



Bill of Quantities

Project: Costco Wholesale - Costco Gasoline  
Address: 730 Lake Drive, Issaquah, WA 98027

Labor Rate: \$ 144.08

Estimate : \$ 323,019.56  
Floor Area : 189.00 SF

REF	ITEM	QUANTITY	UNIT	PRODUCTION RATE	LABOR HOURS	LABOR RATE	MATERIAL RATE	EQUIPMENT RATE	LABOR COSTS	MATERIAL COSTS	EQUIPMENT COSTS	SALES TAX	LABOR MARK-UP	MATERIAL MARK-UP	TOTAL COST
1	<b>GENERAL REQUIREMENTS</b>								\$	\$	\$	24,000.00			\$ 25,560.00
	General Conditions & Mobilization Allowance (Assumed) - Assumed to be 8-10% of construction cost	1.00	LS	0.00	0.00	0.00	0.00	24,000.00			24,000.00	1,560.00	0	0	25,560.00
26	<b>ELECTRICAL</b>								\$ 45,816.67	\$ 135,356.88	\$ -				\$ 239,210.13
	Electrical Works - To provide all light and power and emergency light and power, power outlets and light fittings, including main distribution board; sub-mains and distribution boards; emergency lighting systems, power sub mains to mechanical equipment, etc.	189.00	SF	0.35	66.94	40.40	66.55	0.00	7,636.11	12,577.90		817.56	25%	25%	26085.08
Site	Generator Manu: Kohler Model: 150RE02JF	1.00	EA	18.00	18.00	2,053.35	45,190.00	0.00	2,053.35	45,190.00		2,937.35	25%	25%	61991.54
Lighting	30"W x 11"D x 42" H 400AMP Meter	1.00	EA	4.20	4.20	479.12	1,895.20	0.00	479.12	1,895.20		123.19	25%	25%	3011.08
	Ceiling Fan w/ Light	1.00	EA	1.50	1.50	171.11	398.55	0.00	171.11	398.55		25.91	25%	25%	737.98
	96W LED Symmetric Ambient Canopy Light Fixture Manu: CREE Model: CPY250-C-13L-57K7-F-UL-DM-WH-HZ	47.00	EA	0.98	46.06	111.79	442.00	0.00	5,254.29	20,774.00		1,350.31	25%	25%	33885.68
	Linear LED Canopy Fascia Light - Weatherproof TYPE: Canopy Lighting Fixture Manu: CREE Model: LFLM00LWH53K	8.00	EA	0.98	7.84	111.79	872.50	0.00	894.35	6,980.00		453.70	25%	25%	10296.64
Fixtures	Digital Video Server Recorder - 16 Channel TYPE: Security Equipment Manu: As Specified by Owner Model: As Specified by Owner Mounting: Installed at EDP Room Notes: Installed by camera contractor	19.00	EA	1.50	28.50	171.11	709.20	0.00	3,251.14	13,474.80		875.86	25%	25%	21783.28
	Occupancy Queuing Camera Sensor TYPE: Sensor / Security Equipment Manu: LIGHT SPACE Model: nCam-62336xx	32.00	EA	0.56	17.92	63.88	220.40	0.00	2,044.22	7,052.80		458.43	25%	25%	11829.71
	Queuing Position LED Display TYPE: Digital LED Display Screen Manu: LIGHT SPACE INC. Model: Queuing Position LED Display Display Size: 48" x 64" Resolution: 3,072 Dots	4.00	EA	1.00	4.00	114.08	422.00	0.00	456.30	1,688.00		109.72	25%	25%	2790.10
	Ultrasonic Queuing System Server Assembly TYPE: Ultrasonic Queuing System - Server & Network Equipment Location: Column Mounted Enclosure: 24" x 24" x 12" Weatherproof Cabinet Security: Padlock by Costco Manufacturer: LIGHT SPACE INC. Included Equipment: • 24-Channel nSLMM IVS Server • Gigabit LAN Hub - 24 Channel, Main PoE • Gigabit LAN Hub - 8 Channel, Sub PoE	1.00	EA	1.00	1.00	114.08	800.00	0.00	114.08	800.00		52.00	25%	25%	1194.59
	Submersible Turbine Pump - Control Box Sump Additive Controller TYPE: Additive Control System Manu: FE PETRO Model: FE-STP-CBS Reference No.: 407818921	1.00	EA	1.00	1.00	114.08	250.00	0.00	114.08	250.00		16.25	25%	25%	471.34
	Environmental & Inventory Management System TYPE: Tank Monitoring / Environmental Monitoring System Manu: VEEDER-ROOT Model: TLS-450PLUS (Model No. 860091-302) Features: Integrated printer Accessories: Expansion Box TLS-XB Model No.: 860390-100 Notes: Provide complete environmental and inventory management system including console, integral printer, expansion box, required power supplies, interconnections, and all accessories.	1.00	EA	2.10	2.10	239.56	1,669.00	0.00	239.56	1,669.00		108.49	25%	25%	2494.18
	Emergency Shut-Off Switch TYPE: Emergency Stop / Shut-Off Push Button Switch Operation: Momentary contact, normally open Manu: POWERBOX Model: EM-01G Enclosure: NEMA 3R (outdoor rated) Accessories: Box and cover	1.00	EA	3.36	3.36	383.29	362.18	0.00	383.29	362.18		23.54	25%	25%	955.38
	Emergency Call Box TYPE: Emergency Communication Call Box Manu: VIKING Model: E-1600-03B	1.00	EA	1.25	1.25	142.59	873.00	0.00	142.59	873.00		56.75	25%	25%	1326.24
	Thermostats Manu: LG Model: PREMTA201	2.00	EA	0.72	1.44	82.13	390.00	0.00	164.27	780.00		50.70	25%	25%	1231.04
	Thermostat Guard TYPE: Thermostat Protective Guard Material: Plastic Manu: HONEYWELL Model: C951A1000 (or approved equal)	1.00	EA	0.32	0.32	36.50	87.22	0.00	36.50	87.22		5.67	25%	25%	160.32
	400A Switchgear System - CFI TYPE: Electrical Switchgear Manu: CAROLINA PRODUCTS INC. Model: COSTCO-400A-CFI Mounting: Floor Mounted Voltage: 480V / 3-Phase Ampere Rating: 400A Notes: Provide all internal busbars, circuit breakers, protective relays, and NEMA-rated enclosure.	1.00	EA	4.75	4.75	541.86	3,100.00	0.00	541.86	3,100.00		201.50	25%	25%	4753.82
	Junction Box CFI Quad Receptacle - Isolated Ground TYPE: Quad Electrical Receptacle Color: Orange Rating: 20 Amp, 125V Grounding: Isolated Ground (I.G.) Wiring: Hard wired Accessories: Face plate and outlet box Manu: BRVANT ELECTRIC INC. (or approved equal)	51.00	EA	0.78	39.78	88.98	67.22	0.00	4,537.90	3,428.22		222.83	25%	25%	10180.49
Receptacle	Quad Receptacle - Isolated Ground TYPE: Quad Electrical Receptacle Color: Orange Rating: 20 Amp, 125V Grounding: Isolated Ground (I.G.) Wiring: Hard wired Accessories: Face plate and outlet box Manu: BRVANT ELECTRIC INC. (or approved equal)	1.00	EA	0.80	0.80	90.69	56.34	0.00	90.69	56.34		3.66	25%	25%	187.45
	Quad Receptacle - Isolated Ground TYPE: Quad Electrical Receptacle Color: Orange Rating: 20 Amp, 125V Grounding: Isolated Ground (I.G.) Wiring: Hard wired Accessories: Face plate and outlet box Manu: BRVANT ELECTRIC INC. (or approved equal)	5.00	EA	0.80	3.98	90.69	45.44	0.00	453.45	227.20		14.77	25%	25%	865.58
Controllers	Unleaded Variable Frequency Controller Turbine Controller TYPE: Turbine / Pump Controller Manu: FE PETRO Model: MAGVFC Reference No.: 4874202900	4.00	EA	1.00	4.00	114.08	204.00	0.00	456.30	816.00		53.04	25%	25%	1643.42
	Premium Variable Frequency Controller Turbine Controller TYPE: Turbine / Pump Controller Manu: FE PETRO Model: MAGVFC Reference No.: 5874202800	2.00	EA	1.00	2.00	114.08	204.00	0.00	228.15	408.00		26.52	25%	25%	821.71
	VST Controller Additive Controller TYPE: Additive Injection / Control System System: TMS (Total Meter Services) Manu: TOTAL METER SERVICES, INC. Model: AIS-S-08-B Components Included: Pulsar, flow controller, and intrinsic safety (IS) barriers	1.00	EA	0.50	0.50	57.04	162.40	0.00	57.04	162.40		10.56	25%	25%	284.85
Switches	Automatic Transfer Switch with Portable Generator Connection Rating: 400 Amps Manu: KOHLER Model: KSS-ACT-0400S Configuration: Two (2) breakers with mechanical interlock Connection Type: Cam-style connectors for portable generator Enclosure: NEMA 3R Notes: Provide complete automatic transfer switch assembly including breakers, interlock, cam-lock connections, and weather-rated enclosure	1.00	EA	5.60	5.60	638.82	5,129.00	0.00	638.82	5,129.00		333.39	25%	25%	7543.16
	Light Switch Pre Wired	1.00	EA	0.43	0.43	49.39	25.54	0.00	49.39	25.54		1.66	25%	25%	95.33



Bill of Materials

Project: Costco Wholesale – Costco Gasoline  
Address: 730 Lake Drive, Issaquah, WA 98027

Labor Rate: \$ 144.00

Estimate : \$ 323,019.56  
Floor Area : 189.00 SF

REF	ITEM	QUANTITY	UNIT	PRODUCTION RATE	LABOR HOURS	LABOR RATE	MATERIAL RATE	EQUIPMENT RATE	LABOR COSTS	MATERIAL COSTS	EQUIPMENT COSTS	SALES TAX	LABOR MARK-UP	MATERIAL MARK-UP	TOTAL COST
	Heavy-Duty Fusible Disconnect Switch Rating: 400 Amps Manu: SQUARE D (or approved equal) Model: H325NR Fusing: Fusible Enclosure: NFMA 3R	1.00	EA	12.40	12.40	1,414.53	2,821.80	0.00	1,414.53	2,821.80		183.42	25%	25%	5478.83
	NEMA 3R Disconnect Switch	1.00	EA	4.77	4.77	544.14	524.70	0.00	544.14	524.70		34.11	25%	25%	1370.15
	3 Pole Toggle Disconnect Switch	2.00	EA	0.43	0.87	49.30	25.54	0.00	98.79	51.08		3.32	25%	25%	190.86
<b>Panels</b>	8XB Security Panel	1.00	EA	3.55	3.55	404.97	652.78	0.00	404.97	652.78		42.43	25%	25%	1364.61
	XB Panel	1.00	EA	21.50	21.50	2,452.61	482.17	0.00	2,452.61	482.17		31.34	25%	25%	3699.82
	DP Panel: 400A, 3P, 4 Wires, 208/120 V Wye, AIC Rating: 10K	1.00	EA	21.50	21.50	2,452.61	709.30	0.00	2,452.61	709.30		46.10	25%	25%	3998.50
	A Panel: 225A, 3P, 4 Wires, 208/120 V Wye, AIC Rating: 10K	1.00	EA	21.50	21.50	2,452.61	482.17	0.00	2,452.61	482.17		31.34	25%	25%	3699.82
	B Panel: 100A, 3P, 4 Wires, 208/120 V Wye, AIC Rating: 10K	1.00	EA	10.70	10.70	1,220.60	387.35	0.00	1,220.60	387.35		25.18	25%	25%	2035.12
	Switch Non-Fused	16.00	EA	0.43	6.83	49.39	25.54	0.00	790.31	408.64		26.56	25%	25%	1524.25
<b>Circuit Breaker</b>	20A, 1P, Branch Circuit Breaker	47.00	EA	0.27	12.69	30.80	11.88	0.00	1,447.61	558.36		36.29	25%	25%	2543.76
	30A, 1P, Branch Circuit Breaker	1.00	EA	0.27	0.27	30.80	11.88	0.00	30.80	11.88		0.77	25%	25%	54.12
	15A, 2P, Branch Circuit Breaker	1.00	EA	0.37	0.37	42.66	17.82	0.00	42.66	17.82		1.16	25%	25%	76.76
	20A, 2P, Branch Circuit Breaker	4.00	EA	0.37	1.50	42.66	17.82	0.00	170.66	71.28		4.63	25%	25%	307.65
	30A, 2P, Branch Circuit Breaker	5.00	EA	0.37	1.87	42.66	17.82	0.00	213.32	89.10		5.79	25%	25%	383.82
	30A, 3P, Branch Circuit Breaker	11.00	EA	0.86	9.49	98.45	41.98	0.00	1,082.91	461.78		30.02	25%	25%	1960.88
	100A, 3P, Branch Circuit Breaker	1.00	EA	0.90	0.90	102.33	77.42	0.00	102.33	77.42		5.03	25%	25%	229.71
	225A, 3P, Branch Circuit Breaker	1.00	EA	2.57	2.57	293.17	1,544.40	0.00	293.17	1,544.40		100.39	25%	25%	2397.55
									<b>45,817</b>	<b>138,357</b>		<b>24,000</b>			<b>254,770</b>

(Indicative % Only - Editable)

Material Sales Tax	6.50%
Labor Markup	25.00%
Materials Markup	25.00%
Subtotal Construction Cost	\$ 264,770.13
Contingency & Wastage	7.00% \$ 18,533.91
Profit	15.00% \$ 39,715.52
<b>Total Project Cost</b>	<b>\$ 323,019.56</b>

Terms and Conditions/Disclaimer : The quantities, numbers, scope, or any other information contained in this document has been compiled to the best of our knowledge. By utilizing or deriving any of the information contained in this document, you accept the information and quantities as accurate and waive any rights to any claims for errors in information. NEC Estimation does not warrant any of the information contained in this document. The information contained in this document are for informational purposes only and to be used as a guideline for pricing. It is the responsibility of the contractor performing the work to review quantities and finalize pricing and materials based on current prices.