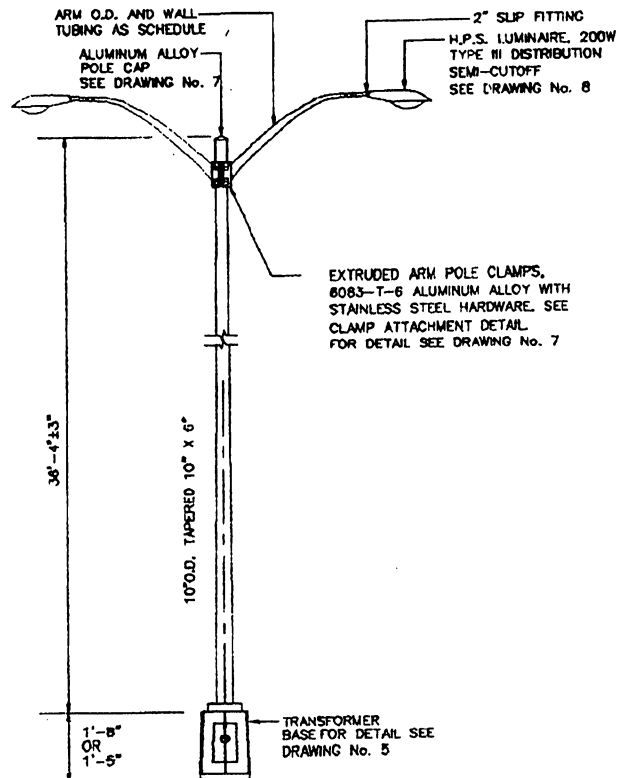


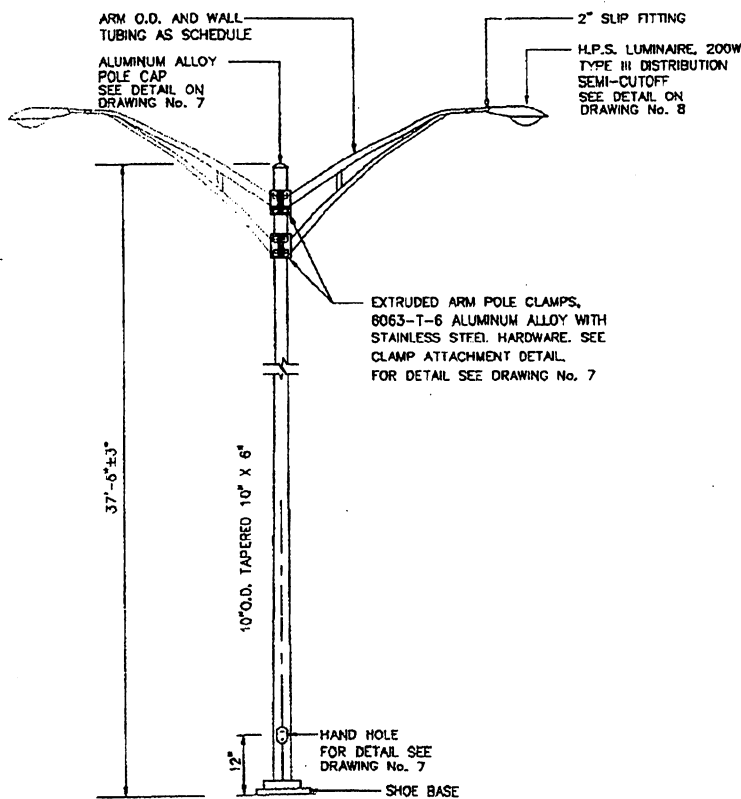
ALUMINUM LIGHTING POLE. (4' & 8') ARM

NOT TO SCALE



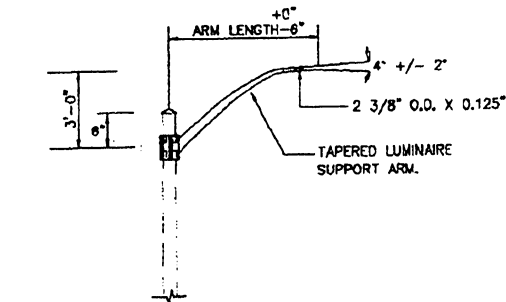
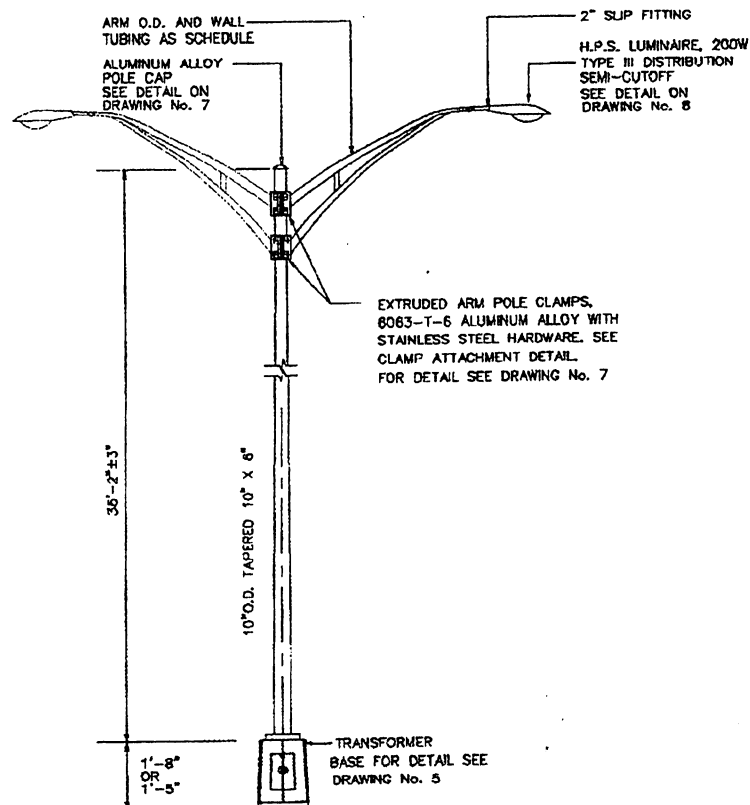
ALUMINUM LIGHTING POLE. (12' & 15') ARM

NOT TO SCALE



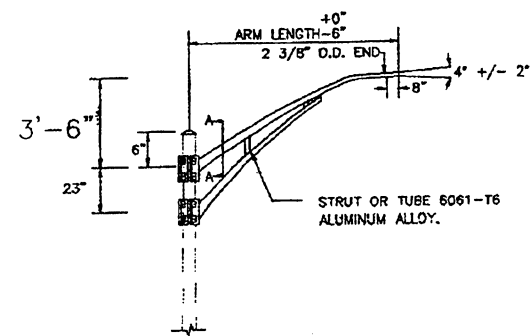
ALUMINUM LIGHTING POLE. (12' & 15') ARM

NOT TO SCALE



SINGLE MEMBER LUMINAIRE SUPPORT ARM DETAIL

NOT TO SCALE



DOUBLE MEMBER LUMINAIRE SUPPORT ARM DETAIL

NOT TO SCALE

SHAFT DIMENSIONS SCHEDULE			
BRACKET + ARMS		MINIMUM SHAFT WALL THICKNESS	
SINGLE	DOUBLE	ALLOY 6063-T-6	ALLOY 6005-T-5
4' OR 8'		10" X 6" X 0.156	10" X 6" X 0.156
	4' OR 8'	10" X 6" X 0.219	10" X 6" X 0.156
	12'	10" X 6" X 0.188	10" X 6" X 0.156
	15'	10" X 6" X 0.188	10" X 6" X 0.156
	12'	10" X 6" X 0.250	10" X 6" X 0.170
	15'	10" X 6" X 0.312	10" X 6" X 0.188

SHAFT DIMENSIONS ARE GIVEN IN INCHES UNLESS OTHERWISE INDICATED OTHERWISE, AND ARRANGED BOTTOM DIAMETER X TOP DIAMETER X WALL THICKNESS.

ARM OVERALL DIAMETER AND WALL THICKNESS SCHEDULE			
LENGTH	MEMBER	6063-TUBING	6061-PIPE
4' & 8'	SINGLE MEMBER	(3 1/2" TO 2 3/8") X 0.125	
12'	UPPER LOWER	3.5" X 0.125 1.5" X 0.145	2.5" X 0.203 2.0" X 0.218
15'	UPPER LOWER	4.0" X 0.125 1.5" X 0.145	2.5" X 0.203 2.5" X 0.203

DIMENSIONS ARE ARRANGED IN NOMINAL DIAMETER X WALL THICKNESS

SHAFT SPECIFICATIONS

POLE SHAFT SHALL HAVE STRUCTURAL CAPABILITIES EQUAL TO OR EXCEEDING THOSE REQUIRED BY AASHTO STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LIGHTING, AND TRAFFIC SIGNALS. THIS INCLUDES WIND LOAD OF 90 MILES PER HOUR WITH A GUST SPEED FACTOR OF 1.3. ICE LOAD NEED NOT BE INCLUDED.

POLE SHAFT SHALL BE FABRICATED FROM ALUMINUM ALLOY 6063 HAVING T-6 TEMPER AFTER FABRICATION OR ALLOY 6005 HAVING T-5 TEMPER AFTER FABRICATION.

POLE SHAFT SHALL BE ANNULAR POLISHED WITH NO LESS THAN 36 GRITS. TOLERANCES ARE AS SHOWN ON THE DRAWING OR IN ACCORDANCE WITH ALUMINUM ASSOCIATION REQUIREMENTS AS APPROPRIATE.

WELDING OF ALUMINUM STRUCTURES SHALL BE IN ACCORDANCE WITH SECTION 1.5.3 OF AASHTO STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

POLES FABRICATED FROM ALLOY 6005 WITH WELDS IN STRESSED AREAS, SHALL BE REINFORCED IN THE AREAS OF THE WELD TO GIVE EQUIVALENT STRENGTH OF UNWELDED SHAFT SECTION.

GROUND NUT SHALL BE LOCATED ON
1- SHAFT, OPPOSITE TO HAND HOLE
2- TRANSFORMER BASE OPPOSITE TO DOOR OPENING.

STANDARD LOCATION OF HAND HOLE SHALL BE 90° FROM LUMINAIRE SUPPORT ARM AXIS OR 0° WHEN INSTALLED IN CONCRETE BARRIERS.

EFFECTIVE DATE: NOVEMBER 1996

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

RECOMMENDED BY: *[Signature]*
DESIGN AREA DIRECTOR
DATE: *27.1.96*

APPROVED BY: *[Signature]*
EXECUTIVE DIRECTOR
DATE: *27 enero 1997*

APPROVED BY: *[Signature]*
DIST. ENG. SUPERINT. P.R.E.P.A.
DATE: *12/1/96*

DATE	REVISION	BY

STD. DWG. 2 OF 17