

## Engineer's Estimate Checklist for Optimal Confidence

Project Name/Number: Foster Sewer Rehabilitation E08890 Engineer: Ayda Forouzan  
 Level of Effort to prepare this estimate: 80 hrs  
 Items included in this estimate: All Bid Items  
 Items excluded in this estimate: \_\_\_\_\_

### Project Scope

|   | <u>Yes</u>                          | <u>No</u>                | <u>Not Applicable</u>               |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 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 type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments: \_\_\_\_\_

### Project Schedule

|  | <u>Yes</u>                          | <u>No</u>                | <u>Not Applicable</u>               |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Have availability and delivery time of important materials and equipment been checked?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" 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 (ie 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

|  | <u>Yes</u>                          | <u>No</u>                           | <u>Not Applicable</u>               |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 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 type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Is a contingency in this estimate? If so, describe: _____  | <input type="checkbox"/>            | <input checked="" 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

|  | <u>Yes</u>                          | <u>No</u>                           | <u>Not Applicable</u>    |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 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 the 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 type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Comments: \_\_\_\_\_

### Implementation Procedures for Capital Projects

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

Comments: \_\_\_\_\_