

SUBJECT: VERMONT, 42' MAST ARM & 16' LUM ARM

FOLDER: VTTRAF FILE: 4216

DESIGN SUMMARY (CONTINUED)
ARMS

SIGNAL AND SIGN ARM 1

SPAN LENGTH = 42.00 FT
TAPER = 0.14 IN/FT
BASE SECTION
BASE O.D. = 12.50 IN
THICKNESS = 0.2092 IN
LENGTH = 42.00 FT
YIELD STR. = 55 KSI

BASE WELD FATIGUE CATEGORY = Full-Pen / E

***** SIMPLEX DIMENSIONS *****
ARM 1

CONNECTION BOLT DATA

NUMBER = 4
BOLT DIAMETER (IN) = 1.250
ASTM SPECIFICATION = A325
HORIZONTAL SPACING (IN) = 14.50
VERTICAL SPACING (IN) = 14.50

ATTACHMENT PLATE DATA

HORIZONTAL WIDTH (IN) = 17.75
VERTICAL WIDTH (IN) = 17.75
THICKNESS (IN) = 1.500
YIELD STRENGTH (KSI) = 36
GUSSET THICKNESS (IN)
- VERTICAL = 0.250
- HORIZONTAL = 0.313

ATTACHMENT TYPE

ARM 1: SIMPLEX - RING-STIFFENED BOX, THRU, BASE WELD TYPE = Full-Pen