

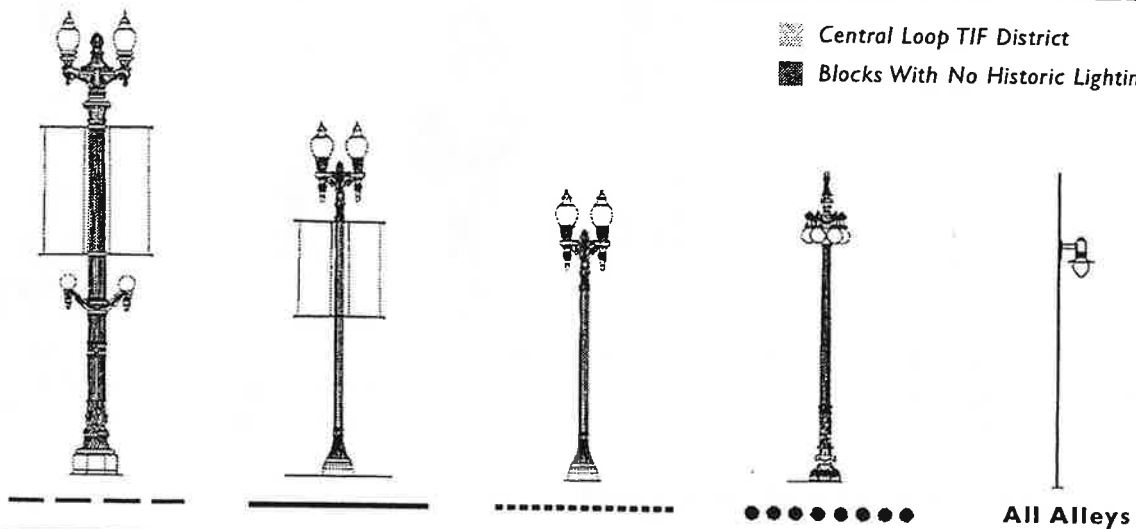
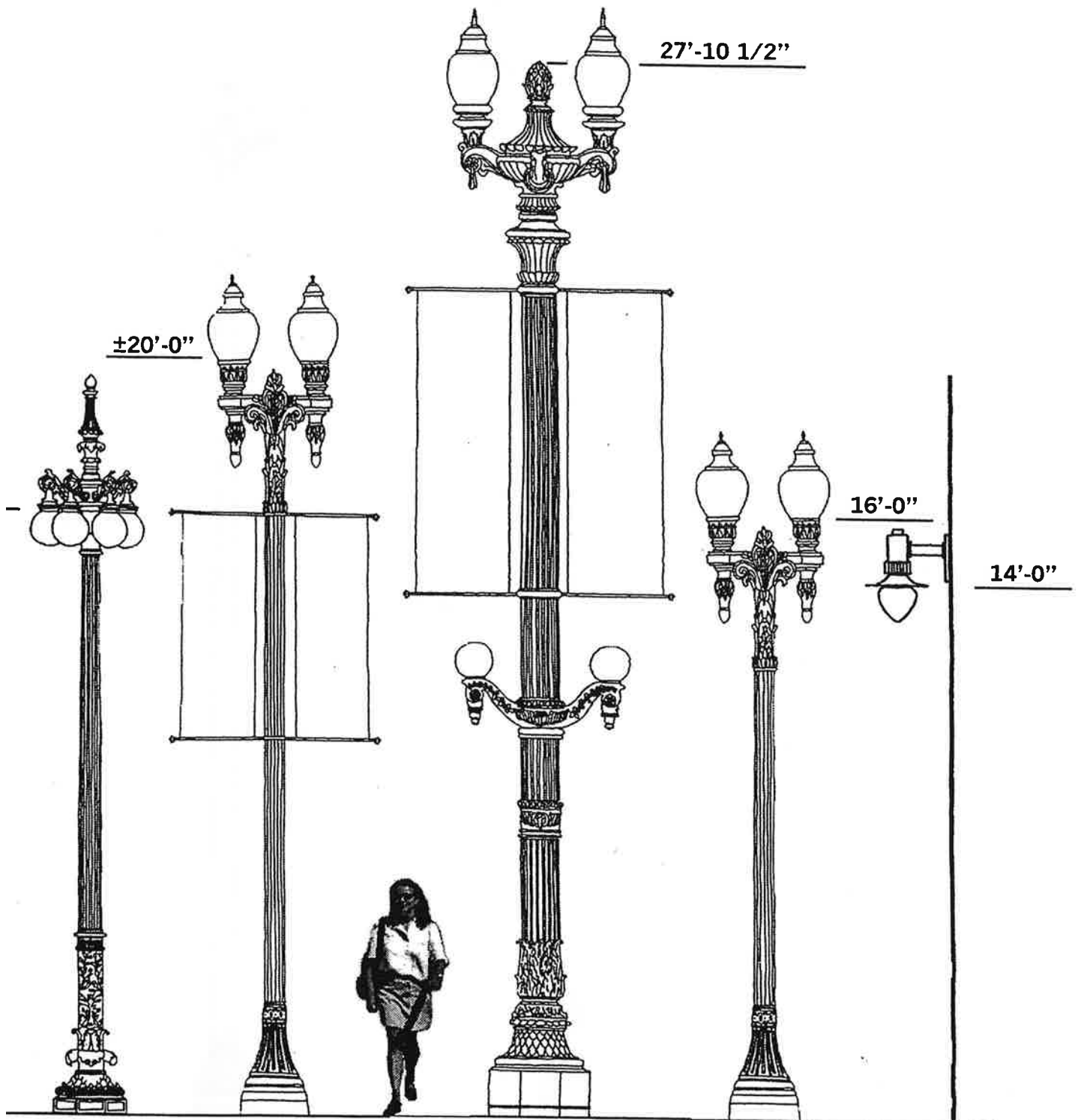


STREET LIGHTING MASTER PLAN

-  Central Loop TIF District
-  Blocks With No Historic Lighting



DOWNTOWN LIGHTING MASTER PLAN



Electrolier
Michigan Avenue
& Wacker Drive

**Extended Loop
Light with
Banners**
All Other Streets

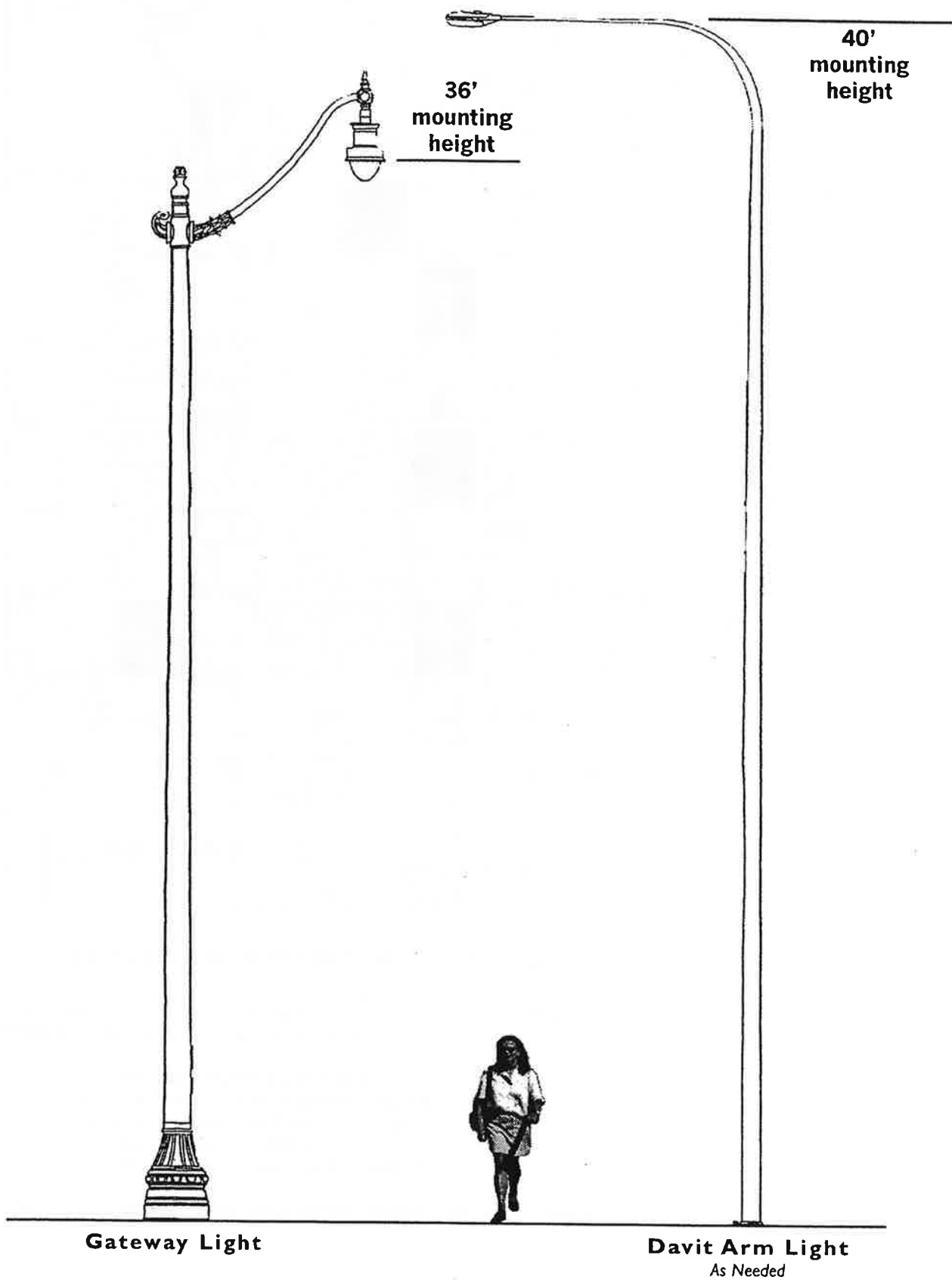
State Street Light
State Street

**Loop
Light**
El streets

**Alley
Light**
All Alleys

RECOMMENDED STREET LIGHTS

DOWNTOWN LIGHTING MASTER PLAN



RECOMMENDED STREET LIGHTS

DOWNTOWN LIGHTING MASTER PLAN

3.3 The Commercial Street Light Selection Matrix

The Commercial Street Light Selection Matrix will guide the work of City of Chicago agencies and design teams working on City street lighting projects.

Using key parameters and characteristics, the appropriate street light for the street can be defined. Key parameters include right of way widths and street wall heights. Additional characteristics include sidewalk width, campus districts, upper floor use, the density of the tree canopy and the reflectivity of the of the street wall.

The matrix sets forth recommended fixture types and spacing according to these parameters and conditions. Once the street lighting options recommended by the matrix has been identified, the installation scheme can be developed by the design team, taking into consideration the individual project requirements and budget.

In almost all cases the Chicago Pole is the first choice

Alternative choices are available for streets that are heavily used by pedestrians. In most cases this will be the Historic Twin Arm (Short Loop Light) or the Single Head Acorn. In addition to these potential variances from the Chicago Pole, neighborhoods may compose unique street light schemes by adding neighborhood identifiers, planting baskets or banners.

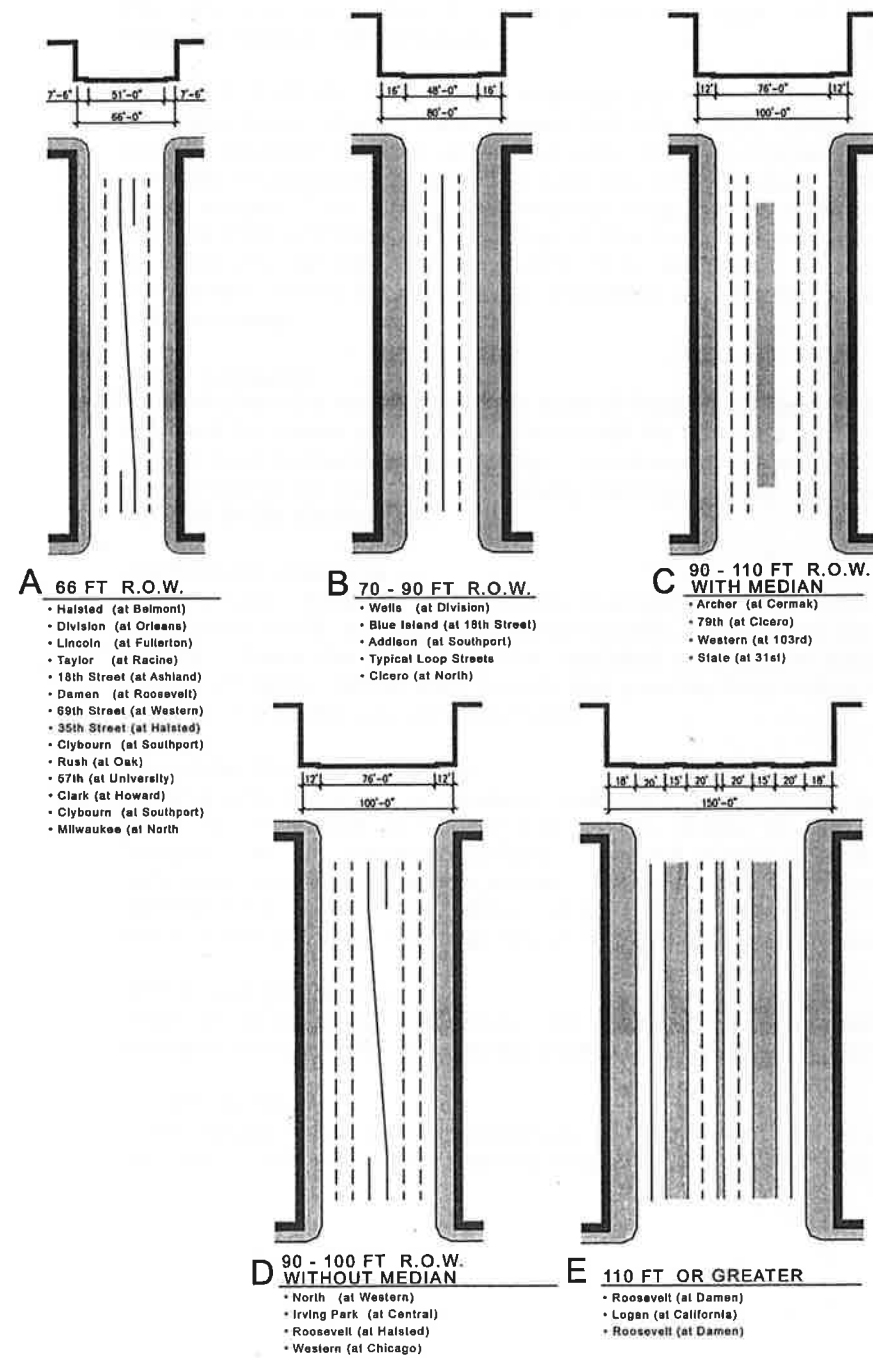
3.3.1 How to Use the Commercial Street Lighting Matrix

To identify the street light options provided by the new commercial street light palette follow these steps

1. Confirm the street type, which are defined by right of way width and median characteristics (A, B, C, D, E).
2. Determine the street wall height. (a, b, c).
3. Identify the street light options provided by the matrix in the "Appropriate Pole Selection" column.

See the sections following the matrix for additional information on terms, assumptions, attachments, etc.

R.O.W. EXAMPLES



SELECTION CRITERIA

- Right of Way
 - A 66 ft.
 - B 70 ft. - 90 ft.
 - C 90 ft. - 110 ft. with median
 - D 90 ft. - 110 ft. without median
 - E 110 ft. - greater (Median streets)
- Street Wall Height
 - a One - Two Story
 - b Three - Four Story
 - c Five Story and Greater

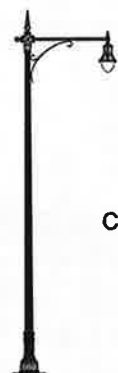
ADDITIONAL CONSIDERATIONS

- Sidewalk Width
 - 1 6 ft. - 8 ft.
 - 2 8 ft. - 12 ft.
 - 3 12 ft. - 16 ft.
- Campus Overlay
 - 1 None
 - 2 Single use
 - 3 Institutional
 - 4 Historic
- Upper story use (residential use may require installation of directional shields)
- Landscape Treatment (if consistent dense tree canopy, use 0.8 factor in illumination calculations)
- Street Wall Surface Reflectance (use average reflectance in illumination calculations)

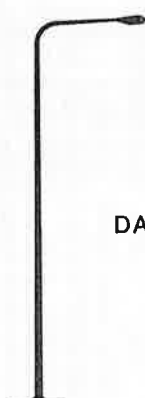
STREET LIGHT SELECTION MATRIX - COMMERCIAL STREETS

Street Type	Appropriate Pole Selection	Spacing Min./Max.	Lamp Type	Optics Category	Light Levels Roadway	Light Levels Pedestrian	Light Levels Intersection	Average/Min Ratio
A-a	Historic Twin Arm	90-110	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn	40-50	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
A-b, A-c	Chicago Pole	125-145	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Historic Twin Arm	90-110	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn	40-50	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Chicago Pole with:	150-195	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn	75-98	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Chicago Pole with Pedestrian Attachment with:	140-190	310 / 50	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
Single Head Acorn	140-190	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1	
B-a, B-b, B-c	Chicago Pole	115-135	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Historic Twin Arm	85-105	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Chicago Pole with:	115-135	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn	58-68	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Chicago Pole with Pedestrian Attachment with:	115-135	310 / 50	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn	115-135	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
C-a, C-b, C-c	Chicago Pole on Walkway	90-100	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Historic Twin Arm on Walkway	40-65	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Double Chicago Pole on Median	90-120		III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Double Chicago Pole on Median with	115-140	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn on Walkway	55-70	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Chicago Pole with:	90-100	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn	45-50	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Chicago Pole with Pedestrian Attachment with:	90-100	310 / 50	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn	90-100	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	D-a, D-b, D-c	Chicago Pole	90-100	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0
Historic Twin Arm		40-65	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
Chicago Pole with:		90-100	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
Single Head Acorn		45-50	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
Chicago Pole with Pedestrian Attachment with:		90-100	310 / 50	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
Single Head Acorn		90-100	50w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
E-a, E-b, E-c	Chicago Pole on Main Roadway with:	115-165	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Historic Twin Arm on secondary road	70-110	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Chicago Pole on Main Roadway with:	115-165	310w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1
	Single Head Acorn on secondary road	35-55	150w (HPS)	III	2.5-3.5	1.5-2.5h / 1.0-4.0v	5.0-7.0	3 to 1

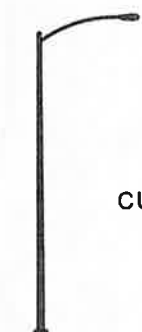
- Notes:
- Spacing is in feet.
 - Roadway Light Levels are in Horiz. F.C. Avg Min / Avg Max
 - Pedestrian Light Levels are Avg Min / Avg Max
 - Intersection Light Levels are in Horiz. F.C. Min / Max
 - Single Acorns will require Cut-off Mast Arm poles at all intersections.
 - Twin Acorns may require Cut-off Mast Arm poles at intersections.
 - Median width must be 2 times typical Pole offset to allow Poles on Median.



CHICAGO POLES

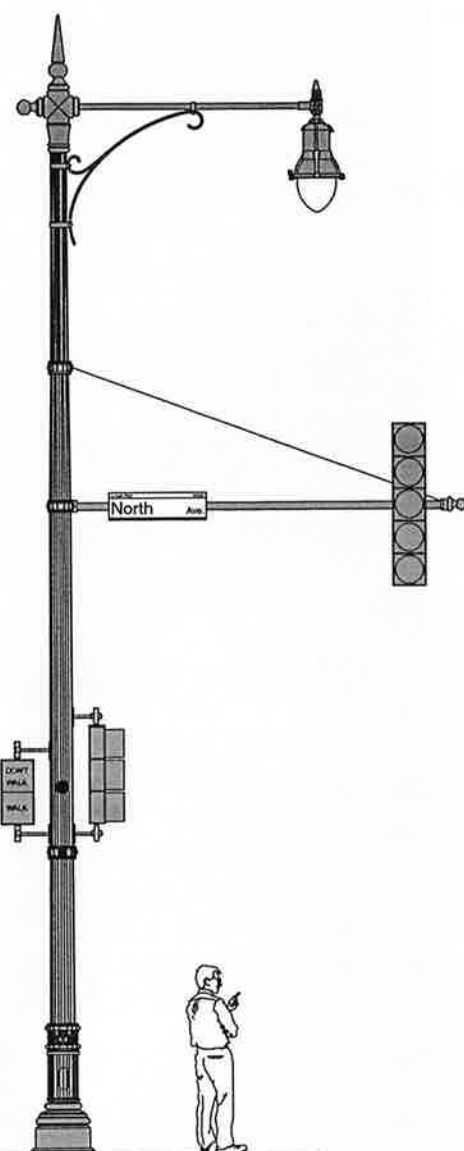


DAVIT POLES

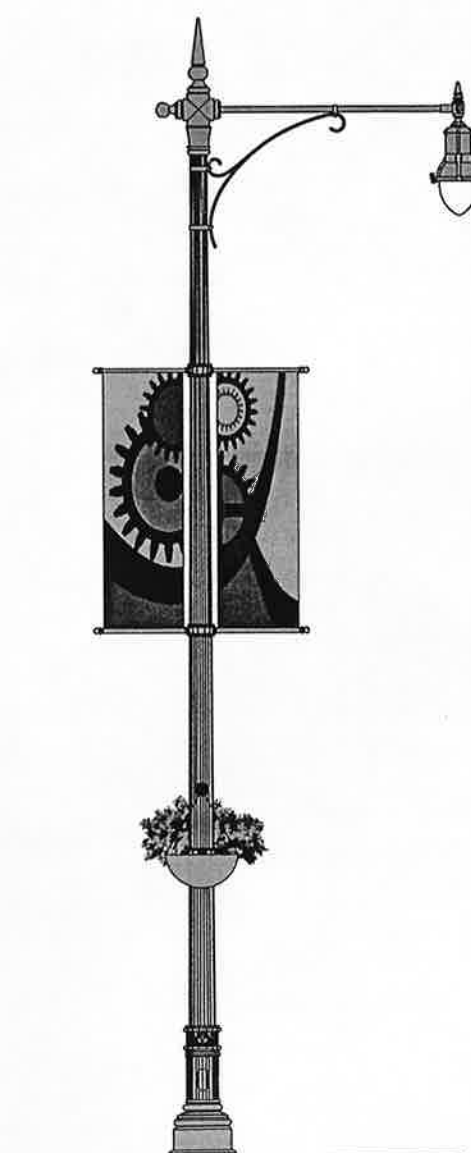


CUT-OFF MAST ARMS

POLES WHICH MAY ACCEPT SIGNAL AND SIGNAGE ATTACHMENTS



CHICAGO POLE WITH SIGNAL AND SIGNAGE ATTACHMENTS

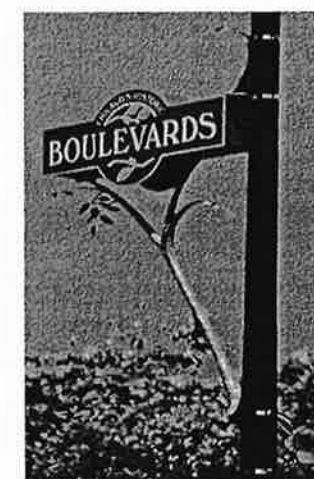


CHICAGO POLE WITH BANNER AND BASKET ATTACHMENTS



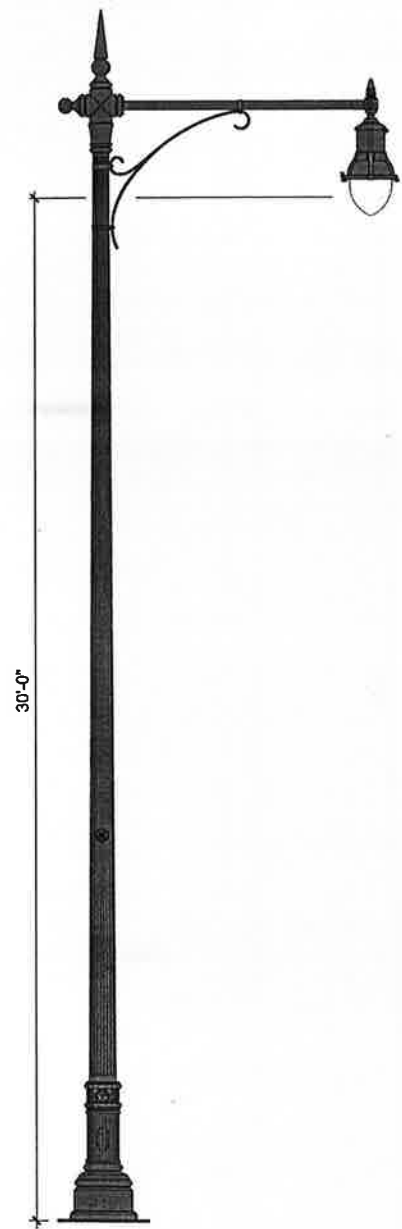
DISTRICT BANNERS

SEASONAL PLANTER BASKETS

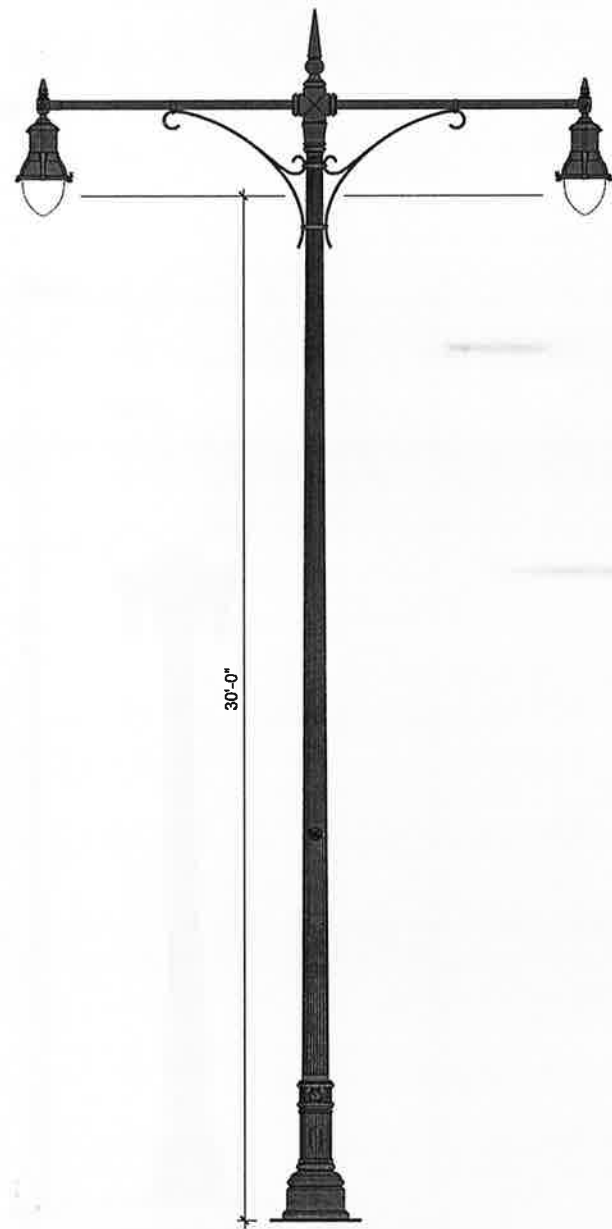


DISTRICT IDENTIFIERS SIGNS

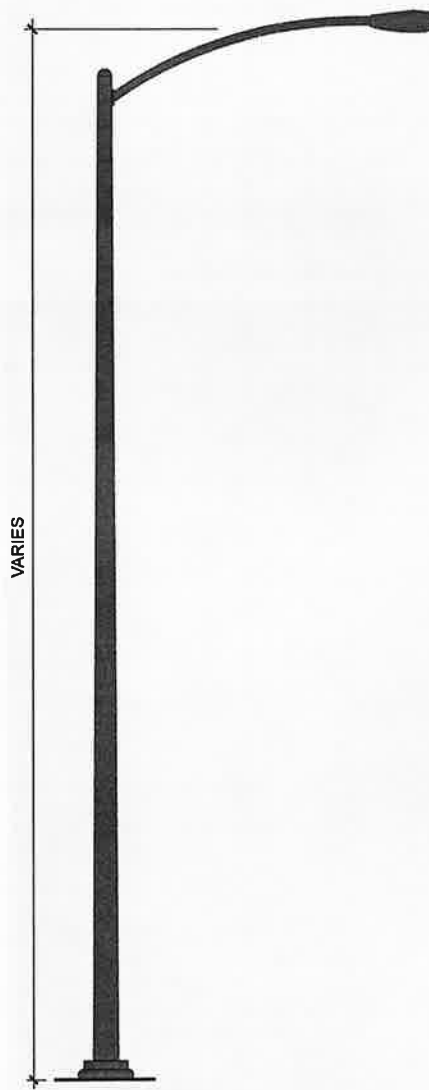
ATTACHMENTS FOR ENHANCEMENT AND NEIGHBORHOOD IDENTITY



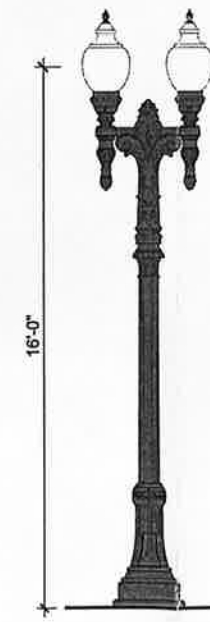
CHICAGO POLE



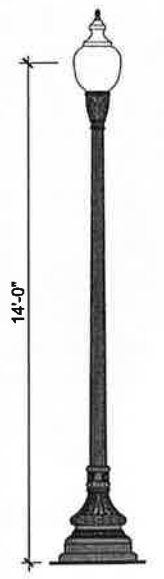
DOUBLE CHICAGO POLE



CUT-OFF MAST ARM
RETROFIT EXISTING POLES ONLY

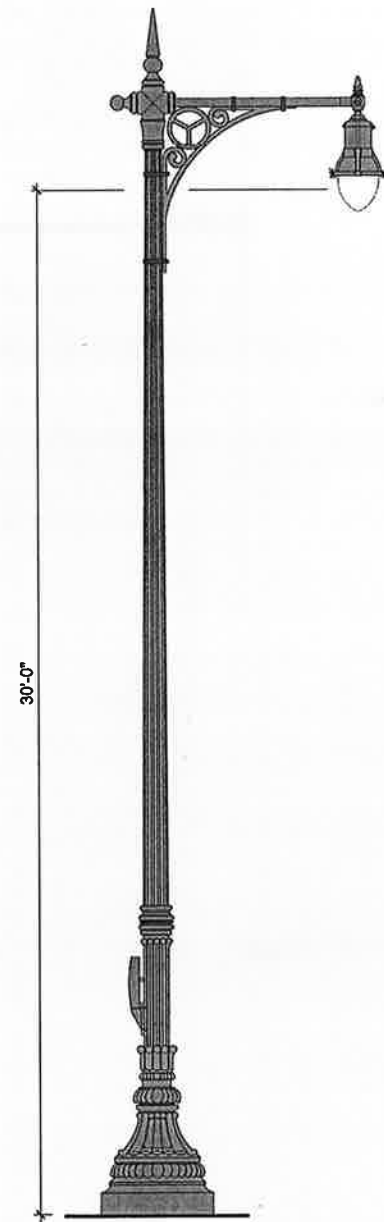


SHORT LOOP POLE

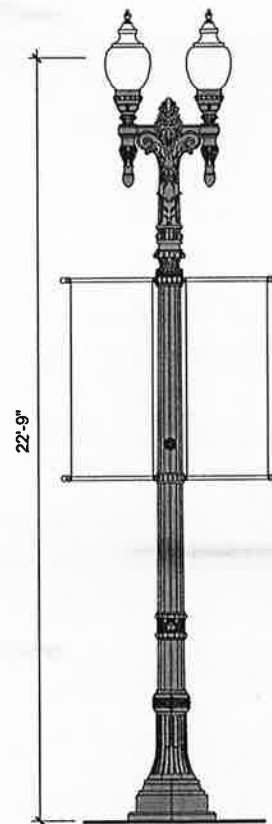


SINGLE ACORN POLE

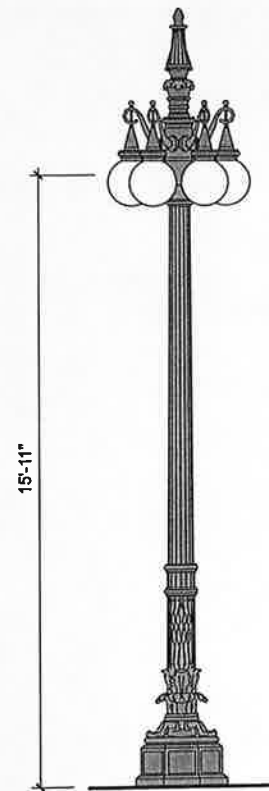
3.2.2 Loop Area Light Poles



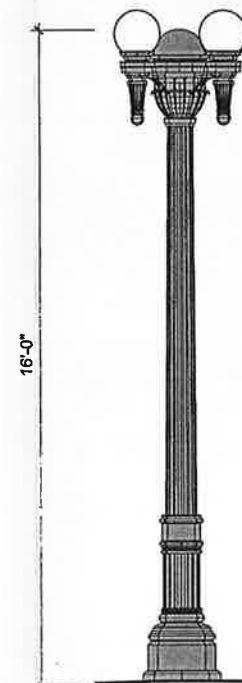
WACKER POLE
PROPOSED FOR WACKER



EXTENDED LOOP LIGHT
LOOP AND WEST LOOP

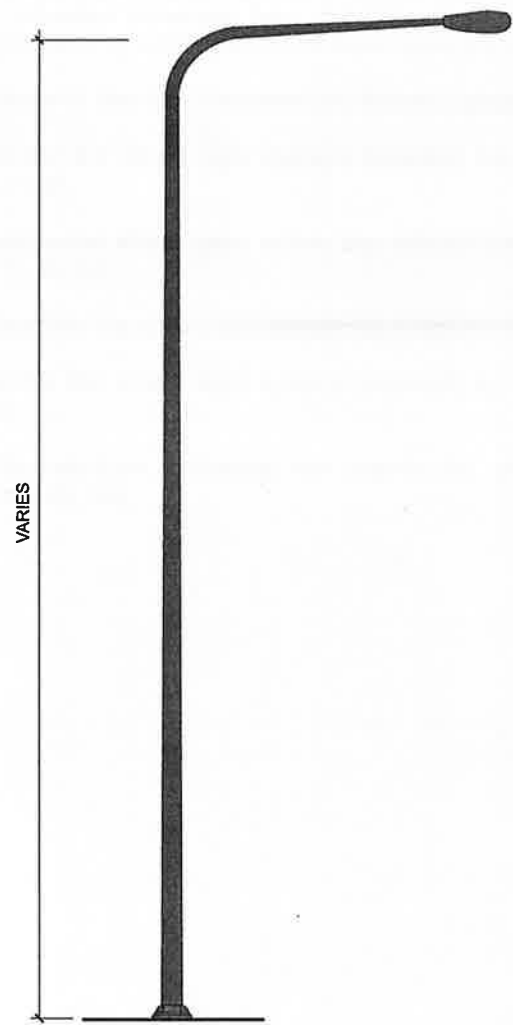


ELECTROLIER
USE ONLY ON WACKER AND CONGRESS

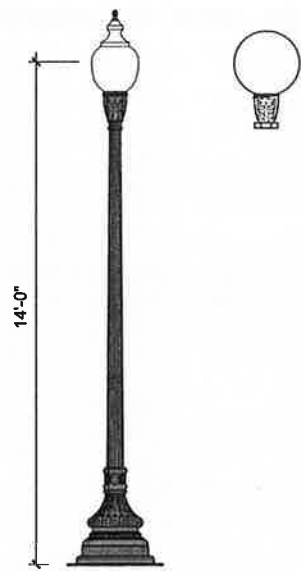


WABASH POLE
PROPOSED FOR WABASH

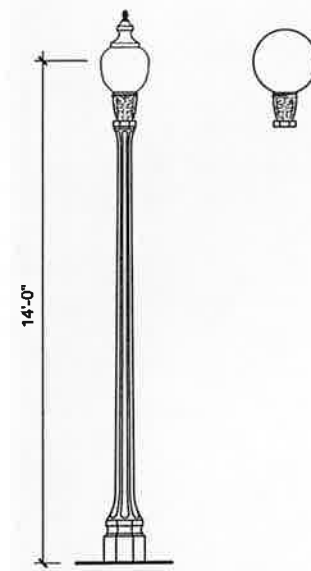
3.2.3 Special Condition Light Poles



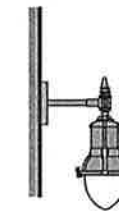
DAVIT POLE
HIGHWAY / INDUSTRIAL



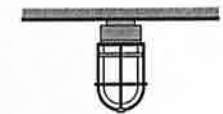
ACORN OR GLOBE STEEL POLE
PARK / PLAZA



ACORN OR GLOBE CONCRETE POLE
PARK / PLAZA



TEARDROP FIXTURE
ALLEY



JELLY-JAR FIXTURE
"L" STRUCTURE