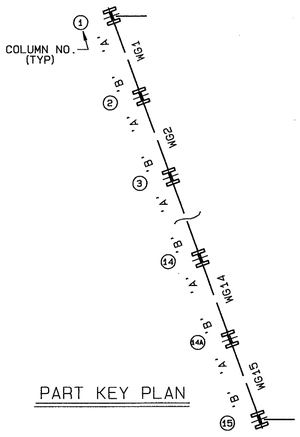
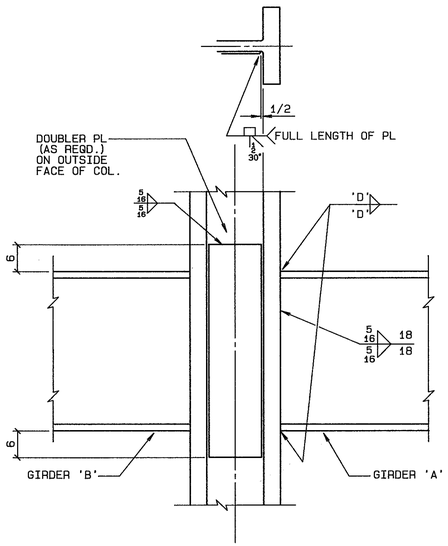
WIND GIRDERS (WEST WALL)

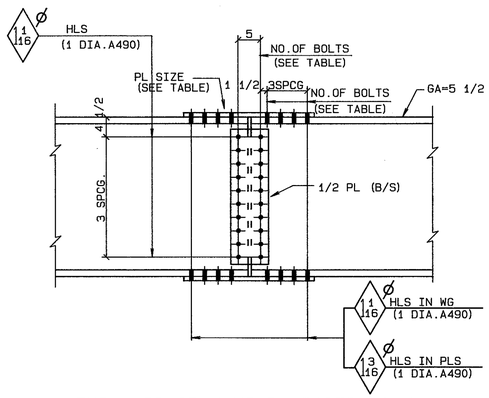
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
140/2	WG1	40, 41, 42	W36X170	A797	310	73	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
140/3	WG2	40, 41, 42	W36X170	B796	270	54	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
140/4	WG3	40, 41, 42	W36X170	A796	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
	WG4	40, 41, 42	W36X170		300	61	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	40, 41, 42	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
	WG6	40, 41, 42	W36X170		370	95	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	40, 41, 42	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
	WG8	40, 41, 42	W36X170		390	79	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	40, 41, 42	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
	WG10	40, 41, 42	W36X170		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
	WG11	40, 41, 42	W36X170		320	65	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	40, 41, 42	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
140/5	WG13	40, 41, 42	W36X170	B797	280	57	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
140/3	WG14	40, 41, 42	W36X170	B796	270	54	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
140/6	WG15	40, 41, 42	W36X170	C797	210	53	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
140/7	WG1	43	W36X150	A799	230	59	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
140/8	WG2	43	W36X150	B798	190	38	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
140/9	WG3	43	W36X150	A792	200	41	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG4	43	W36X150		230	47	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG5	43	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG6	43	W36X150		260	73	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG7	43	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG8	43	W36X150		260	53	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG9	43	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG10	43	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG11	43	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG12	43	W36X150		220	45	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
140/10	WG13	43	W36X150	B799	200	40	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
140/8	WG14	43	W36X150	B798	200	40	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
140/11	WG15	43	W36X150	C799	170	43	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6



PART KEY PLAN



TYP. SHOP WELDED WIND GIRDER CONN. AT COLUMN



TYP. MID SPAN WIND GIRDER CONN.

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	40, 41	W14X233	WG1	W36X170	3/8	–	–	–	–
2	40, 41	W14X211	WG2	W36X170	5/16	WG1	W36X170	3/8	–
3	40, 41	W14X211	WG3	W36X170	3/8	WG2	W36X170	5/16	–
4	40, 41	W14X211	WG4	W36X170	3/8	WG3	W36X170	3/8	–
5	40, 41	W14X257	WG5	W36X170	3/8	WG4	W36X170	3/8	–
6	40, 41	W14X257	WG6	W36X170	7/16	WG5	W36X170	3/8	–
7	40, 41	W14X311	WG7	W36X170	7/16	WG6	W36X170	7/16	–
8	40, 41	W14X311	WG8	W36X170	7/16	WG7	W36X170	7/16	–
9	40, 41	W14X311	WG9	W36X170	7/16	WG8	W36X170	7/16	–
10	40, 41	W14X311	WG10	W36X170	7/16	WG9	W36X170	7/16	–
11	40, 41	W14X257	WG11	W36X170	3/8	WG10	W36X170	7/16	–
12	40, 41	W14X257	WG12	W36X170	3/8	WG11	W36X170	3/8	–
13	40, 41	W14X211	WG13	W36X170	5/16	WG12	W36X170	3/8	–
14	40, 41	W14X211	WG14	W36X170	5/16	WG13	W36X170	5/16	–
14A	40, 41	W14X211	WG15	W36X170	5/16	WG14	W36X170	5/16	–
15	40, 41	W14X233	–	–	–	WG15	W36X170	5/16	–
1	42	W14X193	WG1	W36X170	3/8	–	–	–	–
2	42	W14X176	WG2	W36X170	5/16	WG1	W36X170	3/8	3/8
3	42	W14X176	WG3	W36X170	3/8	WG2	W36X170	5/16	3/8
4	42	W14X176	WG4	W36X170	3/8	WG3	W36X170	3/8	3/8
5	42	W14X193	WG5	W36X170	3/8	WG4	W36X170	3/8	3/8
6	42	W14X193	WG6	W36X170	7/16	WG5	W36X170	3/8	3/8
7	42	W14X257	WG7	W36X170	7/16	WG6	W36X170	7/16	–
8	42	W14X257	WG8	W36X170	7/16	WG7	W36X170	7/16	–
9	42	W14X257	WG9	W36X170	7/16	WG8	W36X170	7/16	–
10	42	W14X257	WG10	W36X170	7/16	WG9	W36X170	7/16	–
11	42	W14X193	WG11	W36X170	3/8	WG10	W36X170	7/16	3/8
12	42	W14X193	WG12	W36X170	3/8	WG11	W36X170	3/8	3/8
13	42	W14X176	WG13	W36X170	5/16	WG12	W36X170	3/8	3/8
14	42	W14X176	WG14	W36X170	5/16	WG13	W36X170	5/16	3/8
14A	42	W14X176	WG15	W36X170	5/16	WG14	W36X170	5/16	–
15	42	W14X193	–	–	–	WG15	W36X170	5/16	–
1	43	W14X193	WG1	W36X150	5/16	–	–	–	–
2	43	W14X176	WG2	W36X150	5/16	WG1	W36X150	5/16	–
3	43	W14X176	WG3	W36X150	5/16	WG2	W36X150	5/16	–
4	43	W14X176	WG4	W36X150	5/16	WG3	W36X150	5/16	–
5	43	W14X193	WG5	W36X150	5/16	WG4	W36X150	5/16	–
6	43	W14X193	WG6	W36X150	5/16	WG5	W36X150	5/16	–
7	43	W14X257	WG7	W36X150	5/16	WG6	W36X150	5/16	–
8	43	W14X257	WG8	W36X150	5/16	WG7	W36X150	5/16	–
9	43	W14X257	WG9	W36X150	5/16	WG8	W36X150	5/16	–
10	43	W14X257	WG10	W36X150	5/16	WG9	W36X150	5/16	–
11	43	W14X193	WG11	W36X150	5/16	WG10	W36X150	5/16	–
12	43	W14X193	WG12	W36X150	5/16	WG11	W36X150	5/16	–
13	43	W14X176	WG13	W36X150	5/16	WG12	W36X150	5/16	–
14	43	W14X176	WG14	W36X150	5/16	WG13	W36X150	5/16	–
14A	43	W14X176	WG15	W36X150	5/16	WG14	W36X150	5/16	–
15	43	W14X193	–	–	–	WG15	W36X150	5/16	–

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 MAY85	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. 40TH TO 43RD		84-152	9121	