



# CHANGE ORDER REQUEST SUMMARY

Project Name: Waukesha WWTP  
 Job No: 140165  
 Date: 6/14/2016

Cost Proposal Request No: 43  
 Revision: \_\_\_\_\_

Description of Change: CPR 43 Main switchgear monitoring points: Provide conduit in 410 electric room.  
Run conduit from I-CMH-6 to switchgear. Pull wire from 410-scc to switchgear.  
Run conduit and pull wire from switchgear.

## SUMMARY

A	Materials	\$	-
B	Labor	\$	-
C	Subcontracts	\$	7,047.15
D	Equipment	\$	-
E	General Conditions	\$	-
	<b>Subtotal</b>	<b>\$</b>	<b>7,047.15</b>
F	Overhead and Profit	\$	352.36
	<b>Subtotal</b>	<b>\$</b>	<b>7,399.51</b>
G	Bond and Insurance	\$	74.00
	<b>Grand Total</b>		<b>\$7,474</b>

This proposal only covers the direct costs of labor, materials and equipment to execute the changed work described in the proposal. At the present time, we cannot access or evaluate the overall impact of the changed work on our original scope of work. We thereby reserve our rights to claim for any indirect costs which may arise in the future as a result of delays to the work, out of sequence work, inefficiencies, extended contract completion, labor and material escalation and/or acceleration and extended warranties.



# CHANGE ORDER REQUEST SUMMARY

Item Description	Calc Type	Quantity	Unit of Measure	Unit Price or Rate	PCT %	Total Amount
<b>A   MATERIAL</b>						
Epoxy	Unit Price		gal			\$ -
Polyurethane for Bridge	Lump Sum		Lump Sum			\$ -
Blasting Sand	Unit Price		Lump Sum			\$ -
PVC Materials	Unit Price		Lump Sum			\$ -
<b>TOTAL MATERIAL</b>						<b>\$ -</b>

<b>B   LABOR</b>						
Superintendent	Unit Price		Hour	78.00		\$ -
Superintendent Overtime	Unit Price		Hour	92.00		\$ -
Carpenter Foreman(Eifs)	Unit Price		Hour	68.00		\$ -
Carpenter	Unit Price		Hour	65.00		\$ -
Carpenter(caulking)	Unit Price		Hour	65.00		\$ -
Mason Foreman(stone cap)	Unit Price		Hour	68.00		\$ -
Mason(Cut CMU openings)	Unit Price		Hour	65.00		\$ -
Mason Overtime	Unit Price		Hour	85.00		\$ -
Ironworker	Unit Price		Hour	68.00		\$ -
Ironworker Overtime	Unit Price		Hour	89.00		\$ -
Painter(Repair PVC Liner)	Unit Price		Hour	62.00		\$ -
Painter	Unit Price		Hour	62.00		\$ -
Cement Finisher Overtime	Unit Price		Hour	78.00		\$ -
Operator (inc. grease time)	Unit Price		Hour	73.00		\$ -
Operator (inc. grease time) Overtime	Unit Price		Hour	97.00		\$ -
Laborer(Cover/Clean)	Unit Price		Hour	55.00		\$ -
Laborer Overtime	Unit Price		Hour	73.00		\$ -
Material Handling	Percent			45.00		\$ -
Shop Labor	Percent			45.00		\$ -
Overtime Inefficiency	Percent				0.00%	\$ -
Temperature Inefficiency	Percent					\$ -
Acceleration Inefficiency	Percent					\$ -
Tool Costs PVC Welding Equipment	Percent				20.00%	\$ -
<b>TOTAL LABOR</b>						<b>\$ -</b>

<b>C   SUBCONTRACT</b>						
	Lump Sum		Lump Sum			
Altmeyer	Lump Sum		Lump Sum			\$ 7,047.15
	Lump Sum		Lump Sum			
						<b>\$ 7,047.15</b>

# CHANGE ORDER REQUEST SUMMARY

Item Description	Calc Type	Quantity	Unit of Measure	Unit Price or Rate	PCT %	Total Amount
<b>D   EQUIPMENT</b>						
Concrete Pump	Unit Price		Day			\$ -
End loader/Dozer Rental	Unit Price		Day			\$ -
Crane Rental	Unit Price		Hour			\$ -
Forklift Rental	Unit Price		Day			\$ -
Welding Machine Rental	Unit Price		Day			\$ -
Compactor/Tamper Rental	Unit Price		Day			\$ -
Scissors/Man Lift Rental	Unit Price					\$ -
Concrete saw and blade	Unit Price		Each	25.00		\$ -
Equipment Delivery/Haul Cost	Lump Sum		Lump Sum			\$ -
Equipment Fuel Costs	Percent				3.00%	\$ -
Equipment Repairs	Percent				3.00%	\$ -
<b>TOTAL EQUIPMENT</b>						<b>\$ -</b>
<b>E   GENERAL CONDITIONS</b>						
Project Management	Unit Price					\$ -
Warranty/Punchlist	Unit Price					\$ -
Company Vehicle	Unit Price		Each			\$ -
Administrative Costs	Unit Price		Each			\$ -
Estimating Cost	Unit Price		Each			\$ -
As Built Cost	Unit Price		Each			\$ -
Special Insurance	Lump Sum					\$ -
Fees & Permits	Lump Sum					\$ -
<b>TOTAL GENERAL CONDITIONS</b>						<b>\$ -</b>
<b>F   OVERHEAD AND PROFIT</b>						
Overhead & Profit - Materials	Percent				15.00%	
Overhead & Profit - Labor	Percent				15.00%	
Overhead & Profit - Subcontractor	Percent				5.00%	\$ 352.36
Overhead & Profit - Equipment	Percent				5.00%	\$ -
Overhead & Profit - General Condition	Percent				5.00%	\$ -
<b>TOTAL OVERHEAD AND PROFIT</b>						<b>\$ 352.36</b>
<b>G   BOND AND INSURANCE</b>						
Bond and Insurance	Percent				1.0%	\$ 74.00
<b>TOTAL BOND AND INSURANCE</b>						<b>\$ 74.00</b>

**GRAND TOTAL:** \$ 7,473.50

**Altmeyer Electric, Inc.**

COMMERCIAL • INDUSTRIAL • RESIDENTIAL

827 S. 21st Street • Sheboygan, WI 53081

Phone: (920) 458-3406 • Fax: (920) 458-4626

06/14/16

CD SMITH  
PO BOX 1006  
FOND DU LAC, WI 54936

Attn: Justin Smith

RE: Waukesha WWTP, CPR 43

Provide conduit in 410 electric room	10 hrs	
Run conduit from I+CMH-6 to gear	10 hrs	
Pulling wire from 410-scc to gear	8 hrs	
Run conduit and pull wire from gear	<u>8 hrs</u>	
	36 hours x 90.00 hr	
		\$3,240.00

## Material

120' 3/4" IMC	\$330.00
12x12x6 junction box	\$105.00
(2) 3/4" Meyers hubs	\$23.50
(10) 3/4" strut straps	\$22.50
100' 1" pvc	\$150.00
(1) 1" LB w cover	\$21.50
(1) 1" Meyers hub	\$12.75
100' 3/4" greenfield	\$275.00
(4) 3/4" greenfield conn	\$10.60
4,500' #14 XHHW	\$675.00

Total Labor	\$3,240.00
Total Material	\$1,625.85
L.W Allen	\$1,983.00
L.W Allen 10%	<u>\$198.30</u>
	\$7,047.15

*Sincerely,**Don Altmeyer*

Altmeyer Electric, Inc.  
DA/sh



# CHANGE ORDER REQUEST SUMMARY

Project Name: Waukesha WWTP  
 Job No: 140165  
 Date: 11/1/2017

Cost Proposal Request No: \*  
 Revision: \_\_\_\_\_

Description of Change: Mount and wire antennas at Sunset Dr, Green Meadow and West Ave.  
 \_\_\_\_\_  
 \_\_\_\_\_

## SUMMARY

A	Materials	\$	-
B	Labor	\$	-
C	Subcontracts	\$	4,831.50
D	Equipment	\$	-
E	General Conditions	\$	-
	<b>Subtotal</b>	<b>\$</b>	<b>4,831.50</b>
F	Overhead and Profit	\$	241.58
	<b>Subtotal</b>	<b>\$</b>	<b>5,073.08</b>
G	Bond and Insurance	\$	50.73
	<b>Grand Total</b>		<b>\$5,124</b>

This proposal only covers the direct costs of labor, materials and equipment to execute the changed work described in the proposal. At the present time, we cannot access or evaluate the overall impact of the changed work on our original scope of work. We thereby reserve our rights to claim for any indirect costs which may arise in the future as a result of delays to the work, out of sequence work, inefficiencies, extended contract completion, labor and material escalation and/or acceleration and extended warranties.

# CHANGE ORDER REQUEST SUMMARY

Item Description	Calc Type	Quantity	Unit of Measure	Unit Price or Rate	PCT %	Total Amount
<b>A   MATERIAL</b>						
Aluminum Beam	Unit Price		per yard			
Caulk/fasteners/misc	Lump Sum		Lump Sum			\$ -
Cementitious coating	Unit Price		per bag			\$ -
Sheet metal	Unit Price		ls			\$ -
Rip Rap	Lump sum		ton			\$ -
<b>TOTAL MATERIAL</b>						<b>\$ -</b>
<b>B   LABOR</b>						
Superintendent	Unit Price		Hour	78.00		\$ -
Superintendent Overtime	Unit Price		Hour	92.00		\$ -
Carpenter Foreman	Unit Price		Hour	68.00		\$ -
Carpenter	Unit Price		Hour	65.00		\$ -
Carpenter	Unit Price		Hour	65.00		\$ -
Mason Foreman	Unit Price		Hour	68.00		\$ -
Mason(Stone Cap)	Unit Price		Hour	65.00		\$ -
Mason Overtime	Unit Price		Hour	85.00		\$ -
Ironworker	Unit Price		Hour	68.00		\$ -
Ironworker Overtime	Unit Price		Hour	89.00		\$ -
Painter (foundation coating)	Unit Price		Hour	62.00		\$ -
Cement Finisher	Unit Price		Hour	59.00		\$ -
Cement Finisher Overtime	Unit Price		Hour	78.00		\$ -
Operator (inc. grease time)	Unit Price		Hour	73.00		\$ -
Operator (inc. grease time) Overtime	Unit Price		Hour	97.00		\$ -
Laborer	Unit Price		Hour	55.00		\$ -
Laborer Overtime	Unit Price		Hour	73.00		\$ -
Material Handling	Percent		Hour	45.00		\$ -
Shop Labor	Percent		Hour	45.00		\$ -
Overtime Inefficiency	Percent				0.00%	\$ -
Temperature Inefficiency	Percent					\$ -
Acceleration Inefficiency	Percent					\$ -
Tool Costs	Percent				5.00%	\$ -
<b>TOTAL LABOR</b>						<b>\$ -</b>
<b>C   SUBCONTRACT</b>						
Altmeyer Electric	Lump Sum		Lump Sum			\$ 4,831.50
	Lump Sum		Lump Sum			
	Lump Sum		Lump Sum			
						<b>\$ 4,831.50</b>

# CHANGE ORDER REQUEST SUMMARY

Item Description	Calc Type	Quantity	Unit of Measure	Unit Price or Rate	PCT %	Total Amount
<b>D   EQUIPMENT</b>						
Concrete Pump	Unit Price		Day			\$ -
End loader/Dozer Rental	Unit Price		Day			\$ -
Crane Rental	Unit Price		Hour			\$ -
60 foot boom lift	Unit Price		week			\$ -
Excavator	Unit Price		hr			\$ -
Compactor/Tamper Rental	Unit Price		hr			\$ -
Scissors/Man Lift Rental	Unit Price					\$ -
Concrete Ring saw	Unit Price		Each			\$ -
Equipment Delivery/Haul Cost	Lump Sum		Lump Sum			\$ -
Equipment Fuel Costs	Percent				3.00%	\$ -
Equipment Repairs	Percent				3.00%	\$ -
<b>TOTAL EQUIPMENT</b>						<b>\$ -</b>
<b>E   GENERAL CONDITIONS</b>						
Project Management	Unit Price					\$ -
Warranty/Punchlist	Unit Price					\$ -
Company Vehicle	Unit Price		Each			\$ -
Administrative Costs	Unit Price		Each			\$ -
Estimating Cost	Unit Price		Each			\$ -
As Built Cost	Unit Price		Each			\$ -
Special Insurance	Lump Sum					\$ -
Fees & Permits	Lump Sum					\$ -
<b>TOTAL GENERAL CONDITIONS</b>						<b>\$ -</b>
<b>F   OVERHEAD AND PROFIT</b>						
Overhead & Profit - Materials	Percent				15.00%	\$ -
Overhead & Profit - Labor	Percent				15.00%	\$ -
Overhead & Profit - Subcontractor	Percent				5.00%	\$ 241.58
Overhead & Profit - Equipment	Percent				15.00%	\$ -
Overhead & Profit - General Condition	Percent				5.00%	\$ -
<b>TOTAL OVERHEAD AND PROFIT</b>						<b>\$ 241.58</b>
<b>G   BOND AND INSURANCE</b>						
Bond and Insurance	Percent				1.0%	\$ 50.73
<b>TOTAL BOND AND INSURANCE</b>						<b>\$ 50.73</b>

**GRAND TOTAL:** \$ 5,123.81



## Altmeyer Electric, Inc.

COMMERCIAL • INDUSTRIAL • RESIDENTIAL

827 S. 21st Street • Sheboygan, WI 53081

Phone: (920) 458-3406 • Fax: (920) 458-4626

02/15/17

Waukesha WWTP  
600 Sentry Drive  
Waukesha, WI

Attn: Jeff Harenda

The cost to mount and wire antennas at Sunset Dr., Green Meadow and West Ave. is \$4,831.50.

Labor,		
12 hrs each at 90.00/hr x 3		\$3,240.00
Material,		
150' coax cable at		
1 weather head		\$15.00
10' 1 ¼" rigid conduit 4.00/ft		\$40.00
20' 1 ¼" pvc rigid conduit 7.50/ft		\$150.00
(3) 1 ¼" meyer hub		\$12.50
4' stainless steel strut 15.00/ft		\$60.00
(3) stainless steel strut straps 6.00/ea		\$18.00
Misc material		<u>\$25.00</u>
		\$530.50 x 3 = \$1,591.50

Sincerely,

*Don Altmeyer*

Altmeyer Electric, Inc.

DA/sh





January 5, 2017

Mr. Justin Smith  
C.D. Smith Construction, Inc.  
P.O. Box 1006  
Fond du Lac, WI 54936-1006

Re: Waukesha Switchgear Resolution

Dear Justin,

Modifications to the Waukesha Wastewater Treatment Plant (WWTP) service entrance switchgear equipment (equipment) were completed by Schneider on May 19, 2016. However, several items discussed leading to these modifications have not been addressed to date. These include reimbursement of the City of Waukesha's (City) costs incurred during the May 19, 2016, outage required for modification to the equipment, future testing of the equipment, and the warranty on the equipment.

See attached for an accounting of the costs incurred by the City during the May 19 modifications, including overtime costs, natural gas costs, and generator use costs. Overtime costs amounted to \$614.46 and only included costs for hourly staff. No management time is being included in this request. Natural gas costs are estimated based on gas consumption measurements for a half-hour period while the generators were running, extrapolated to the total 15.5 hours of run time. The total estimated natural gas cost for the generators is \$651.00. During the outage, the City provided one 50 kilowatt (kW) generator, one 100 kW generator and eight 300 kW generators to maintain essential plant operations including influent and primary effluent pumping, return activated sludge pumping, aeration, and disinfection. Many other plant processes were not powered during the outage. The total generator use cost is \$368 for the 50 kW generator, \$503 for the 100 kW generator, and \$1,091 for each of the eight 300 kW generators. These generator use costs are based on local rental rates. The total generator use cost is \$9,602. The total reimbursement being requested by the City is \$10,867. These are the costs only for the May 19 shutdown and do not include the significant labor, natural gas, and generator use costs incurred by the City during the other outages required for switchgear modifications and repairs.

The City also requests reimbursement for the services required as a result of the fuse failure that occurred on August 8, 2016. The attached invoice shows costs of \$1,043. Again, this does not include labor costs incurred by the City for overtime wages for plant personnel required at the facility after working hours since the failure occurred at 4:45 P.M. Schneider has expressed the opinion, without substantiation, that the fuse failure was due to "an electrical disturbance on the utility side." A review of power data received from WE Energies shows no such disturbance.

Programming for display of switchgear alarms in the facility's supervisory control and data acquisition system (SCADA) has been completed. The City requests that a live test be performed as soon as possible. The City is aware of Schneider's position regarding wear and tear on the equipment from the live testing but feels a live test is necessary to show proper responses of the switchgear to an actual power outage as well as proper communication of alarms and switchgear condition to SCADA during an outage event.

Mr. Justin Smith  
C.D. Smith Construction, Inc.  
Page 2  
January 5, 2017

The City also requests instruction on simulated power outage testing to enable staff to perform periodic simulated tests without the need to engage Schneider or WE Energies.

Also, please provide a full set of three spare primary fuses for both the power fuses and the PT fuses as well as spare secondary fuses for the controls in the 25 kilovolt (kV) main switchgear lineup.

Because of the uncertainty created by the failure of the switchgear to properly operate during the December 24, 2015, power outage as well as subsequent issues with the equipment, the City requests a five-year extended warranty to commence from May 2016. In addition, the City requests semi-annual inspection and annual live testing of the equipment for the next three years.

In summary, the City requires reimbursement of \$11,910, standard operating procedures for a simulated outage, spare fuses as described above, and a five year parts and labor warranty. Please note that the Notice of Violation that resulted from the sanitary sewer overflow has not been resolved as Wisconsin Department of Natural Resources is awaiting the demonstration of the successful SCADA testing and a resolution on a warranty including annual inspections and testing to assure that there will be no issues arising in the future with this equipment.

Please contact me with any questions.

Sincerely,

STRAND ASSOCIATES, INC.®



Vernon C. Witthuhn, Jr., P.E.

Enclosures

c: Dr. Fred Abadi, City of Waukesha  
Jeff Harenda, City of Waukesha



815 Beech Street  
Grafton, WI 53024  
Tel: 262.377.5500  
Fax: 262.377.0033

1411 Bernard Drive  
Addison, IL 60101  
Tel: 630.916.6800  
Fax: 630.916.6825

May 8, 2017

C.D. Smith Construction Services  
889 East Johnson Street  
PO Box 1006  
Fond du Lac, WI 54936  
Attn: Mr. Justin Smith

INVOICE NO. W17-018

PO # 140165-29

NET DUE by June 7, 2017

Perform Injection and Routing and Sealing

115LF @ \$89.00/LF	\$10,235.00
	Total \$10,235.00

Change the previously billed amount of 242 LF to 115 LF.  
Credit = (242 LF - 115 LF)\*\$89.00/LF = \$11,303.00

**CONTRACTOR REQUESTS PAYMENT OF ..... \$10,235.00**

**PLEASE REMIT TO: Spectrum Contracting Corp.  
815 Beech Street  
Grafton, WI 53024**