

# COST BREAKDOWN OF THE WATER FACILITIES EXAMPLE

## Name of Project and Location

A. Instructions

1. The unit costs and lump sums shall incorporate all applicable labor, equipment and material costs paid by the Owner to complete the various improvements.
2. The explanations printed in *italics* are provided for your information only. Do not incorporate the words in printed in *italics* in your final cost breakdown document.
3. When typing the final cost breakdown document, include only the items that apply to your project.

B. Waterline

<u>Account Number</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Cost</u>	<u>Total</u>
343	_____ L.F.	<u>(Size &amp; pipe material) Waterline, in place complete.</u> <i>1. Include the pipes used for water mains only (example: 4" PVC, 6" Ductile Iron, etc.)</i> <i>2. Exclude the pipes used for fire hydrants, standpipes and service laterals.</i> <i>3. The unit cost shall include the cost of trenching, backfilling, terra-tape, trench patching, mobilization and demobilization, etc.</i> <i>4. Provide a separate line for each different size and pipe material installed.</i> <i>5. The cost of fittings and mainline connections may be incorporated into the unit cost of the waterline. List valves separately (see below).</i>	<u>Cost/LF</u>	_____
343	_____ each	<u>(Size) Gate Valve, Including C.I. Valve Box and Cover</u> <i>1. Include the costs of mainline valves only. Valves installed for fire hydrants, standpipes, detector check laterals and compound meter laterals are listed elsewhere.</i> <i>2. Provide a separate line for each different size gate valve.</i> <i>3. Include the cost of the valve box settlement slab.</i>	_____	_____
343	_____ each	<u>1-inch Copper Air Relief Valve Assembly, in place complete.</u>	_____	_____

<u>Account Number</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Cost</u>	<u>Total</u>
		1. <i>Includes service saddle, corp. cock, copper piping &amp; fittings, angle valve, air relief valve, Type "X" meter box &amp; cover, cinders or crushed rock, etc.</i>		
343	_____ each	(Size) Cleanout, in place complete. 1. <i>Includes pipes &amp; fittings, stopcock, Type "B" meter box &amp; cover, conc. reaction block.</i>	_____	_____

C. Fire Hydrants and Standpipes

348	_____ each	Fire Hydrant Assembly w/ 1-4 1/2" & 1-2 1/2" Outlet, in place complete. 1. <i>Includes hydrant piping, bury, hydrant head, conc. reaction blocks and painting.</i> 2. <i>Exclude the cost of the 6" gate valve w/ C.I. valve box &amp; cover installed for the fire hydrant assembly (this item is listed separately below).</i>	_____	_____
348	_____ each	(Size) Gate Valve, including C.I. Valve Box & Cover for Fire Hydrant (or 2 1/2" Standpipe).	_____	_____
348	_____ each	2 1/2" Standpipe assembly w/ 2 1/2" Outlet, in place complete. 1. <i>Included 2 1/2" galvanized steel &amp; 2 1/2" PVC piping &amp; fittings, 2 1/2" hydrant head, conc. reaction blocks, settlement slab for the standpipe riser and painting.</i> 2. <i>Exclude the cost of the 2 1/2" gate valve w/ C.I. valve box &amp; cover installed for the 2 1/2" standpipe assembly (this item is listed separately above).</i>	_____	_____

D. Single & Double Service Laterals for 5/8" Water Meters

345	_____ each	1-inch Copper Single Service Lateral for 5/8-inch Water Meter, in place complete. 1. <i>Includes service saddle, corp. cock, pipe &amp; fittings, angle valve, ball valve, meter box &amp; cover.</i> 2. <i>This item applies only to <u>new</u> service laterals that were installed for the subject project.</i>	_____	_____
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<u>Account Number</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Cost</u>	<u>Total</u>
		3. <i>Exclude the cost of any backflow prevention devices.</i>		
345	_____ each	1 ½-inch Copper Double Service Lateral for 5/8-inch Water Meter, in place complete. 1. <i>Includes service saddle, corp. cock, pipe &amp; fittings, angle valve, ball valve, meter box &amp; cover.</i> 2. <i>This item applies only to <u>new</u> service laterals that were installed for the subject project.</i> 3. <i>Exclude the cost of any backflow prevention devices.</i>	_____	_____
343	Lump Sum	Reconnect Existing Off-Site Service Laterals to the New ( <u>size &amp; pipe material</u> ) Waterline. 1. <i>The cost for this item may be incorporated into the unit cost of the waterline, if desired.</i>	<u>Lump Sum</u>	_____
E. Detector Check Meter and Compound Meter Lateral				
348	_____ each	( <u>Size</u> ) Ductile Iron Lateral for ( <u>meter size</u> ) Detector Check, in place complete. 1. <i>Includes pipes &amp; fittings, concrete reaction blocks, gate valve installed inside of the meter box, meter spool, meter box &amp; cover, etc.</i> 2. <i>Exclude the cost of the gate valve w/ C.I. valve box &amp; cover installed where the detector check lateral piping branches off from the water main( this item is listed separately below).</i>	_____	_____
348	_____ each	( <u>Size</u> ) Gate Valve, including C.I. Valve Box & Cover for ( <u>meter size</u> ) Detector Check Lateral. 1. <i>This item is installed on detector check laterals with 4" and larger piping.</i> 2. <i>The cost applies to the gate valve where the detector check lateral piping branches off from the water main.</i> 3. <i>Exclude the cost of the gate valve installed inside of the meter box.</i>	_____	_____

<u>Account Number</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Cost</u>	<u>Total</u>
348	_____ each	2 ½-inch Copper Single Service Lateral for 2” Detector Check Meter, in place complete. <ol style="list-style-type: none"> <li>1. <i>Includes service saddle, corp. cock, pipe &amp; fittings, angle valve, ball valve, meter box &amp; cover.</i></li> </ol>	_____	_____
348	_____ each	( <u>Size</u> ) Ductile Iron Lateral for ( <u>meter size</u> ) Compound Meter, in place complete. <ol style="list-style-type: none"> <li>1. <i>Includes pipes &amp; fittings, concrete reaction blocks, gate valve installed inside of the meter box, bypass line, meter spool, meter box &amp; cover, etc.</i></li> <li>2. <i>Exclude the cost of the gate valve w/ C.I. valve box &amp; cover installed where the compound meter lateral piping branches off from the water main ( this item is listed separately below).</i></li> <li>3. <i>Exclude the cost of the backflow prevention device.</i></li> </ol>	_____	_____
348	_____ each	( <u>Size</u> ) Gate Valve, including C.I. Valve Box & Cover for ( <u>meter size</u> ) Compound Meter Lateral. <ol style="list-style-type: none"> <li>1. <i>This item is installed on compound meter laterals with 4” and larger piping.</i></li> <li>2. <i>The cost applies to the gate valve where the compound meter lateral piping branches off from the water main.</i></li> <li>3. <i>Exclude the cost of the gate valve installed inside of the meter box.</i></li> </ol>	_____	_____