

**Transmission & Distribution**  
**Material & Installation Specification**

**Spacer Cable Angle Bracket Over 60 Degrees**

**I. Quantity**

The base bid shall include the indicated number of over 60° spacer cable angles brackets furnished and installed as hereinafter specified.

**II. Material**

- A. Angle Brackets - Shall be Hendrix BA3-15 or approved equal and all associated hardware.
- B. Insulator - Shall be Hendrix HPI-55-4 or approved equal.
- C. Pin - Shall be Hendrix type SSP-2 or approved equal.
- D. Double Insulator Plate - Shall be Hendrix type 2IP approved equal.
- E. Messenger Clamp - Shall be Hendrix CMA-2 or approved equal.
- F. Ground Wire - The ground wire shall be #6 solid soft drawn bare copper.
- G. Connectors - Copper compression type.
- H. All steel hardware to be hot dipped galvanized.

**III. Installation**

- A. The installation shall be as shown on drawing TDMIS-309.
- B. The angle bracket specified herein shall be used to support and stabilize conductors and messenger, on angle poles with line angles over 60 degrees.

**IV. Method of measurement**

Shall be per each completed assembly including bracket, bolts, plates, insulators, washers, ground connections, tools, labor, tension and guy adjustments, equipment and all miscellaneous required for a complete and operational module.

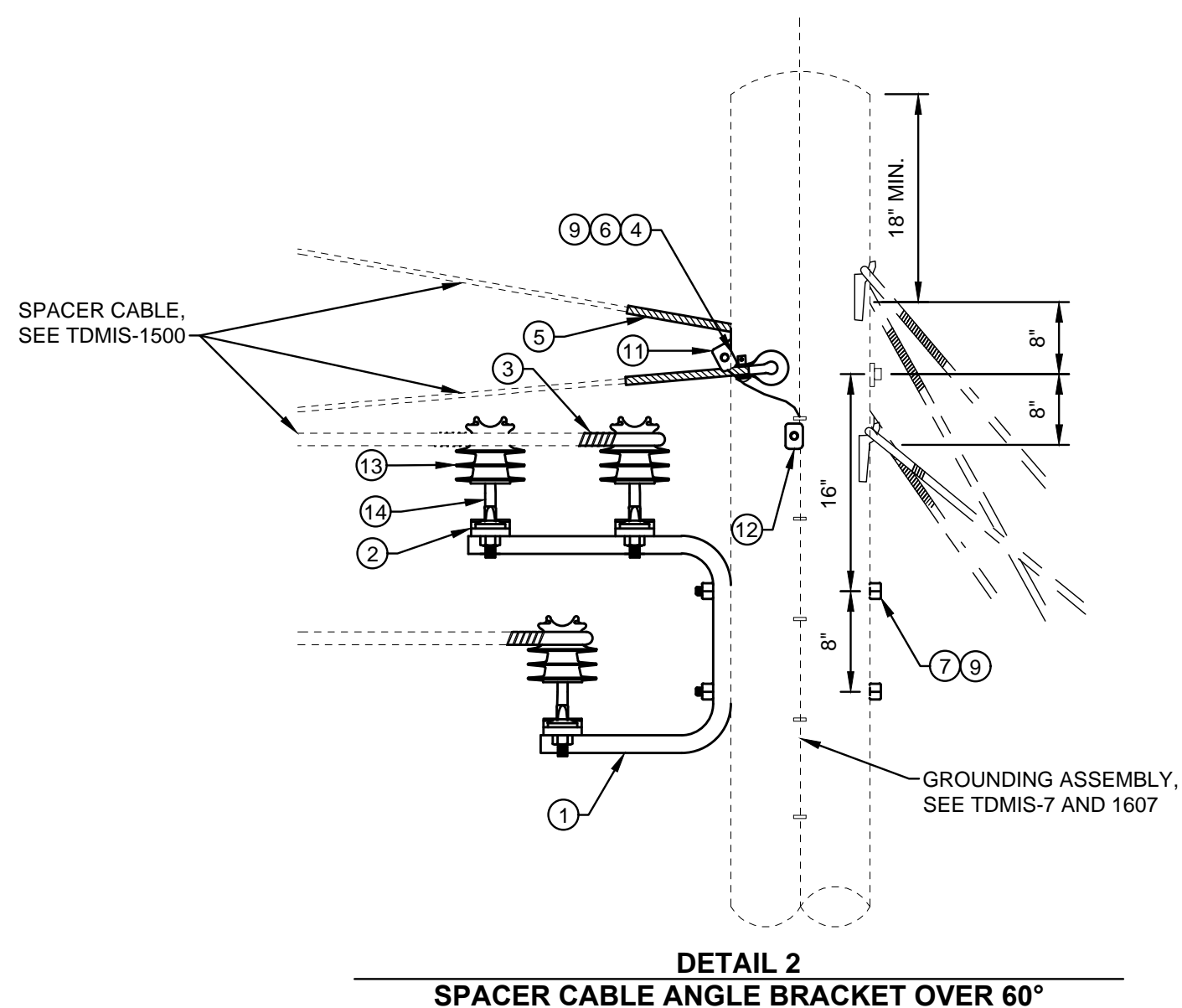
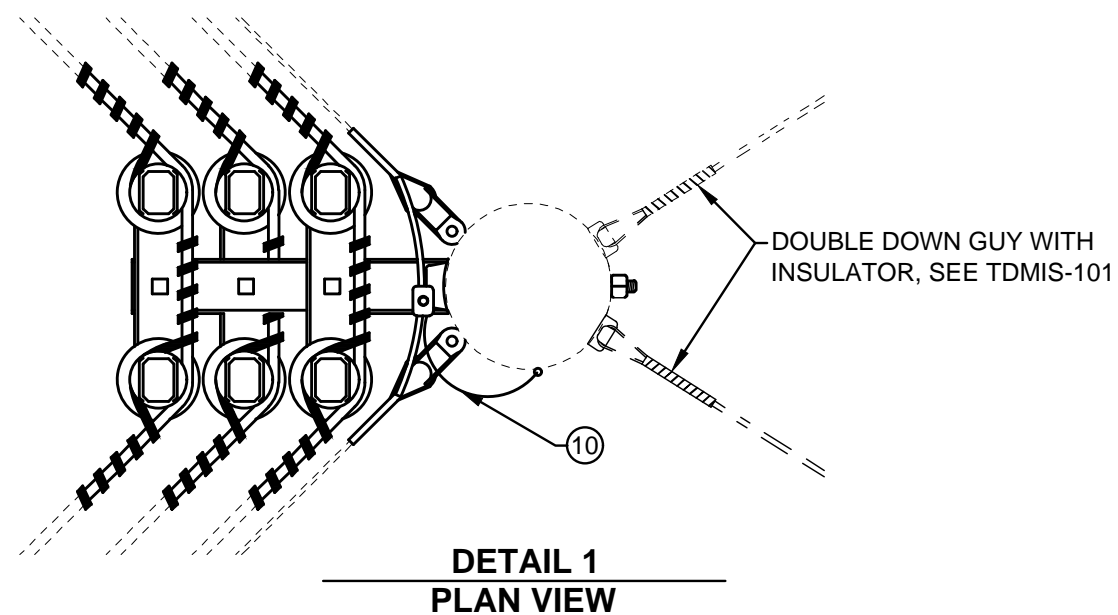
**V. Basis of payment**

Items	Unit	Description
TDMIS-309	Each	Spacer cable angle bracket over 60 degrees

CITY OF COLUMBUS DEPT. OF PUBLIC UTILITIES – DIVISION OF POWER SPACER CABLE ANGLE BRACKET OVER 60 DEGREES		
DRAWN BY: AEC	DATE: 01/01/2018	<b>TDMIS-309</b>
APPROVED: <i>[Signature]</i>		
	SHEET 1 of 2	

**GENERAL NOTES:**

1. FIRST SPACER 30'-0" FROM POLE



<b>REFERENCE LIST</b>	
TDMIS	DESCRIPTION
1	WOOD POLES
7	OVERHEAD DISTRIBUTION CIRCUIT GROUNDING
101	DOUBLE DOWN GUY & ANCHOR WITH INSULATOR
1500	OVERHEAD CONDUCTOR, SPACER CABLE
1607	GROUND ROD TEST

<b>ITEM LIST</b>			
ITEM #	DESCRIPTION	PART #	QTY.
①	ANGLE BRACKET, HENDRIX TYPE BA3-15	19643	1
②	DOUBLE INSULATOR PLATE, HENDRIX TYPE 2IP (SUPPLIED W/ NUT AND BOLT)	20319	3
③	COVERED WIRE TIE, #4 SOLID S.D. ALUMINUM WITH .030" POLYETHYLENE	20327	6
④	MACHINE BOLT, 3/4" X REQUIRED LENGTH	42372	2
⑤	PRESHAPED TYPE GRIP, MESSENGER	19226	2
⑥	EYE NUT, 3/4"	18978	2
⑦	MACHINE BOLT, 5/8" X REQUIRED LENGTH	42369	2
⑧	THIMBLE CLEVIS, MESSENGER	20229	2
⑨	SQUARE WASHER, CURVED, 2 1/4"X2 1/4"X3/16", MIN	18897	2
⑩	GROUND WIRE, S.D. COPPER, SOLID, #6 MIN.	20082	3
⑪	CONNECTOR, COMPRESSION, #6 TO #2/0	19629	1
⑫	CONNECTOR, COMPRESSION, #6 TO #6	19628	1
⑬	INSULATOR, PIN TYPE, HENDRIX TYPE HPI-55-4	20256	6
⑭	PIN, INSULATOR, HENDRIX TYPE SSP-2	19307	6

CITY OF COLUMBUS, OHIO  
DEPT. OF PUBLIC UTILITIES - DIVISION OF POWER

**SPACER CABLE ANGLE BRACKET  
OVER 60 DEGREES  
MSCAB90**

DRAWN BY: AEC	DATE: 01/01/2018
APPROVED: <i>[Signature]</i>	
SCALE: NTS	SHEET: 2 OF 2

**TDMIS-309**