

Professional

Engineering

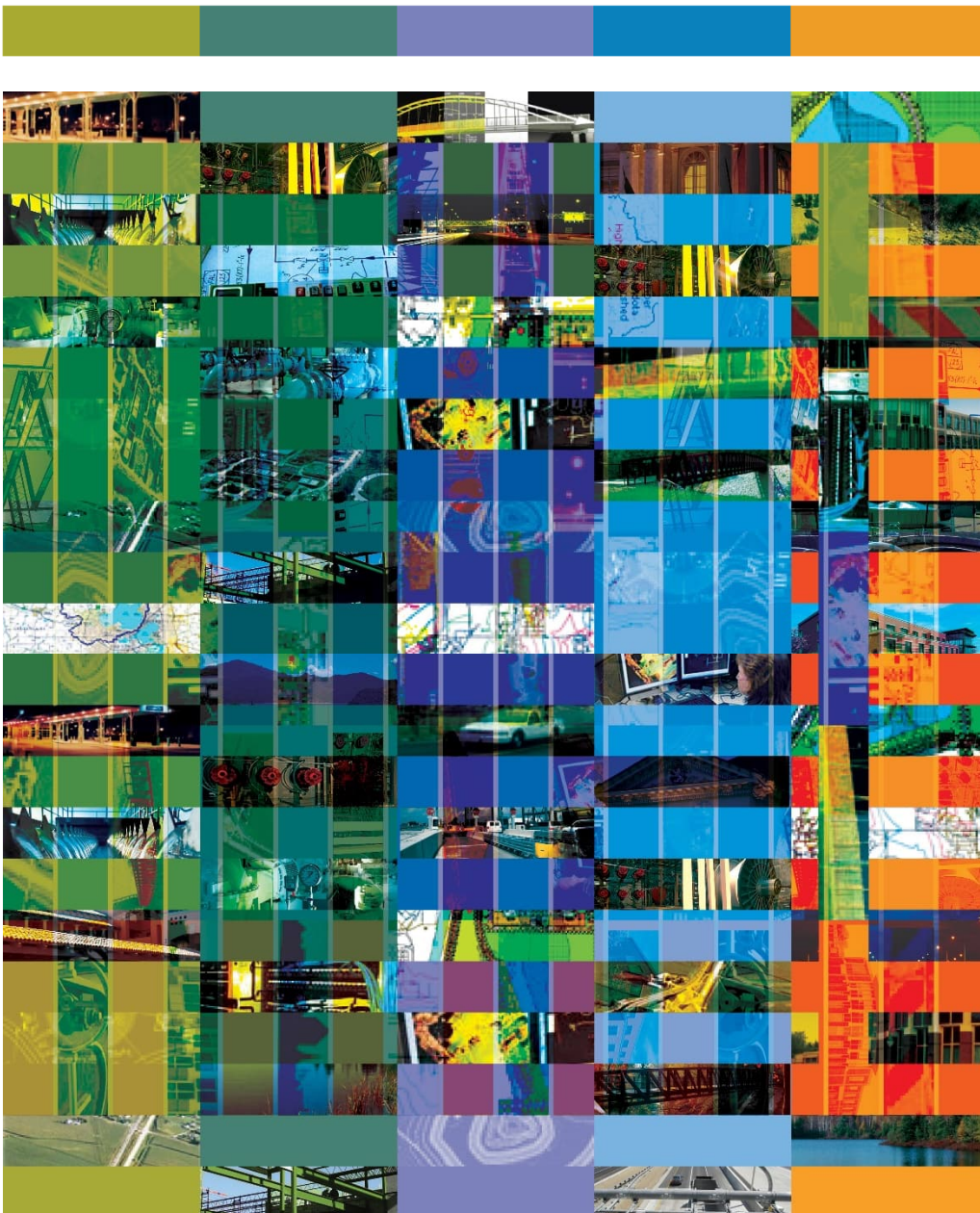
Services

Clean Water Plant Phase 3 Improvements – Construction- Related Services

Cost Proposal

City of Waukesha, WI

March 28, 2025





Pricing

Refined Project Approach and Team Results in Engineering Efficiency

Having worked within the plant for the past 15 years and having conducted dozens of meetings with City staff, our team is exceptionally qualified to provide construction-related services for this important project. As such, the City can be confident that there will be no surprises.

As requested, we have updated our construction-related services fee for the Clean Water Plant Phase 3 Improvements project. The construction-related services fees have been separated into construction administration (office) and resident project engineer (field) efforts, similar to how the previous construction project was scoped. Note, we rounded in determining the proposed lump sums figures shown below.

Construction Administration (Lump Sum)	Resident Project Engineer Services (Lump Sum)
\$768,000	\$252,000

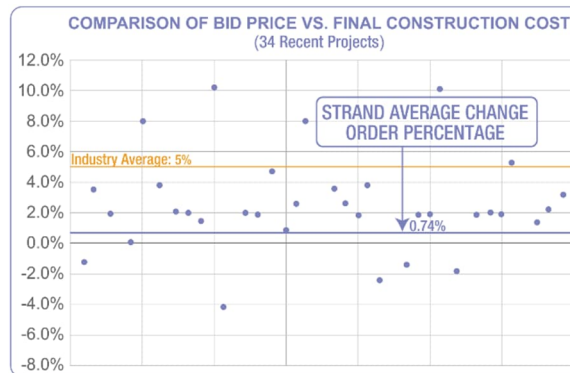
Outstanding History of Accurate Cost Opinions and Low Change Orders Provides Confidence in Design Process

We have an excellent record of providing **long-term value** to our clients. This is accomplished through detailed designs that minimize change orders during construction, provide long life, and minimize operational and maintenance cost.

We are very proud of our record of low change orders. **The industry average cost for change orders (5 percent) often can exceed the total cost of design services. Our projects consistently average well below 1 percent total change orders, as demonstrated in the accompanying graph.**

The *CWP Improvements* project had only 0.28 percent change orders, an extremely low figure for a complex rehabilitation project.

Our Multi-Million Dollar Engineering Projects



Our change order record demonstrates quality engineering, reducing final construction costs by an average of \$168,000, on a \$7 million construction project, compared to the industry average.

Controlling project costs, including engineering and construction costs, is one of the most important aspects of project management, and cost control is truly part of our culture.

In addition, our designs carefully consider the long-term operation and maintenance costs of the facilities that, over 20 years, can exceed the costs of construction. This attention to **total life-cycle costs** delivers value that cannot be measured on bid day but will add to the City's bottom line year after year.

City of Waukesha - Construction

TASKS	Project Manager	Operations Specialist	Project Engineer & RPR	Quality Control	Lead Structural	Structural	SCADA	Electrical Controls	Electrical QC	Mechanical Engineer	Mechanical QC	Site Engineer	Technician	Office Production	TOTAL HRS	TOTAL COST (including expenses)
	Travis Anderson	Troy Larson	Jordan Bindas	Scott Stearns	Wayne Maki	Kyle Beth	Chad Moore	Braeden Verbsky	Matt Cacerros	Gabe Murphy	Nathan Brandt	Pat Rank				
	\$ 214	\$ 215	\$ 139	\$ 354	\$ 252	\$ 154	\$ 150	\$ 143	\$ 217	\$ 135	\$ 143	\$ 257	\$ 143	\$ 121		
	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.		Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.		
Project Administration																
Initiate project	8		4	2	2			1	2					8	27	\$ 5,600
Monthly staff scheduling, budget control, internal meetings	192		72	16				192							472	\$ 94,300
Monthly billings review, invoicing, and reporting	144							92						12	248	\$ 50,900
Subtotal	344	0	76	18	2	0	0	285	2	0	0	0	0	20	747	\$ 150,800
Task 1 - Post Design Services																
Review and reply to RFIs	60		80	8	12	32		90	42	16	4	8			352	\$ 68,900
Cost Proposal Request and Change Orders	80		80	8	12	24		88	24	16	4	8	12	20	376	\$ 72,200
Shop drawing review	40		200	8	12	100		240	110	80	8	8			806	\$ 145,400
Attend monthly progress meetings	96		60			8		192						32	388	\$ 68,800
Site visits	40		40	8	8	24		96	12	16		8			252	\$ 48,400
Participate in partial utilization review	32		24			12		12		12				3	95	\$ 17,600
Conduct substantial completion review	12		12			12		12		12				4	64	\$ 11,100
Final completion review	12		12					12		12				4	52	\$ 9,000
Factory/SCADA functionality tests	4						200	40							244	\$ 41,000
Subtotal	376	0	508	32	44	212	200	782	188	164	16	32	12	63	2,629	\$ 482,400
Task 2 - Startup, Training, Record Drawings																
Classroom training on operational theory and design goals	4	100	120												224	\$ 43,700
Field training, manufacturer training, SCADA interface	4	40	72					80		8					204	\$ 35,800
Prepare record drawings based on contractor's markups	20							16					180		216	\$ 36,200
Post Startup Assistance	32		24					32	8	8					104	\$ 19,700
Subtotal	60	140	216	0	0	0	0	128	8	16	0	0	180	0	748	\$ 135,400
Task 3 - RPR Services																
On Site RPR services			1260					200	100						1560	\$ 252,000
Subtotal	0	0	1260	0	0	0	0	200	100	0	0	0	0	0	1,560	\$ 252,000
TOTAL HOURS	780	140	2,060	50	46	212	200	1,395	298	180	16	32	192	83	5,684	\$ 1,020,600