

SUBJECT: VERMONT, 34' & 31' MAST ARMS W/12' LUM ARM

FOLDER: VTTRAF FILE: 3431L12

DESIGN SUMMARY (CONTINUED)  
 ARMS

SIGNAL AND SIGN ARM 1		SIGNAL AND SIGN ARM 2	
SPAN LENGTH	= 34.00 FT	SPAN LENGTH	= 31.00 FT
TAPER	= 0.14 IN/FT	TAPER	= 0.14 IN/FT
BASE SECTION		BASE SECTION	
BASE O.D.	= 11.50 IN	BASE O.D.	= 11.00 IN
THICKNESS	= 0.1793 IN	THICKNESS	= 0.1793 IN
LENGTH	= 34.00 FT	LENGTH	= 31.00 FT
YIELD STR.	= 55 KSI	YIELD STR.	= 55 KSI

BASE WELD FATIGUE CATEGORY = Full-Pen / E

\*\*\*\*\* SIMPLEX DIMENSIONS \*\*\*\*\*  
 ARM 1 ARM 2

CONNECTION BOLT DATA

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

ATTACHMENT PLATE DATA

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

ATTACHMENT TYPE

ARM 1: SIMPLEX - RING-STIFFENED BOX, TAPPED, BASE WELD TYPE = Full-Pen  
 ARM 2: SIMPLEX - RING-STIFFENED BOX, TAPPED, BASE WELD TYPE = Full-Pen