TAPERED TUBE

COMBINATION POLE

BASE PLATE

POLE DETAILS

ANCHOR TYPE SHACKLE

SPAN WIRE CLAMP (TYP.)

NOTES:

1. Signal cable entrance shall be a 3" blind half coupling provided in each pole.

2. Service wire entrance shall be a 1 1/4" blind half coupling, when required by the plans. Orientation and height shall be as required by the plans.

3. Span wire clamp shall be galvanized steel capable of resisting a load of 12,500 pounds minimum without permanent distortion.

4. For foundation details, including anchor bolt details, see Standard Construction Drawing (SCD) TC-21.20.

5. The base plate shall be welded to two ply poles with AWS prequalified welds in conformance with CMS 730.04.

6. Alternate messenger wire assembly (wrapping) as shown on SCD TC-22.10 or TC-84.20 may be used in lieu of the span wire clamp if specified in the construction plans.

7. A minimum of one full bolt thread shall remain above the anchor nut.

8. All unused couplings shall be provided with a removable galvanized cast iron plug.

9. For construction details and location of handholes, see SCD TC-29.10.

10. For pole and plate dimensions, see sheet 2.

HANDHOLE

POLE IDENTIFICATION TAG

ANCHOR BASE

3" x 5"

Nom. Handhole

Span Wire Clamp

(See Note 6)

Pole Cap

3 Set Screws

(Include)

J Hook

3/8" blind half coupling (if required, see Note 2)

1 1/4" blind half coupling

Span Wire Clamp

(See Note 6)

3/8" Hex Nut and Lockwasher

1/4" Steel Clamp

1/4" dia. U-bolt

1/4" dia. Hole for 1" Sch 80 Pipe x 1 3/4" long

1/4" Thick Clevis

Anchor Type Shackles

1/4" dia. Hole for 1/2" 1/4" long

1/4" dia. Holes for 3/8" x 2" S.S. Cotter Pins

See Note 5

See Note 6

NOTES:

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9. For construction details and location of handholes, see SCD TC-29.10.

10. For pole and plate dimensions, see sheet 2.
### Standard Highway Construction Drawing

**SCD Number**: TC-81.10

**Engineers**: E. V. Studebaker, R. A. Beavers, and W. J. Duenkel

**Transportation Administrator**: State of Ohio Department of Transportation

**Date**: 07-15-2018

**Dimensions**: All dimensions in inches, unless otherwise noted

**Notes**:

1. Designs 1 through 5 tapered steel pole shall be ASTM A595M steel with a minimum of 55,000 PSI yield stress after galvanizing.

2. Designs 1 thru 5 tapered steel pole shall be ASTM A595M steel with a minimum of 55,000 PSI yield strength after galvanizing. Designs 6 thru 14 shall be ASTM A572M grade 55 or 65 steel with a minimum of 55,000 or 65,000 PSI yield strength after galvanizing, respectively.

3. Design 13 and 14 strain poles are AASHTO 1994 compliant.

#### Table: Strain Pole Details

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<th>Pole (FT KIPS) at Yield</th>
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This drawing replaces TC-81.10 dated 01-15-2016.