

Transmission & Distribution
Material & Installation Specification

Copper Conductor Hand-Made Insulator Ties

I. Quantity

The base bid shall include the quantities of the specified sizes of copper conductor hand-made insulator ties supplied and installed as hereinafter specified.

II. Material

GENERAL

A. Copper Conductor Hand-made Insulator Ties conforming to the Division of Power TDMIS-24 specification and approved shop drawings shall be installed as required.

PRODUCT REQUIREMENTS

A. Copper Conductor Hand-made Insulator Ties shall be installed as shown on drawing TDMIS-24 using #6 solid soft drawn copper wire for conductors sizes up to #4/0 AWG.

B. Copper Conductor Hand-made Insulator Ties shall be installed as shown on drawing TDMIS-24 using #4 solid soft drawn copper wire for conductor sizes larger than #4/0 AWG.

WARRANTY

N/A

III. Installation

A. As shown on drawing TDMIS-24

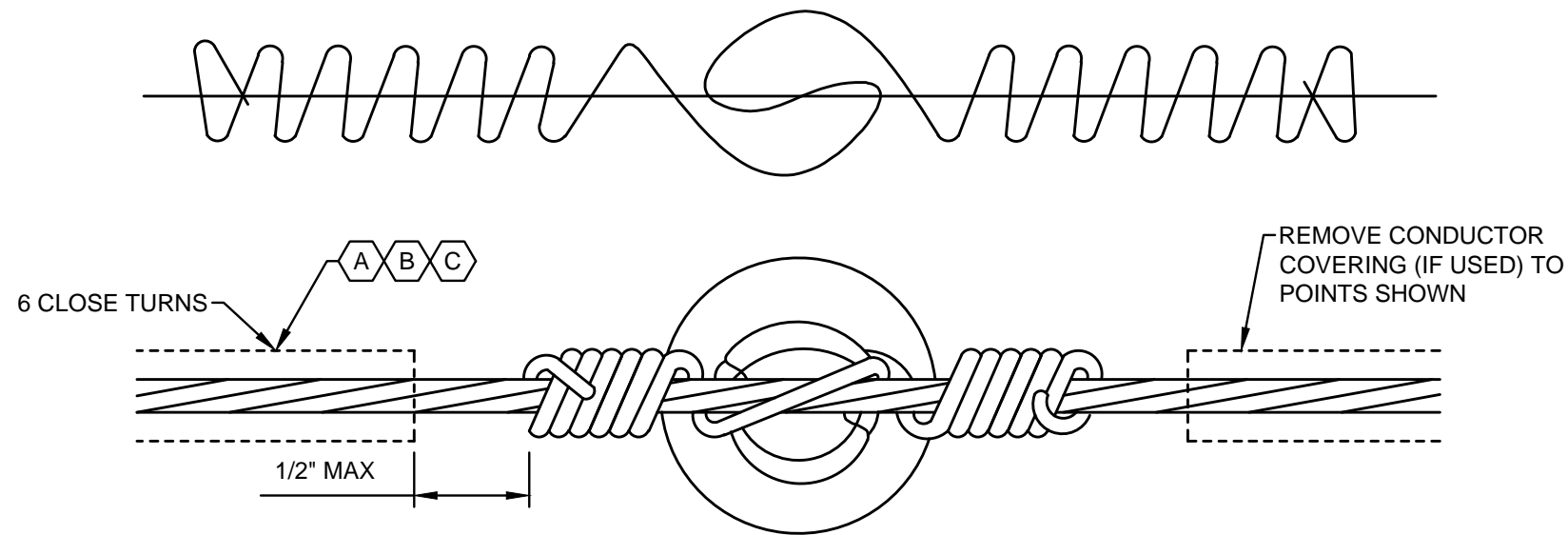
IV. Method of measurement

Shall be included with conductor module.

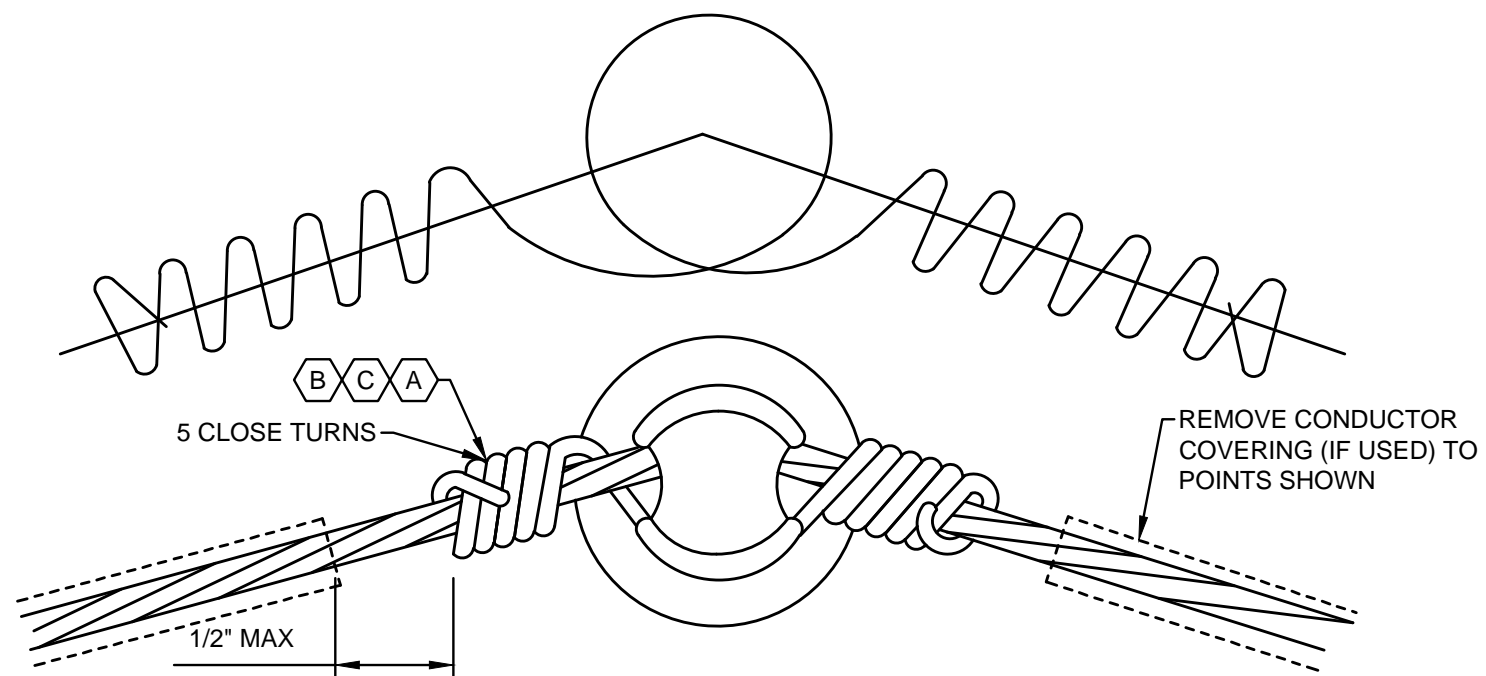
V. Basis of payment

There are no pay items in this TDMIS. Pay items shall be included with conductor module.

| | | |
|---|------------------|-----------------|
| CITY OF COLUMBUS DEPT. OF PUBLIC UTILITIES – DIVISION OF POWER COPPER CONDUCTOR HAND-MADE INSULATOR TIES | | |
| DRAWN BY: AEC | DATE: 01/01/2018 | TDMIS-24 |
| APPROVED: <i>Kid J...</i> | | |
| | SHEET 1 of 3 | |



DETAIL 1
TOP GROOVE TIE - SHORT SPAN



DETAIL 2
SIDE GROOVE AND SPOOL TIE - SHORT SPAN

CODED NOTES:

- A** THESE TIES ARE FOR USE IN PRIMARY LINE CONDUCTOR TIE LOCATIONS AND AT EQUIPMENT RISERS. THESE TIES MAY ALSO BE USED FOR SECONDARY AND NEUTRAL CONDUCTORS.
- B** CUT TIE WIRES CLOSE TO ENDS AND WRAP CLOSE TO LINE WIRE, TAP DOWN ON CONDUCTOR.
- C** TWO LENGTHS OF THE WIRE REQUIRED FOR DOUBLE INSULATOR SUPPORT.

PRIMARY SECONDARY OR NEUTRAL CONDUCTORS - SHORT SPAN

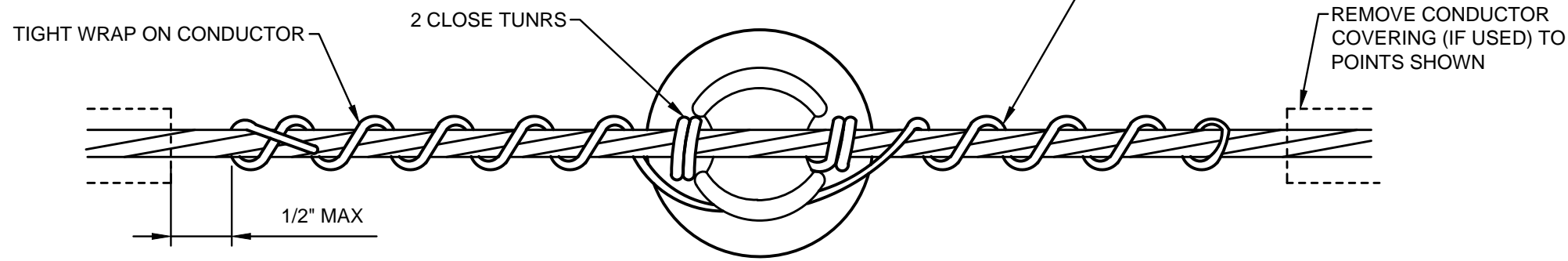
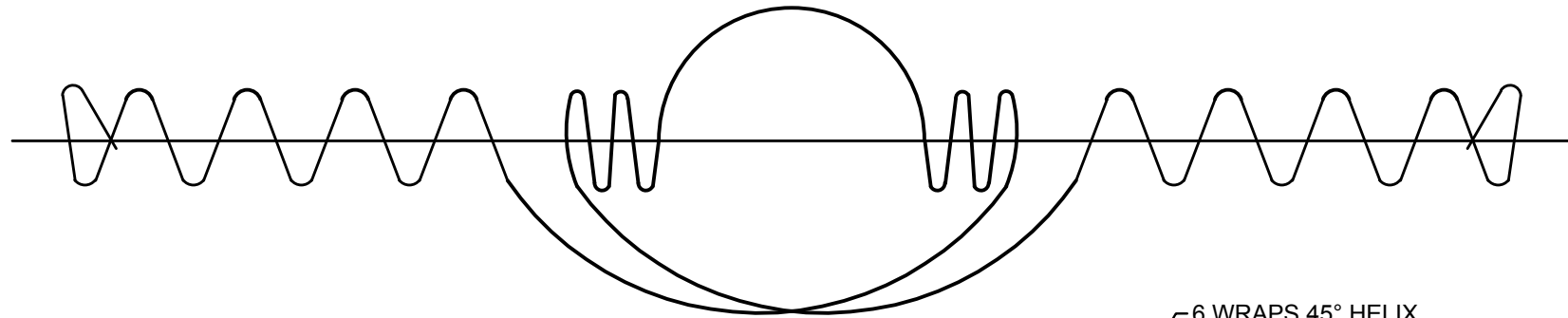
| LINE CONDUCTOR | BARE COPPER SOFT DRAWN TIE WIRE | | |
|----------------|---------------------------------|----------------|------------|
| | SIZE PART# | APPROX. LENGTH | |
| CU | | | BARE COND. |
| 6/4 SOL | | 3'-0" | 3'-7" |
| 2 | | 3'-7" | 4'-2" |
| 2/0 | | 3'-10" | 4'-5" |
| 4/0 | | 4'-6" | 5'-3" |

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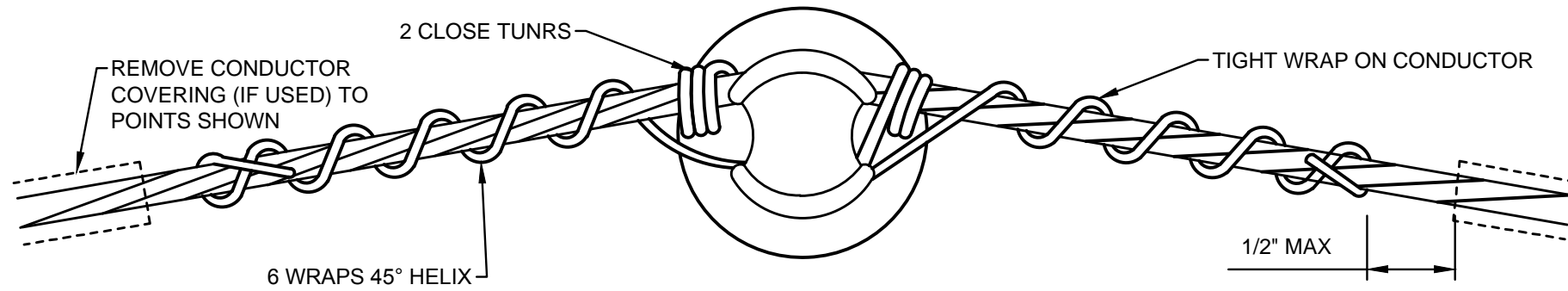
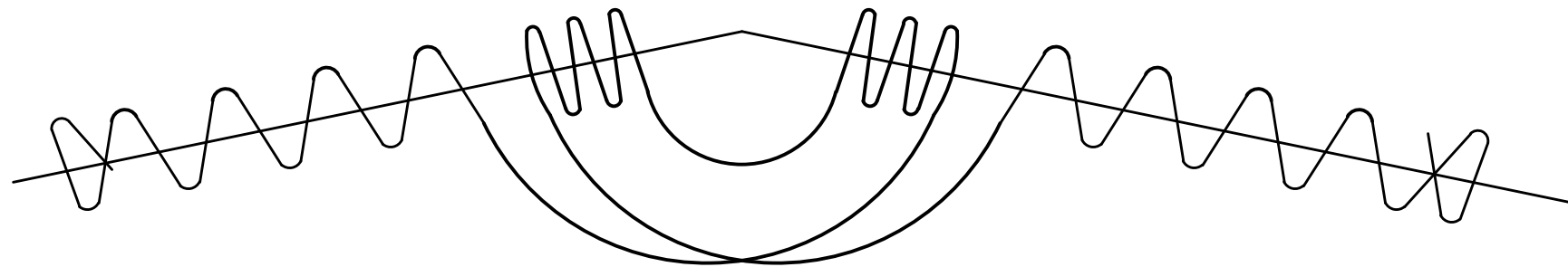
**COPPER CONDUCTOR
HAND-MADE INSULATOR TIES**

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APPROVED: *Kud...*
SCALE: NTS SHEET: 2 OF 3

TDMIS-24



DETAIL 3
TOP GROOVE TIE - LONG SPAN



DETAIL 4
SIDE GROOVE TIE - LONG SPAN

**PRIMARY SECONDARY OR NEUTRAL
CONDUCTORS - SHORT SPAN**

| LINE CONDUCTOR | BARE COPPER SOFT DRAWN TIE WIRE | | |
|-------------------|---------------------------------|----------------|---------------|
| | SIZE PART# | APPROX. LENGTH | |
| | | BARE COND. | COVERED COND. |
| CU | | | |
| 6/4 | | 4'-0" | 4'-6" |
| 2 | | 4'-6" | 5'-0" |
| 2/0 | | 5'-0" | 5'-6" |
| 4/0 | | 5'-6" | 6'-0" |

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COPPER CONDUCTOR
HAND-MADE INSULATOR TIES

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SCALE: NTS SHEET: 3 OF 3

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