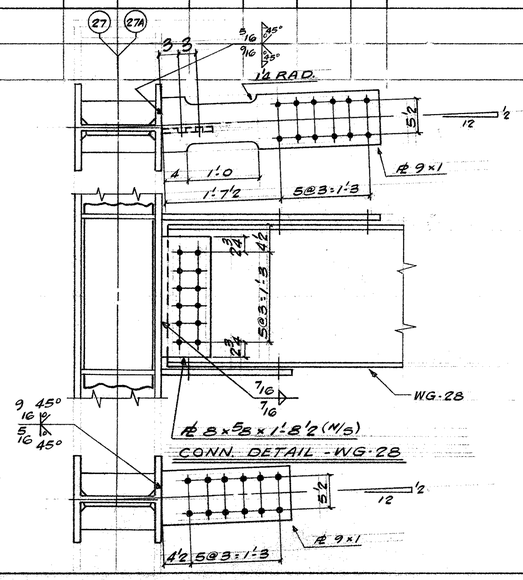
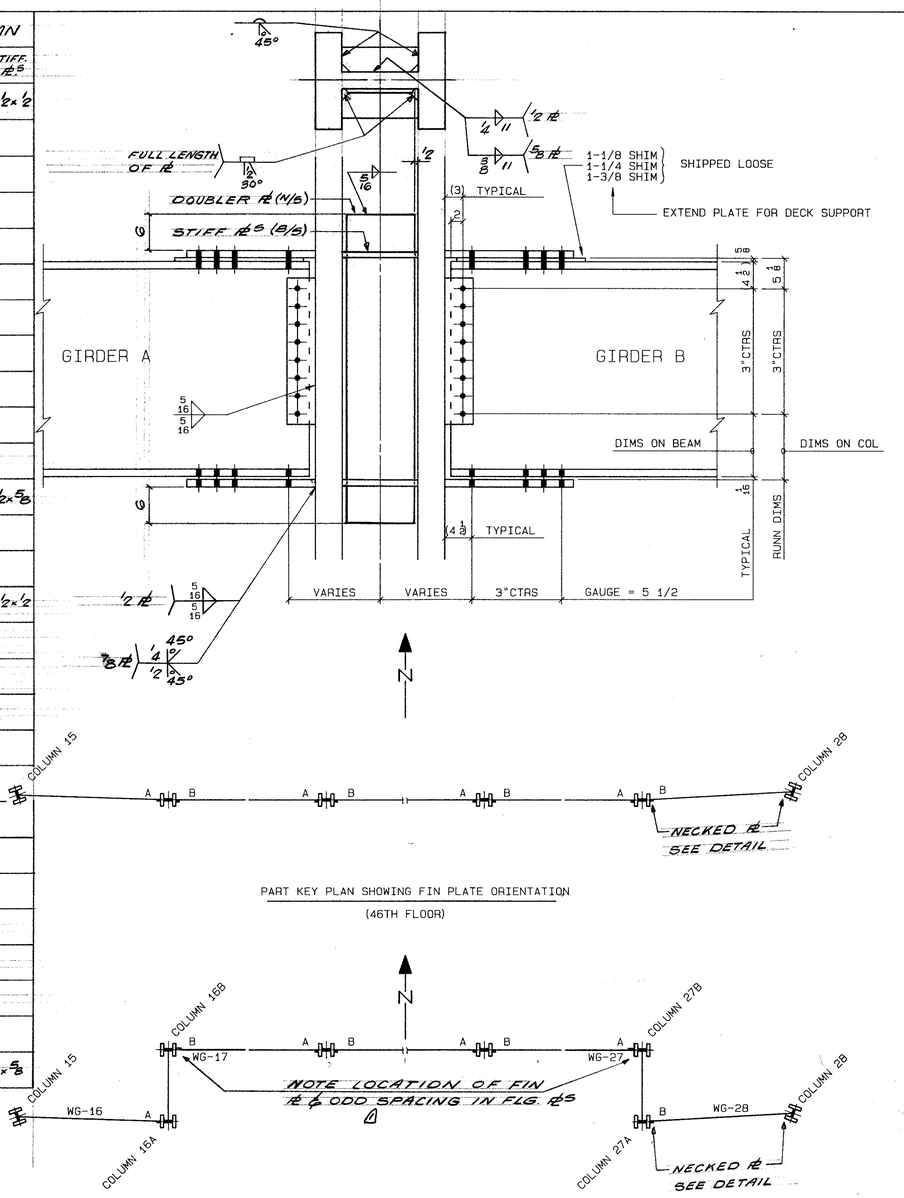
COL NO.	FLOOR	COL. SIZE	GIRDER A									GIRDER B									COLUMN	
			WG NO.	SIZE		MOM'K	SHEAR	FLG. BOLT	FLANGE PLATE	WEB BOLT	WEB PLATE	WG NO.	SIZE		MOM'K	SHEAR	FLG. BOLT	FLANGE PLATE	WEB BOLT	WEB PLATE	DOUBLER PL	STIFF PLS
16	46	W14X109	WG-16	W24X76	SLOPING	300	150	12	9X7/8X1-9 1/2	12	SEE WG-28	WG-17	W24X76		100	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	11/2x1/2	3/2x1/2
17	46	W14X120	WG-17	W24X76		100	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-18	W24X76		130	69	6	9X1/2X1-0 1/2 S752	6	5X1/2X1-G1/2 C753		
18	46	W14X159	WG-18	W24X76		130	105	6	9X1/2X1-0 1/2 S752	6	5X1/2X1-G1/2 C753	WG-19	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
19	46	W14X159	WG-19	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-20	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
20	46	W14X176	WG-20	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-21	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
21	46	W14X176	WG-21	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-22	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
22	46	W14X176	WG-22	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-23	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
23	46	W14X176	WG-23	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-24	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
24	46	W14X159	WG-24	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-25	W24X76		170	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
25	46	W14X159	WG-25	W24X76		170	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-26	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
26	46	W14X120	WG-26	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-27	W24X76		150	66	6	9X1/2X1-0 1/2 S752	6	5X1/2X1-G1/2 C753	11/2x3/8	
27	46	W14X109	WG-27	W24X76		150	100	6	9X1/2X1-0 1/2 S752	6	5X1/2X1-G1/2 C753	WG-28	W24X76	SLOPING	352	150	12	SPECIAL SEE DETAIL	12	SEE DETAIL	11/2x3/8 (2)	3/2x5/8
																					(2) 1/2	
P16A	47	W14X99	WG-16	W24X76	SLOPING	300	90	12	9X7/8X1-9 1/2	6	5x1/2x1-6 1/2 C753										11/2x3/8	3/2x1/2
P16B	47	W14X99										WG-17	W24X76		100	65	6	~~9X1/2X1-0 1/2 S752~~ (1)	4	5X1/2X1-0 1/2 H753		
P17	47	W14X99	WG-17	W24X76		100	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-18	W24X76		130	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-O1/2 H753	11/2x3/8	
P18	47	W14X120	WG-18	W24X76		130	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-O1/2 H753	WG-19	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
P19	47	W14X120	WG-19	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-20	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
P20	47	W14X120	WG-20	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-21	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
P21	47	W14X120	WG-21	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-22	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
P22	47	W14X120	WG-22	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-23	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
P23	47	W14X120	WG-23	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-24	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753		
P24	47	W14X120	WG-24	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-25	W24X76		170	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	11/2x3/8	
P25	47	W14X120	WG-25	W24X76		170	65	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-26	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	11/2x3/8	
P26	47	W14X99	WG-26	W24X76		110	62	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	WG-27	W24X76		150	66	6	9X1/2X1-0 1/2 S752	4	5X1/2X1-0 1/2 H753	11/2x3/8	
P27B	47	W14X99	WG-27	W24X76		150	66	6	~~9X1/2X1-0 1/2 S752~~ (1)	4	5X1/2X1-0 1/2 H753											
P27A	47	W14X99										WG-28	W24X76	SLOPING	352	95	12	SPECIAL SEE DETAIL	6	5x11/2x1-G1/2 C753	11/2x1/2	4x5/8





PART KEY PLAN SHOWING FIN PLATE ORIENTATION

(46TH FLOOR)

PART KEY PLAN SHOWING FIN PLATE ORIENTATION

(47TH FLOOR)

NOTES

STEEL GRADES BEAMS A36, COLS A36, CONN MAT'L 44W
WELDING E70 SERIES ELECTRODES

BOLTS
" FLG CONNECTIONS 1"A490F (OVS HLS) 14.9 KIPS
(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

REV #	DESCRIPTION	DATE	MADE BY	X NO.
(2)	COL 27 @ 46TH FLR.	JAN/86	GM	
(1)	NOTE ADDED	DEC/85	GM	

SPEC	AS NOTED				
HOLES	AS NOTED				
FINISH					
MADE WJF	DATE MAY/85	SQUAD	PROJECT: 7 WORLD TRADE CENTER	CONTRACT	DWG. NO. / REV
CHK'D D.Z.	DATE OCT.8/85	FR	DETAIL: WG-16 TO WG-28 46TH & 47TH FL	84-153	9141

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