W36×210

$P_{FLGE} = \frac{MR \times 12}{2 \times D} = \frac{1438 \times 6}{36.75} = 234.8$ kips.

9/SIZE HLS ∴ USE 16-1"ΦA490.

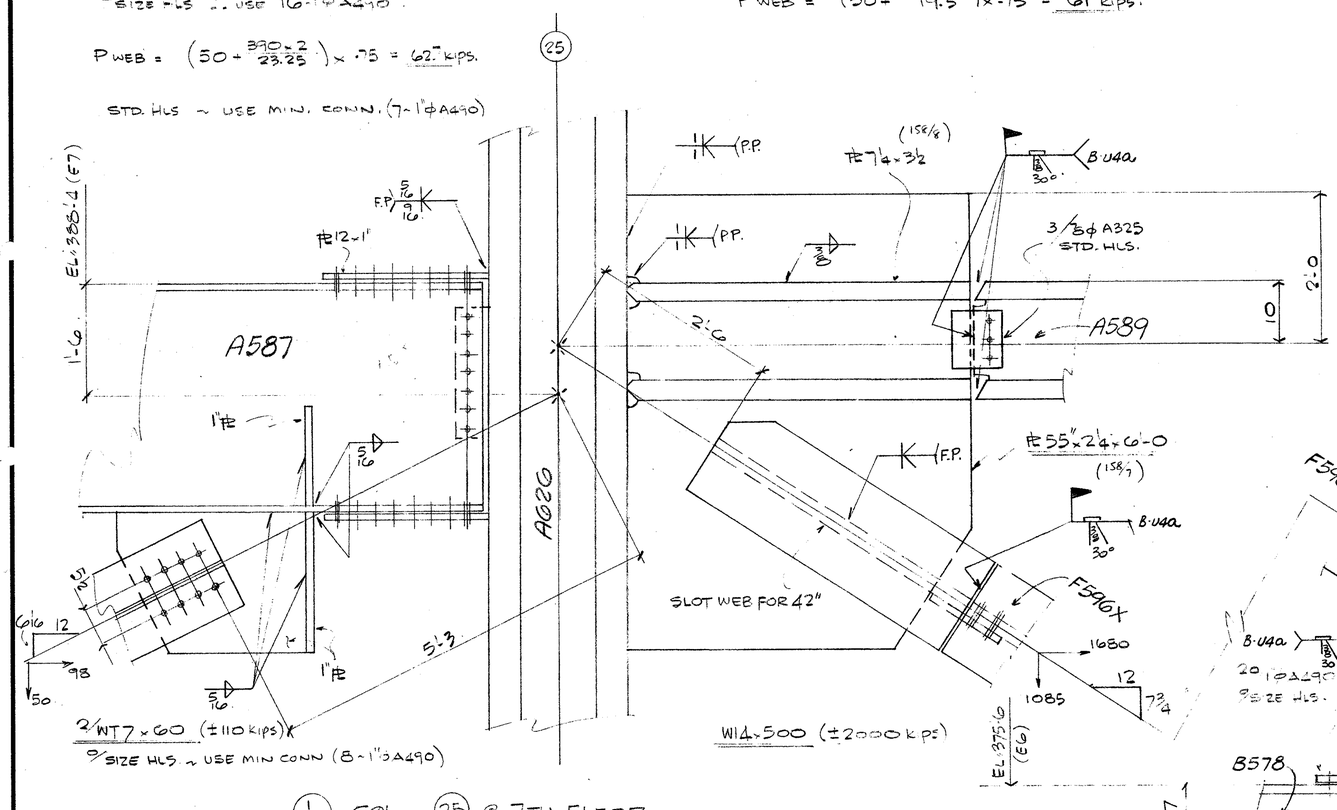
$P_{WEB} = \left(50 + \frac{390 \times 2}{23.25}\right) \times .75 = 62.7$ kips.

STD. HLS ~ USE MIN. CONN. (7-1"ΦA490)

W14×455 (SKEWED)

$P_{FLGE} = \frac{M \text{ given} \times 12}{2 \times D} + \frac{1}{2}\text{AXIAL} = \frac{300 \times 6}{19} + 945 = 1135$ kips.

$P_{WEB} = \left(50 + \frac{300 \times 2}{19.5}\right) \times .75 = 61$ kips.



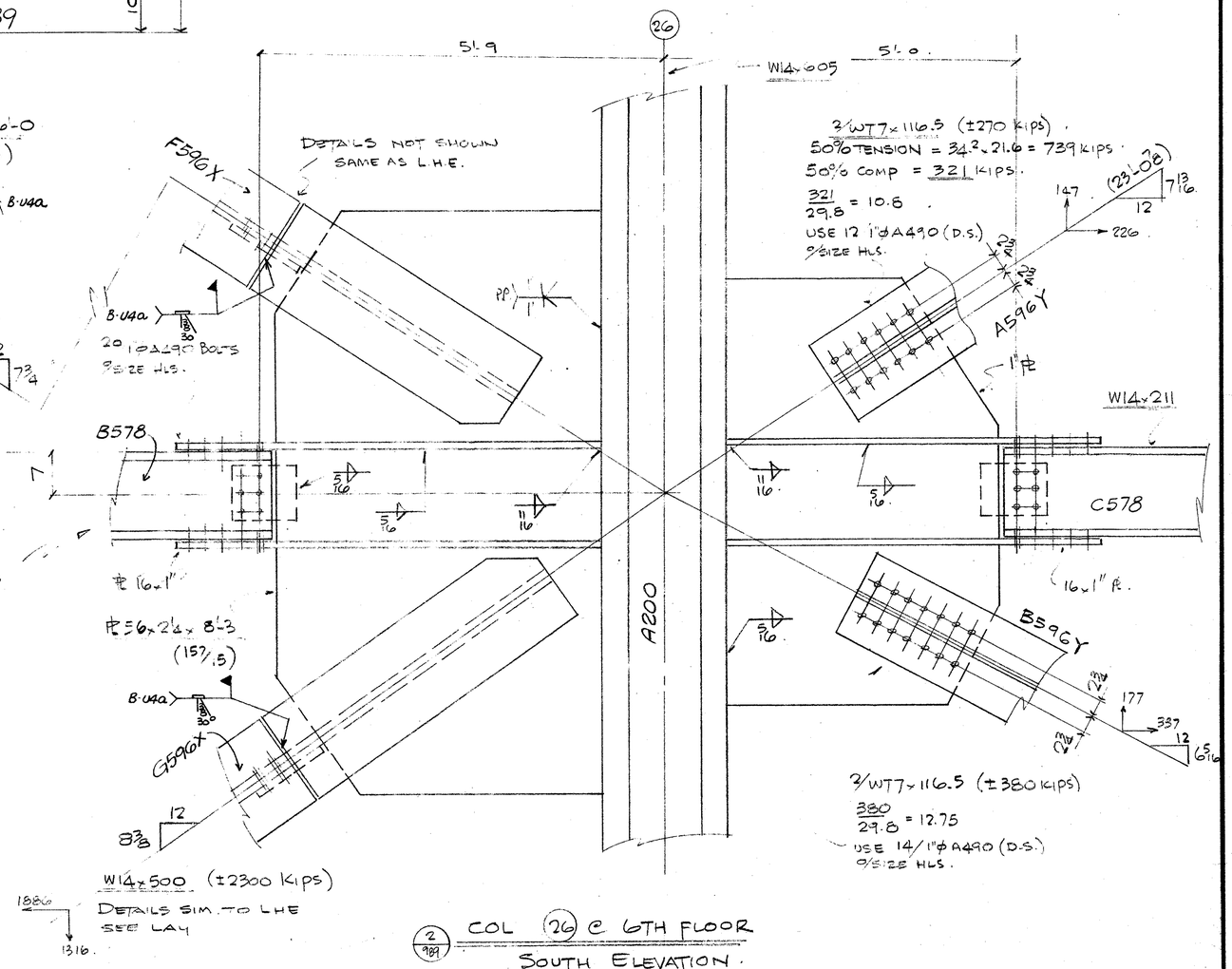
(1/989) COL (25) @ 7TH FLOOR

(SOUTH ELEVATION)

W14×211

$P_{FLGE} = \frac{MR \times 12}{2 \times D} = \frac{670 \times 6}{15.75} = 250$ kips.

$P_{WEB} = \left(70 + \frac{240 \times 2}{19.7}\right) \times .75 = 71$ kips.



(2/989) COL (26) @ 6TH FLOOR

SOUTH ELEVATION.

WORK THIS DWG WITH DWG# FW21.

- ALL DT_MAT'L TO BE G40.21(44W)
- ALL WELD ~ E70XX ELECTRODES.
- REF'S E119. E7.

REVISED		
DATE ____ BY ____	OPEN HOLES	
DATE ____ BY ____	PAINT	
DATE ____ BY ____	ERECTED BY	
DATE ____ BY ____	FIELD PAINT	
DATE ____ BY ____	INSPECTION	

7 WORLD TRADE CENTRE
47 STOREY OFFICE BLDG.
TISHMAN CONSTRUCTION — CUSTOMER
EMERY ROTH & SONS P.C. — ARCHITECT
IRWIN G. CANTOR P.C. — ENGINEER

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

SQUAD FR
MADE BY JS DATE MAR'85 CHKD. BY AS DATE Apr '85
CONT. No. 84-15 SHEET 989