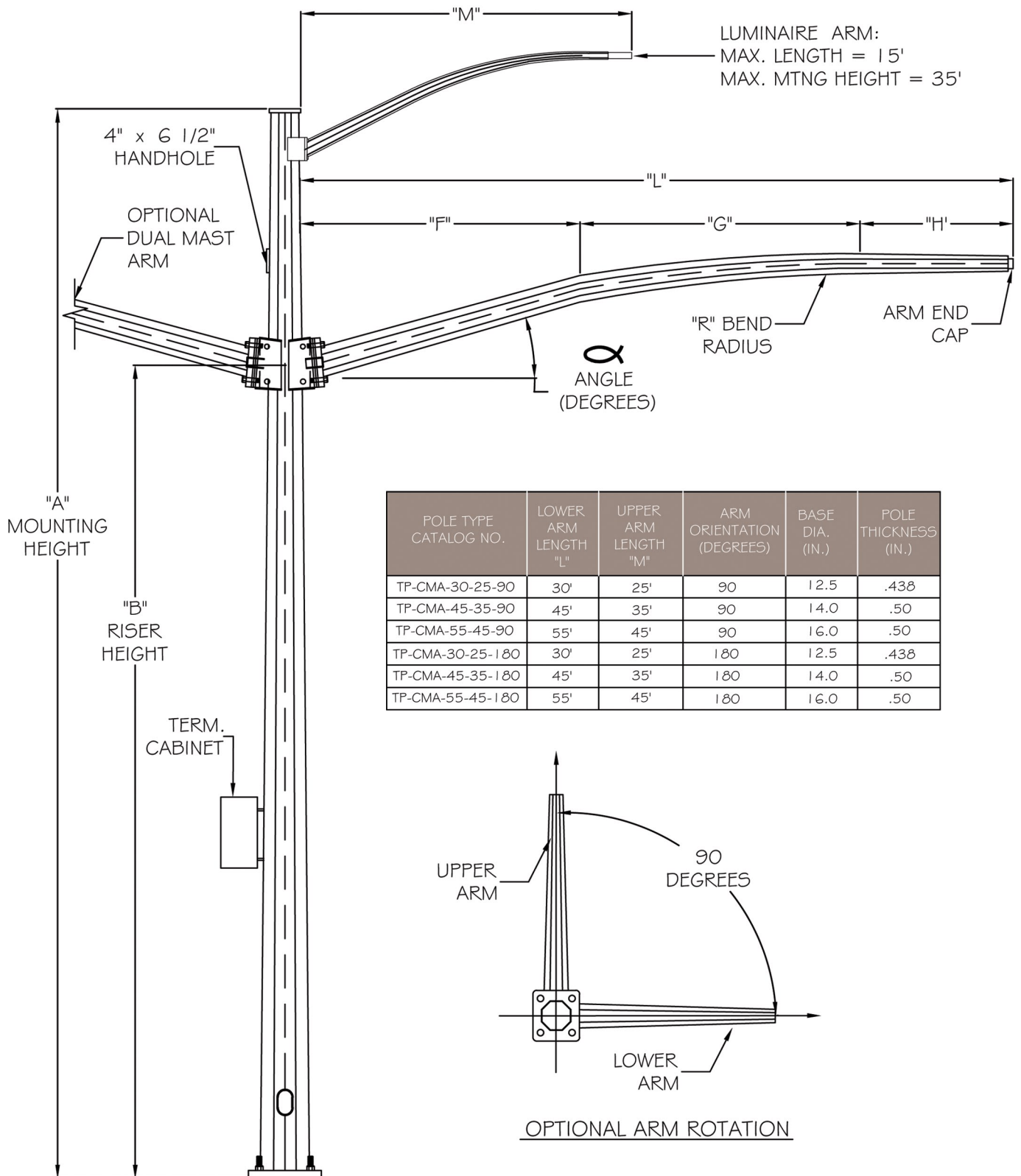


# Traffic Poles Combo Mast Arm



**NOTES:**

Designed in accordance with the AASHTO Standard Specifications in structural supports for highway signs, traffic signals, strain poles, distribution, and transmission poles. Engineered per project requirements.

POLE TYPE	MAST ARM RANGE (FT.)	POLE BASE DIA. (IN.)	POLE THICKNESS (IN.)	ARM BASE DIA. (IN.)	ARM THICKNESS (IN.)	MAX. ALLOWABLE RISER (FT.)
CMA - 20	5' - 20'	12.5	.250	8.5	.188	25.5
CMA - 25	20.5' - 25'	12.5	.250	9.0	.250	24.5
CMA - 30	25.5' - 30'	12.5	.313	9.0	.313	24.0
CMA - 35	30.5' - 35'	12.5	.375	9.5	.313	23.5
CMA - 40 L	35.5' - 40' (1)	12.5	.375	10.0	.313	22.0
CMA - 40 H	35.5' - 40'	14.0	.313	11.5	.250	23.5
CMA - 45	40.5' - 45'	14.0	.375	11.5	.375	20.0
CMA - 50	45.5' - 50'	16.0	.313	12.0 (2)	.375	20.0
CMA - 55	55.5' - 55'	16.0	.375	13.0 (2)	.375	20.0

POLE TYPE	$\alpha$ ° ANGLE	"R" RADIUS (FT.)	"F" ANGLE ST. (FT.)	"C" CURVE (FT.)	"H" STRAIGHT (FT.)
CMA - 20	13	56	5.1	9.8	0.9 - 5.4
CMA - 25	13	74	7.6	12.9	0.3 - 4.8
CMA - 30	13	80	9.2	14.0	2.7 - 7.2
CMA - 35	13	120	7.1	20.9	2.9 - 7.4
CMA - 40 L	10	135	13.8	16.5	5.5 - 10.0
CMA - 40 H	10	135	13.8	16.5	5.5 - 10.0
CMA - 45	10	150	16.9	18.3	5.7 - 10.2
CMA - 50	10	165	18.1	20.2	7.7 - 12.2
CMA - 55	10	185	19.9	22.6	8.5 - 13.0

#### NOTES:

- FABRICATION SHALL CONFORM TO AASHTO'S 2001 STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS... "(100 MPH, 3 SECOND GUST, GUST FACTOR = 1.14, Ir = 1.0 i.e. 50 YEAR RECUR. INT. FATIGUE CATAGORY 2, NO GALLOPING, TRUCK SPEED = 55 MPH)
- POLES AND ARMS SHALL HAVE A TAPER OF .14 IN/FT. EXCEPT ARMS OVER 50 FT. SHALL HAVE A TAPER OF 0.16 IN/FT.
- ARM DIAMETERS AND THICKNESS SHALL BE AS SHOWN ON DRAWING D-104 C.
- POLE END CAP SHALL BE RAIN TIGHT AND MATCH THE SHAPE OF THE POLE WITH AN INCH OF OVERLAP ON ALL SIDES.
- STEEL USED IN TUBES, BASE PLATES, FLANGE PLATES & GUSSET PLATE SHALL CONFORM TO ASTM A572 GR 50 STEEL.
- ANCHOR BOLTS: ASTM A307C, NUT : ASTM A563 GR. DH HEAVY HEX CONNECTION BOLTS : ARMS A325, ANCHOR BOLT AND CONNECTION WASHERS : ASTM F436 TYPE 1
- PIPE TENONS AND WIRE GUIDES: ASTM A53 GR. B.
- GALVANIZING : ASTM A123 & A153