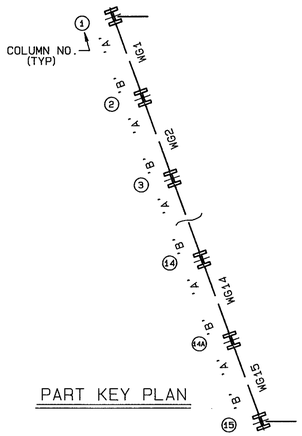
WIND GIRDERS (WEST WALL)

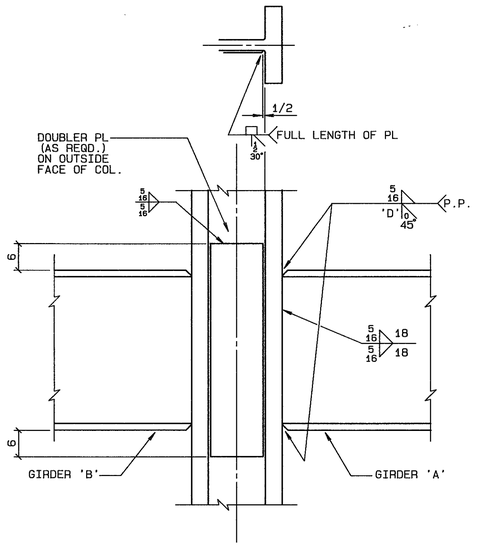
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	MID SPAN CONN FLG PL	FLG BOLTS
136/2	WG1	30, 31	W36X210	A755	630	128	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/3	WG2	30, 31	W36X210	B754	520	104	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/4	WG3	30, 31	W36X210	A754	560	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
	WG4	30, 31	W36X210		580	118	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG5	30, 31	W36X210		590	120	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG6	30, 31	W36X210		610	144	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG7	30, 31	W36X210		650	132	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG8	30, 31	W36X210		660	134	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG9	30, 31	W36X210		640	130	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG10	30, 31	W36X210		780	159	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG11	30, 31	W36X210		580	118	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG12	30, 31	W36X210		570	116	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/5	WG13	30, 31	W36X210	B755	550	111	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/3	WG14	30, 31	W36X210	B754	540	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
136/6	WG15	30, 31	W36X210	C755	500	125	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/2	WG1	32, 33	W36X210	A755	540	113	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/3	WG2	32, 33	W36X210	B754	460	92	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/4	WG3	32, 33	W36X210	A754	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
	WG4	32, 33	W36X210		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
	WG5	32, 33	W36X210		560	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
	WG6	32, 33	W36X210		660	154	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG7	32, 33	W36X210		570	116	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG8	32, 33	W36X210		570	116	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG9	32, 33	W36X210		660	134	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG10	32, 33	W36X210		560	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
	WG11	32, 33	W36X210		550	112	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG12	32, 33	W36X210		510	104	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/5	WG13	32, 33	W36X210	B755	480	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
136/3	WG14	32, 33	W36X210	B754	470	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
136/6	WG15	32, 33	W36X210	C755	400	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



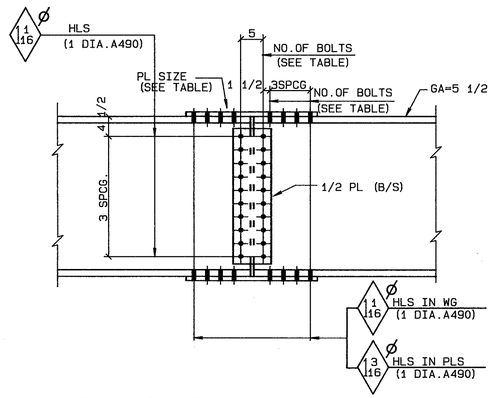
PART KEY PLAN

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	30, 31	W14X550	WG1	W36X210	7/8		-	-	-	-
2	30, 31	W14X370	WG2	W36X210	3/4		WG1	W36X210	7/8	-
3	30, 31	W14X370	WG3	W36X210	3/4		WG2	W36X210	3/4	-
4	30, 31	W14X370	WG4	W36X210	3/4		WG3	W36X210	3/4	-
5	30, 31	W14X370	WG5	W36X210	3/4		WG4	W36X210	3/4	-
6	30, 31	W14X370	WG6	W36X210	7/8		WG5	W36X210	3/4	-
7	30, 31	W14X398	WG7	W36X210	7/8		WG6	W36X210	7/8	-
8	30, 31	W14X426	WG8	W36X210	7/8		WG7	W36X210	7/8	-
9	30, 31	W14X426	WG9	W36X210	7/8		WG8	W36X210	7/8	-
10	30, 31	W14X398	WG10	W36X210	1		WG9	W36X210	7/8	3/8
11	30, 31	W14X370	WG11	W36X210	3/4		WG10	W36X210	1	3/8
12	30, 31	W14X370	WG12	W36X210	3/4		WG11	W36X210	3/4	-
13	30, 31	W14X370	WG13	W36X210	3/4		WG12	W36X210	3/4	-
14	30, 31	W14X370	WG14	W36X210	3/4		WG13	W36X210	3/4	-
14A	30, 31	W14X370	WG15	W36X210	3/4		WG14	W36X210	3/4	-
15	30, 31	W14X550	-	-	-		WG15	W36X210	3/4	-
1	32, 33	W14X455	WG1	W36X210	3/4		-	-	-	-
2	32, 33	W14X342	WG2	W36X210	5/8		WG1	W36X210	3/4	-
3	32, 33	W14X342	WG3	W36X210	5/8		WG2	W36X210	5/8	-
4	32, 33	W14X342	WG4	W36X210	3/4		WG3	W36X210	5/8	-
5	32, 33	W14X370	WG5	W36X210	3/4		WG4	W36X210	3/4	-
6	32, 33	W14X370	WG6	W36X210	7/8		WG5	W36X210	3/4	-
7	32, 33	W14X398	WG7	W36X210	3/4		WG6	W36X210	7/8	-
8	32, 33	W14X398	WG8	W36X210	3/4		WG7	W36X210	3/4	-
9	32, 33	W14X398	WG9	W36X210	7/8		WG8	W36X210	3/4	-
10	32, 33	W14X398	WG10	W36X210	3/4		WG9	W36X210	7/8	-
11	32, 33	W14X370	WG11	W36X210	3/4		WG10	W36X210	3/4	-
12	32, 33	W14X370	WG12	W36X210	3/4		WG11	W36X210	3/4	-
13	32, 33	W14X342	WG13	W36X210	5/8		WG12	W36X210	3/4	-
14	32, 33	W14X342	WG14	W36X210	5/8		WG13	W36X210	5/8	-
14A	32, 33	W14X342	WG15	W36X210	5/8		WG14	W36X210	5/8	-
15	32, 33	W14X455	-	-	-		WG15	W36X210	5/8	-



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 WEST ELEV. 30TH TO 33RD		84-152	9118		