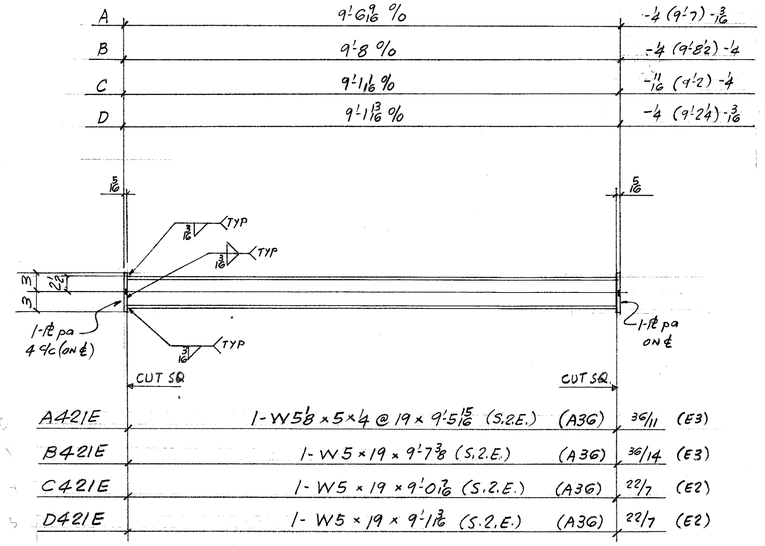
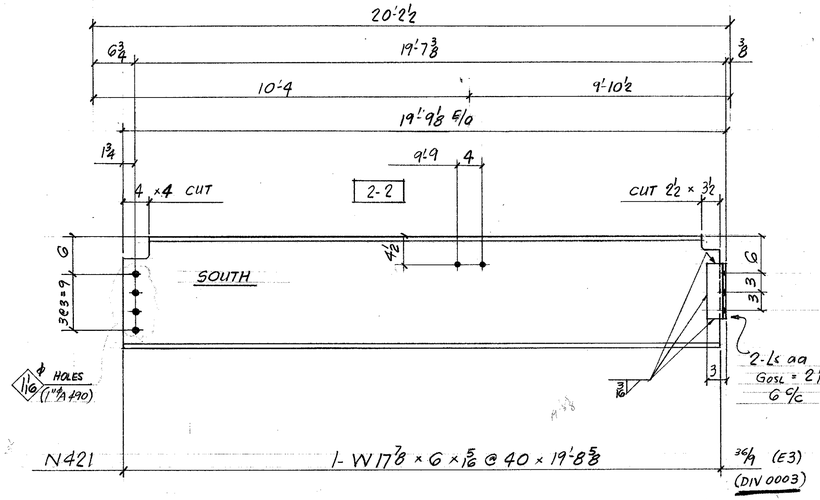
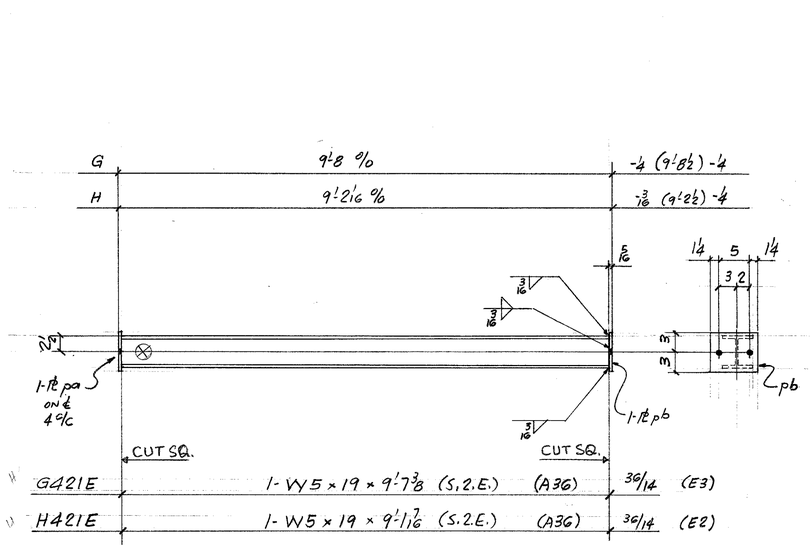
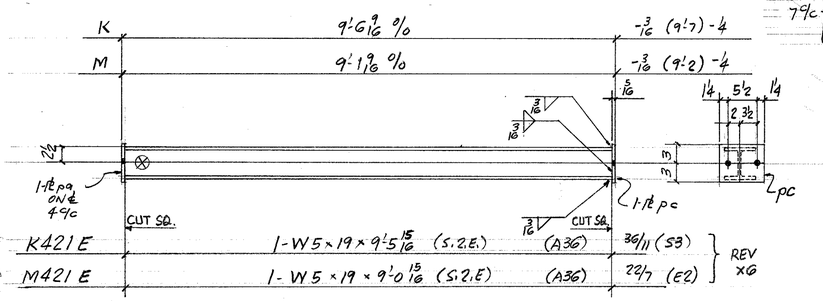



| | | | | |
|---|---|---|---|---|
| A421E | 1-W5 3/8 x 5 x 1/4 @ 19 x 9'-5 15/16 (S.2.E.) | (A36) | 36/11 | (E3) |
| B421E | 1-W5 x 19 x 9'-7 3/8 (S.2.E.) | (A36) | 36/14 | (E3) |
| C421E | 1-W5 x 19 x 9'-0 13/16 (S.2.E.) | (A36) | 22/7 | (E2) |
| D421E | 1-W5 x 19 x 9'-1 3/16 (S.2.E.) | (A36) | 22/7 | (E2) |

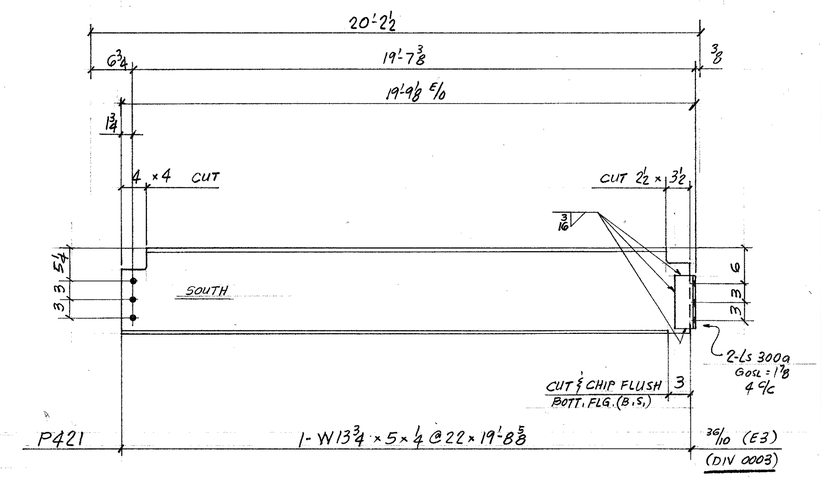


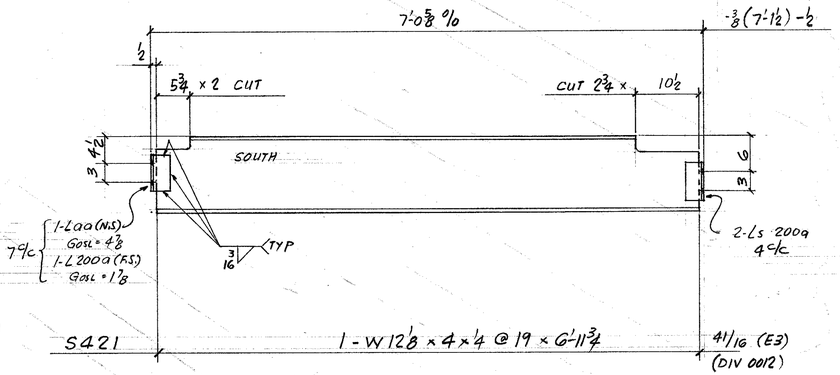




| | | | | |
|---|---|---|---|---|
| G421E | 1-WY5 x 19 x 9'-7 3/8 (S.2.E.) | (A36) | 36/14 | (E3) |
| H421E | 1-W5 x 19 x 9'-1 7/16 (S.2.E.) | (A36) | 36/14 | (E2) |




| | | | | |
|---|---|---|---|---|
| K421E | 1-W5 x 19 x 9'-5 15/16 (S.2.E.) | (A36) | 36/11 (S3) | REV XG |
| M421E | 1-W5 x 19 x 9'-0 15/16 (S.2.E) | (A36) | 22/7 (E2) | REV XG |




SHOP NOTES:
NO PAINT.
WELDS : E70XX
DET. MAT'L : G40.21 44W

FIELD BOLTS:
2-7/8ϕ x 2 (A325)

APP. NOTE

REF. DIAGS E2 & E3

## BILL OF MATERIAL

| LINE | CODE | COMMX SHIP DIVN. | PIECE MARKS MAIN MAT'L. | PIECE MARKS DETAIL MAT'L. | NO. OF PIECES | MATERIAL DESCRIPTION PL | WIDTH Inch | WIDTH 16th | X PLATE ONLY | THK. In. | THK. 16th | GRADE CODE | DOOR | FINISHED LENGTH Feet | FINISHED LENGTH In. | FINISHED LENGTH 16th | PAGE | LINE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | | | | F001 | | | | | | | | | | | | | | |
| 02 | | | | PA | 2 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 6 | 8 | | | |
| 03 | | | | | 1 | | | | 1F 3/16 | | | | | 3 | 6 | 0 | | | |
| 04 | | 0004 | A421E | | 1 | | | | W5x19 | | | A36 | | 9 | 5 | 15 | 36 | 11 | S2E |
| 05 | | | | | | | | | | | | | | | | | | | |
| 06 | | | | | | | | | | | | | | | | | | | |
| 07 | | | | | F001 | | | | | | | | | | | | | | |
| 08 | | | | PA | 2 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 6 | 8 | | | |
| 09 | | | | | 1 | | | | 1F 3/16 | | | | | 3 | 6 | 0 | | | |
| 10 | | 0001 | B421E | | 1 | | | | W5x19 | | | A36 | | 9 | 7 | 6 | 36 | 14 | S2E |
| 11 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | F001 | | | | | | | | | | | | | | |
| 14 | | | | PA | 2 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 6 | 8 | | | |
| 15 | | | | | 1 | | | | 1F 3/16 | | | | | 3 | 6 | 0 | | | |
| 16 | | 0004 | C421E | | 1 | | | | W5x19 | | | A36 | | 9 | 0 | 7 | 22 | 7 | S2E |
| 17 | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | F001 | | | | | | | | | | | | | | |
| 20 | | | | PA | 2 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 6 | 8 | | | |
| 21 | | | | | 1 | | | | 1F 3/16 | | | | | 3 | 6 | 0 | | | |
| 22 | | 0001 | D421E | | 1 | | | | W5x19 | | | A36 | | 9 | 1 | 3 | 22 | 7 | S2E |
| 23 | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | |
| 26 | | | TOTAL | | | | TOTAL | | | | | | | | | | | | 1 OF 3 |
| 01 | | | | | F001 | | | | | | | | | | | | | | |
| 02 | | | | PA | 1 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 6 | 8 | | | |
| 03 | | | | PB | 1 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 7 | 8 | | | |
| 04 | | | | | 1 | | | | 1F 3/16 | | | | | 3 | 6 | 0 | | | |
| 05 | | 0001 | G421E | | 1 | | | | W5x19 | | | A36 | | 9 | 7 | 6 | 36 | 14 | S2E |
| 06 | | | | | | | | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | | | | | | | | |
| 08 | | | | | F001 | | | | | | | | | | | | | | |
| 09 | | | | PA | 1 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 6 | 8 | | | |
| 10 | | | | PB | 1 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 7 | 8 | | | |
| 11 | | | | | 1 | | | | 1F 3/16 | | | | | 3 | 6 | 0 | | | |
| 12 | | 0001 | H421E | | 1 | | | | W5x19 | | | A36 | | 9 | 1 | 7 | 36 | 14 | S2E |
| 13 | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | F001 | | | | | | | | | | | | | | |
| 16 | | | | PA | 1 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 6 | 8 | | | |
| 17 | | | | PC | 1 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 8 | 0 | | | |
| 18 | | | | | 1 | | | | 1F 3/16 | | | | | 3 | 6 | 0 | | | |
| 19 | | 0004 | K421E | | 1 | | | | WY5x19 | | | A36 | | 9 | 5 | 15 | 36 | 11 | S2E |
| 20 | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | F001 | | | | | | | | | | | | | | |
| 22 | | | | PA | 1 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 6 | 8 | | | |
| 23 | | | | PC | 1 | PL | 6 | 0 | x | 0 | 5 | 44W | | 0 | 8 | 0 | | | |
| 24 | | | | | 1 | | | | 1F 3/16 | | | | | 3 | 6 | 0 | | | |
| 25 | | 0004 | M421E | | 1 | | | | WY5x19 | | | A36 | | 9 | 0 | 15 | 22 | 7 | S2E |
| 26 | | | TOTAL | | | | TOTAL | | | | | | | | | | | | 2 OF 3 |

APP. NOTE 1: 0 5 44W

TOTAL (CONTINUED ON LOOSE BILL) → 2 OF 3

| REV. | DATE | BY | SPEC. | HOLES | FINISH |
|---|---|---|---|---|---|
| 1 | MAR 7/85 | JM | A572 GR 50 U.N. | 15/16ϕ U.N. | |
| 2 | DATE | BY | | | |
| 3 | DATE | BY | | | |

MADE 27 ETP DATE FEB 85 SQUAD F.R.
CHK'D. 28 WD DATE FEB-85

PROJECT: 7 WORLD TRADE CENTER
DETAIL: 2ND & 3RD FLR. BEAMS

CONTRACT 84-15
DWG.No. 421

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