

**Engineer's Estimate Checklist for Optimal Confidence**

Project Name/Number: E07383 Springwater Wetlands and Floodplain Restoration Engineer: Rose Horton, PE, Otak, Inc.

Level of Effort to prepare this estimate: High – Optimal Confidence

Items included in this estimate: Final Engineer's Estimate of Materials, Size, and Quantities for Construction

Items excluded in this estimate: Design, Permits, Project/Construction Management, Management Reserve

**Project Scope**

	<b><u>Yes</u></b>	<b><u>No</u></b>	<b><u>Not Applicable</u></b>
Is the project scope clearly understood and well defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are pay items identified according to project Specifications?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are materials and quantities accurate for execution of the job?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the extent of street resurfacing understood and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is utility coordination and/or relocation, and potential project delay, understood and accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are environmental and soil conditions understood, and are the extent and methods of any required disposal accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has Traffic Control been estimated according to project-specific conditions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are project-specific mobilization costs understood and accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have known extra work items, or force account items, been accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: _____			

**Project Schedule**

	<b><u>Yes</u></b>	<b><u>No</u></b>	<b><u>Not Applicable</u></b>
Have availability and delivery time of important materials and equipment been checked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has the contract time been determined with/by the Construction Manager?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have contract time cost impacts been accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have construction season cost impacts been accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are schedule constraints and/or schedule acceleration requirements understood, well defined, and accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have unusual work time requirements (i.e. 24-hr work or limited street closure times) been accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: _____			

**Quality Assurance**

	<b><u>Yes</u></b>	<b><u>No</u></b>	<b><u>Not Applicable</u></b>
Are quantity take-off calculations and back-up information documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are unit prices verified with vendors and sources documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are historical unit costs adjusted (to midpoint of construction) from projects of similar scale, similar site and similar construction conditions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have non-standard items been estimated "bottom up"?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is a contingency in this estimate? If so, describe: <u>10% for Change Conditions</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are "plug" estimates used? If so, describe: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was this estimate checked? (quantities and costs)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: _____			

**Bidding Environment**

	<b><u>Yes</u></b>	<b><u>No</u></b>	<b><u>Not Applicable</u></b>
Is this project directed to the sheltered market and is this accounted for in this estimate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the time/season of advertising been factored into this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are circumstances known that would limit the bidding pool and is this accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: _____			

**Implementation Procedures for Capital Projects**

	<b><u>Yes</u></b>	<b><u>No</u></b>	<b><u>Not Applicable</u></b>
Does the project construction estimate agree with the current budget?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If "No", has a Trend Alert been prepared?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments: _____			