



Project: ORANGE COUNTY EVCS
Address: 600 NC HIGHWAY 86 N, HILLSBOROUGH, NC 27278
State: North Carolina

Estimate Summary

Division	Item	TOTAL	TOTAL
1	GENERAL REQUIREMENTS	\$ 135,420.00	\$ 73,200.00
31	EARTHWORK	\$ 20,919.26	\$ 20,154.55
32	EXTERIOR IMPROVEMENTS	\$ 251,370.64	\$ 251,370.64
33	UTILITIES	\$ 371,363.20	\$ 366,419.46
Total Project Cost (Inc.Tax)		\$ 779,073.11	\$ 711,144.65



Bill of Quantities

Project: ORANGE COUNTY EVCS
Address: 600 NC HIGHWAY 86 N, HILLSBOROUGH, NC 27278

Estimate: \$ 779,073.11

REF	ITEM	QUANTITY	UNIT	LABOR RATE	MATERIAL RATE	EQUIPMENT RATE	LABOR COSTS	MATERIAL COSTS	EQUIPMENT COSTS	SALES TAX	LABOR MARK-UP	MATERIAL MARK-UP	TOTAL COST
1	GENERAL REQUIREMENTS						\$ -	\$ -	\$ 111,000.00				\$ 111,000.00
	General Conditions including Project Hires, General Requirements including Plan Printing, Temporary Power / Lighting, Water, Field Office (40' Open Bay Office), Storage Container (40' Container), Temporary Toilets (Sanitary Facilities), Drinking Water, Security / Marketing - PTZ Live 24/7 Camera, Office Supplies & Equipment, First Aid, Jobsite Cell Phones & Internet, Traffic Control & Barricades, Temporary Signage, Dumpsters, General Labor (Line Item Allocation), Progress Cleaning, Final Cleaning etc.	1.00	LS	0.00	0.00	60,000.00			60,000.00				60,000.00
Alternate 1	Installation of Six Charging Stations & Equipment	1.00	LS	0.00	0.00	50,000.00			50,000.00				50,000.00
Alternate 2	Proposal of a 6", 40 FT Drainage Pipe	1.00	LS	0.00	0.00	1,000.00			1,000.00				1,000.00
31	EARTHWORK						\$ 9,644.73	\$ 503.33	\$ 4,236.70				\$ 17,146.94
Excavation	Trench Excavation	427.96	CY	4.91	0.00	2.41	2,101.29		1,031.39	48.99	25%	0	3,706.99
	Excavation for Footing, Gravel	169.66	CY	15.78	0.00	6.56	2,677.19		1,112.95	52.87	25%	0	4,512.31
	Excavation for Bolland	155.56	CY	8.95	0.00	6.56	1,392.22		1,020.44	48.47	25%	0	2,809.19
Backfill	Compacted Backfill for Trench	423.14	CY	4.87	0.00	1.46	2,060.67		617.78	29.34	25%	0	3,222.96
	Compacted Backfill for Footing, Gravel	133.85	CY	4.87	0.00	1.46	661.60		198.34	9.42	25%	0	1,034.76
	Compacted Backfill for Bolland	124.14	CY	4.87	0.00	1.46	604.57		181.25	8.61	25%	0	945.57
Fill Material	1'-0" Deep Structural Fill	3.61	CY	7.70	26.33	3.90	27.81	95.09	14.08	5.19	25%	25%	172.89
	1'-6" Deep Structural Fill	3.94	CY	7.70	26.33	3.90	30.34	103.74	15.37	5.66	25%	25%	188.62
	2'-6" Deep Structural Fill	4.45	CY	7.70	26.33	3.90	34.29	117.27	17.37	6.40	25%	25%	213.21
	4'-0" X 4'-0" X 1'-0" Structural Fill	7.11	CY	7.70	26.33	3.90	54.76	187.24	27.73	10.21	25%	25%	340.43
32	EXTERIOR IMPROVEMENTS						\$ 41,472.98	\$ 99,097.68	\$ 24,459.23				\$ 206,041.51
Wooden Fencing	Wooden Fence	105.85	LF	14.74	8.40	0.00	1,560.23	889.14		42.23	25%	25%	3,103.95
	Bag Gravel Fill Below Drain Pipe	2.00	EA	98.60	34.92	0.00	197.20	69.84		3.32	25%	25%	337.12
Gravels	6" Pea Gravel	1.52	SY	1.71	6.58	1.50	2.60	9.99	2.28	0.58	25%	25%	18.59
Concrete Slab	F1: 6" Thick Concrete Slab	1.06	CY	85.06	216.30	29.09	80.20	229.36	30.85	12.36	25%	25%	442.65
	6" Thick Concrete Slab w/ #4 @ 6" E.W.	0.46	CY	85.06	216.30	29.09	39.52	100.50	13.52	5.42	25%	25%	153.96
	6" Thick Concrete Dayton Superior F53 Thin Slab coll insert w/ 3/4" Dia Bolts	0.38	CY	85.06	216.30	29.09	32.01	81.39	10.95	4.39	25%	25%	157.08
Saw Cut	Saw Cut of Existing Concrete For Conduits	1,365.32	LF	0.54	0.00	0.15	737.27		204.80	9.73	25%	0	1,136.12
Continuous Footing	1'-0" X 1'-6" Continuous Concrete Footing w/ 2-#6 T & B, #4 Stirrups @ 5" C/C T & B	1.15	CY	85.06	216.30	29.09	98.20	249.71	33.58	13.46	25%	25%	481.92
	1'-3" X 1'-6" Continuous Concrete Footing w/ 2-#6 T & B, #4 Stirrups @ 5" C/C T & B	0.41	CY	85.06	216.30	29.09	34.50	87.72	11.80	4.73	25%	25%	169.30
	1'-3" X 1'-6" Continuous Concrete Footing w/ 3-#6 T & B, #4 Stirrups @ 5" C/C T & B	3.01	CY	85.06	216.30	29.09	256.42	652.05	87.69	35.14	25%	25%	1,258.43
	4'-0" X 1'-6" Continuous Concrete Footing w/ 6-#6 T & B, #6 Stirrups @ 6" C/C T & B	1.00	CY	85.06	216.30	29.09	85.25	216.78	29.15	11.68	25%	25%	418.37
Concrete Pad	2'-0" X 2'-0" X 3'-4" Concrete Pad w/ 8-#6 Reinforcement, #4 Stirrups @ 6" O.C., w/ STD Hooks at Ends	5.93	CY	85.06	216.30	29.09	504.06	1,281.78	172.39	69.07	25%	25%	2,173.75
Concrete Pile	1'-8" Dia X 2'-0" Deep Concrete Pile	31.41	CY	297.32	254.41	69.49	9,340.01	7,992.04	2,182.96	483.31	25%	25%	24,331.33
Concrete Wall	F1: 6" Thick Concrete Wall (3'-0"H)	1.03	CY	297.32	254.41	69.49	307.07	262.75	71.77	15.89	25%	25%	799.93
	6" Thick Concrete Wall w/ #4 @ 6" O.C. Each Way	1.02	CY	297.32	254.41	69.49	302.94	259.22	70.80	15.68	25%	25%	789.17
Formwork	Formwork for Slab	71.77	LF	4.73	1.39	0.00	339.47	99.76		4.74	25%	25%	553.78
	Formwork for Footing/Concrete Pads	250.29	SF	2.75	1.51	0.00	689.29	377.93		17.95	25%	25%	1,350.73
	Formwork for Concrete Walls	221.59	SF	5.50	2.37	0.00	1,218.69	525.14		24.94	25%	25%	2,204.74
Vapour Barrier	15 mil Visqueen vapor barrier	55.02	SF	0.11	0.11	0.00	6.05	6.05		0.29	25%	25%	15.42
Extra Reinforcement	#3 X 1'-2" Dowels @ 3" O.C. (Extra)	18.34	LF	0.22	0.47	0.00	4.03	8.62		0.41	25%	25%	16.23
Concrete Divider	2" Thick Divider (3'-0"H)	0.04	CY	85.06	216.30	29.09	3.81	9.69	1.30	0.52	25%	25%	18.71
Concrete Paved Floor	Paved Parking Lot (Assumed)	16,382.67	SF	1.34	4.53	1.29	21,952.78	74,213.50	21,133.64	4,528.99	25%	25%	145,870.47
Bolts for Connection	HILTI HY 200 V3 + HIS-N 1/2" post-installed anchor bolts, 12" embedment	8.00	EA	25.82	112.24	0.00	206.56	897.92		42.65	25%	25%	1,423.25
Signages	No Trespassing sign with 24-hour video surveillance notice	2.00	EA	59.25	185.40	0.00	1,185.50	370.80		17.61	25%	25%	629.24
	Danger - Keep Out safety sign for restricted area	2.00	EA	59.25	185.40	0.00	1,185.50	370.80		17.61	25%	25%	629.24
	High Voltage warning sign for electrical hazard areas	2.00	EA	59.25	185.40	0.00	1,185.50	370.80		17.61	25%	25%	629.24
	EV Charging Only sign with operational instruction sticker	6.00	EA	59.25	185.40	0.00	355.50	1,112.40		52.84	25%	25%	1,887.71
	EV Charging notice sign - Vehicles must move after charging	6.00	EA	59.25	185.40	0.00	355.50	1,112.40		52.84	25%	25%	1,887.71
	EV Charging ground stencil marking for parking bays	6.00	EA	59.25	185.40	0.00	355.50	1,112.40		52.84	25%	25%	1,887.71
	Access Aisle sign indicating No Parking zone	2.00	EA	59.25	185.40	0.00	1,185.50	370.80		17.61	25%	25%	629.24
	Vehicle Charging wayfinding directional sign	1.00	EA	59.25	185.40	0.00	59.25	185.40		8.81	25%	25%	314.62
	Vehicle Charging station identification sign at entry point	1.00	EA	59.25	185.40	0.00	59.25	185.40		8.81	25%	25%	314.62
Utility Items	6'-0" Wheel Stop	12.00	EA	35.55	107.12	0.00	426.60	1,285.44		61.06	25%	25%	2,201.11
	6" Dia Steel Pipe, Primed & Safety Yellow Plastic Cover (9'-0" Min)	24.00	EA	41.31	162.74	14.04	991.44	3,905.76	336.96	201.53	25%	25%	6,659.99
Parking Lane Marking	Parking Lines Marking (18'-0" Long)	918.00	LF	0.30	0.15	0.05	275.40	137.70	45.90	8.72	25%	25%	571.00
	No Parking Lines Marking	378.00	LF	0.30	0.15	0.05	113.40	56.70	18.90	3.59	25%	25%	235.12
33	UTILITIES						\$ 40,013.33	\$ 191,954.91	\$ 5,076.76				\$ 304,936.06
Underground Ducts and Raceways	6" Dia. Underground Conduit	68.69	LF	10.88	10.21	0.00	747.35	701.32		33.31	25%	25%	1,844.15
	5" Dia. Underground Conduit	632.37	LF	10.09	9.02	0.00	6,380.61	5,703.98		270.94	25%	25%	15,376.68
	3" Dia. Underground Conduit	425.49	LF	6.02	4.85	0.00	2,561.45	2,063.63		98.02	25%	25%	5,879.37
	2" Dia. Underground Conduit	444.77	LF	4.13	2.08	0.00	1,836.90	916.23		43.52	25%	25%	3,484.93
Conduit Items	Allowance For Conduit Items	1.00	LS	0.00	0.00	5,000.00			5,000.00	237.50	0	0	5,237.50
	Tag K2: 2" PVC Conduit w/ Bell End, Schedule 40 Manu: Carlon or Equivalent Model: 49011-010	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K3: 3" PVC Conduit w/ Bell End, Schedule 40 Manu: Carlon or Equivalent Model: 49013-010	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K5: 5" PVC Conduit w/ Bell End, Schedule 40 Manu: Carlon or Equivalent Model: 49016-010	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K6: 6" PVC Conduit w/ Bell End, Schedule 40 Manu: Carlon or Equivalent Model: 49017-010	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K2B: 2" PVC Coupling Manu: Carlon or Equivalent Model: E940J	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K2E: 2" PVC 90° Std Radius Elbow, Bell End, Sch 40 Manu: Carlon or Equivalent Model: UAS9AJB	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K2N: 2" PVC Bell End Manu: Carlon or Equivalent Model: E937J	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K3B: 3" PVC Coupling Manu: Carlon or Equivalent Model: E940L	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K3E: 3" PVC 90° Std Radius Elbow, Bell End, Sch 40 Manu: Carlon or Equivalent Model: UAS9ACAR	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K3N: 3" PVC Bell End Manu: Carlon or Equivalent Model: E937I	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K5B: 5" PVC Coupling Manu: Carlon or Equivalent Model: E940P	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K5E: 5" PVC 90° Std Radius Elbow, Bell End, Sch 40 Manu: Carlon or Equivalent Model: UAS9APB	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K5N: 5" PVC Bell End Manu: Carlon or Equivalent Model: E937P	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K6B: 6" PVC Coupling Manu: Carlon or Equivalent Model: E940R	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K6E: 6" PVC 90° Std Radius Elbow, Bell End, Sch 40 Manu: Carlon or Equivalent Model: UAS9ARB	1.00	LS	0.00	0.00	0.00					0	0	



Bill of Quantities

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Address: 600 NC HIGHWAY 86 N, HILLSBOROUGH, NC 27278

Estimate : \$ 779,073.11

REF	ITEM	QUANTITY	UNIT	LABOR RATE	MATERIAL RATE	EQUIPMENT RATE	LABOR COSTS	MATERIAL COSTS	EQUIPMENT COSTS	SALES TAX	LABOR MARK-UP	MATERIAL MARK UP	TOTAL COST
	Tag K6N: 6" PVC Bell End Manu: Carlon or Equivalent Model: E997R	1.00	LS	0.00	0.00	0.00					0	0	
Grounding Material	Tag C1: 4/0 Bare Copper Cable, 19-Strand Soft Drawn Manu: Burndy or Equivalent Model: 13673950	140.00	LF	1.92	11.02	0.00	268.80	1,542.80		73.28	25%	25%	2337.78
	Tag C2: Exothermic Mold, Tee 4/0 Run to 4/0 Tap Manu: Burndy or Equivalent Model: M-241	6.00	EA	34.40	149.55	0.00	206.38	897.30		42.62	25%	25%	1422.22
	Tag C3: 5/8" x 10' Copper-Bonded Ground Rod Manu: Erico or Equivalent Model: 615890	12.00	EA	24.08	50.88	0.00	288.96	610.56		29.00	25%	25%	1153.40
	Tag C4: Split Bolt Connector, 6 Sol - 4/0 Str Manu: Burndy or Equivalent Model: YC4C4	21.00	EA	15.60	24.35	0.00	327.60	511.35		24.29	25%	25%	1072.98
	Tag C5: Exothermic Mold for 4/0 to 5/8" Ground Rod Manu: Burndy or Equivalent Model: M-550	8.00	EA	44.39	193.00	0.00	355.12	1,544.00		73.34	25%	25%	2447.24
	Tag C6: Parallel Tap Ground Connector, 2/0-250 kcmil Manu: Burndy or Equivalent Model: YHC29C29	7.00	EA	24.15	105.00	0.00	169.05	735.00		34.91	25%	25%	1164.98
	Tag C7: 4/0 CU Compression Terminal, NEMA 2-Hole Manu: Burndy or Equivalent Model: YA28-N	10.00	EA	11.50	50.00	0.00	115.00	500.00		23.75	25%	25%	792.50
	Tag C8: Weld Material, 115 T-Connection (4/0 to 5/8 Rod) Manu: Burndy or Equivalent Model: 115	10.00	EA	17.50	32.60	0.00	175.00	326.00		15.49	25%	25%	641.74
	Tag C9: Weld Material, 150 Horizontal (4/0 to 4/0) Manu: Burndy or Equivalent Model: 150	24.00	EA	12.99	56.46	0.00	311.66	1,355.04		64.36	25%	25%	2147.74
	Tag C10: Mechanical Grounding Connector, Cable to Bar Manu: Burndy or Equivalent Model: GB29	10.00	EA	34.33	149.27	0.00	343.32	1,492.70		70.90	25%	25%	2365.93
	Tag C11: 228-Series Loadbreak Elbow, 200A, 25/28kV Manu: 3M or Equivalent Model: 228LB508B	3.00	EA	55.50	477.54	0.00	166.50	1,432.62		68.05	25%	25%	2066.95
Equipments	Tag E1: Transformer, 13.8kV/480V, 1500 kVA, 3-Phase	1.00	EA	957.36	16,171.00	0.00	957.36	16,171.00		788.12	25%	25%	22178.57
	Tag E2: Service Switchgear & Metering Unit, 480V, NEMA 3R	1.00	EA	2,699.50	16,995.00	0.00	2,699.50	16,995.00		807.26	25%	25%	25425.39
	Tag E3: DFC Panel Board	1.00	EA	1,725.54	2,100.24	0.00	1,725.54	2,100.24		99.76	25%	25%	4881.99
	Tag E4: 600 kW Power Unit Manu: Kempower or Equivalent	1.00	EA	3,086.26	26,462.00	0.00	3,086.26	26,462.00		1,266.95	25%	25%	38192.27
	Tag E5: Power Cabinet Manu: Kempower or Equivalent Model: 500VDS3 V3	1.00	EA	1,634.78	12,575.25	0.00	1,634.78	12,575.25		597.32	25%	25%	18359.87
	Tag E6: Power Module Manu: Kempower or Equivalent Model: 560 V1	12.00	EA	741.70	3,224.78	0.00	8,900.39	38,697.36		1,838.12	25%	25%	61335.32
	Tag E7: Satellite Charger, CCS1 400A/5M Manu: Kempower or Equivalent	5.00	EA	1,210.22	10,914.46	0.00	6,051.10	54,572.30		2,592.18	25%	25%	78371.43
	Tag E8: LED Floodlight, 480V with Accessories Manu: Lithonia or Equivalent Model: RSXF3 LED P4 40K WFL 480 IS DDBXD	2.00	EA	225.30	979.57	0.00	450.60	1,959.14		93.06	25%	25%	3105.23
	Tag E9: 30' Lighting Pole	1.00	EA	254.10	2,090.09	76.76	254.10	2,090.09	76.76	102.93	25%	25%	3109.92
							91,131	291,566	144,773				636,585

(Indicative % Only - Editable)
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Material Sales Tax	4.75%
Labor Markup	25.00%
Materials Markup	25.00%
Subtotal Construction Cost	\$ 636,584.51
Contingency & Wastage	7.00% \$ 44,700.92
Profit	15.00% \$ 95,787.68
Total Project Cost	\$ 779,073.11

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Estimate: \$ 711,144.65

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1	GENERAL REQUIREMENTS						\$ -	\$ -	\$ 60,000.00				\$ 60,000.00
	General Conditions including Project Hires, General Requirements including Plan Printing, Temporary Power / Lighting, Water, Field Office (40' Open Bay Office), Storage Container (40' Container), Temporary Toilets (Sanitary Facilities), Drinking Water, Security / Marketing - PTZ Live 24/7 Camera, Office Supplies & Equipment, First Aid, Jobsite Cell Phones & Internet, Traffic Control & Barricades, Temporary Signage, Dumpsters, General Labor (Line Item Allocation), Progress Cleaning, Final Cleaning etc.	1.00	LS	0.00	0.00	60,000.00			60,000.00				60,000.00
31	EARTHWORK						\$ 9,268.05	\$ 503.33	\$ 4,087.81				\$ 16,520.12
Excavation	Trench Excavation	389.62	CY	4.91	0.00	2.41	1,913.05		938.99	44.60	25%	0	3374.90
	Excavation for Footing	169.66	CY	15.78	0.00	6.56	2,677.19		1,112.95	52.87	25%	0	4512.31
	Excavation for Trench	155.56	CY	8.95	0.00	6.56	1,392.22		1,020.44	48.47	25%	0	2809.19
Backfill	Compacted Backfill for Trench	384.44	CY	4.87	0.00	1.46	1,872.23		561.28	26.66	25%	0	2928.23
	Compacted Backfill for Footing, Gravel	135.85	CY	4.87	0.00	1.46	661.60		198.34	9.42	25%	0	1034.76
	Compacted Backfill for Bollard	124.14	CY	4.87	0.00	1.46	604.57		181.25	8.61	25%	0	945.57
Fill Material	1'-0" Deep Structural Fill	3.61	CY	7.70	26.33	3.90	27.81	95.00	14.08	5.19	25%	25%	172.89
	1'-6" Deep Structural Fill	3.94	CY	7.70	26.33	3.90	30.34	103.74	15.37	5.68	25%	25%	188.62
	2'-6" Deep Structural Fill	4.45	CY	7.70	26.33	3.90	34.29	117.27	17.37	6.40	25%	25%	213.21
	4'-0" X 4'-0" X 1'-0" Structural Fill	7.11	CY	7.70	26.33	3.90	54.76	187.24	27.73	10.21	25%	25%	340.43
32	EXTERIOR IMPROVEMENTS						\$ 41,472.98	\$ 99,097.68	\$ 24,459.23				\$ 206,041.51
Wooden Fencing	Wooden Fence	105.85	LF	14.74	8.40	0.00	1,560.23	899.14		42.23	25%	25%	3103.95
	Bag Gravel Fill Below Drain Pipe	2.00	EA	98.60	34.92	0.00	197.20	69.84		3.32	25%	25%	337.12
Gravels	6" Pea Gravel	1.52	SY	1.71	6.58	1.50	2.60	9.99		0.58	25%	25%	18.59
Concrete Slab	F1: 6" Thick Concrete Slab	1.06	CY	85.06	216.30	29.09	90.20	229.36	30.85	12.36	25%	25%	442.65
	6" Thick Concrete Slab w/ #4 @ 6" E.W.	0.46	CY	85.06	216.30	29.09	39.52	100.50	13.52	5.42	25%	25%	193.96
	6" Thick Concrete Dayton Superior F53 Thin Slab coil insert w/ 3/4" Dia Bolts	0.38	CY	85.06	216.30	29.09	32.01	81.39	10.95	4.39	25%	25%	157.08
Saw Cut	Saw Cut of Existing Concrete For Conduits	1,365.32	LF	0.54	0.00	0.15	737.27		204.80	9.73	25%	0	1136.12
Continuous Footing	1'-0" X 1'-6" Continuous Concrete Footing w/ 2-#6 T & B, #4 Stirrups @ 5" C/C T & B	1.15	CY	85.06	216.30	29.09	98.20	249.71	33.58	13.46	25%	25%	481.92
	1'-3" X 1'-6" Continuous Concrete Footing w/ 2-#6 T & B, #4 Stirrups @ 5" C/C T & B	0.41	CY	85.06	216.30	29.09	34.50	87.72	11.80	4.73	25%	25%	169.30
	1'-3" X 1'-6" Continuous Concrete Footing w/ 3-#6 T & B, #4 Stirrups @ 5" C/C T & B	3.01	CY	85.06	216.30	29.09	256.42	652.05	87.69	35.14	25%	25%	1258.43
	4'-0" X 1'-6" Continuous Concrete Footing w/ 6-#6 T & B, #6 Stirrups @ 6" C/C T & B	1.00	CY	85.06	216.30	29.09	85.25	216.78	29.15	11.68	25%	25%	418.37
Concrete Pad	2'-0" X 2'-0" X 3'-4" Concrete Pad w/ 8-#6 Reinforcement, #4 Stirrups @ 6" O.C. w/ STD Hooks at Ends	5.93	CY	85.06	216.30	29.09	504.06	1,281.78	172.39	69.07	25%	25%	2473.75
Concrete Pile	1'-6" Dia X 5'-0" Deep Concrete Pile	31.41	CY	297.32	254.41	69.49	9,340.01	7,992.04	2,182.96	483.31	25%	25%	24331.33
Concrete Wall	F1: 6" Thick Concrete Wall (3'-0"H)	1.03	CY	297.32	254.41	69.49	307.07	262.75	71.77	15.89	25%	25%	799.93
	6" Thick Concrete Wall w/ #4 @ 6" O.C. Each Way	1.02	CY	297.32	254.41	69.49	302.94	259.22	70.80	15.68	25%	25%	789.17
Formwork	Formwork for Slab	71.77	LF	4.73	1.39	0.00	339.47	99.76		4.74	25%	25%	553.78
	Formwork for Footing/Concrete Pads	250.29	SF	2.75	1.51	0.00	688.29	377.93		17.95	25%	25%	1350.73
	Formwork for Concrete Walls	221.58	SF	5.50	2.37	0.00	1,218.69	525.14		24.94	25%	25%	2204.74
Vapour Barrier	15 mil Visqueen vapor barrier	55.02	SF	0.11	0.11	0.00	6.05	6.05		0.29	25%	25%	15.42
Extra Reinforcement	#3 X 1'-2" Dowels @ 3" O.C. (Extra)	18.34	LF	0.22	0.47	0.00	4.03	8.62		0.41	25%	25%	16.23
Concrete Divider	2" Thick Divider (3'-0"H)	0.04	CY	85.06	216.30	29.09	3.81	9.69	1.30	0.52	25%	25%	18.71
Concrete Paved Floor	Paved Parking Lot (Assumed)	16,382.67	SF	1.34	4.53	1.29	21,952.78	74,213.50	21,133.64	4,528.99	25%	25%	145870.47
Bolts for Connection	HILTI HY 200 V3 + HIS-N 1/2" post-installed anchor bolts, 12" embedment	8.00	EA	25.82	112.24	0.00	206.56	897.92		42.65	25%	25%	1423.25
Signages	No Trespassing sign with 24-hour video surveillance notice	2.00	EA	59.25	185.40	0.00	118.50	370.80		17.61	25%	25%	629.24
	Danger - Keep Out safety sign for restricted area	2.00	EA	59.25	185.40	0.00	118.50	370.80		17.61	25%	25%	629.24
	High Voltage warning sign for electrical hazard areas	2.00	EA	59.25	185.40	0.00	118.50	370.80		17.61	25%	25%	629.24
	EV Charging Only sign with operational instruction sticker	6.00	EA	59.25	185.40	0.00	355.50	1,112.40		52.84	25%	25%	1887.71
	EV Charging notice sign - Vehicles must move after charging	6.00	EA	59.25	185.40	0.00	355.50	1,112.40		52.84	25%	25%	1887.71
	EV Charging ground stencil marking for parking bays	6.00	EA	59.25	185.40	0.00	355.50	1,112.40		52.84	25%	25%	1887.71
	Access Aisle sign indicating No Parking zone	2.00	EA	59.25	185.40	0.00	118.50	370.80		17.61	25%	25%	629.24
	Vehicle Charging wayfinding directional sign	1.00	EA	59.25	185.40	0.00	59.25	185.40		8.81	25%	25%	314.62
	Vehicle Charging Station identification sign at entry point	1.00	EA	59.25	185.40	0.00	59.25	185.40		8.81	25%	25%	314.62
Utility Items	6'-0" Wheel Stop	12.00	EA	35.59	107.12	0.00	426.60	1,285.44		61.06	25%	25%	2201.11
	6" Dia Steel Pipe, Primed & Safety Yellow Plastic Cover (9'-0" Min)	24.00	EA	41.31	162.74	14.04	991.44	3,905.76	336.96	201.53	25%	25%	6659.99
Parking Lane Marking	Parking Lines Marking (18'-0" Long)	918.00	LF	0.30	0.15	0.05	275.40	137.70	45.90	8.72	25%	25%	571.00
	No Parking Lines Marking	378.00	LF	0.30	0.15	0.05	113.40	56.70	18.90	3.59	25%	25%	235.12
33	UTILITIES						\$ 38,344.92	\$ 190,439.13	\$ 5,076.76				\$ 300,343.82
Underground Ducts and Raceways	6" Dia. Underground Conduit	79.09	LF	10.88	10.21	0.00	860.50	807.51		38.36	25%	25%	2123.37
	5" Dia. Underground Conduit	471.13	LF	10.09	9.02	0.00	4,753.70	4,249.59		201.86	25%	25%	11455.97
	3" Dia. Underground Conduit	424.27	LF	6.02	4.85	0.00	2,554.11	2,057.71		97.74	25%	25%	5862.51
	2" Dia. Underground Conduit	425.59	LF	4.13	2.06	0.00	1,757.69	876.72		41.64	25%	25%	3334.65
Conduit Items	Allowance For Conduit Items	1.00	LS	0.00	0.00	5,000.00			5,000.00	237.50	0	0	5237.50
	Tag K2: 2" PVC Conduit w/ Bell End, Schedule 40 Manu: Carlon or Equivalent Model: 49011-010	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K3: 3" PVC Conduit w/ Bell End, Schedule 40 Manu: Carlon or Equivalent Model: 49013-010	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K6: 6" PVC Conduit w/ Bell End, Schedule 40 Manu: Carlon or Equivalent Model: 49016-010	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K6: 6" PVC Conduit w/ Bell End, Schedule 40 Manu: Carlon or Equivalent Model: 49017-010	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K2B: 2" PVC Coupling Manu: Carlon or Equivalent Model: E940J	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K2E: 2" PVC 90° Std Radius Elbow, Bell End, Sch 40 Manu: Carlon or Equivalent Model: UA9AJB	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K2N: 2" PVC Bell End Manu: Carlon or Equivalent Model: E997J	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K3B: 3" PVC Coupling Manu: Carlon or Equivalent Model: E940L	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K3E: 3" PVC 90° Std Radius Elbow, Bell End, Sch 40 Manu: Carlon or Equivalent Model: UA9ALB-CAR	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K3N: 3" PVC Bell End Manu: Carlon or Equivalent Model: E997L	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K5B: 5" PVC Coupling Manu: Carlon or Equivalent Model: E940P	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K5E: 5" PVC 90° Std Radius Elbow, Bell End, Sch 40 Manu: Carlon or Equivalent Model: UA9APB	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K5N: 5" PVC Bell End Manu: Carlon or Equivalent Model: E997P	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K6B: 6" PVC Coupling Manu: Carlon or Equivalent Model: E940R	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K6E: 6" PVC 90° Std Radius Elbow, Bell End, Sch 40 Manu: Carlon or Equivalent Model: UA9ARB	1.00	LS	0.00	0.00	0.00					0	0	
	Tag K6N: 6" PVC Bell End Manu: Carlon or Equivalent Model: E997R	1.00	LS	0.00	0.00	0.00					0	0	



Bill of Quantities

Project: ORANGE COUNTY EVCS
Address: 600 NC HIGHWAY 86 N, HILLSBOROUGH, NC 27278

Estimate : \$ 711,144.65

REF	ITEM	QUANTITY	UNIT	LABOR RATE	MATERIAL RATE	EQUIPMENT RATE	LABOR COSTS	MATERIAL COSTS	EQUIPMENT COSTS	SALES TAX	LABOR MARK-UP	MATERIAL MARK UP	TOTAL COST
Grounding Material	Tag C1: 4/0 Bare Copper Cable, 19-Strand Soft Drawn Manu: Buryndy or Equivalent Model: 13673950	140.00	LF	1.92	11.02	0.00	268.80	1,542.80		73.28	25%	25%	2337.78
	Tag C2: Exothermic Mold, Tee 4/0 Run to 4/0 Tap Manu: Buryndy or Equivalent Model: M-241	6.00	EA	34.40	149.55	0.00	206.38	897.30		42.62	25%	25%	1422.22
	Tag C3: 5/8" x 10' Copper-Bonded Ground Rod Manu: Erico or Equivalent Model: 615800	12.00	EA	24.08	50.88	0.00	288.96	610.56		29.00	25%	25%	1153.40
	Tag C4: Split Bolt Connector, 6 Sol - 4/0 Str Manu: Buryndy or Equivalent Model: YC4C4	20.00	EA	15.60	24.35	0.00	312.00	487.00		23.13	25%	25%	1021.88
	Tag C5: Exothermic Mold for 4/0 to 5/8" Ground Rod Manu: Buryndy or Equivalent Model: M-550	8.00	EA	44.39	193.00	0.00	355.12	1,544.00		73.34	25%	25%	2447.24
	Tag C6: Parallel Tap Ground Connector, 2/0-250 kcmil Manu: Buryndy or Equivalent Model: YGHC29C29	7.00	EA	24.15	105.00	0.00	169.05	735.00		34.91	25%	25%	1164.98
	Tag C7: 4/0 CU Compression Terminal, NEMA 2-Hole Manu: Buryndy or Equivalent Model: YA26-N	10.00	EA	11.50	50.00	0.00	115.00	500.00		23.75	25%	25%	792.50
	Tag C8: Weld Material, 115 T-Connection (4/0 to 5/8 Rod) Manu: Buryndy or Equivalent Model: 115	7.00	EA	17.50	32.60	0.00	122.50	228.20		10.84	25%	25%	449.21
	Tag C9: Weld Material, 150 Horizontal (4/0 to 4/0) Manu: Buryndy or Equivalent Model: 150	24.00	EA	12.99	56.46	0.00	311.66	1,355.04		64.36	25%	25%	2147.74
	Tag C10: Mechanical Grounding Connector, Cable to Bar Manu: Buryndy or Equivalent Model: GB29	10.00	EA	34.33	149.27	0.00	343.32	1,492.70		70.90	25%	25%	2365.93
Tag C11: 228-Series Loadbreak Elbow, 200A, 25/28kV Manu: 3M or Equivalent Model: 228LB508B	3.00	EA	55.50	477.54	0.00	166.50	1,432.62		68.05	25%	25%	2066.95	
Equipments	Tag E1: Transformer, 13.8kV/480V, 1500 kVA, 3-Phase Manu: Kempower or Equivalent Model: 550 V1	1.00	EA	957.36	16,171.00	0.00	957.36	16,171.00		788.12	25%	25%	22178.57
	Tag E2: Service Switchgear & Metering Unit, 480V, NEMA 3R Manu: Kempower or Equivalent Model: 550 V1	1.00	EA	2,699.50	16,995.00	0.00	2,699.50	16,995.00		807.26	25%	25%	25425.39
	Tag E3: DCF Panel Board Manu: Kempower or Equivalent Model: 550 V1	1.00	EA	1,725.54	2,100.24	0.00	1,725.54	2,100.24		99.76	25%	25%	4881.99
	Tag E4: 600 kW Power Unit Manu: Kempower or Equivalent Model: 550 V1	1.00	EA	3,086.26	26,462.00	0.00	3,086.26	26,462.00		1,256.95	25%	25%	38192.27
	Tag E5: Power Cabinet Manu: Kempower or Equivalent Model: 550 V1	1.00	EA	1,634.78	12,575.25	0.00	1,634.78	12,575.25		597.32	25%	25%	18359.87
	Tag E6: Power Module Manu: Kempower or Equivalent Model: 550 V1	12.00	EA	741.70	3,224.78	0.00	8,900.39	38,697.36		1,838.12	25%	25%	61335.32
	Tag E7: Satellite Charger, CCS1 400A/5M Manu: Kempower or Equivalent Model: 550 V1	5.00	EA	1,210.22	10,914.46	0.00	6,051.10	54,572.30		2,592.18	25%	25%	78371.43
	Tag E8: LED Floodlight, 480V with Accessories Manu: Lithonia or Equivalent Model: RSXF3 LED P4 40K WFL 480 IS DDBXD	2.00	EA	225.30	979.57	0.00	450.60	1,959.14		93.06	25%	25%	3105.23
	Tag E9: 30' Lighting Pole Manu: Kempower or Equivalent Model: 550 V1	1.00	EA	254.10	2,090.09	76.76	254.10	2,090.09	76.76	102.93	25%	25%	3109.92
							89,086	290,040	93,624				582,905

(Indicative % Only - Editable)
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Material Sales Tax	4.75%
Labor Markup	25.00%
Materials Markup	25.00%
Subtotal Construction Cost	\$ 582,905.45
Contingency & Wastage	7.00% \$ 40,803.38
Profit	15.00% \$ 87,435.82
Total Project Cost	\$ 711,144.65

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