

FOR FOUNDATION DETAILS
SEE DRAWING N^o 816-20.001

FOR SIGN BRACKETS TO BE
FURNISHED WITH THIS
STRUCTURE, SEE DWG. 816-20.002
AND PROJECT PLANS.

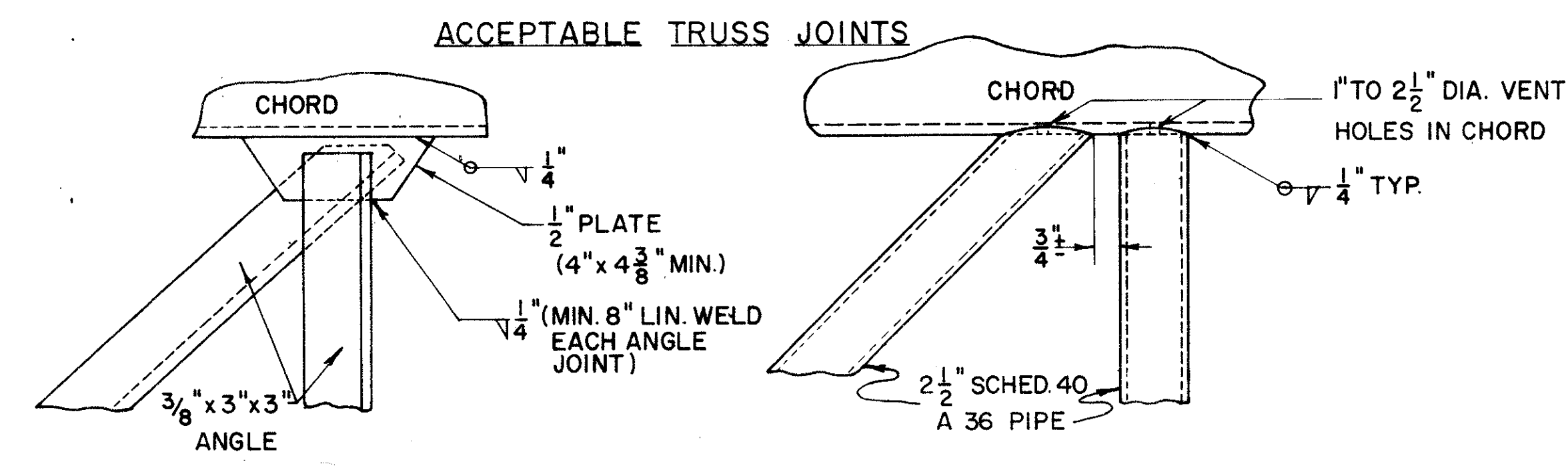
FOR MODIFICATION OF POLE TO
SUPPORT ROADWAY LIGHTING, SEE
DWG 816-20.002 AND PROJECT PLANS

NOTE "A"
POLE BASE AND ARM ATTACHMENT PLATE TO BE WELDED INSIDE AND OUTSIDE WITH FILLET WELDS. EACH FILLET WELD SHALL BE EQUAL TO THE WALL THICKNESS OF THE RESPECTIVE TUBING.

NOTE "B"
CONSTRUCTION DETAILS AND LOCATION OF HANDHOLE AND SWITCH GEAR MOUNTING BRACKETS ARE SHOWN ON DRAWING 816-20.002

NOTE "C"
SIGNS UNDER 20'-0" LONG, ONE 1 1/2" PIPE COUPLING WELDED TO THE TOP CHORD APPROXIMATELY 12" OUTBOARD OF FIRST SIGN BRACKET. FOR SIGNS 20'-0" OR OVER, A SECOND 1 1/2" PIPE COUPLING IS REQUIRED APPROXIMATELY 12" OUTBOARD OF THE SECOND SIGN BRACKET. ALL SHARP EDGES INSIDE THE CHORD AND PIPE COUPLING MUST BE REMOVED.

DESIGN NUMBER	POLE SIZE		ARM SIZE	
	OUTSIDE DIAMETERS	DIAMETERS	OUTSIDE DIAMETERS	DIAMETERS
1	2 PLY. 7 GA. 10"x 6.50"	25'-0"	7 GA. 6"x 3.76"	16'-0"
1ALT	8 5/8" x .500" WALL	x 25'-0"	5 9/16" x .258" WALL	x 16'-0"
2	2 PLY. 7 GA. 10"x 6.50"	25'-0"	3 GA. 6"x 4.60"	20'-0"
2ALT	8 5/8" x .562" WALL	x 25'-0"	5 9/16" x .344" WALL	x 20'-0"
3	0 GA. 13"x 9.22"	x 27'-0"	7 GA. 8"x 5.76"	16'-0"
3ALT	10 3/4" x .438" WALL	x 27'-0"	6 5/8" x .250" WALL	x 16'-0"
4	0 GA. 13"x 9.22"	x 27'-0"	7 GA. 9"x 6.20"	20'-0"
4ALT	10 3/4" x .500" WALL	x 27'-0"	6 5/8" x .344" WALL	x 20'-0"
5	0 GA. 15"x 11.08"	x 28'-0"	7 GA. 9.5"x 6.42"	22'-0"
5ALT	12 3/4" x .500" WALL	x 28'-0"	8 5/8" x .250" WALL	x 22'-0"
6	2 PLY. 7 GA. 15"x 11.08"	x 28'-0"	3 GA. 10"x 6.36"	x 26'-0"
6ALT	12 3/4" x .562" WALL	x 28'-0"	8 5/8" x .322" WALL	x 26'-0"
7	2 PLY. 7 GA. 16.5"x 12.58"	x 28'-0"	3 GA. 10"x 6.64"	x 24'-0"
7ALT	14" x .562" WALL	x 28'-0"	8 5/8" x .322" WALL	x 24'-0"
8	2 PLY. 3 GA. 16.5"x 12.58"	x 28'-0"	3 GA. 11"x 7.08"	x 28'-0"
8ALT	14" x .594" WALL	x 28'-0"	10 3/4" x .279" WALL	x 28'-0"
9	2 PLY. 3 GA. 16.5"x 12.30"	x 30'-0"	3 GA. 11"x 7.36"	x 26'-0"
9ALT	14" x .688" WALL	x 30'-0"	10 3/4" x .279" WALL	x 26'-0"
10	2 PLY. 3 GA. 18" x 13.80"	x 30'-0"	3 GA. 13" x 8.80"	x 30'-0"
10ALT	16" x .656" WALL	x 30'-0"	10 3/4" x .438" WALL	x 30'-0"



DESIGN NUMBER	DESIGN SIZE (SQ. FT.)	DESIGN MOMENT ARM (FT.)	DIM. "F" (IN.)	DIM. "P" (IN.)	DIM. "S" (IN.)	DIM. "T" (IN.)	BOLT CIRCLE "B" (IN.)	ANCHOR BOLTS "AB" (IN.)	DIM. "H" (IN.)
1	80	12	10 5/8	7 3/4	15 5/8	2	15	1 3/4 x 84	2 1/8
2	80	16	10 5/8	7 3/4	15 5/8	2	15	1 3/4 x 84	2 1/8
3	120	12	12 1/2	8 1/2	18 1/2	2	18	2 x 90	2 3/8
4	120	16	12 1/2	8 1/2	18 1/2	2	18	2 x 90	2 3/8
5	180	14	15 1/2	8 1/2	23	2	22	2 x 90	2 3/8
6	180	18	15 1/2	8 1/2	23	2	22	2 x 90	2 3/8
7	240	14	16 3/8	9 3/4	24 1/2	2 1/2	23 1/2	2 1/2 x 114	2 7/8
8	240	18	16 3/8	9 3/4	24 1/2	2 1/2	23 1/2	2 1/2 x 114	2 7/8
9	300	15 1/2	16 3/8	9 3/4	24 1/2	2 1/2	23 1/2	2 1/2 x 114	2 7/8
10	300	19 1/2	18	9 3/4	26 1/2	2 1/2	25 1/2	2 1/2 x 114	2 7/8

MATERIAL SPECIFICATIONS

POLE & ARMS: ANY STEEL WITH MIN. 52,000 P.S.I. YIELD STRESS AFTER ERECTION.
TRUSS MEMBERS: ASTM A-36
BASE & OTHER PLATE STOCK: ASTM A-36
ANCHOR BOLTS: MIN. 54,000 P.S.I. YIELD STRESS AS ERECTED.
ARM ATTACHMENT BOLTS: ASTM A-325
MISC. BOLTS & NUTS: ASTM A-307 (GALVANIZED PER ASTM A-153)
WELDING: SECTION 513.17, OHIO CONST. & MAT. SPECIFICATIONS
GALVANIZING AFTER FABRICATION, ALL STRUCTURAL PARTS: ASTM A-123

GALVANIZE ONLY TOP 16" OF ALL ANCHOR BOLTS PER ASTM A-123

BUREAU OF DESIGN SERVICES OHIO DEPARTMENT OF HIGHWAYS	
OVERHEAD SIGN SUPPORT	
STANDARD CONSTRUCTION DRAWING	816-12.30
APPROVED	<i>M. J. Cunningham</i> ENGINEER OF DESIGN SERVICES