ARM	ROL	ROUND POLES		FOUNDATION
LENGTH	D8	D19	# THK.	TYPE
FT.	IN.	IN.	IN.	IIFC
20	10.0	7.5	.179	30-A
24	11.0	8.5	.179	30-A
28	11.5	9.0	.179	30-A
32	12.0	9.5	.179	30-A
36	12.5	10.0	.179	30-A
40	12.0	9.5	.239	30-B
44	12.5	10.0	.239	30-B
48	13.0	10.5	.239	30-B

ARM	ROUND ARMS					
LENGTH	L1	D1	D2	# THK.	RISE	
FT.	FT.	IN.	IN.	IN.		
20	19.1	6.5	3.8	.179	1'-9"	
24	23.1	7.5	4.3	.179	1'-10"	
28	27.1	8.0	4.2	.179	1'-11"	
32	31.0	9.0	4.7	.179	2'-1"	
36	35.0	9.5	4.6	.179	2'-4"	
40	39.0	9.5	4.1	.239	2'-8"	
44	43.0	10.0	4.1	.239	2'-11"	
48	47.0	10.5	4.1	.239	3'-4"	

D8 = POLE BASE O.D.

D19= POLE TOP O.D. W/OUT LUMINAIRE

D1 = ARM BASE O.D.

D2 = ARM END O.D.

L1 = SHAFT LENGTH

L = NOMINAL ARM LENGTH

THICKNESS SHOWN ARE MINIMUMS, THICKER MATERIALS MAY BE USED.

	·	SHIPF	PING PART	S LIST			
OLES							
				19' POLES WITHOUT LUMINAIRE			
NOMINAL ARM LENGTH		-		SHIP EACH POLE WITH THE FOLLOWING HARDWARE ATTACHED: ENLARGED HAND HOLE, POLE CAP, FIXED ARM CONNECTION BOLTS AND WASHERS.			
FT.	<u> </u>	· · · · · · · · · · · · · · · · · · ·		DESIGNATION		QUAN	TITY
20				20-80		QUAIN	
24				24-80			
28				28-80			
32		 	· · · · · · · · · · · · · · · · · · ·	32-80			
36		·····		36-80			
40			·	40-80			
44				44-80			
48				48-80		· · · · · · · · · · · · · · · · · · ·	
	SIGNAL ARMS	1 PER POLF		<u> </u>			
	TYPE I ARM	 	TYPE II ARM	(2 SIGNAL)	TYPE I	II ARM	(3 SIGNAL)
NOMINAL ARM LENGTH	SHIP EACH TYPE I ARM WITH THE FOLLOWING HARDWARE ATTACHED: 1 CGB CONNECTOR		SHIP EACH TYPE II ARM WITH THE FOLLOWING HARDWARE ATTACHED: 1 BRACKET ASSEMBLY AND 2 CGB CONNECTOR		THE FOLLOWING HARDWARE ATTACHED:		
FT.	DESIGNATION	QUANTITY	DESIGNATION	QUANTITY	DESIGN	IATION	QUANTITY
20	20 I -80		20 II -80				
24	24 I -80		24 II -80			•	
28	28 I -80		28 II -80		28 III	-80	
32			32 II -80		32 III	-80	
36			36 II -80		36 III	-80	
40					40 III	-80	
44					44 III	-80	
48					48 III	-80	
ANCHOR	BOLT ASSEMBI	LIES 1 PER POL	.E				
	ANCHOR ANCHOR BOLT BOLT DIAMETER LENGTH		EACH ANCHOR BOLT ASSEMBLY CONSISTS OF THE FOLLOWING TOP AND BOTTOM TEMPLATES, 4 ANCHOR BOLTS, 8 NUTS, 8 FLAT WASHERS, 4 LOCK WASHERS AND 4 NUT ANCHOR DEVICES (TYPE 2) PER STANDARD DRAWING 10.				
			OLIANITITY	TEMPLATES MA	AY BE RI	EMOVED	FOR SHIPMENT
			QUANTITY	I IEMPLAIES MA			I OIN SIIII WILINI
DIAM	1/2"	3'-4"	QUANTIT	I TEMPLATES MA			TOR SIM WEIGH
DIAM 1-1	1/2" 3/4"	3'-4" 3'-10"	QUANTITY	I IEMPLAIES MA			TON SIM WENT

SUPPLY "OPTION A" UNLESS OTHERWISE NOTED.

GENERAL NOTES :

DESIGN CONFORMS TO 1975 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS AND INTERIM SPECIFICATIONS THERETO. DESIGN WIND SPEED EQUALS 80 MPH PLUS A 1.3 GUST FACTOR.

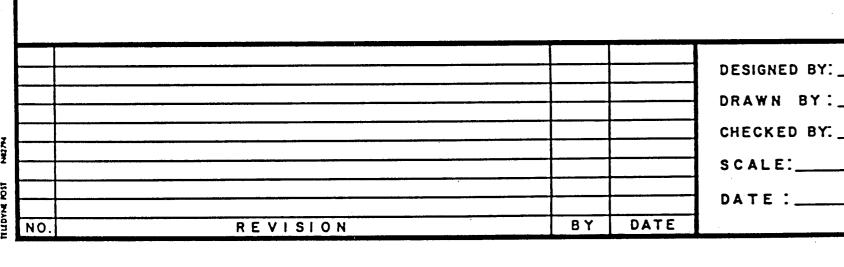
THE SPECIFIED LUMINAIRE LOAD APPLIED AT THE END OF THE LUMINAIRE ARM EQUALS 75 LBS. VERTICAL DEAD LOAD PLUS THE HORIZONTAL WIND LOAD ON AN EFFECTIVE PROJECTED AREA OF 1.5 SQ.FT. THE SPECIFIED SIGNAL LOAD APPLIED AT THE END OF THE TRAFFIC SIGNAL ARM EQUALS 180 LBS. VERTICAL DEAD LOAD PLUS THE HORIZONTAL WIND LOAD ON AN EFFECTIVE PROJECTED AREA OF 32.4 SQ.FT. (ACTUAL AREA TIMES DRAG COEFFICIENT).

FABRICATION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND WITH THE DETAILS, DIMENSIONS, AND WELD PROCEDURES SHOWN HEREIN. WELD REFERENCES CALL FOR PREAPPROVED WELD PROCEDURES WHICH THE FABRICATOR MUST OBTAIN PRIOR TO FABRICATION. MISCELLANEOUS WELDS WHICH DO NOT CALL FOR PREAPPROVED WELD PROCEDURES ARE NEVERTHELESS SUBJECT TO REJECTION FOR POOR WORKMANSHIP, MATERIALS, FABRICATION TOLERANCES, AND SHIPPING PRACTICES SHALL MEET THE REQUIREMENTS OF THIS SHEET AND THE SPECIFICATIONS.

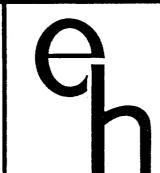
UNLESS OTHERWISE NOTED, ALL PARTS SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS.

SPECIAL DESIGNS REQUIRE SUBMISSION OF SHOP DRAWINGS IN ACCORDANCE WITH THE ITEM "STEEL STRUCTURES".

ALL MAST ARMS 35' AND GREATER IN LENGTH SHALL HAVE DAMPENING PLATES INSTALLED.



WILLIAM IN HANCH
26755
GISTER



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SINGLE MAST ARM
ASSEMBLIES
(80 MPH WIND ZONE)

SHEET NO. 13

OF 31 SHEETS

JOB NO.