

				8	O MPH W	IND					
Clamp-on Arm LC	ROUND ARMS					POLYGONAL ARMS					
	Lı	D ₁	D ₂	thk (12)	D:	L	D,	D ₂	thk (12)	Rise	
ft.	ft.	in.	in.	in.	Rise	ft.	in.	in.	in.		
20	19.1	6.5	3.8	.179	1"-9"	19.1	7.0	3.5	. 179	1'-8"	
24	23.1	7.5	4.3	.179	1 -10	23.1	7.5	3.5	.179	1'-9"	
28	27.1	8.0	4.2	.179	1*=11*	27.1	8.0	3.5	.179	1'-10"	
32	31.0	9.0	4.7	.179	2"-1"	31.0	9.0	3.5	.179	2'-0"	
36	35.0	9.5	4.6	.179	2'-4"	35.0	10.0	3.5	. 179	2"-1"	
40	39.0	9.5	4.1	. 239	2'-8"	39.0	9.5	3.5	. 239	2'-3"	
44	43.0	10.0	4.1	. 239	2"-11"	43.0	10.0	3.5	. 239	2"-6"	
				10	OO MPH	WIND					
ROUND ARMS					POLYGONAL ARMS						

thk (12) D₁ D, thk (12) Rise Rise ft. in. in. in. 1'-8" 19.1 8.0 3.5 .179 1'-9" 9.0 3.5 .179 23.1

ft. ft. in. in. in. 1"-7" 19.1 8.0 5.3 .179 20 23.1 9.0 5.8 .179 1'-8" 24 9.5 5.7 .179 1'-10" 27.1 3.5 .179 1'-9" 28 27.1 10.0 9.5 5.2 . 239 11-11" 31.0 9.5 3.5 . 239 1'-10" 32 31.0 17-11 10.0 5.1 . 239 2'-0" 35.0 10.0 3.5 . 239 36 35.0 2'-1" 40 39.0 10.5 5.1 .239 2"-3" 39.0 11.0 3.5 . 239 5.1 2'-3" 44 43.0 11.0 .239 2'-8" 43.0 11.5 4.0 . 239

D1 = Arm Base O.D. D2 = Arm End O.D.

L₁

Arm Lo

L1 = Shaft Length Lc = Clamp-on Arm Length

D₁

D₂

(12) Thickness shown is minimum, thicker materials may be used.

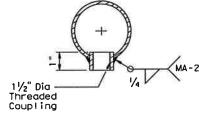
	CLAMP	-ON	ARM	CONNECTIO	NC	
ILSN Arm Size				4 Conn. Bolts	%" Dia. Pin Bolts	
Sch 40 pipe Dia	Thick	Α .	F	Dia	No.	
in.	in.	in.	in.	in.	ea	
3	.216	10	4	₹4	2	
Mast Arm Size		A	F	4 Conn. Bolts	%" Dia. Pin Bo∣ts	
Base Dia	Thick	1		Dia	No.	
in.	ĭn.	in.	in.	in.	ea	
6.5	.179	12	6	1	2	
7.5	. 179	14	8	1	2	
8.0	.179	14	8	1		
9.0	. 179	16	10	1	2	
9.5	. 179	18	12	1 1/4	3	
9,5	. 239	18	12	1 1/4	3	
10.0	. 239	18	12	1 1/4	3	
10.5	. 239	18	12	1 1/4	3	
11.0	. 239	18	12	1 1/4	3	
11.5	. 239	18	12	1 1/4	3	

GENERAL NOTES:

229 Clamp-on details are used for the second arm on dual mast arm assemblies or ILSN arm support. For a clamp-on mast arm, a maximum 1 $\frac{1}{2}$ wide vertical slotted hole may be cut in the front clamp plate to facilitate drainage during galvanizing. The slot shall be centered behind the arm and shall be no longer than the arm diameter minus 1". For an ILSN arm, a 1 1/2" diameter hole shall be cut in the front clamp plate for wire access. A matched hole shall be field drilled through the pole to provide wire access after arm is oriented. Deburr both holes.

Where duplicate parts occur on a detail, welds shown for part shall apply to all similar parts on the detail.

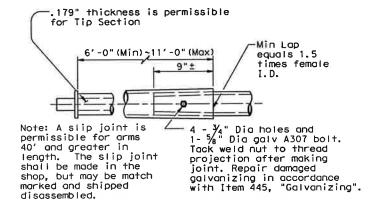
Pin bolts are required to prevent rotation of clamp-on arms under design wind forces. Pin bolts shall be ASTM A325 with threads excluded from the shear plane. Pin bolt and $\frac{7}{4}$ " diameter pipe shall have $\frac{7}{6}$ " diameter holes for a $\frac{7}{6}$ " diameter galvanized cotter pin. Back clamp plate shall be furnished with a $\frac{7}{4}$ " diameter hole for each pin bolt. An $\frac{7}{6}$ " diameter hole for each pin bolt shall be field drilled through the pole after arm orientations have been approved by the Engineer.



ARM COUPLING DETAIL

⅓" Dia — Threaded Coupling

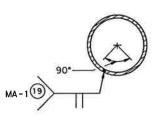
ILSN ARM COUPLING DETAIL



SLIP JOINT DETAIL (CLAMP-ON ARM)

Stainless steel bands (or Cables) and cast bracket as in "Astro-Brac", "Sky Bracket" or "Easy Bracket" with 1 ½" Dia Threaded Coupling.

BRACKET ASSEMBLY



ARM WELD DETAIL

(19) Longitudinal Seam Weld must be oriented within the lower 90° of the signal arm. 60% Min penetration 100% penetration within 6" of circumferential base welds.



SUPPORT STRUCTURES LONG MAST ARM ASSEMBLY (50 TO 65 FT)

(80 AND 100 MPH WIND ZONE)

Sheet 4 of 5

LMA(4)-12

23 OF.

C TxDOT No	vember 2000	DN: JK		CK+ GRB	DW1 FDN	CKI CAL	
0-01 1-12	CONT	SECT	JOB		HEGHWAY		
		DIST		COUNT	Y	SHEET NO.	
		DIST		COUNT	Y	ł	

131D