

<b>AVAILABLE CONDUIT AREA (SQ. IN.)</b>				
<b>CONDUIT SIZE</b>	<b>PERCENT OF FILL</b>			
	<b>26%*</b>	<b>40%</b>	<b>50%</b>	<b>100%</b>
1"	0.23	0.35	0.43	0.86
1 ½"	0.53	0.82	1.02	2.04
2"	0.87	1.34	1.68	3.36
2 ½"	1.24	1.92	2.40	4.79
3"	1.92	2.96	3.69	7.38
3 ½"	2.57	3.96	4.95	9.90
4"	3.31	5.09	6.36	12.72

\* AS A PRACTICAL LIMIT, PROJECTS FOR NEW INSTALLATIONS SHOULD BE LIMITED TO 26%

<b>CONDUCTOR SIZE</b>				
<b>CONDUCTOR SIZE (AWG)</b>	<b>TYPES THWN AND THHN</b>		<b>TYPES TW, THW, USE RHH AND RHW</b>	
	<b>INSULATION THICKNESS (INCHES)</b>	<b>TOTAL AREA (INCHES<sup>2</sup>)</b>	<b>INSULATION THICKNESS (INCHES)</b>	<b>TOTAL AREA (INCHES<sup>2</sup>)</b>
#14	.017	.008	.045	.021
#12	.017	.010	.045	.025
#10	.022	.017	.045	.031
#8 ST	.032	.035	.060	.060
#6 ST	.032	.048	.060	.082
#4 ST	.042	.078	.060	.109
#2 ST	.042	.111	.060	.147

**NOTE:**  
CONDUCTOR SPLICING TO CONFORM TO CALTRANS SPLICING DETAIL ES-13A.

**THE CITY OF WEST SACRAMENTO - STANDARD DETAIL**



APPROVED: Aug. X, 2025

STANDARD  
DETAIL #

**612**

TITLE:

**TABLE FOR AVAILABLE  
CONDUIT AREA AND  
CONDUCTOR SIZE**

