1/2	WG35	W36X170	1/2	–
36	38, 39	W14X342	WG37	W36X170	1/2	WG36	W36X170	1/2	–
37	38, 39	W14X311	WG38	W36X170	7/16	WG37	W36X170	1/2	–
38	38, 39	W14X283	WG39	W36X170	7/16	WG38	W36X170	7/16	–
39	38, 39	W14X283	WG40	W36X170	3/8	WG39	W36X170	7/16	–
40	38, 39	W14X233	WG41	W36X170	3/8	WG40	W36X170	3/8	–
41	38, 39	W14X233	WG42	W36X170	3/8	WG41	W36X170	3/8	–
42	38, 39	W14X283	–	–	–	WG42	W36X170	3/8	–



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.

REV #	DESCRIPTION	DATE	MADE BY	X NO.
2				
1				

SPEC AS NOTED				FRANKEL STEEL LIMITED			
HOLES AS NOTED				220 ATTWELL DRIVE, UNIT 1, REXDALE, ONTARIO M9W 5B2			
FINISH							
MADE GM	DATE MAY/85	SQUAD	PROJECT: 7 WORLD TRADE CENTER	CONTRACT	DWG. NO.	REV	
CHK'D WJF	DATE MAY 14/85	FR	DETAIL: WIND GIRD. CONN'S EAST ELEV. 36TH TO 39TH	84-152	9126		