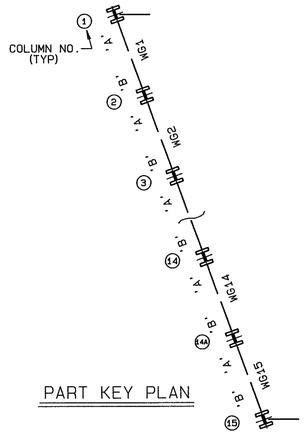
## WIND GIRDERS (WEST WALL)

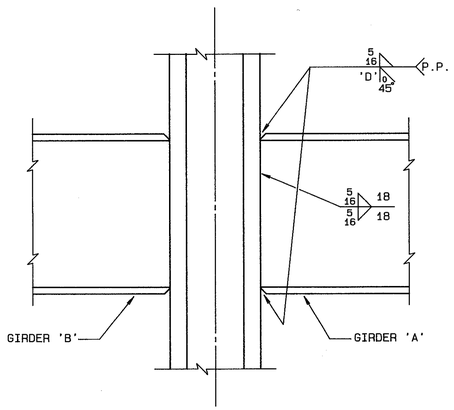
| PG/LINE | WG NO. | FLOOR | SIZE | CUT FROM | MOMENT FT KIPS | SHEAR KIPS | MID SPAN CONN WEB PL | WEB BOLTS | FLG PL | FLG BOLTS |
|---|---|---|---|---|---|---|---|---|---|---|
| 136/2 | WG1 | 25 | W36X210 | A755 | 710 | 142 | 8 1/2 X 1/2 X 1'-6 1/2 - A787 | 6 | 9 X 3/4 X 2'-5 1/2 - A786 | 8 |
| 136/3 | WG2 | 25 | W36X210 | B754 | 620 | 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 |
| 136/4 | WG3 | 25 | W36X210 | A754 | 610 | 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 |
| | WG4 | 25 | W36X210 | | 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 |
| | WG5 | 25 | 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 |
| | WG6 | 25 | W36X210 | | 670 | 156 | 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 | 25 | W36X210 | | 680 | 138 | 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 | 25 | W36X210 | | 680 | 138 | 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 | 25 | W36X210 | | 680 | 138 | 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 | 25 | W36X210 | | 670 | 136 | 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 | 25 | 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 |
| | WG12 | 25 | W36X210 | | 620 | 126 | 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 | 25 | W36X210 | B755 | 580 | 117 | 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 | 25 | W36X210 | B754 | 610 | 122 | 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 | 25 | W36X210 | C755 | 590 | 148 | 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 | 26, 27 | W36X210 | A755 | 690 | 138 | 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 | 26, 27 | W36X210 | B754 | 620 | 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 |
| 136/4 | WG3 | 26, 27 | W36X210 | A754 | 610 | 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 |
| | WG4 | 26, 27 | W36X210 | | 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 |
| | WG5 | 26, 27 | 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 |
| | WG6 | 26, 27 | W36X210 | | 650 | 152 | 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 | 26, 27 | W36X210 | | 680 | 138 | 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 | 26, 27 | 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 |
| | WG9 | 26, 27 | W36X210 | | 680 | 138 | 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 | 26, 27 | W36X210 | | 670 | 136 | 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 | 26, 27 | 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 |
| | WG12 | 26, 27 | W36X210 | | 620 | 126 | 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 | 26, 27 | W36X210 | B755 | 590 | 119 | 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 | 26, 27 | W36X210 | B754 | 620 | 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 |
| 136/6 | WG15 | 26, 27 | W36X210 | C755 | 560 | 140 | 8 1/2 X 1/2 X 1'-6 1/2 - A787 | 6 | 9 X 3/4 X 2'-5 1/2 - A786 | 8 |



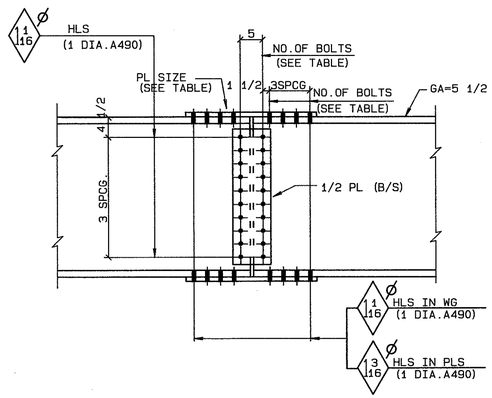

PART KEY PLAN

## 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 | 25 | W14X665 | WG1 | W36X210 | 1 | – | – | – | – |
| 2 | 25 | W14X500 | WG2 | W36X210 | 7/8 | WG1 | W36X210 | 1 | – |
| 3 | 25 | W14X426 | WG3 | W36X210 | 7/8 | WG2 | W36X210 | 7/8 | – |
| 4 | 25 | W14X426 | WG4 | W36X210 | 7/8 | WG3 | W36X210 | 7/8 | – |
| 5 | 25 | W14X426 | WG5 | W36X210 | 7/8 | WG4 | W36X210 | 7/8 | – |
| 6 | 25 | W14X426 | WG6 | W36X210 | 7/8 | WG5 | W36X210 | 7/8 | – |
| 7 | 25 | W14X455 | WG7 | W36X210 | 7/8 | WG6 | W36X210 | 7/8 | – |
| 8 | 25 | W14X455 | WG8 | W36X210 | 7/8 | WG7 | W36X210 | 7/8 | – |
| 9 | 25 | W14X455 | WG9 | W36X210 | 7/8 | WG8 | W36X210 | 7/8 | – |
| 10 | 25 | W14X455 | WG10 | W36X210 | 7/8 | WG9 | W36X210 | 7/8 | – |
| 11 | 25 | W14X426 | WG11 | W36X210 | 7/8 | WG10 | W36X210 | 7/8 | – |
| 12 | 25 | W14X426 | WG12 | W36X210 | 7/8 | WG11 | W36X210 | 7/8 | – |
| 13 | 25 | W14X426 | WG13 | W36X210 | 3/4 | WG12 | W36X210 | 7/8 | – |
| 14 | 25 | W14X426 | WG14 | W36X210 | 7/8 | WG13 | W36X210 | 3/4 | – |
| 14A | 25 | W14X500 | WG15 | W36X210 | 3/4 | WG14 | W36X210 | 7/8 | – |
| 15 | 25 | W14X665 | – | – | – | WG15 | W36X210 | 3/4 | – |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 1 | 26, 27 | W14X605 | WG1 | W36X210 | 7/8 | – | – | – | – |
| 2 | 26, 27 | W14X500 | WG2 | W36X210 | 7/8 | WG1 | W36X210 | 7/8 | – |
| 3 | 26, 27 | W14X426 | WG3 | W36X210 | 7/8 | WG2 | W36X210 | 7/8 | – |
| 4 | 26, 27 | W14X426 | WG4 | W36X210 | 7/8 | WG3 | W36X210 | 7/8 | – |
| 5 | 26, 27 | W14X426 | WG5 | W36X210 | 7/8 | WG4 | W36X210 | 7/8 | – |
| 6 | 26, 27 | W14X426 | WG6 | W36X210 | 7/8 | WG5 | W36X210 | 7/8 | – |
| 7 | 26, 27 | W14X455 | WG7 | W36X210 | 7/8 | WG6 | W36X210 | 7/8 | – |
| 8 | 26, 27 | W14X455 | WG8 | W36X210 | 1 | WG7 | W36X210 | 7/8 | – |
| 9 | 26, 27 | W14X455 | WG9 | W36X210 | 7/8 | WG8 | W36X210 | 1 | – |
| 10 | 26, 27 | W14X455 | WG10 | W36X210 | 7/8 | WG9 | W36X210 | 7/8 | – |
| 11 | 26, 27 | W14X426 | WG11 | W36X210 | 7/8 | WG10 | W36X210 | 7/8 | – |
| 12 | 26, 27 | W14X426 | WG12 | W36X210 | 7/8 | WG11 | W36X210 | 7/8 | – |
| 13 | 26, 27 | W14X426 | WG13 | W36X210 | 3/4 | WG12 | W36X210 | 7/8 | – |
| 14 | 26, 27 | W14X426 | WG14 | W36X210 | 7/8 | WG13 | W36X210 | 3/4 | – |
| 14A | 26, 27 | W14X500 | WG15 | W36X210 | 3/4 | WG14 | W36X210 | 7/8 | – |
| 15 | 26, 27 | W14X605 | – | – | – | WG15 | W36X210 | 3/4 | – |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |




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 84-152 | DWG. NO. 9116 REV |
| CHK'D WJF | DATE MAY 14/85 | FR | DETAIL: WIND GIRD. CONN'S WEST ELEV. 25TH TO 27TH | | |