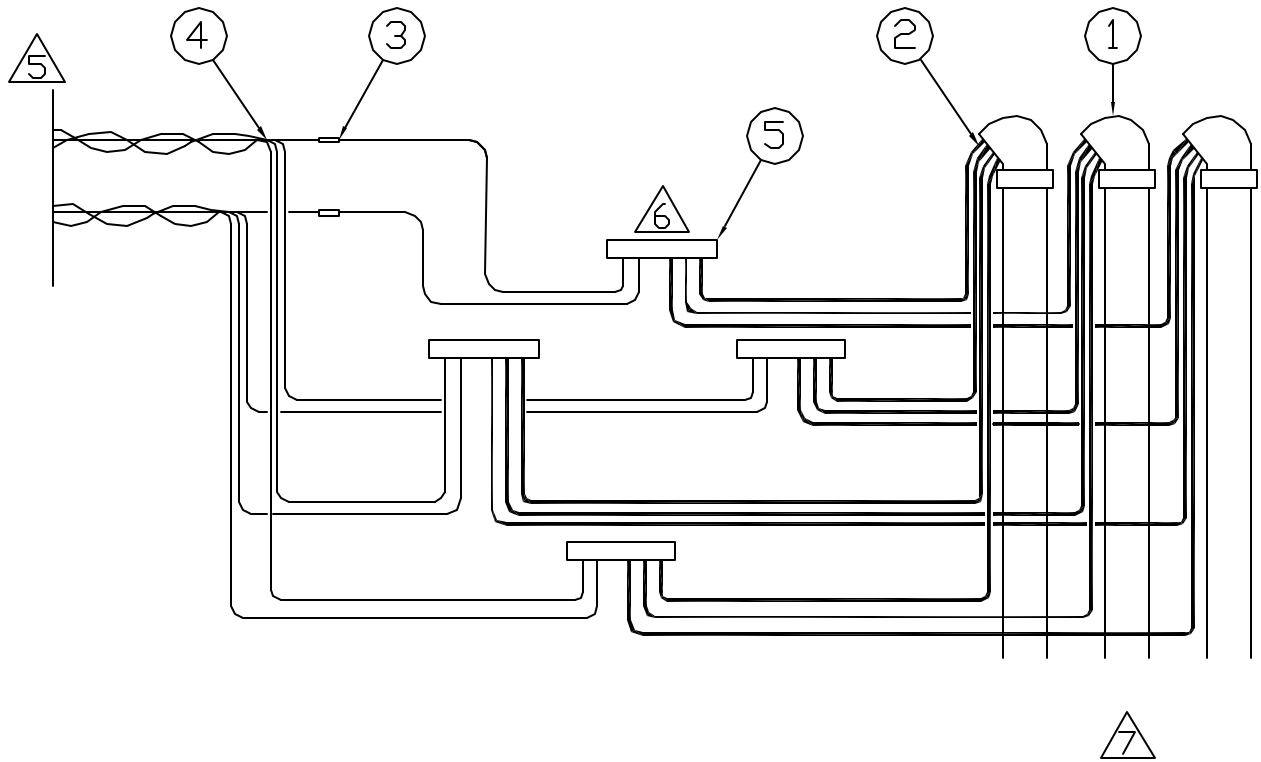


STANDARD SERVICE DROP CONDUCTORS

SERVICE DISCONNECT AMPACITY	# OF SERVICE PHASES	SERVICE DROP CONDUCTOR SIZE & TYPE	C.U. SERVICE DROP RATED AMPACITY	MAXIMUM SERVICE DROP LENGTH
100 AMP	1 PH	#4 TPX ALUM	100 AMP	100'
100 AMP	1 / 3 PH	#1/0 QUAD ALUM	180 AMP	60'
200 AMP	1 PH	#2 TPX ALUM	135 AMP	80'
200 AMP	1 / 3 PH	#1/0 QUAD ALUM	180 AMP	60'
320 AMP	1 PH	#4/0 TPX ALUM	280 AMP	50'
400 AMP	1 PH	#4/0 TPX ALUM	280 AMP	60'
400 AMP	1 / 3 PH	#4/0 QUAD ALUM	280 AMP	50'
600 AMP	1 PH	3 - #4/0 WP CU	360 AMP	50'
600 AMP	1 PH	2 RUNS - 1/0 TPX ALUM	360 AMP	50'
600 AMP	1 / 3 PH	4 - #4/0 WP CU	360 AMP	45'
600 AMP	1 / 3 PH	2 RUNS - 1/0 QUAD ALUM	360 AMP	45'
800 AMP	1 PH	3 - 350 MCM WP CU	505 AMP	45'
800 AMP	1 PH	2 RUNS - 4/0 TPX ALUM	560 AMP	45'
800 AMP	1 / 3 PH	4 - 350 MCM WP CU	505 AMP	40'
800 AMP	1 / 3 PH	2 RUNS - 4/0 QUAD ALUM	560 AMP	40'
1000 AMP	1 PH	3 - 350 MCM WP CU	505 AMP	45'
1000 AMP	1 PH	2 RUNS - 4/0 TPX ALUM	560 AMP	40'
1000 AMP	1 / 3 PH	4 - 350 MCM WP CU	505 AMP	40'
1000 AMP	1 / 3 PH	2 RUNS - 4/0 QUAD ALUM	560 AMP	35'
1200 AMP	1 PH	3 - 500 MCM WP CU	620 AMP	40'
1200 AMP	1 / 3 PH	4 - 500 MCM WP CU	620 AMP	35'

△	<i>GENERAL NOTES</i>		<b>ELECTRIC SERVICE STANDARD CITY UTILITIES OF SPRINGFIELD MO.</b>			
	<ol style="list-style-type: none"> <li>1. ALL NEW THREE PHASE SERVICES SHALL BE A COMBINATION 1 PH/3 PH SERVICE.</li> <li>2. WHEN WORKING ON AN EXISTING SERVICE REWIRE, CONTACT CITY UTILITIES TO DETERMINE GUIDELINES FOR THESE SERVICES.</li> <li>3. THIS TABLE ASSUMES A 50% LOAD FACTOR. IF CALCULATED LOADS ARE AVAILABLE, THE SERVICE DROP CONDUCTOR SIZES MAY BE ADJUSTED.</li> <li>4. MAXIMUM SERVICE DROP LENGTHS ARE BASED ON MECHANICAL LIMITATION AND DO NOT TAKE INTO CONSIDERATION POWER QUALITY ISSUES (VOLTAGE DROP, FLICKER, ETC.). SEE POWER QUALITY GUIDELINES.</li> <li>5. WHEN INSTALLING TWO RUNS OF TRIPLEX OR QUADRAPLEX CONDUCTORS, CONNECT THE TRANSFORMER LEADS TO THE SERVICE DROP CONDUCTORS, USING CONNECTORS AS DETAILED IN ITEM #5 ON SHEET #2 OF THIS STANDARD.</li> <li>6. AT THE CONNECTION POINT BETWEEN CITY UTILITIES TRIPLEX OR QUADRAPLEX CONDUCTORS, AND THE CUSTOMERS SERVICE ENTRANCE CONDUCTORS, ALL LIKE PHASES OF BOTH SETS OF CONDUCTORS SHALL BE CONNECTED TOGETHER IN A COMMON CONNECTOR.</li> <li>7. ALL MATCHING PHASES OF THE CUSTOMERS SERVICE ENTRANCE CONDUCTORS SHALL BE CONNECTED TOGETHER IN A GUTTER, A SINGLE SERVICE DISCONNECT, OR OTHER SERVICE EQUIPMENT.</li> </ol>	SERVICE OVERHEAD SERVICE DROP CONDUCTOR APPLICATION GUIDE		DRAWN BY: <b>G.GUEVARA</b>		REVISED:  SHEET OF 1 2 STD. NO. <b>SO-QN4</b>
		REV BY: <b>W.BROOKS</b>		FILE: <b>SO-GN4</b>		
		APPROVED: <b>01/08/07</b>		REVISED:  		
		APPROVED:  		REVISED:  		



MATERIAL LIST

QTY.	DESCRIPTION	STOCK NO.	QTY.	DESCRIPTION	STOCK NO.
	<b>FURNISHED and INSTALLED BY CUSTOMER.</b>			<b>FURNISHED and INSTALLED BY CITY UTILITIES.</b>	
1. AS REQD	CUSTOMERS MULTIPLE RISER CONDUITS AND WEATHER HEADS.		4. AS REQD	#1/0 ALUM. TRIPLEX CONDUCTOR. OR #1/0 ALUM. QUADRAPLEXED CONDUCTOR.	101124 101123
2. AS REQD	CUSTOMERS SERVICE ENTRANCE CONDUCTORS.			#4/0 ALUM. TRIPLEX CONDUCTOR. OR #4/0 ALUM. QUADRAPLEXED CONDUCTOR.	149453 101132
3. AS REQD	SERVICE DROP ATTACHMENT POINT. (FURNISHED BY CITY UTILITIES. INSTALLED BY CUSTOMER.)		5. 4	<b>SIZE AS REQUIRED.</b> INSULATED BAR, 8-PORT, (#6-500 MCM). OR INSULATED BAR, 8-PORT, (#8-500 MCM). OR INSULATED BAR, 8-PORT, (250 MCM-750 MCM). OR INSULATED BAR, 8-PORT, (250 MCM-750 MCM). OR INSULATED BAR, 4-PORT, (#10-350 MCM).	148570 148897 149480 149507 109031



GENERAL NOTES

SEE SHEET 1 FOR GENERAL NOTES.

**ELECTRIC SERVICE STANDARD  
CITY UTILITIES OF SPRINGFIELD MO.**

DRAWN BY:  
FOWLER

REV BY:

FILE:  
SO-GN42

APPROVED:  
01/08/07

SERVICE OVERHEAD  
SERVICE DROP  
CONDUCTOR  
APPLICATION GUIDE

REVISED:

SHEET  
2 OF 2

STD. NO.

SO-GN4