SKILLING - HELLE - CHRISTIANSEN - ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: BEAM TO COL. CONN. - WHERE COL. SPLICE 3' ABOVE FLOOR | DATE: 1-29-68

REVISIONS
3-19-68
11-11-68
4-18-69
5-29-69

## SCHEDULE

| DETAIL NO. | COLUMN SIZE | BEAM SIZE | CONNECTION TYPE | CONNECTION LENGTH | NO. OF BOLTS 1ST ROW | NO. OF BOLTS 2ND ROW | WELD A |
|---|---|---|---|---|---|---|---|
| 11 | 14 WF 426 | 21 WF 55 | A | 1'- 2½" | 5 | 2 | ½ |
| 12 | 14 WF 398 | 21 WF 55 | A | 1'- 2½" | 5 | 2 | ½ |
| 13 | 14 WF 398 | 36 WF 135 | A | 1'- 8½" | 7 | 4 | ½ |
| 14 | 14 WF 150 | 21 WF 55 | B | 1'- 2½" | 5 | 2 | 5/16 |
| 15 | 14 WF 211 | 21 WF 55 | B | 1'- 2½" | 5 | 2 | 3/8 |
| 16 | 14 WF 426 | 36 WF 160 | A | 2'- 2½" | 9 | 5 | ½ |
| 17 | 14 WF 426 | 33 WF 130 | A | 2'- 5½" | 10 | 5 | ½ |
| 18 | 14 WF 398 | 33 WF 130 | A | 2'- 5½" | 10 | 5 | ½ |
| 19 | 14 WF 398 | 30 WF 108 | A | 1'- 8½" | 7 | 0 | ½ |
| 20 | 14 WF 398 | 24 B 55 | A | 0'- 11½" | 4 | 2 | ½ |
| 21 | 14 WF 176 | 24 B 55 | B | 0'- 11½" | 4 | 2 | 5/16 |
| 22 | 14 WF 184 | 24 B 55 | B | 0'- 11½" | 4 | 2 | 5/16 |
| 23 | 14 WF 167 | 30 WF 116 | A | 1'- 5½" | 6 | 2 | 5/16 |
| 24 | 14 WF 237 | 33 WF 141 | B | 0'- 11½" | 4 | 0 | 3/8 |
| * 25 | 14 WF 500 | 18 WF 50 | A | 1'- 2½" | 5 | 0 | ½ |
| * 26 | 14 WF 730 | 18 WF 45 | A | 0'- 11½" | 4 | 0 | ½ |
| * 27 | 14 WF 730 | 21 WF 55 | A | 1'- 5½" | 6 | 0 | ½ |
| * 28 | 14 WF 314 | 24 WF 68 | A | 1'- 5½" | 6 | 0 | ½ |
| * 29 | 14 WF 320 + PL's | 16 B 26 | A | 1'- 2½" | 5 | 3 | ½ |
| * 30 | 14 WF 320 + PL's | 14 B 22 | A | 0'- 11½" | 4 | 3 | ½ |
| * 31 | 14 WF 320 + PL's | 21 B 44 | A | 1'- 5½" | 6 | 4 | ½ |
| * 32 | 14 WF 605 | 27 WF 84 | A | 1'- 8½" | 7 | 2 | ½ |
| * 33 | 14 WF 320 + PL's | 33 WF 118 | A | 1'- 8½" | 7 | 5 | ½ |
| * 34 | 14 WF 550 | 24 WF 76 | A | 1'- 5½" | 6 | 2 | ½ |
| * 35 | 14 WF 550 | 36 WF 150 | A | 1'- 8½" | 7 | 7 | ½ |
| * 36 | 14 WF 287 | 36 WF 150 | A | 1'- 8½" | 7 | 7 | 3/8 |
| * 37 | 14 WF 320 + PL's | 33 WF 220 | A | 1'- 11½" | ** 8 | ** 6 | ½ |
| * 38 | 14 WF 320 + PL's | 30 WF 132 | A | 1'- 11½" | ** 8 | ** 2 | ½ |
| * 39 | 14 WF 500 | 30 WF 190 | A | 1'- 11½" | ** 8 | ** 4 | ½ |

Notes:
1. See 12-JK1-68 for connection details.
2. * — beam at elevation other than El. 310 as shown on 12-JK1-68.
3. ** — use 1" ϕ H.S. bolts (A-490 friction type)

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DRAWN S.C.
REVIEWED E.L.

12-JK1-67