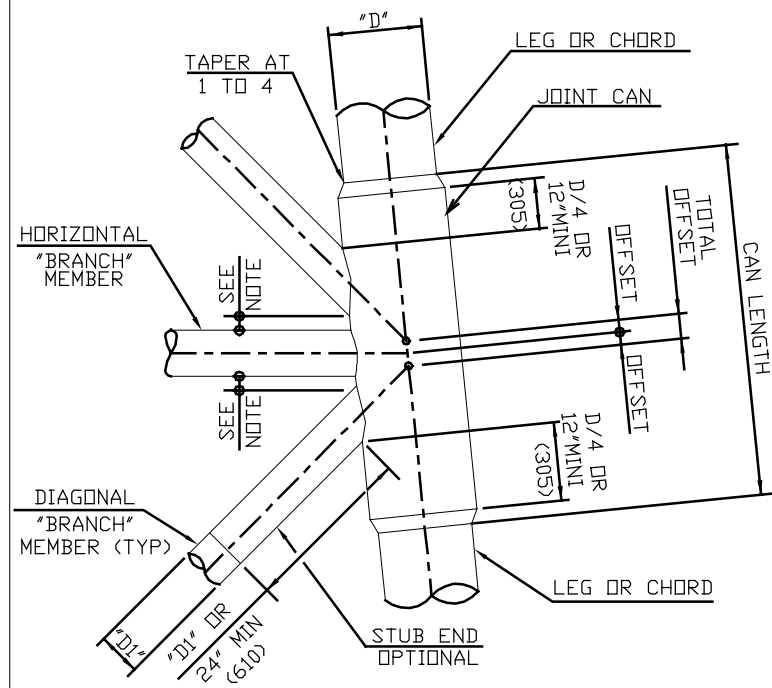
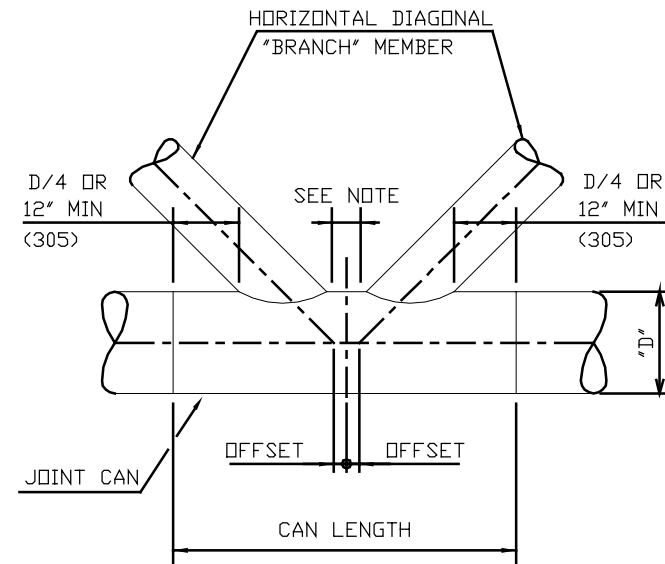
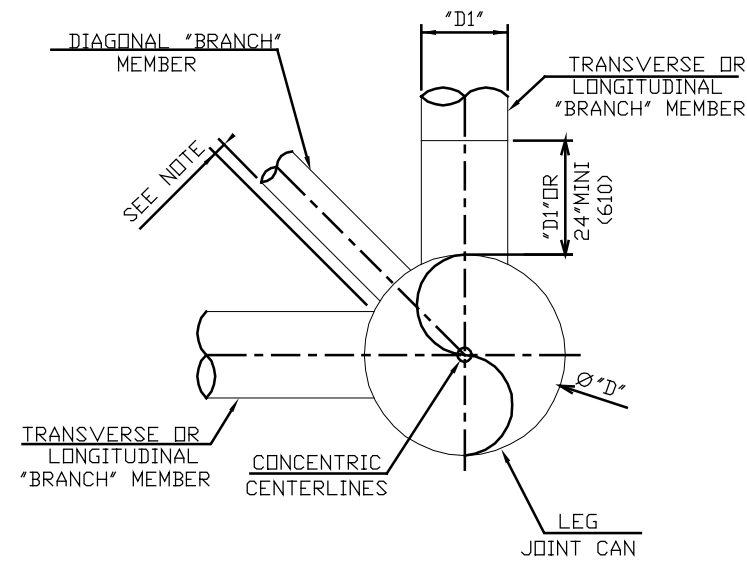




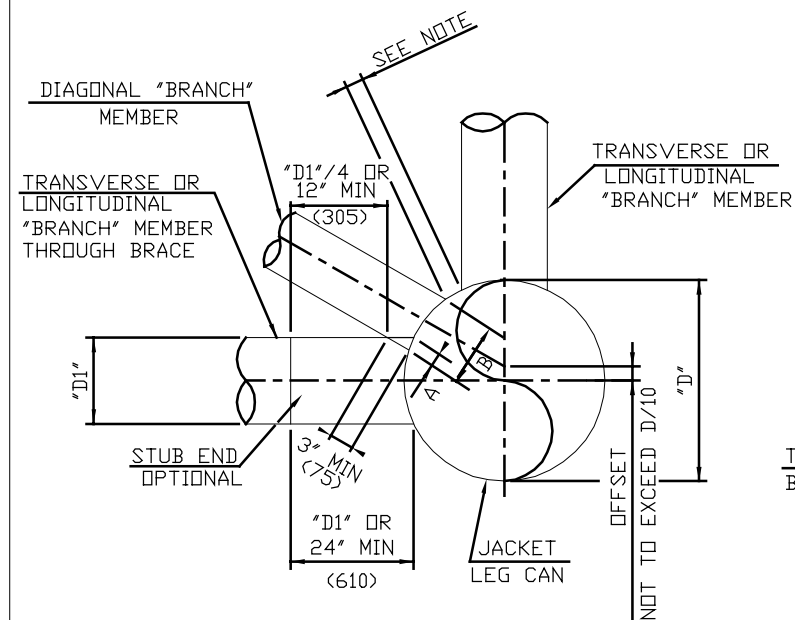
FRAMING CONDITION I



FRAMING CONDITION II



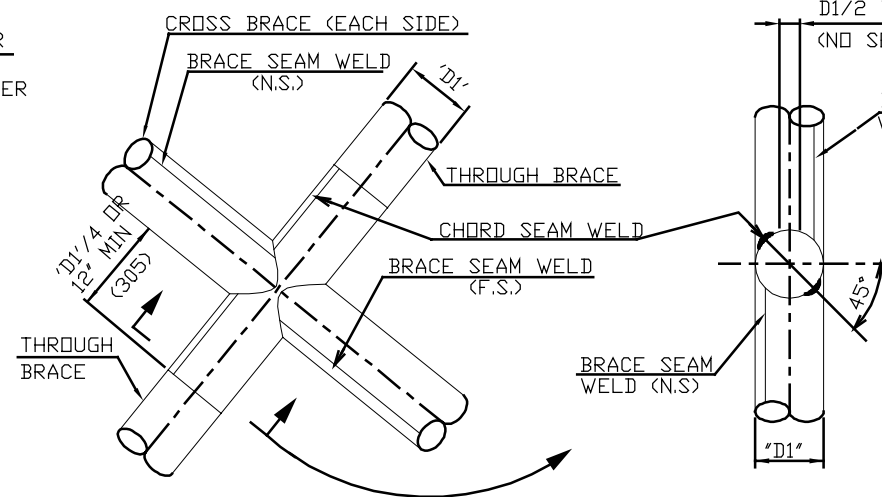
FRAMING CONDITION III



FRAMING CONDITION IV

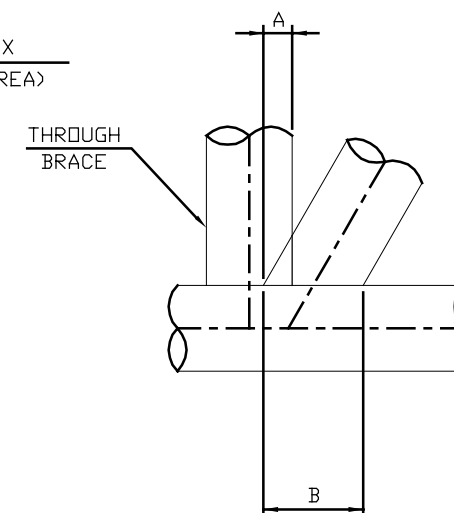
$$A = 0.3 B \text{ MIN}$$

$$0.5 B \text{ MAX}$$



FRAMING CONDITION V

TYPICAL LONGITUDINAL SEAM WELD LOCATIONS
X - JOINTS



FRAMING CONDITION VI

$$A = 0.3 B \text{ MIN}$$

$$0.5 B \text{ MAX}$$

NOTES FOR FRAMING CONDITION I:

- 1- JOINTS SHALL NOMINALLY BE CONCENTRIC WHEREVER POSSIBLE.
- 2- DIAGONAL AND HORIZONTAL BRACING MEMBERS SHALL NOT OVERLAP AT THEIR INTERSECTION WITH THE HEAVY WALL SECTION OF THE CHORD MEMBER.
- 3- MINIMUM CLEARANCE BETWEEN WELD TOES OF EACH PAIR OF BRACES SHALL BE EQUAL TO 2 INCHES (50 MM).
- 4- MAXIMUM THICKNESS OF THE CHORD SHALL EXTEND PAST THE OUTSIDE EDGE OF THE BRACE FOR A MINIMUM OF ONE QUARTER OF THE CHORD DIAMETER "D" OR 12 INCHES (305 MM) EXCLUDING TAPER, WHICHEVER IS GREATER.

NOTES FOR FRAMING CONDITION II:

- 1- HORIZONTAL JOINTS, WHERE MEMBERS IN ADJACENT PLANES ARE NOT PRESENT, SHALL BE NOMINALLY CONCENTRIC.
- 2- MAXIMUM THICKNESS OF THE CHORD SHALL EXTEND PAST THE OUTSIDE EDGE OF THE BRACE FOR A MINIMUM OF ONE QUARTER OF THE CHORD DIAMETER "D" OR 12 INCHES (305 MM) EXCLUDING TAPER, WHICHEVER IS GREATER.
- 3- INTERSECTIONS OF BRACE AND CHORD CENTERLINES MAY BE OFFSET TO MAINTAIN THE 2 INCHES (50 MM) MINIMUM CLEARANCE.

NOTES FOR FRAMING CONDITION III AND IV:

- 1- JOINTS SHALL BE NOMINALLY CONCENTRIC WHEREVER POSSIBLE.
- 2- WHERE BRACE MEMBERS OF UNEQUAL WALL THICKNESS OVERLAP, THE MEMBER WITH THE THICKEST WALL SHALL ALWAYS BE THE THROUGH MEMBER REGARDLESS OF DIAMETER.
- 3- WHERE BRACE MEMBERS OF EQUAL WALL THICKNESS OVERLAP, THE MEMBER WITH THE LARGEST DIAMETER SHALL BE THE THROUGH MEMBER.
- 4- WHERE BRACE MEMBERS OF EQUAL WALL THICKNESS AND DIAMETER OVERLAP AT CONGESTED HORIZONTAL JOINTS, THE LONGITUDINAL AND TRANSVERSE MEMBERS SHALL BE THE THROUGH MEMBERS. OTHER MEMBERS SHALL OVERLAP A MINIMUM OF 3 INCHES (75 MM).
- 5- THROUGH MEMBERS SHALL BE INSTALLED FIRST. NO WINDOWS SHALL BE CUT WITHOUT PRIOR COMPANY APPROVAL.
- 6- MAXIMUM THICKNESS OF THE CHORD SHALL EXTEND PAST THE OUTSIDE EDGE OF THE BRACE FOR A MINIMUM OF ONE QUARTER OF THE CHORD DIAMETER "D" OR 12 INCHES (305 MM) EXCLUDING TAPER, WHICHEVER IS GREATER.

NOTE: (FOR FRAMING CONDITIONS I THRU IV)
2" (50 MM) MIN. WELD TOE.
3" (75 MM) MIN. BETWEEN BRACE TRACE UNLESS NOTED OTHERWISE.

STR 301

TYPICAL WELDING DETAILS
TUBULAR JOINTS
FRAMING CONDITIONS
FOLIO 5