

## **Appendix C**

### ***ProPress Fitting Material Costs – Renovation Area***

<b>Elbow 90° C x C Close Rough - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2"	15	\$1.30	\$19.50
3/4"	14	\$2.20	\$30.80
1"	15	\$4.45	\$66.75
1-1/4"	17	\$9.00	\$153.00
1-1/2"	2	\$17.05	\$34.10
2"	12	\$23.70	\$284.40
<b>4"</b>	<b>15</b>	<b>\$122.10</b>	<b>\$1,831.50</b>
<b>Total w/o XL Fittings:</b>			<b>\$588.55</b>
<b>Total w/ XL Fittings:</b>			<b>\$2,150.00</b>

<b>Elbow 45° FTG x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
<b>4"</b>	<b>2</b>	<b>\$110.50</b>	<b>\$110.50</b>
<b>Total w/ XL Fittings:</b>			<b>\$110.50</b>

<b>Tee C x C x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2" x 1/2" x 1/2"	8	\$2.05	\$16.40
3/4" x 3/4" x 3/4"	1	\$3.55	\$3.55
3/4" x 3/4" x 1/2"	4	\$2.95	\$11.80
3/4" x 3/4" x 1"	2	\$10.70	\$21.40
1" x 3/4" x 1/2"	1	\$10.85	\$10.85
1-1/4" x 1-1/4" x 1-1/4"	2	\$10.80	\$21.60
1-1/4" x 1-1/4" x 3/4"	1	\$9.85	\$9.85
1-1/2" x 1" x 1-1/2"	1	\$32.55	\$32.55
1-1/2" x 1" x 3/4"	1	\$24.15	\$24.15
1-1/2" x 1" x 1"	1	\$29.65	\$29.65
1-1/2" x 1-1/2" x 1-1/4"	1	\$19.60	\$19.60
2" x 2" x 2"	6	\$25.90	\$155.40
2" x 2" x 3/4"	1	\$30.35	\$30.35
2" x 2" x 1"	1	\$30.35	\$30.35
<b>2-1/2" x 2-1/2" x 2-1/2"</b>	<b>1</b>	<b>\$110.25</b>	<b>\$110.25</b>
<b>2-1/2" x 2-1/2" x 2"</b>	<b>1</b>	<b>\$129.50</b>	<b>\$129.50</b>
<b>Total w/o XL Fittings:</b>			<b>\$401.10</b>
<b>Total w/ XL Fittings:</b>			<b>\$640.85</b>

***ProPress Fitting Material Costs – Renovation Area (Cont.)***

<b>Coupling C x C With Stop - ProPress w/ EPDM Seal</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2"	152'	19	\$2.85	\$54.15
3/4"	72'	10	\$3.85	\$38.50
1-1/4"	218'	25	\$7.25	\$181.25
			<b>Total:</b>	<b>\$273.90</b>

<b>Reducer C x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1" to 3/4"	5	\$6.20	\$31.00
1-1/2" to 3/4"	1	\$16.60	\$16.60
<b>2-1/2" to 1-1/4"</b>	<b>1</b>	<b>\$61.05</b>	<b>\$61.05</b>
<b>Total w/o XL Fittings:</b>			<b>\$47.60</b>
<b>Total w/ XL Fittings:</b>			<b>\$77.65</b>

***ProPress Fitting Material Costs – Addition Area***

<b>Elbow 90° C x C Close Rough - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2"	17	\$1.30	\$22.10
3/4"	11	\$2.20	\$24.20
1-1/4"	10	\$9.00	\$90.00
2"	2	\$23.70	\$47.40
			<b>Total: \$161.60</b>

<b>Tee C x C x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2" x 1/2" x 1/2"	2	\$2.05	\$4.10
3/4" x 3/4" x 1/2"	2	\$2.95	\$5.90
3/4" x 3/4" x 1"	3	\$10.70	\$32.10
1-1/4" x 1-1/4" x 1-1/4"	6	\$10.80	\$64.80
1-1/4" x 1-1/4" x 3/4"	2	\$9.85	\$19.70
1-1/4" x 1-1/4" x 2"	2	\$43.45	\$86.90
1-1/2" x 1-1/2" x 3/4"	3	\$18.60	\$55.80
			<b>Total: \$269.30</b>

***ProPress Fitting Material Costs – Addition Area (Cont.)***

<b>Coupling C x C With Stop - ProPress w/ EPDM Seal</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2"	82'	11	\$2.85	\$31.35
3/4"	227'	29	\$3.85	\$111.65
1"	258'	33	\$4.75	\$156.75
1-1/4"	210'	12	\$7.25	\$87.00
1-1/2"	92'	5	\$11.20	\$56.00
2"	75'	10	\$13.00	\$130.00
<b>2-1/2"</b>	<b>67'</b>	<b>9</b>	<b>\$44.35</b>	<b>\$399.15</b>
<b>4"</b>	<b>369'</b>	<b>41</b>	<b>\$69.85</b>	<b>\$2,863.85</b>
			<b>Total w/o XL Fittings:</b>	<b>\$572.75</b>
			<b>Total w/ XL Fittings:</b>	<b>\$3,835.75</b>

**Note:** -Fittings Larger Than 2", **Brown Color**, Require Bronze Fittings and Were Not Used On This Project  
-All Values Were Found In RIDGID/Viega PP-305 Product Price List

***ProPress Fitting Labor Takeoff – Renovation Area***

<b>Elbow 90° C x C Close Rough - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Price of Labor/Fitting</b>	<b>Total</b>
1/2"	15	\$7.65	\$114.75
3/4"	14	\$8.05	\$112.70
1"	15	\$9.63	\$144.38
1-1/4"	17	\$10.25	\$174.25
1-1/2"	2	\$11.75	\$23.50
2"	12	\$13.75	\$165.00
<b>4"</b>	<b>15</b>	<b>\$30.75</b>	<b>\$461.25</b>
<b>Total w/o XL Fittings:</b>			<b>\$734.58</b>
<b>Total w/ XL Fittings:</b>			<b>\$1,195.83</b>

<b>Elbow 45° FTG x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Price/Fitting</b>	<b>Total</b>
<b>4"</b>	<b>2</b>	<b>\$5.59</b>	<b>\$75.00</b>
<b>Total w/ XL Fittings:</b>			<b>\$75.00</b>

<b>Tee C x C x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Price/Fitting</b>	<b>Total</b>
1/2" x 1/2" x 1/2"	8	\$11.75	\$94.00
3/4" x 3/4" x 3/4"	1	\$12.75	\$12.75
3/4" x 3/4" x 1/2"	4	\$12.75	\$51.00
3/4" x 3/4" x 1"	2	\$13.75	\$27.50
1" x 3/4" x 1/2"	1	\$13.75	\$13.75
1-1/4" x 1-1/4" x 1-1/4"	2	\$17.00	\$34.00
1-1/4" x 1-1/4" x 3/4"	1	\$17.00	\$17.00
1-1/2" x 1" x 1-1/2"	1	\$17.00	\$17.00
1-1/2" x 1" x 3/4"	1	\$17.00	\$17.00
1-1/2" x 1" x 1"	1	\$17.00	\$17.00
1-1/2" x 1-1/2" x 1-1/4"	1	\$17.00	\$17.00
2" x 2" x 2"	6	\$22.00	\$132.00
2" x 2" x 3/4"	1	\$22.00	\$22.00
2" x 2" x 1"	1	\$22.00	\$22.00
<b>2-1/2" x 2-1/2" x 2-1/2"</b>	<b>1</b>	<b>\$34.50</b>	<b>\$34.50</b>
<b>2-1/2" x 2-1/2" x 2"</b>	<b>1</b>	<b>\$34.50</b>	<b>\$34.50</b>
<b>Total w/o XL Fittings:</b>			<b>\$400.00</b>
<b>Total w/ XL Fittings:</b>			<b>\$469.00</b>

***ProPress Fitting Labor Takeoff – Renovation Area (Cont.)***

<b>Coupling C x C With Stop - ProPress w/ EPDM Seal</b>				
Pipe Size	Pipe Length	Quantity	Price/Fitting	Total
1/2"	152'	19	\$6.95	\$132.05
3/4"	72'	10	\$7.28	\$72.75
1-1/4"	218'	25	\$8.95	\$223.75
			<b>Total:</b>	<b>\$428.55</b>

<b>Reducer C x C - ProPress w/ EPDM Seal</b>			
Size	Quantity	ProPress Price/Fitting	Total
1" to 3/4"	5	\$7.83	\$39.13
1-1/2" to 3/4"	1	\$9.63	\$9.63
<b>2-1/2" to 1-1/4"</b>	<b>1</b>	<b>\$11.75</b>	<b>\$11.75</b>
<b>Total w/o XL Fittings:</b>			<b>\$48.75</b>
<b>Total w/ XL Fittings:</b>			<b>\$60.50</b>

***ProPress Fitting Labor Takeoff – Addition Area***

<b>Elbow 90° C x C Close Rough - ProPress w/ EPDM Seal</b>			
Size	Quantity	ProPress Price/Fitting	Total
1/2"	17	\$7.65	\$130.05
3/4"	11	\$8.05	\$88.55
1-1/4"	10	\$8.05	\$80.50
2"	2	\$8.05	\$16.10
<b>Total:</b>			<b>\$185.15</b>

<b>Tee C x C x C - ProPress w/ EPDM Seal</b>			
Size	Quantity	ProPress Price/Fitting	Total
1/2" x 1/2" x 1/2"	2	\$11.75	\$23.50
3/4" x 3/4" x 1/2"	2	\$12.75	\$25.50
3/4" x 3/4" x 1"	3	\$13.75	\$41.25
1-1/4" x 1-1/4" x 1-1/4"	6	\$17.00	\$102.00
1-1/4" x 1-1/4" x 3/4"	2	\$15.25	\$30.50
1-1/4" x 1-1/4" x 2"	2	\$15.25	\$30.50
1-1/2" x 1-1/2" x 3/4"	3	\$17.00	\$51.00
<b>Total:</b>			<b>\$304.25</b>

***ProPress Fitting Labor Takeoff – Addition Area (Cont.)***

<b>Coupling C x C With Stop - ProPress w/ EPDM Seal</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2"	82'	11	\$6.95	\$76.45
3/4"	227'	29	\$7.28	\$210.98
1"	258'	33	\$8.50	\$280.50
1-1/4"	210'	12	\$8.95	\$107.40
1-1/2"	92'	5	\$10.25	\$51.25
2"	75'	10	\$11.75	\$117.50
<b>2-1/2"</b>	<b>67'</b>	<b>9</b>	<b>\$18.25</b>	<b>\$164.25</b>
<b>4"</b>	<b>369'</b>	<b>41</b>	<b>\$39.50</b>	<b>\$1,619.50</b>
			<b>Total w/o XL Fittings:</b>	<b>\$844.08</b>
			<b>Total w/ XL Fittings:</b>	<b>\$2,627.83</b>

**Note:** -All Values are Based on a Comparison Between a RIDGID/Viega Time Chart and R.S. Means.

***ProPress Fitting Installation Time – Renovation Area***

**Renovation Phase**

<b>Elbow 90° C x C Close Rough - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
1/2"	15	0.2	3
3/4"	14	0.2105	2.947
1"	15	0.25	3.75
1-1/4"	17	0.2665	4.5305
1-1/2"	2	0.3075	0.615
2"	12	0.3635	4.362
<b>4"</b>	<b>15</b>	<b>0.889</b>	<b>13.335</b>
<b>Total w/o XL Fitting:</b>			<b>19.2045</b>
<b>Total w/ XL Fitting:</b>			<b>32.5395</b>

<b>Elbow 45° FTG x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
<b>4"</b>	<b>2</b>	<b>0.889</b>	<b>1.778</b>
<b>Total w/ XL Fittings:</b>			<b>1.778</b>

<b>Tee C x C x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
1/2" x 1/2" x 1/2"	8	0.3075	2.46
3/4" x 3/4" x 3/4"	1	0.3335	0.3335
3/4" x 3/4" x 1/2"	4	0.3335	1.334
3/4" x 3/4" x 1"	2	0.3335	0.667
1" x 3/4" x 1/2"	1	0.3635	0.3635
1-1/4" x 1-1/4" x 1-1/4"	2	0.4445	0.889
1-1/4" x 1-1/4" x 3/4"	1	0.4	0.4
1-1/2" x 1" x 1-1/2"	1	0.4445	0.4445
1-1/2" x 1" x 3/4"	1	0.4445	0.4445
1-1/2" x 1" x 1"	1	0.4445	0.4445
1-1/2" x 1-1/2" x 1-1/4"	1	0.4445	0.4445
2" x 2" x 2"	6	0.5715	3.429
2" x 2" x 3/4"	1	0.5	0.5
2" x 2" x 1"	1	0.5	0.5
<b>2-1/2" x 2-1/2" x 2-1/2"</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>2-1/2" x 2-1/2" x 2"</b>	<b>1</b>	<b>0.889</b>	<b>0.889</b>
<b>Total w/o XL Tees:</b>			<b>10.194</b>
<b>Total w/ XL Tees:</b>			<b>12.083</b>

***ProPress Fitting Installation Time – Renovation Area (Cont.)***

<b>Coupling C x C With Stop - ProPress w/ EPDM Seal</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>Manhours/ Fitting</b>	<b>Total Manhours</b>
1/2"	152'	19	0.182	3.458
3/4"	72'	10	0.1905	1.905
1-1/4"	218'	25	0.2355	5.8875
			<b>Total:</b>	<b>11.2505</b>

<b>Reducer C x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
1" to 3/4"	5	0.205	1.025
1-1/2" to 3/4"	1	0.25	0.25
<b>2-1/2" to 1-1/4"</b>	<b>1</b>	<b>0.3075</b>	<b>0.3075</b>
<b>Total w/o XL Fittings:</b>			<b>1.275</b>
<b>Total w/ XL Fittings:</b>			<b>1.5825</b>

***ProPress Fitting Installation Time – Addition Area***

<b>Elbow 90° C x C Close Rough - Propress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
1/2"	17	0.2	3.4
3/4"	11	0.2105	2.3155
1-1/4"	10	0.2665	2.665
2"	2	0.3635	0.727
<b>Total:</b>			<b>5.7075</b>

<b>Tee C x C x C - ProPress w/ EPDM Seal</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
1/2" x 1/2" x 1/2"	2	0.3075	0.615
3/4" x 3/4" x 1/2"	2	0.3335	0.667
3/4" x 3/4" x 1"	3	0.3635	1.0905
1-1/4" x 1-1/4" x 1-1/4"	6	0.4445	2.667
1-1/4" x 1-1/4" x 3/4"	2	0.4	0.8
1-1/4" x 1-1/4" x 2"	2	0.5	1
1-1/2" x 1-1/2" x 3/4"	3	0.4445	1.3335
<b>Total:</b>			<b>8.173</b>



***ProPress Fitting Installation Time – Addition Area (Cont.)***

<b>Coupling C x C With Stop - ProPress w/ EPDM Seal</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>Manhours/ Fitting</b>	<b>Total Manhours</b>
1/2"	82'	11	0.182	2.002
3/4"	227'	29	0.1905	5.5245
1"	258'	33	0.222	7.326
1-1/4"	210'	12	0.2355	2.826
1-1/2"	92'	5	0.2665	1.3325
2"	75'	10	0.3075	3.075
<b>2-1/2"</b>	<b>67'</b>	<b>9</b>	<b>0.5335</b>	<b>4.8015</b>
<b>4"</b>	<b>369'</b>	<b>41</b>	<b>1.143</b>	<b>46.863</b>
			<b>Total w/o XL Fittings:</b>	<b>22.086</b>
			<b>Total w/ XL Fittings:</b>	<b>73.7505</b>

Note: -All Man-hours are Based on a Comparison Between a RIDGID/Viega Time Chart and R.S. Means  
-Calculations are Based on a 1 Plumber Crew.

**Solder Fitting Material Costs – Renovation Area**

<b>Elbow, 90 Deg., Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Price/Fitting	Total
1/2"	15	\$0.48	\$7.20
3/4"	14	\$1.08	\$15.12
1"	15	\$2.66	\$39.90
1-1/4"	17	\$4.02	\$68.34
1-1/2"	2	\$6.25	\$12.50
2"	12	\$11.40	\$136.80
<b>4"</b>	<b>15</b>	<b>\$82.00</b>	<b>\$1,230.00</b>
		<b>Total w/o XL Fittings: \$279.86</b>	
		<b>Total w/ XL Fittings: \$1,509.86</b>	

<b>Elbow, 45 Deg., Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Price/Fitting	Total
<b>4"</b>	<b>2</b>	<b>\$75.00</b>	<b>\$150.00</b>
		<b>Total w/ XL Fittings: \$150.00</b>	

<b>Tee, Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Price/Fitting	Total
1/2" x 1/2" x 1/2"	8	\$0.82	\$6.56
3/4" x 3/4" x 3/4"	1	\$1.99	\$1.99
3/4" x 3/4" x 1/2"	4	\$4.95	\$19.80
3/4" x 3/4" x 1"	2	\$7.75	\$15.50
1" x 3/4" x 1/2"	1	\$7.75	\$7.75
1-1/4" x 1-1/4" x 1-1/4"	2	\$8.80	\$17.60
1-1/4" x 1-1/4" x 3/4"	1	\$12.55	\$12.55
1-1/2" x 1" x 1-1/2"	1	\$21.50	\$21.50
1-1/2" x 1" x 3/4"	1	\$21.50	\$21.50
1-1/2" x 1" x 1"	1	\$21.50	\$21.50
1-1/2" x 1-1/2" x 1-1/4"	1	\$21.50	\$21.50
2" x 2" x 2"	6	\$21.00	\$126.00
2" x 2" x 3/4"	1	\$28.00	\$28.00
2" x 2" x 1"	1	\$28.00	\$28.00
<b>2-1/2" x 2-1/2" x 2-1/2"</b>	<b>1</b>	<b>\$43.00</b>	<b>\$43.00</b>
<b>2-1/2" x 2-1/2" x 2"</b>	<b>1</b>	<b>\$64.50</b>	<b>\$64.50</b>
		<b>Total w/o XL Fittings: \$343.19</b>	
		<b>Total w/ XL Fittings: \$450.69</b>	

***Solder Fitting Material Costs – Renovation Area (Cont.)***

<b>Coupling, Copper, Wrought, C x C, Solder Joint</b>				
Pipe Size	Pipe Length	Quantity	Price/Fitting	Total
1/2"	152'	19	\$0.38	\$7.22
3/4"	72'	10	\$0.72	\$7.20
1-1/4"	218'	25	\$2.73	\$68.25
			<b>Total:</b>	<b>\$82.67</b>

<b>Coupling, Copper, Wrought, C x C, Reducing, Solder Joint</b>			
Size	Quantity	ProPress Price/Fitting	Total
1" to 3/4"	5	\$3.00	\$15.00
1-1/2" to 3/4"	1	\$5.90	\$5.90
<b>2-1/2" to 1-1/4"</b>	<b>1</b>	<b>\$23.00</b>	<b>\$23.00</b>
<b>Total w/o XL Fittings:</b>			<b>\$20.90</b>
<b>Total w/ XL Fittings:</b>			<b>\$43.90</b>

***Solder Fitting Material Costs – Addition Area***

<b>Elbow, 90 Deg., Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	ProPress Price/Fitting	Total
1/2"	17	\$0.48	\$8.16
3/4"	11	\$1.08	\$11.88
1-1/4"	10	\$4.02	\$40.20
2"	2	\$11.40	\$22.80
<b>Total:</b>			<b>\$74.88</b>

<b>Tee, Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	ProPress Price/Fitting	Total
1/2" x 1/2" x 1/2"	2	\$0.82	\$1.64
3/4" x 3/4" x 1/2"	2	\$4.95	\$9.90
3/4" x 3/4" x 1"	3	\$7.75	\$23.25
1-1/4" x 1-1/4" x 1-1/4"	6	\$8.80	\$52.80
1-1/4" x 1-1/4" x 3/4"	2	\$12.55	\$25.10
1-1/4" x 1-1/4" x 2"	2	\$12.55	\$25.10
1-1/2" x 1-1/2" x 3/4"	3	\$21.50	\$64.50
<b>Total:</b>			<b>\$202.29</b>

**Solder Fitting Material Costs – Addition Area (Cont.)**

<b>Coupling, Copper, Wrought, C x C, Solder Joint</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2"	82'	11	\$0.38	\$4.18
3/4"	227'	29	\$0.72	\$20.88
1"	258'	33	\$1.47	\$48.51
1-1/4"	210'	12	\$2.73	\$32.76
1-1/2"	92'	5	\$3.62	\$18.10
2"	75'	10	\$6.05	\$60.50
<b>2-1/2"</b>	<b>67'</b>	<b>9</b>	<b>\$12.80</b>	<b>\$115.20</b>
<b>4"</b>	<b>369'</b>	<b>41</b>	<b>\$40.50</b>	<b>\$1,660.50</b>
			<b>Total w/o XL Fittings:</b>	<b>\$184.93</b>
			<b>Total w/ XL Fittings:</b>	<b>\$1,960.63</b>

**Note:** -All Values are for the State College Area Obtained from R.S. Means

**Solder Fitting Labor Costs – Renovation Area**

<b>Elbow, 90 Deg., Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Price of Labor/Fitting	Total
1/2"	15	\$15.30	\$229.50
3/4"	14	\$16.10	\$225.40
1"	15	\$19.25	\$288.75
1-1/4"	17	\$20.50	\$348.50
1-1/2"	2	\$23.50	\$47.00
2"	12	\$27.50	\$330.00
<b>4"</b>	<b>15</b>	<b>\$61.50</b>	<b>\$922.50</b>
<b>Total w/o XL Fittings:</b>			<b>\$1,469.15</b>
<b>Total w/ XL Fittings:</b>			<b>\$2,391.65</b>

<b>Elbow, 45 Deg., Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Price/Fitting	Total
<b>4"</b>	<b>2</b>	<b>\$61.50</b>	<b>\$123.00</b>
<b>Total w/ XL Fittings:</b>			<b>\$123.00</b>

<b>Tee, Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Price/Fitting	Total
1/2" x 1/2" x 1/2"	8	\$23.50	\$188.00
3/4" x 3/4" x 3/4"	1	\$25.50	\$25.50
3/4" x 3/4" x 1/2"	4	\$25.50	\$102.00
3/4" x 3/4" x 1"	2	\$27.50	\$55.00
1" x 3/4" x 1/2"	1	\$27.50	\$27.50
1-1/4" x 1-1/4" x 1-1/4"	2	\$34.00	\$68.00
1-1/4" x 1-1/4" x 3/4"	1	\$30.50	\$30.50
1-1/2" x 1" x 1-1/2"	1	\$34.00	\$34.00
1-1/2" x 1" x 3/4"	1	\$34.00	\$34.00
1-1/2" x 1" x 1"	1	\$34.00	\$34.00
1-1/2" x 1-1/2" x 1-1/4"	1	\$34.00	\$34.00
2" x 2" x 2"	6	\$44.00	\$264.00
2" x 2" x 3/4"	1	\$38.00	\$38.00
2" x 2" x 1"	1	\$38.00	\$38.00
<b>2-1/2" x 2-1/2" x 2-1/2"</b>	<b>1</b>	<b>\$69.00</b>	<b>\$69.00</b>
<b>2-1/2" x 2-1/2" x 2"</b>	<b>1</b>	<b>\$61.50</b>	<b>\$61.50</b>
<b>Total w/o XL Fittings:</b>			<b>\$784.50</b>
<b>Total w/ XL Fittings:</b>			<b>\$915.00</b>

***Solder Fitting Labor Costs – Renovation Area (Cont.)***

<b>Coupling, Copper, Wrought, C x C, Solder Joint</b>				
Pipe Size	Pipe Length	Quantity	Price/Fitting	Total
1/2"	152'	19	\$13.90	\$264.10
3/4"	72'	10	\$14.55	\$145.50
1-1/4"	218'	25	\$17.90	\$447.50
			<b>Total:</b>	<b>\$857.10</b>

  

<b>Coupling, Copper, Wrought, C x C, Reducing, Solder Joint</b>			
Size	Quantity	ProPress Price/Fitting	Total
1" to 3/4"	5	\$15.65	\$78.25
1-1/2" to 3/4"	1	\$19.25	\$19.25
<b>2-1/2" to 1-1/4"</b>	<b>1</b>	<b>\$23.50</b>	<b>\$23.50</b>
<b>Total w/o XL Fittings:</b>			<b>\$97.50</b>
<b>Total w/ XL Fittings:</b>			<b>\$121.00</b>

***Solder Fitting Labor Costs – Addition Area***

<b>Elbow, 90 Deg., Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	ProPress Price/Fitting	Total
1/2"	17	\$15.30	\$260.10
3/4"	11	\$16.10	\$177.10
1-1/4"	10	\$20.50	\$205.00
2"	2	\$27.50	\$55.00
<b>Total:</b>			<b>\$437.10</b>

  

<b>Tee, Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	ProPress Price/Fitting	Total
1/2" x 1/2" x 1/2"	2	\$23.50	\$47.00
3/4" x 3/4" x 1/2"	2	\$25.50	\$51.00
3/4" x 3/4" x 1"	3	\$27.50	\$82.50
1-1/4" x 1-1/4" x 1-1/4"	6	\$34.00	\$204.00
1-1/4" x 1-1/4" x 3/4"	2	\$30.50	\$61.00
1-1/4" x 1-1/4" x 2"	2	\$30.50	\$61.00
1-1/2" x 1-1/2" x 3/4"	3	\$34.00	\$102.00
<b>Total:</b>			<b>\$608.50</b>

**Solder Fitting Labor Costs – Addition Area (Cont.)**

<b>Coupling, Copper, Wrought, C x C, Solder Joint</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>ProPress Price/Fitting</b>	<b>Total</b>
1/2"	82'	11	\$13.90	\$152.90
3/4"	227'	29	\$14.55	\$421.95
1"	258'	33	\$17.00	\$561.00
1-1/4"	210'	12	\$17.90	\$214.80
1-1/2"	92'	5	\$20.50	\$102.50
2"	75'	10	\$23.50	\$235.00
<b>2-1/2"</b>	<b>67'</b>	<b>9</b>	<b>\$36.50</b>	<b>\$328.50</b>
<b>4"</b>	<b>369'</b>	<b>41</b>	<b>\$79.00</b>	<b>\$3,239.00</b>
			<b>Total w/o XL Fittings:</b>	<b>\$1,688.15</b>
			<b>Total w/ XL Fittings:</b>	<b>\$5,255.65</b>

**Note:** -All Labor Values are Based on Union Wages for the State College Area and Obtained from R.S. Means

**Solder Fitting Installation Time – Renovation Area**

<b>Elbow, 90 Deg., Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Manhours/Fitting	Total Manhours
1/2"	15	0.4	6
3/4"	14	0.421	5.894
1"	15	0.5	7.5
1-1/4"	17	0.533	9.061
1-1/2"	2	0.615	1.23
2"	12	0.727	8.724
<b>4"</b>	<b>15</b>	<b>1.778</b>	<b>26.67</b>
<b>Total w/o XL Fitting:</b>			<b>38.409</b>
<b>Total w/ XL Fitting:</b>			<b>65.079</b>

<b>Elbow, 45 Deg., Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Manhours/Fitting	Total Manhours
<b>4"</b>	<b>2</b>	<b>1.778</b>	<b>3.556</b>
<b>Total w/ XL Fittings:</b>			<b>3.556</b>

<b>Tee, Copper, Wrought, C x C, Solder Joint</b>			
Size	Quantity	Manhours/Fitting	Total Manhours
1/2" x 1/2" x 1/2"	8	0.615	4.92
3/4" x 3/4" x 3/4"	1	0.667	0.667
3/4" x 3/4" x 1/2"	4	0.667	2.668
3/4" x 3/4" x 1"	2	0.667	1.334
1" x 3/4" x 1/2"	1	0.727	0.727
1-1/4" x 1-1/4" x 1-1/4"	2	0.889	1.778
1-1/4" x 1-1/4" x 3/4"	1	0.8	0.8
1-1/2" x 1" x 1-1/2"	1	0.889	0.889
1-1/2" x 1" x 3/4"	1	0.889	0.889
1-1/2" x 1" x 1"	1	0.889	0.889
1-1/2" x 1-1/2" x 1-1/4"	1	0.889	0.889
2" x 2" x 2"	6	1.143	6.858
2" x 2" x 3/4"	1	1	1
2" x 2" x 1"	1	1	1
<b>2-1/2" x 2-1/2" x 2-1/2"</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>2-1/2" x 2-1/2" x 2"</b>	<b>1</b>	<b>1.778</b>	<b>1.778</b>
<b>Total w/o XL Tees:</b>			<b>20.388</b>
<b>Total w/ XL Tees:</b>			<b>24.166</b>



***Solder Fitting Installation Time – Renovation Area (Cont.)***

<b>Coupling, Copper, Wrought, C x C, Solder Joint</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>Manhours/ Fitting</b>	<b>Total Manhours</b>
1/2"	152'	19	0.364	6.916
3/4"	72'	10	0.381	3.81
1-1/4"	218'	25	0.471	11.775
			<b>Total:</b>	<b>22.501</b>

  

<b>Coupling, Copper, Wrought, C x C, Reducing, Solder Joint</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
1" to 3/4"	5	0.41	2.05
1-1/2" to 3/4"	1	0.5	0.5
<b>2-1/2" to 1-1/4"</b>	<b>1</b>	<b>0.615</b>	<b>0.615</b>
		<b>Total w/o XL Fittings:</b>	<b>2.55</b>
		<b>Total w/ XL Fittings:</b>	<b>3.165</b>

***Solder Fitting Installation Time – Addition Area***

<b>Elbow, 90 Deg., Copper, Wrought, C x C, Solder Joint</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
1/2"	17	0.4	6.8
3/4"	11	0.421	4.631
1-1/4"	10	0.533	5.33
2"	2	0.727	1.454
			<b>Total: 11.415</b>

  

<b>Tee, Copper, Wrought, C x C, Solder Joint</b>			
<b>Size</b>	<b>Quantity</b>	<b>Manhours/Fitting</b>	<b>Total Manhours</b>
1/2" x 1/2" x 1/2"	2	0.615	1.23
3/4" x 3/4" x 1/2"	2	0.667	1.334
3/4" x 3/4" x 1"	3	0.727	2.181
1-1/4" x 1-1/4" x 1-1/4"	6	0.889	5.334
1-1/4" x 1-1/4" x 3/4"	2	0.8	1.6
1-1/4" x 1-1/4" x 2"	2	1	2
1-1/2" x 1-1/2" x 3/4"	3	0.889	2.667
			<b>Total: 16.346</b>

***Solder Fitting Installation Time – Addition Area (Cont.)***

<b>Coupling, Copper, Wrought, C x C, Solder Joint</b>				
<b>Pipe Size</b>	<b>Pipe Length</b>	<b>Quantity</b>	<b>Manhours/ Fitting</b>	<b>Total Manhours</b>
1/2"	82'	11	0.364	4.004
3/4"	227'	29	0.381	11.049
1"	258'	33	0.444	14.652
1-1/4"	210'	12	0.471	5.652
1-1/2"	92'	5	0.533	2.665
2"	75'	10	0.615	6.15
<b>2-1/2"</b>	<b>67'</b>	<b>9</b>	<b>1.067</b>	<b>9.603</b>
<b>4"</b>	<b>369'</b>	<b>41</b>	<b>2.286</b>	<b>93.726</b>
			<b>Total w/o XL Fittings:</b>	<b>44.172</b>
			<b>Total w/ XL Fittings:</b>	<b>147.501</b>

**Note:** -All Labor Values were Obtained from R.S. Means  
Calculations are Based on a 1 Plumber Crew.