

	TAPERED STEEL MAST ARM POLE			TAPERED STEEL MAST ARM			
POLE DIMENSIONS *	LUMINAIRE ARM	MAST ARM LENGTH	MAST ARM LENGTH	MAST ARM DIMENSIONS *	MTG HT SINGLE	MTG HT TWIN	
	TRUSS BRACKET	()	20'-0"	0.2500"-8.50" x 5.70" x 20'-0"			
0.313"-15.00" x 11.78" x 23'-0"	NO		25'-0"	0.2500"-9.50" x 6.00" x 25'-0"			
0 313"-15 00" x 10 94" x 29'-0"	YES	20, 25, 30	30'-0"	0.2500"-10.50" x 6.30" x 30'-0"			
0.429"-15.00" x 11.78" x 23'-0"	NO		35'-0"	0.4290"-13.50" x 12.10" x 10'-0" 0.1793"-12.68" x 8.96" x 26'-7"			
0.429"-15.00" x 10.94" x 29'-0"	YES	35 & 40	40'-0"	0.5000"-13.50" x 12.10" x 10'-0" 0.2391"-12.80" x 8.38" x 31'-7"		18'-6"	
0.500"-15.50" x 12.28" x 23'-0"	NO	45.8.50		0.4290"-15.00" x 12.90" x 15'-0"	19'-0" &		
0.500"-15.50" x 11.44" x 29'-0"	YES	45 & 50	45'-0" 0.2391"-13.61" x 9.18" x 31'			21'-0"	
0.500"-16.50" x 13.28" x 23'-0"	NO	55	50'-0"	0.5000"-15.50" x 12.70" x 20'-0"			
0.500"-16.50" x 12.44" x 29'-0"	YES	55		0.2391 - 13.41 X 8.36 X 31 - 8			
0.500"-17.50" x 14.28" x 23'-0"	NO	60	55'-0"	0.2391"-13.41" x 8.28" x 36'-8"			
0.500"-17.50" x 13.44" x 29'-0"	YES	60	60'-0"	0.5000"-15.50" x 12.70" x 20'-0" 0.2391"-13.41" x 7.58" x 41'-8"			
(1) DETAIL - 1	6-SIDED SECTI	ION					
OTES:							
OTES:							
IOTES: . THE DESIGN OF THIS STRUC TRUCK INDUCED FATIGUE L	TURE IS BASED ON C. DADS.	ATEGORY II GALLOPING, I	NATURAL WIND (GUSTS, AND			
IOTES: THE DESIGN OF THIS STRUC TRUCK INDUCED FATIGUE L WELD THE LONGITUDINAL A SPLICE WITH A COMPLETE J SPLICE LENGTH PLUS 6 INC ARM SEAM CJP WELD WHEN LONGITUDINAL SEAM WELD MINIMUM OF 6 INCHES FROI	TURE IS BASED ON C DADS. RM SEAM ON THE INB OINT PENETRATION (C IES. THE LAP OF THE. THE FIELD SPLICE IS 3 MUST HAVE 60% MIN 4 TUBE TO PLATE CJP	ATEGORY II GALLOPING, 1 DARD AND OUTBOARD SE JP) WELD WITH A LENGTI ARM SECTIONS CANNOT ERECTED AND IN ITS FIN IMUM PENETRATION OR I WELDS.	NATURAL WIND (ECTIONS OF THE H EQUAL TO THE EXTEND BEYON AL POSITION, IN FUSION AND MU	GUSTS, AND TELESCOPIC FIELD TELESCOPIC FIELD ID THE LONGITUDINAL ADDITION, ST BE CJP FOR A			
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- 7. S.S. DENOTES STAINLESS STEEL. GA. DENOTES GAUGE. O.D. DENOTES OUTSIDE DIAMETER. I.D. DENOTES INSIDE DIAMETER. H.S. DENOTES HIGH STRENGTH.
- 8. ROUND OR 16-SIDED SECTIONS ARE ALLOWED.
- 9. MULTI-PLY SECTIONS ARE NOT ALLOWED.
- 10. A VIBRATION MITIGATION DEVICE IS REQUIRED FOR ARMS GREATER THAN 50 FEET LONG ARM AND SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE END OF THE ARM.

4" ►	4"								
MFG DESIGN ARM LENGTH MO/YR OF MFG STEEL SPEC	MFG DESIGN POLE LENGTH MO/YR OF MFG STEEL SPEC	5½"	MDC POL						
ATTACH TO POLE AND MAST ARM AT LOCATIONS SHOWN 4" FROM BASE OF TUBE BELOW HANDHOLE WITH (4) #8 x 3/8" S.S. TYPE U DRIVE SCREWS. (LETTERS STAMPED IN 3/8" CHARACTERS) STEEL SPEC. REFERS TO THE ASTM SPECIFICATION AND GRADE: "AXXX GR YY"									
2 DETAIL - ARM/	POLE S.S. ID TAG		3 DETAI	L - BASE S.S. ID TAG					
	Michigan Department of Transportation	STANDARD PLAN FOR MAST ARM POLE AND MAST ARM REQUIREMENTS							
	DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	(SPECIAL DETAIL) FHWA APPROVAL	05/17/24 PLAN DATE	SIG-032-B	SHEET 2 OF 6				







