#### CITY OF TUCSON, ARIZONA DEPARTMENT OF TRANSPORTATION

# ENGINEERING DIVISION ACTIVE PRACTICES GUIDELINES

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APPROVED BY:	BIY DATE:	9/9/58
	City Engineer	
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SUBJECT: STREET LIGHTING POLES

DESIGN CRITERIA FOR THE SELECTION OF BENT VS. STANDARD

POLES

## 1.01 PURPOSE

- A. To establish design criteria facilitating the selection of appropriate street lighting pole type for the intended application.
- B. To establish the bent pole (TS 4-45 type A, B, or C angled) as current City of Tucson standard street lighting pole.

#### 1.02 BACKGROUND

A. Historically, both the City of Tucson and Pima County have utilized the "straight" street lighting pole as standard. Now, given current availability, the "bent" pole becomes a feasible alternative to the "straight" pole for reasons of economy and aesthetic appeal. Significant savings have been achieved where utilization of the "bent" pole avoided the costly relocation of overhead utilities.

### 1.03 GENERAL PRACTICE

A. It shall be the general practice of the Engineering Division of the City of Tucson to utilize the "bent" pole street lighting design on all major collector and arterial roadways, except under circumstances as set forth in the following section.

#### 1.04 EXCEPTIONS

A. Where the project consists of a relatively short segment (one mile or less) between previously installed continuous straight pole installation.

- B. Where the new pole installation would follow several miles of existing straight pole installation on a major arterial, (i.e., Speedway Boulevard, between Euclid Avenue and Alvernon Way, where it follows existing gateway improvements east of I-10).
- C. Where no logical transition point exists, such as major intersections and the point of demarcation would appear to be random; (for example, Tanque Verde, Bear Canyon Road east to city limits—where Pima County has installed straight poles throughout the Tanque Verde/Wrightstown Road grade separated interchange).
- D. Where there are no conflicts with overhead utilities, and where conditions 1.04 A, B, or C do not apply, bids shall be obtained on both straight and bent poles. Bent poles will be preferred. If the bent pole bid exceeds the cost of straight poles, a decision will be made as to whether the extra cost of the bent poles is sufficiently offset by aesthetic considerations.
- E. When the decision is made to install straight poles, the affected utility companies shall be informed in writing, and continuing emphasis shall be placed upon appropriate coordination with those affected.

GDT/cme

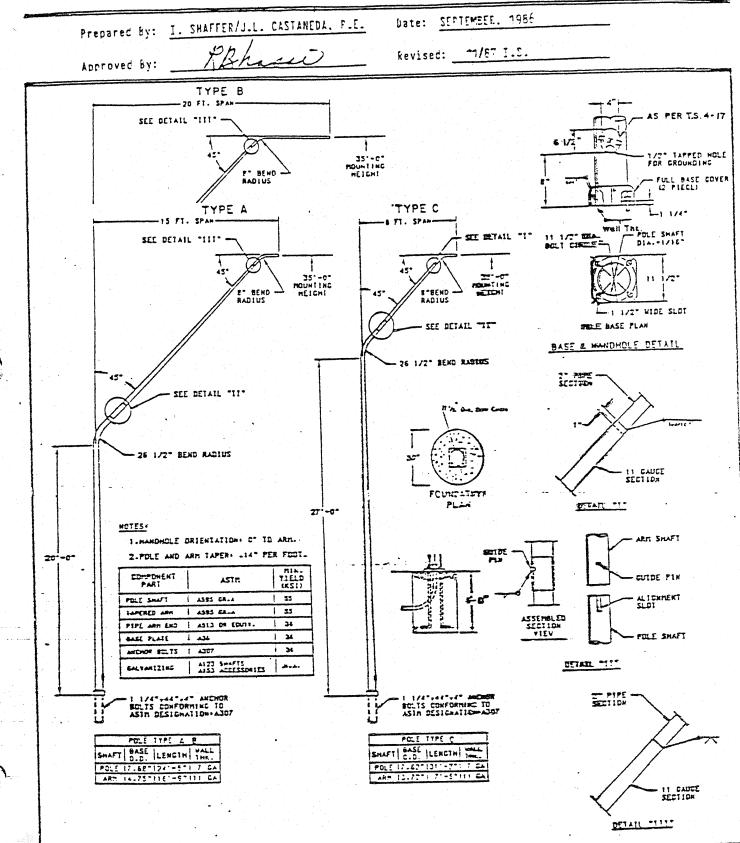
Attachments: Standard Street Lighting Poles

OlB

GDT099

# TYPE 2 STREET LIGHTING POLE

TRAFFIC ENGINEERING DIVISION DEPARTMENT OF TRANSPORTATION CITY OF TUCSON



Didition Detail No. 1.0.

STRUCTURE SLIPFIT PROCEDURE FOR CITY OF TUCSON TYPES A. B. AND C POLES

#### SLIPFIT PROCEDURE:

- 1. LAY STRUCTURE ON ITS SIDE VITH GUIDE PIN AND SLOT IN ALIGNMENT. SEE FIGURE 1.
- 2. TELESCOPE THE POLE SHAFT INTO THE ARM SHAFT TO ENGAGE SECTIONS. SEE FIGURE 2.
- 3. WITH THE USE OF A COME-A-LONG. SLIPFIT THE SECTIONS TOGETHER TO ACHIEVE AT LEAST MINIMUM SLIP AND WITHOUT EXCEEDING THE MAXIMUM. SEE FIGURE 3 FOR MINIMUM AND MAXIMUM RANGE.

