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August 4, 2021

**VIA: ELECTRONIC FILING**

Mr. Adam J. Teitzman  
Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850


Re: Petition of Tampa Electric Company for Approval of Revised Underground  
Residential Distribution Tariff  
Dkt.: 20210064-EI

Dear Mr. Teitzman:

Attached for filing in the above docket is Tampa Electric Company's Revised Response to Question 3(a) of Staff's Third Data Request (Nos. 1-3), propounded on July 26, 2021.

Thank you for your assistance in connection with this matter.

Sincerely,

  
James D. Beasley

JDB/bmp  
Attachment

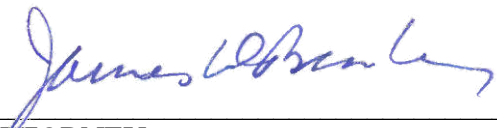
cc: All Parties of Record (w/attachment)  
Holly Forrest, FPSC (w/attachment)

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing revised responses of Tampa Electric Company to Staff's Third Data Request (Nos. 1-3), have been furnished by electronic mail on this 4th day of August 2021 to the following:

Shaw Stiller  
Office of General Counsel  
Florida Public Service Commission  
Room 390L – Gerald L. Gunter Building  
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Tallahassee, FL 32399-0850  
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Richard Gentry  
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111 West Madison Street, Room 812  
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\_\_\_\_\_  
ATTORNEY

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20210064-EI  
STAFF'S THIRD DATA REQUEST  
REQUEST NO. 3  
BATES PAGES: 3-116  
FILED: AUGUST 2, 2021  
REVISED: AUGUST 4, 2021**

- 3.** Please provide the Net Present Value of operational costs, including storm restoration costs, calculation, and resulting URD differential for the low- and high-density subdivisions.
  - a. Using calculations based on the historical methodology used by TECO for an average of three years for 2018, 2019, and 2020. Provide all supporting workpapers to show the calculations.
  - b. Using calculations based on an average of five years for the years 2016, 2017, 2018, 2019, and 2020. Please provide all workpapers to show the calculations.
  
- A.**
  - a. Please see attached calculations based on the historical methodology for an average of three years for 2018, 2019, and 2020.
  - b. To be provided no later than August 13, 2021.

OVERHEAD VS UNDERGROUND SUMMARY SHEET

Single Occupancy Low Density 210 Lot Subdivision  
Cost per Lot

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	\$719.59	\$1,213.14	\$493.55
Material	\$708.94	\$1,227.97	\$519.03
<b>TOTAL</b>	<b>\$1,428.53</b>	<b>\$2,441.11</b>	<b>\$1,012.58</b>
<b>NPV Operational Cost</b> Including Storm Restoration and Lost Pole Attachment Revenue	\$1,363.15	\$1,216.53	-\$146.62
<b>TOTAL</b> Including NPV Operational Cost	<b>\$2,791.68</b>	<b>\$3,657.64</b>	<b>\$865.96</b>



COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

Single Occupancy Low Density 210 Lot Subdivision  
Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>	\$134.88	\$79.94	\$214.82
Primary	\$16.04	\$47.12	\$63.16
Secondary	\$121.20	\$160.21	\$281.41
Initial Tree Trim	\$0.00	\$0.00	\$0.00
Poles	\$150.71	\$278.42	\$429.13
Transformers	\$208.91	\$88.24	\$297.15
Subtotal	\$631.74	\$653.93	\$1,285.67
Stores Handling <sup>3</sup>	\$77.20	\$0.00	\$77.20
Subtotal	\$708.94	\$653.93	\$1,362.87
Engineering		\$65.66	\$65.66
<b>TOTAL</b>	<b>\$708.94</b>	<b>\$719.59</b>	<b>\$1,428.53</b>

<sup>1</sup> Includes Administration, General, Energy Delivery Supervision, & Transportation

<sup>2</sup> Includes Meter

<sup>3</sup> 12.22% of all Material

COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

Single Occupancy Low Density 210 Lot Subdivision  
Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>	\$331.03	\$248.42	\$579.45
Primary	\$304.40	\$109.34	\$413.74
Secondary	\$79.99	\$64.92	\$144.91
Transformers	\$378.83	\$86.18	\$465.01
Pri. and Sec. Trenching	\$0.00	\$319.74	\$319.74
Service Trenching	\$0.00	\$318.88	\$318.88
Subtotal	\$1,094.25	\$1,147.48	\$2,241.73
Stores Handling <sup>3</sup>	\$133.72	\$0.00	\$133.72
Subtotal	\$1,227.97	\$1,147.48	\$2,375.45
Engineering		\$65.66	\$65.66
<b>TOTAL</b>	<b>\$1,227.97</b>	<b>\$1,213.14</b>	<b>\$2,441.11</b>

<sup>1</sup> Includes Administration, General, Energy Delivery Supervision, & Transportation

<sup>2</sup> Includes Meter

<sup>3</sup> 12.22% of all Material

TYPICAL SINGLE OCCUPANCY LOW DENSITY 210 LOT SUBDIVISION LAYOUT  
Overhead Design



TYPICAL SINGLE OCCUPANCY LOW DENSITY 210 LOT SUBDIVISION LAYOUT



OVERHEAD VS UNDERGROUND SUMMARY SHEET

Single Occupancy High Density 176 Lot Subdivision  
Individually Metered  
Cost per Lot

<b>ITEM</b>	<b>OVERHEAD</b>	<b>UNDERGROUND</b>	<b>DIFFERENTIAL</b>
Labor	\$570.46	\$1,015.10	\$444.64
Material	\$551.19	\$866.33	\$315.14
<b>TOTAL</b>	<b>\$1,121.65</b>	<b>\$1,881.43</b>	<b>\$759.78</b>
<b>NPV Operational Cost</b> Including Storm Restoration and Lost Pole Attachment Revenue	\$1,020.29	\$567.51	-\$452.78
<b>TOTAL</b> Including NPV Operational Cost	<b>\$2,141.94</b>	<b>\$2,448.94</b>	<b>\$307.00</b>

COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

Single Occupancy High Density 176 Lot Subdivision  
Individually Metered  
Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>	\$142.24	\$91.83	\$234.07
Primary	\$12.88	\$35.17	\$48.05
Secondary	\$64.40	\$106.36	\$170.76
Initial Tree Trim			\$0.00
Poles	\$113.97	\$205.55	\$319.52
Transformers	\$157.68	\$70.27	\$227.95
Subtotal	\$491.17	\$509.18	\$1,000.35
Stores Handling <sup>3</sup>	\$60.02	\$0.00	\$60.02
Subtotal	\$551.19	\$509.18	\$1,060.37
Engineering		\$61.28	\$61.28
<b>TOTAL</b>	<b>\$551.19</b>	<b>\$570.46</b>	<b>\$1,121.65</b>

<sup>1</sup> Includes Administration, General, Energy Delivery Supervision, & Transportation

<sup>2</sup> Includes Meter

<sup>3</sup> 12.22% of all Material

COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

Single Occupancy High Density 176 Lot Subdivision  
Individually Metered  
Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>	\$288.33	\$260.66	\$548.99
Primary	\$138.27	\$61.14	\$199.41
Secondary	\$78.14	\$70.32	\$148.46
Transformers	\$267.25	\$68.77	\$336.02
Pri. and Sec. Trenching		\$175.02	\$175.02
Service Trenching		\$317.91	\$317.91
Subtotal	\$771.99	\$953.82	\$1,725.81
Stores Handling <sup>3</sup>	\$94.34	\$0.00	\$94.34
Subtotal	\$866.33	\$953.82	\$1,820.15
Engineering		\$61.28	\$61.28
<b>TOTAL</b>	<b>\$866.33</b>	<b>\$1,015.10</b>	<b>\$1,881.43</b>

<sup>1</sup> Includes Administration, General, Energy Delivery Supervision, & Transportation

<sup>2</sup> Includes Meter

<sup>3</sup> 12.22% of all Material

OVERHEAD VS UNDERGROUND SUMMARY SHEET

Single Occupancy High Density 176 Lot Subdivision  
Multi-Unit Meter Centers  
Cost per Lot

<b>ITEM</b>	<b>OVERHEAD</b>	<b>UNDERGROUND</b>	<b>DIFFERENTIAL</b>
Labor	NA	NA	NA
Material	NA	NA	NA
<b>TOTAL</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

**Tampa Electric's URD policy does not include "per lot" charges for multi-unit meter centers. These installations are covered in Tariff Section 5 Subsection 3.4.4.**



COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

Single Occupancy High Density 176 Lot Subdivision  
Multi-Unit Meter Centers  
Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>			\$0.00
Primary			\$0.00
Secondary			\$0.00
Initial Tree Trim			\$0.00
Poles			\$0.00
Transformers			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Stores Handling <sup>3</sup>			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Engineering			\$0.00
<b>TOTAL</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

<sup>1</sup> Includes Administration, General & Transportation

<sup>2</sup> Includes Meter

<sup>3</sup> 12.22% of all Material

**Tampa Electric's URD policy does not include "per lot" charges for multi-unit meter centers. These installations are covered in Tariff Section 5 Subsection 3.4.4.**

COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

Single Occupancy High Density 176 Lot Subdivision  
Multi-Unit Meter Centers  
Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>			\$0.00
Primary			\$0.00
Secondary			\$0.00
Transformers			\$0.00
Pri. and Sec. Trenching			\$0.00
Service Trenching			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Stores Handling <sup>3</sup>			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Engineering			\$0.00
<b>TOTAL</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

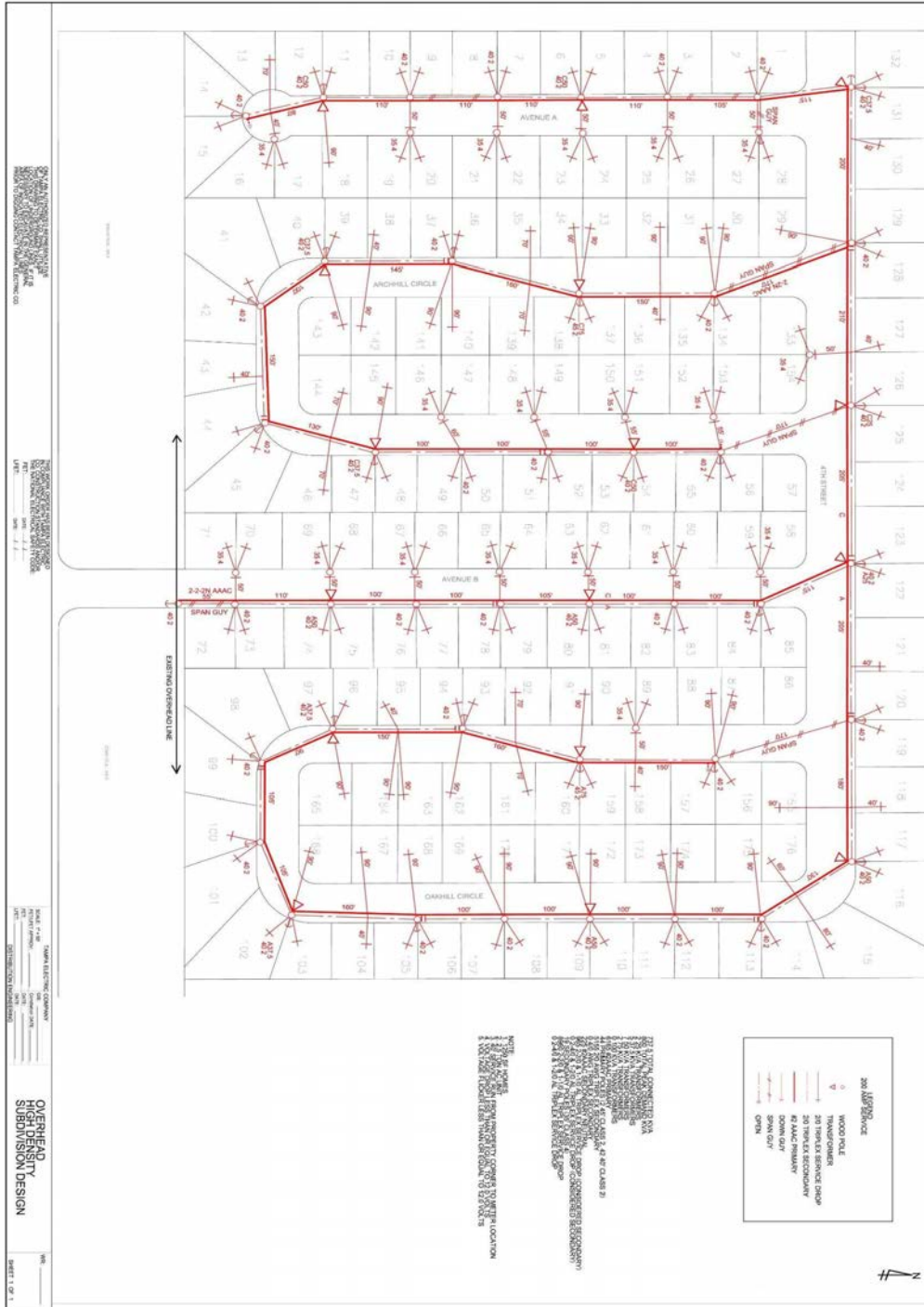
<sup>1</sup> Includes Administration, General & Transportation

<sup>2</sup> Includes Meter

<sup>3</sup> 12.22% of all Material

**Tampa Electric's URD policy does not include "per lot" charges for multi-unit meter centers. These installations are covered in Tariff Section 5 Subsection 3.4.4.**

TYPICAL SINGLE OCCUPANCY HIGH DENSITY 176 LOT SUBDIVISION LAYOUT  
 Overhead Design - Individually Metered



TYPICAL SINGLE OCCUPANCY HIGH DENSITY 176 LOT SUBDIVISION LAYOUT

Underground Design - Individually Metered



AVERAGE UNDERGROUND FEEDER COSTS

Underground \$/Ft... _____	Overhead \$/Ft... _____	Difference \$/Ft... _____
With Favorable Trenching \$/Ft... _____		\$/Ft... _____
Additional Trenching Cost* (Difficult Trenching) \$/Ft... _____		\$/Ft... _____

\* Difficult trenching charges include underground cost of cable-in-conduit and rock trench adder.

Note: Above costs reflect adjustment of \$ \_\_\_\_\_ for overhead estimates and \$ \_\_\_\_\_ for underground estimates.

**Feeder cost are not included in Tampa Electric "per lot" charges. Feeder installation policy addressed in Tampa Electric's Tariff Section 5 Subsection 3.4.1.1.**

ACTUAL OPERATIONAL DISTRIBUTION EXPENSES IN 2020

For Overhead and Underground

	OVERHEAD	UNDERGROUND
Operational Expense - Distribution	\$63,394,096	\$33,194,939

JOINT TRENCHING WITH OTHER UTILITIES  
In RESIDENTIAL DISTRIBUTION

2011- 2020 ADDITIONS

<u>Date</u> <u>Closed</u>	<u>Location</u>	<u>Work</u> <u>Order</u> <u>Number</u>	<u>Footage</u>	Total Amount Due From Other Utility	Total Amount Due To Other Utility
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**Tampa Electric did not engage in joint trenching during calendar year 2020.**

JOINT TRENCHING WITH OTHER UTILITIES  
In RESIDENTIAL DISTRIBUTION  
(continued)

<u>Year</u>	<u>Footage Feet</u>	<u>Amount Due From Other Utility</u>	<u>Amount Due To Other Utility</u>
Total For 2011	0	\$0.00	\$0.00
Total For 2012	0	\$0.00	\$0.00
Total For 2013	0	\$0.00	\$0.00
Total For 2014	0	\$0.00	\$0.00
Total For 2015	0	\$0.00	\$0.00
Total For 2016	0	\$0.00	\$0.00
Total For 2017	0	\$0.00	\$0.00
Total For 2018	0	\$0.00	\$0.00
Total For 2019	0	\$0.00	\$0.00
Total For 2020	0	\$0.00	\$0.00
10-Year Total	0	\$0.00	\$0.00



4/2021

**LOW DENSITY MODEL**  
(210 lots)

**Underground Costs (per lot)**

With overheads filed in rate case

ITEM	MATERIAL		LABOR		TOTAL		EXPLANATION OF % CHANGE
	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	
SERVICE	331.03	64.92%	248.42	46.79%	579.45	56.63%	Underground material up, contractor rates up
PRIMARY	304.40	30.81%	109.34	51.40%	413.74	35.68%	Underground material up, Cable labor re-evaluation caused labor increase
SECONDARY	79.99	84.78%	64.92	28.28%	144.91	54.32%	Underground material up, Cable labor re-evaluation caused labor increase
TRANSFORMERS	378.83	9.14%	86.18	10.13%	465.01	9.32%	Underground material up, TEC & Contractor overhead down
TRENCHING							
PRIMARY & SECONDARY			319.74	-12.14%	319.74	-12.14%	Contractor rates down
SERVICES			318.88	-7.16%	318.88	-7.16%	Contractor rates down
SUB-TOTAL	1,094.25	32.82%	1,147.48	6.48%	2,241.73	17.89%	
STORES HANDLING	133.72	16.11%			133.72	16.11%	Higher material costs produces higher handling costs
SUB-TOTAL	1,227.97	30.77%	1,147.48	6.48%	2,375.45	17.79%	
ENGINEERING			65.66	0.00%	65.66	0.00%	
<b>TOTAL</b>	<b>1,227.97</b>	<b>30.77%</b>	<b>1,213.14</b>	<b>6.10%</b>	<b>2,441.11</b>	<b>17.23%</b>	
					<b>1,216.53</b>	<b>Net Present Value of the Life Cycle Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue</b>	
Total with NPV Factor					<b>3,657.64</b>	<b>Total Including NPV of Operational Cost</b>	

**Overhead Costs (per lot)**

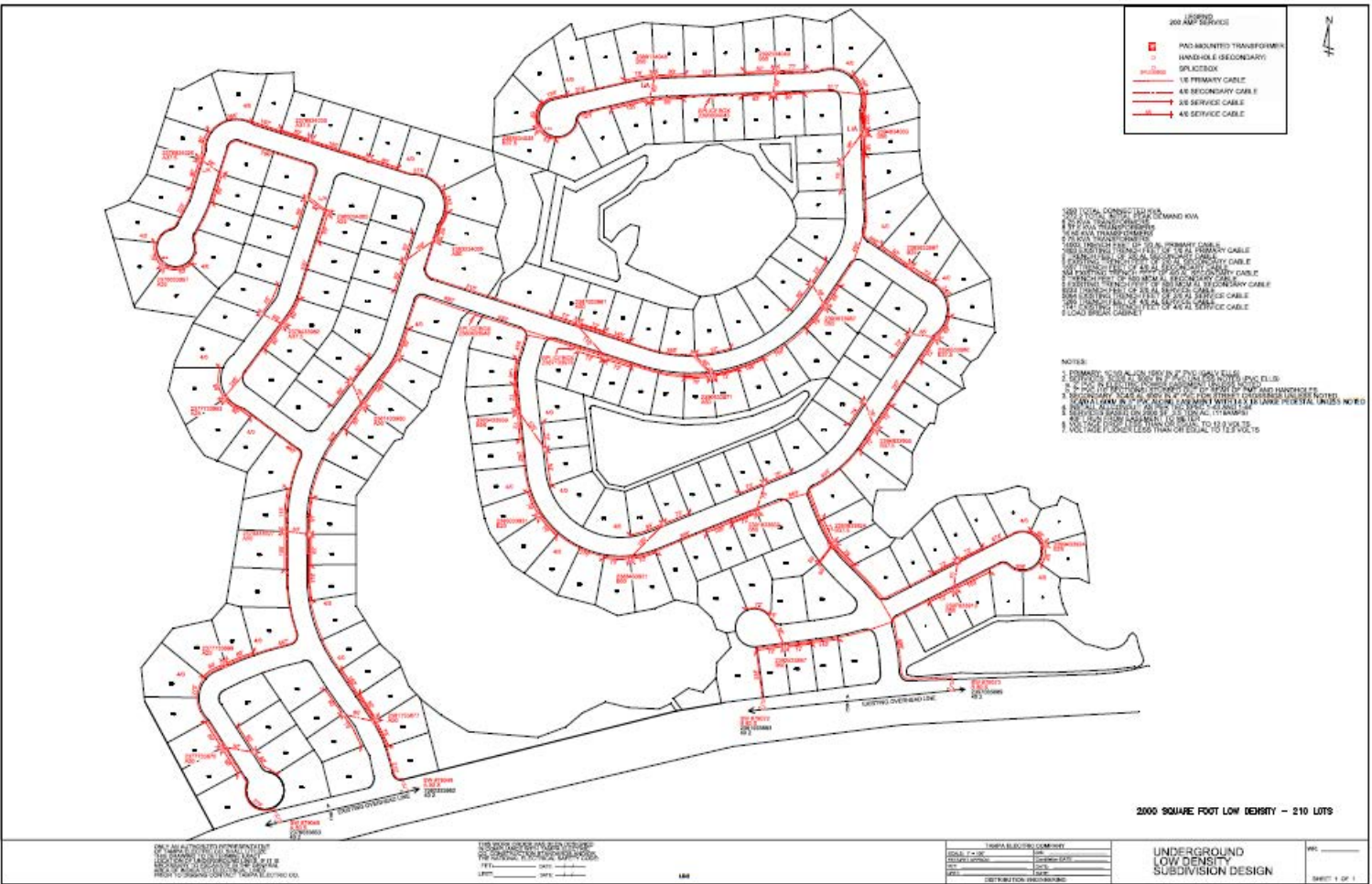
ITEM	MATERIAL		LABOR		TOTAL		EXPLANATION OF % CHANGE
	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	
SERVICE	134.88	70.67%	79.94	6.94%	214.82	39.69%	Material up, Labor up
PRIMARY	16.04	15.73%	47.12	12.78%	63.16	13.52%	Material up, Labor up
SECONDARY	121.20	11.24%	160.21	6.02%	281.41	8.21%	Material up, Labor up
INITIAL TREE TRIM			0.00		0.00		
POLES	150.71	8.41%	278.42	8.73%	429.13	8.62%	Material up, Labor up
TRANSFORMERS	208.91	3.31%	88.24	9.53%	297.15	5.08%	Material up, Labor up
SUB-TOTAL	631.74	16.33%	653.93	8.22%	1,285.67	12.06%	
STORES HANDLING	77.20	1.69%			77.20	1.69%	Higher material costs produces higher handling costs
SUB-TOTAL	708.94	14.53%	653.93	8.22%	1,362.87	11.41%	
ENGINEERING			65.66	0.00%	65.66	0.00%	
<b>TOTAL</b>	<b>708.94</b>	<b>14.53%</b>	<b>719.59</b>	<b>7.41%</b>	<b>1,428.53</b>	<b>10.83%</b>	
					<b>1,363.15</b>	<b>Net Present Value of the Life Cycle Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue</b>	
Total with NPV Factor					<b>2,791.68</b>	<b>Total Including NPV of Operational Cost</b>	

**Differential Costs (per lot)**

ITEM	MATERIAL		LABOR		TOTAL	
	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE
<b>Differential (per lot)</b>	<b>519.03</b>	<b>62.19%</b>	<b>493.55</b>	<b>4.25%</b>	<b>1,012.58</b>	<b>27.62%</b>
<b>NPV amount</b>					<b>-146.62</b>	
<b>Differential<sup>1</sup> (per lot)</b>	<b>0.00</b>		<b>0.00</b>		<b>865.96</b>	<b>-276.37%</b>

<sup>1</sup> Includes NPV of Operational Cost

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**UG Construction Cost Data Summary  
Low Density (210-Lot) UG Subdivision Costs**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	
Line #	Work Type/WR #	Description	(C + M) Material and Handling	Material	(F + L) Total Labor Plus Vehicles	(G + H + I) Total Labor	Base Labor	(G x J x TLF) TEC Labor Overheads	(G x K x CLF) Contract Labor Overheads	TEC Work %	Contractor Work %	Vehicle	(D x MHR) Material Handling	(C+E) Total
1	Transformers													
2	924920	Install & Ground Transformers	89,275.93	\$79,554.38	12,917.76	11,552.89	6,726.81	4,286.32	539.76	60%	40%	\$1,364.87	9,721.55	102,193.69
3	Contractor	Prepare Pad Site	-	-	5,179.75	5,179.75	4,314.30	-	865.45	0%	100%	-	-	5,179.75
4			89,275.93	79,554.38	18,097.51	16,732.64	11,041.11	4,286.32	1,405.21			1,364.87	9,721.55	107,373.44
5														
6	Primary													
7	924957	Primary Line - OH-UG Takeoffs	1,615.06	\$1,439.19	1,910.80	1,708.90	995.03	634.03	79.84	60%	40%	\$201.89	175.87	3,525.85
8	925017	Primary Conduit (Material Only)	25,221.49	\$22,475.04	-	-	-	-	-			-	2,746.45	25,221.49
9	925022	Primary Cable	44,899.79	\$40,010.51	21,050.29	18,826.15	10,961.75	6,984.83	879.57	60%	40%	\$2,224.14	4,889.28	65,950.08
10			71,736.34	63,924.74	22,961.08	20,535.05	11,956.78	7,618.86	959.41			2,426.03	7,811.60	94,697.43
11	Secondary													
12	925024	Secondary Cable	11,440.67	\$10,194.86	13,633.22	12,192.76	7,099.38	4,523.72	569.65	60%	40%	\$1,440.46	1,245.81	25,073.90
13	925026	Secondary Conduit (Material Only)	7,409.08	\$6,602.28	-	-	-	-	-			-	806.80	7,409.08
14			18,849.75	16,797.14	13,633.22	12,192.76	7,099.38	4,523.72	569.65			1,440.46	2,052.61	32,482.97
15	Service													
16	925028	Service Cable	26,226.15	\$23,370.30	48,611.12	48,611.12	40,489.02	-	8,122.10	0%	100%	-	2,855.85	74,837.27
17	925029	Set Meters	21,181.30	\$18,874.80	3,556.32	3,180.56	1,851.92	1,180.04	148.60	60%	40%	\$375.75	2,306.50	24,737.62
18	925030	Service Conduit Material	30,604.71	\$27,272.06	-	-	-	-	-			-	3,332.65	30,604.71
19			78,012.16	69,517.16	52,167.43	51,791.68	42,340.94	1,180.04	8,270.70			375.75	8,495.00	130,179.59
20														
21	Trenching													
22	Contractor	Primary Trenching	-	-	45,216.01	45,216.01	37,661.18	-	7,554.83	0%	100%	-	-	45,216.01
23	Contractor	Secondary Trenching	-	-	5,475.70	5,475.70	4,560.80	-	914.90	0%	100%	-	-	5,475.70
24	TEC Inspection	for Primary	-	-	16,452.69	15,594.97	-	-	-	100%	0%	857.72	-	16,452.69
25			-	-	67,144.40	66,286.68	42,221.98	-	8,469.73			857.72	-	67,144.40
26														
27	Contractor	Svc Trenching Pri. Prop	-	-	39,974.94	39,974.94	33,295.80	-	6,679.14	0%	100%	-	-	39,974.94
28	Contractor	Svc Trenching Rts-of-Wy	-	-	17,238.59	17,238.59	14,358.31	-	2,880.28	0%	100%	-	-	17,238.59
29	TEC Inspection	for Service	-	-	9,750.62	9,242.42	-	-	-	100%	0%	508.20	-	9,750.62
30			-	-	66,964.14	66,455.94	47,654.11	-	9,559.41			508.20	-	66,964.14
31														
32	Engineering	Design/Inspection/Coordination	-	-	13,788.39	13,788.39	-	-	-			-	-	13,788.39
33														
34	Totals (Sum of lines 4, 10, 14, 19, 25, 30, and 32)		\$ 257,874.18	\$ 229,793.42	\$ 254,756.18	\$ 247,783.15	\$ 162,314.30	\$ 17,608.95	\$ 29,234.11			\$ 6,973.04	\$ 28,080.76	\$ 512,630.36
35	Cost per Lot (line 34 /210 lots)		\$ 1,227.97		\$ 1,213.12									\$ 2,441.10

Adjustment Factors	
TEC Operations Labor Overhead Factor	TLF = 1.062
Contractor Labor Overhead Factor	CLF = 0.2006
Current year material handling charge rate	MHR = 0.1222

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UG Contractor Labor Estimate - 210 lot low density						
<b>Prepare pad site (Primary Contractor Labor Costs)</b>						
	<b>Total</b>	<b>Cost</b>	<b>Pad sites</b>			
Pad site preparation	<b>Total</b>	<b>\$4,314.30</b>	<b>\$143.81</b>	30		
<b>Primary Trenching &amp; Conduit (Primary Contractor Labor Costs)</b>						
	<b>Total</b>	<b>Cost</b>	<b>Feet</b>			
	\$29,126.24	\$2.08	14003			Machine Trenching Cost Only
	\$8,061.06	\$0.51	15806			2" Conduit Installation (both trenching and in existing trench)
	\$0.00	\$0.00	14003			Pull-tape Installation (used exact length for labor cost not 5% extra)
	\$473.88	\$157.96	3			1ø splice box (30" x 48" x 18"), UG GR&S 6-21
Primary Trenching	<b>Sub-total</b>	<b>\$37,661.18</b>				
<b>Secondary Trenching &amp; Conduit (Primary Contractor Labor Costs)</b>						
	<b>Total</b>	<b>Cost</b>	<b>Feet</b>			
	\$3,321.76	\$2.08	1597			Machine Trenching Cost Only
	\$0.00	\$0.51	0			2" Conduit Installation
	\$176.00	\$0.55	320			3" Conduit Installation
	\$1,063.04	\$0.64	1661			4" Conduit Installation
	\$0.00	\$0.00	1597			Pull-tape Installation (used exact length not 5% extra)
Secondary Trenching	<b>Sub-total</b>	<b>\$4,560.80</b>				
Primary Contractor Labor	<b>Total</b>	<b>\$42,221.98</b>				
<b>Service Trenching &amp; Conduit (Primary Contractor Labor Costs)</b>						
	<b>Total</b>	<b>Cost</b>	<b>Feet</b>			
	\$7,473.44	\$2.08	3593			Trenching Cost -Trenching feet required for 2" service conduit
	\$1,196.00	\$2.08	575			Trenching Cost -Trenching feet required for 3" service conduit
	\$4,415.07	\$0.51	8657			2" Conduit Installation
	\$1,273.80	\$0.55	2316			3" Conduit Installation
	\$0.00	\$0.00	10973			Pull-tape Installation (used exact length not 5% extra)
Svc Trenching Rts-of-Wy	<b>Sub-total</b>	<b>\$14,358.31</b>				
<b>Service Trenching &amp; Conduit on Private Property (Service Contractor Labor Costs)</b>						
	<b>Total</b>	<b>Cost</b>	<b>Feet</b>			
Svc Trenching Pri. Prop	<b>Sub-total</b>	<b>\$33,295.80</b>	<b>\$5.26</b>	6330		Trenching & conduit labor cost - Trenching feet = 30 ft x 210 lots
<b>Service Cable (Service Contractor Labor Costs)</b>						
	<b>Total</b>	<b>Cost</b>	<b>Feet</b>			
Service Cable Labor	<b>Sub-total</b>	<b>\$40,489.02</b>	<b>\$2.34</b>	17303		Installing 2/0 or 4/0 Cable in existing conduit from source to meter
Service Contractor Labor	<b>Total</b>	<b>\$88,143.13</b>				
<b>Total Contractor Labor Cost \$130,365.11</b>						
<b>Inspection (TECO Labor Cost)</b>						
	<b>TEC Labor</b>	<b>TEC Labor</b>	<b>TEC Vehicle</b>	<b>TEC Vehicle</b>	<b>Total</b>	<b>Inspection costs for Primary Contractor (TECO Labor Cost)</b>
	<b>Total</b>	<b>Rate</b>	<b>Feet/Qty</b>	<b>Rate</b>	<b>Total</b>	
	\$10,953.46	\$88.00	14003	\$4.84	\$602.44	Primary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate
	\$1,249.21	\$88.00	1597	\$4.84	\$68.71	Secondary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate
	\$3,260.30	\$88.00	4168	\$4.84	\$179.32	Service ROW Inspection chg = (machine trench ft / 900 ft per day)*(8 hr/day)*Contractor rate
	\$132.00	\$44.00	3	\$2.42	\$7.26	1ø splice box (30" x 48" x 18"), UG GR&S 6-21
Inspection costs for Primary Contractor	<b>Sub-total</b>	<b>\$15,594.97</b>			<b>\$857.72</b>	
	<b>TEC Labor</b>	<b>TEC Labor</b>	<b>TEC Vehicle</b>	<b>TEC Vehicle</b>	<b>Total</b>	<b>Inspection costs for Service Contractor (TECO Labor Cost)</b>
	<b>Total</b>	<b>Rate</b>	<b>Feet/Qty</b>	<b>Rate</b>	<b>Total</b>	
	\$9,240.00	\$44.00	210	\$2.42	\$508.20	Service Private Property Inspection = .5hr x # of lots x rate
Inspection costs for Service Contractor	<b>Sub-total</b>	<b>\$9,242.42</b>			<b>\$508.20</b>	
<b>Total TEC Inspection Cost \$24,837.39</b>						

Please modify the low density construction drawing legend as shown below.

**UG Material List - 1501-2500 sq ft same trench 210 lot low density**

<b>1250</b>	<b>Total Connected KVA</b>
<b>1272.2</b>	<b>Total initial peak demand KVA</b>
<b>6</b>	<b>25 kVA Transformers</b>
<b>8</b>	<b>37.5 kVA Transformers</b>
<b>16</b>	<b>50 kVA Transformers</b>
<b>0</b>	<b>75 kVA Transformers</b>
<b>14003</b>	<b>Trench Feet of 1/0 AL Primary Cable</b>
<b>1803</b>	<b>Existing trench feet of 1/0 AL Primary Cable</b>
<b>0</b>	<b>Trench Feet of 2/0 AL Secondary Cable</b>
<b>0</b>	<b>Existing trench feet of 2/0 AL Secondary Cable</b>
<b>1597</b>	<b>Trench Feet of 4/0 AL Secondary Cable</b>
<b>384</b>	<b>Existing trench feet of 4/0 AL Secondary Cable</b>
<b>0</b>	<b>Trench Feet of 500 MCM AL Secondary Cable</b>
<b>0</b>	<b>Existing trench feet of 500 MCM AL Secondary Cable</b>
<b>9233</b>	<b>Trench Feet of 2/0 AL Service Cable</b>
<b>5064</b>	<b>Existing trench feet of 2/0 AL Service Cable</b>
<b>1265</b>	<b>Trench Feet of 4/0 AL Service Cable</b>
<b>1741</b>	<b>Existing trench feet of 4/0 AL Service Cable</b>
<b>0</b>	<b>Load Break Cabinet</b>

Notes:

1. 1501-2500 SF Homes
2. 3.5 Ton AC Units
3. 40' Service run from property corner to meter location
4. Voltage drop less than or equal to 12.0 volts
5. Voltage flicker less than or equal to 12.0 volts

**UG CU Totals (Material and Labor) - 2000 sq ft - 210 lot low density**

Links allow this worksheet to summarize the material and CU entries from the ParkhurstPole worksheet through the BentTreePole worksheet. The totals are broken down into material construction units (CUs) for WorkPro work requests and labor inputs for the Contractor Labor worksheet.

**Station** All Stations - This information is used to create Work Requests to obtain costs.

<== Blue shading indicates fields to be updated. In WorkPro search for each Work Request Number shown in the blue areas. Then copy each work request which will create a new work request number to be entered.

Transfer the values from Qty and CU columns highlighted in yellow to the new WorkPro Work Requests to obtain new costs.

Those costs are then entered into the LDdifferentialMonth-Year.xls workbook to calculate the Low Density Differential cost.

**Work Request**

**Number**

924920

**Transformers - Cost for: Material only, TEC labor & overhead, vehicle**

Qty	CU	Definition	Total Connected KVA	
0	pku51a3n	25 kva, 6 tap 250mcm	0	
6	pku51c3n	25 kva, 8 tap 250mcm	150	150
0	pku51a4n	37.5 kva, 6 tap 250mcm	0	150
1	pku51b4n	37.5 kva, 6 tap 500mcm	37.5	187.5
0	pku51c4n	37.5 kva, 8 tap 250mcm	0	187.5
7	pku51d4n	37.5 kva, 8 tap 500mcm	262.5	450
0	pku51a5n	50 kva, 6 tap 250mcm	0	450
0	pku51b5n	50 kva,6 tap 500mcm	0	450
0	pku51c5n	50 kva,8 tap 250mcm	0	450
16	pku51d5n	50 kva,8 tap 500mcm	800	1250
0	pku51a6n	75 kva, 6 tap 250mcm	0	1250
0	pku51b6n	75 kva, 6 tap 500mcm	0	1250
0	pku51c6n	75 kva,8 tap 250mcm	0	1250
0	pku51d6n	75 kva, 8 tap 500mcm	0	1250
1	bushcover_arrester	open position on loop tx used as radial		1250
1	bushdummy_arrester	normal open tx in loop		
2	bushinsert_arrester	at adjacent tx to normal open in a loop		
33	grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" rods		

**Work Request**

**Number**

924957

**OH Primary - Cost for: Material only, TEC labor & overhead, vehicle**

Qty	CU	Definition
4	PKE601WF1B	TEC material & labor to frame terminal pole CO & LA
4	FLOH103	Fuse
4	grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" rods

**Primary Trenching - Labor Only**

Done by contractors

Used to determine contractor labor cost on the Contractor Labor worksheet

Qty	CU	Definition
14003	Trenching feet required for 2" primary conduit	
1803	Existing trench feet used for 2" primary conduit	
14003	Install Pulling Tape (blow in tape for pull - trench feet used to determine contractor cost)	

**Work Request**

**Number**

925017

**Primary Conduit - Cost for Material only**

Material used by contractors to install the conduit system

Qty	CU	Definition
40	COND2G	Conduit, galvanized 2". 10' with coupling, for up terminal pole TEC # 2004389
16156	COND2_SCHA	2" PVC Schedule A conduit TEC # 2004488
16506	MULE TAPE	Pulling tape - actual length - does not need any 5% adder TEC # 2007414
88	ELL2G90	2" elbow 90 galv 9.5" radius TEC # 2004395
1	ELL2G45	2" elbow 45 galv 9.5" radius TEC # 2004394
178	COUP2P	Coupling, 2" PVC (2 per elbow) TEC # 2004507
33	GLUECONDF	2"& 3" pvc 1 qt for 500' fast dry
3	HH1PHPRI	1ø splice box (30" x 48" x 18"), UG GR&S 6-21

**Work Request**

**Number**

925022

**Primary Cable - Cost for: Material only, TEC labor & overhead, vehicle**

Qty	CU	Definition	
4	PKU16WF	pothead, 38' 1c 1/0AL cable, 20' pvc, ground conn, wood pole	152
61	PKU11F	safebreak, 5' 1c 1/0AL cable, ground conn	305
0	PKU31P3	switch cubicle(lbc) 1ph, 200a deadfront, 3 position w/pad, grnd	
0	PKU31P4	switch cubicle(lbc) 1ph, 200a deadfront, 4 position w/pad, grnd	
0	FAULT1PA	fault indicator, 1ph 1/0-4/0 above grade, 400a	
15806	CA1/0CN1CAL_SOL	cable, 1/0AL concentric neutral 15kV, includes labor	15806
0	WIU1F	labor to pull ug cable in conduit	
		Our check! -Work request material 1/0AL concentric neutral 15kV cable total should be ==>	17060.9

**Secondary Trenching - Labor Only - Done By Contractors**

Used to determine contractor labor cost on the Contractor Labor worksheet

Qty	CU	Definition
0		Trenching feet required for 2" secondary conduit
0		Existing trench feet used for 2" secondary conduit
0		Trenching feet required for 3" secondary conduit used for 2/0 service cable
0		Existing trench feet used for 3" secondary conduit used for 2/0 service cable
0		Trenching feet required for 3" secondary conduit used for 4/0 service cable
320		Existing trench feet used for 3" secondary conduit used for 4/0 service cable
1597		Trenching feet required for 4" secondary conduit used for 4/0 service cable
64		Existing trench feet used for 4" secondary conduit used for 4/0 service cable
0		Trenching feet required for 4" secondary conduit used for 500 service cable
0		Existing trench feet used for 4" secondary conduit used for 500 service cable
1597		Install Pulling Tape (blow in tape for pull - trench feet used to determine contractor cost)

**Work Request**

**Number**

925024

**Secondary Cable & Hand Holes - Cost for: Material only, TEC labor & overhead, vehicle**

Qty	CU	Definition	
0	wiu3sb	2c 2/0 1c 1 neutral, 600 v - added 5% here	This CU adds 5% and we want it to.
2171	CA4/0INS3CAL	2c 4/0 1c 2/0 neutral, 600v includes labor - added 5%	This CU adds 5% and we want it to.
0	wiu3sn	2c 500 1c 350 neutral, 600v - added 5% here	This CU adds 5% and we want it to.
0	insbus350/4	crab 4 position up to 350mcm	
0	insbus350/6	crab 6 position up to 350mcm	
0	insbus500/4	crab 4 position up to 500mcm	
69	insbus500/6	crab 6 position up to 500mcm	
0	insbus500/8	crab 8 position up to 500mcm	
0	wiu1f	labor to pull ug cable in conduit	
23	svhottx	energize ug secondary in transformer	
23	svhothh	energize ug secondary in hand hole	
0	hhsec	secondary h/h 12"x20", 3 or 4 2/0 or 4/0 svc w/ 2/0 or 4/0 sec	
23	HH LARGE PEDEST	secondary h/h 14"x18" large pedestal, 5 to 7 2/0 or 4/0 svc w/ 4/0 or 500 sec (any time 500 used)	

**Work Request**

**Number**

925026

**Secondary Conduit - Cost for Material Only**

Material used by contractors to install the conduit system

Qty	CU	Definition
0	COND2_SCHA	2" conduit sched A bell end TEC # 2004488
340	COND3_SCHA	3" conduit sched A bell end TEC # 2004517
1871	COND4_PVC_SCHA	4" conduit sched A bell end TEC # 2004529
2326	MULE TAPE	Pulling tape, plus adding 5% extra here TEC # 2007414
0	ELL2P90	2" elbow 90 PVC 9.5" radius TEC # 2004511
0	ELL2P45	2" elbow 45 PVC 9.5" radius TEC # 2004510
4	ELL3P90	3" elbow 90 PVC 13" radius TEC # 2004524
0	ELL3P45	3" elbow 45 PVC 13" radius TEC # 2004523
42	ELL4P90	4" elbow 90 PVC 16" radius TEC # 2004538
0	ELL4G45	4" elbow 45 galv 16" radius TEC # 2004427
0	COUP2P	Coupling, 2" PVC (2 per elbow) TEC # 2004507
8	COUP3P	Coupling, 3" PVC (2 per elbow) TEC # 2004521
84	COUP4P	Coupling, 4" PVC (2 per elbow) TEC # 2004535
1	GLUECONDF	2" & 3" pvc 1 qt for 500' fast dry
8	GLUECONDM	4" & 6" pvc 1 qt for 250' medium dry

**Work Request  
Number**

**925028**

**Service Cable - Cost for Material Only**

Material used by contractors to install the conduit system

Qty	CU	Definition	
16177	CA2/OINS3CAL	2c 2/0 & 1c 1 neutral, 600 v service cable	This CU adds 5% and we want it to.
3236	CA4/OINS3CAL	2c 4/0 & 1c 2/0 neutral, 600 v service cable	This CU adds 5% and we want it to.

**Work Request  
Number**

**925029**

**Set Meter - Cost for: Material only, TEC labor & overhead, vehicle**

Qty	CU	Definition
210	meterlabor	
210	1900006	meter, kwh 30a 240v

**Service Trenching - Labor Only - Done By Contractors**

Used to determine contractor labor cost on the Contractor Labor worksheet

Qty	CU	Definition
188		Number of 2/0 services installed in 2" conduit
0		Number of 2/0 services installed in 3" conduit
23		Number of 4/0 services installed in 3" conduit
5640		Trenching feet for 2" service conduit on private property-service contractor
1880		Trenching feet for 10' stub of 2" service conduit installed by primary contractor
1713		Trenching feet for 2" service conduit installed by primary contractor
5064		Existing trench feet used for 2" service conduit installed by primary contractor
8657		Install Pulling Tape for 2" conduit (blow in tape for pull - Primary Contractor)
0		Trenching feet for 3" service conduit on private property-service contractor for 2/0 service
0		Trenching feet for 10' stub of 3" service conduit installed by primary contractor for 2/0 service
0		Trenching feet for 3" service conduit installed by primary contractor for 2/0 service
0		Existing trench feet used for 3" service conduit installed by primary contractor for 2/0 service
0		Install Pulling Tape for 3" conduit for 2/0 service (blow in tape for pull - Primary Contractor)
690		Trenching feet for 3" service conduit on private property-service contractor for 4/0 service
230		Trenching feet for 10' stub of 3" service conduit installed by primary contractor for 4/0 service
345		Trenching feet for 3" service conduit installed by primary contractor for 4/0 service
1741		Existing trench feet used for 3" service conduit installed by primary contractor for 4/0 service
2316		Install Pulling Tape for 3" conduit for 4/0 service (blow in tape for pull - Primary Contractor)

**Work Request  
Number**

**925030**

**Service Conduit - Cost for Material Only**

Material used by contractors to install the conduit system

Qty	CU	Definition	Used by contractors to install conduit system
5640		Conduit for 2" service on private property-service contractor	
2820		Conduit for 10' stub of 2" service installed by primary contractor	
6777		Conduit for 2" service installed by primary contractor	
10537		Pulling Tape installed in 2" conduit by Primary Contractor)	
15237	COND2_SCHA	<b>Total quantity of 2" conduit for work order - TEC # 2004488</b>	
504	ELL2P90	2" elbow 90 PVC 9.5" radius TEC # 2004395	
0	ELL2P45	2" elbow 45 PVC 9.5" radius TEC # 2004394	
188	LOCKNUT2	2" galvanized Lock Nut TEC # 2004396	
2070	CONDFLEX2	2" Flexible PVC conduit TEC # 2004491	
188	ADAPT2F/M	2" PVC Adapter, male thread/female slip TEC # 2004493	
188	RISER2G7	2" PVC Service Riser TEC # 2004401	
1008	COUP2P	Coupling, 2" PVC (2 per elbow) TEC # 2004507	
690		Conduit for 3" service on private property-service contractor	
345		Conduit for 10' stub of 3" service installed by primary contractor	
2086		Conduit for 3" service installed by primary contractor	
2546		Pulling Tape installed in 3" conduit by Primary Contractor)	
3121	COND3_SCHA	<b>Total quantity of 3" conduit for work order - TEC # 2004517</b>	
69	ELL3P90	3" elbow 90 PVC 13" radius TEC # 2004524	
0	ELL3P45	3" elbow 45 PVC 13" radius TEC # 2004523	
23	RISER21/2G7	2-1/2" house riser TEC # 2004409	
23	LOCKNUT21/2	2-1/2" galvanized Lock Nut TEC # 2004408	
23	CONDFLEX3	3" Flexible PVC conduit TEC # ; Used by contractors to install conduit system	
23	ADAPT2F/F	2-1/2"PVC Adapter, male thread/female slip TEC # 2004462	
138	COUP3P	Coupling, 3" PVC (2 per elbow) TEC # 2004521	
37	GLUECONDF	2"& 3" pvc 1 qt for 500' fast dry	
13083	MULE TAPE	<b>Total Pulling Tape installed in conduit by Primary Contractor) TEC # 2007414</b>	





**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 924920**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:  
Tampa Electric

Distribution Services  
Transformers 2000 Sq Ft

**Additional Information:** URD filing for 1501-2500 sq ft low density  
**WR Description:** LDUG 2000 sq ft TRANSFORMERS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$79,554.38	\$0.00	\$79,554.38
OVERHEAD:	\$11,002.38	\$0.00	\$11,002.38
	\$90,556.76	\$0.00	\$90,556.76
LABOR HOURS:	152.8	0	152.8
LABOR COST:	\$6,726.81	\$0.00	\$6,726.81
OVERHEAD:	\$8,913.02	\$0.00	\$8,913.02
	\$15,639.83	\$0.00	\$15,639.83
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$106,196.59	\$0.00	\$106,196.59
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$106,196.59	\$0.00	\$106,196.59

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 924920

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
2	2003816 ARRESTER, UD, 10KV PARKING L/A, 8.40 KVR	\$144.06	\$288.12	Y
2	2003815 ARRESTER, URD, 10KV ELBOW L/A, 8.40 KVRM	\$63.66	\$127.32	Y
4	2003817 ARRESTER, URD, 10KV, BUSHING L/A, 8.40KV	\$192.51	\$770.04	Y
30	2077906 CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$54.00	N
60	2078000 CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$138.60	N
4	2077931 CONNECTOR, VICE CU #2 STR	\$2.38	\$9.52	N
90	2077939 COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$430.20	N
30	2001315 PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$103.25	\$3,097.50	N
0	2001316 PAD, CONCRETE 44" X 52" X 4" 75-250KVA T	\$115.55	\$0.00	N
30	2007395 PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$689.10	N
30	2007489 REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$83.10	N
120	2077980 ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$1,646.40	N
60	2004031 STUD, GALVANIZED, 11 THREAD PER INCH ALL	\$2.47	\$148.20	N
90	2004904 TERMINAL, SLIP FIT AL 5/8 IN 8-POS #2-50	\$17.94	\$1,614.60	N
0	2004948 TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$7.54	\$0.00	N
0	2004954 TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$16.58	\$0.00	N
0	2004950 TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8	\$8.28	\$0.00	N
6	2001518 TX,PM,LP,1P,25 kVA,240/120,FR3,SS	\$2,001.00	\$12,006.00	Y
8	2001519 TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS	\$2,108.00	\$16,864.00	Y
16	2001520 TX,PM,LP,1P,50 kVA,240/120,FR3,SS	\$2,592.00	\$41,472.00	Y
0	2001521 TX,PM,LP,1P,75 kVA,240/120,FR3,SS	\$3,044.00	\$0.00	Y
180	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$113.40	N
6	2078011 WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$2.28	N
		<b>Total</b>	<b>\$79,554.38</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 924957**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
Term Poles - low density 2000 sq ft

**Additional Information:** Low density URD filing - 2000 sq ft homes

**WR Description:** LDUG 2000 sq ft TAKEOFFS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$1,439.19	\$0.00	\$1,439.19
OVERHEAD:	\$199.05	\$0.00	\$199.05
	\$1,638.24	\$0.00	\$1,638.24
LABOR HOURS:	22.62	0	22.62
LABOR COST:	\$995.03	\$0.00	\$995.03
OVERHEAD:	\$1,318.42	\$0.00	\$1,318.42
	\$2,313.45	\$0.00	\$2,313.45
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$3,951.69	\$0.00	\$3,951.69
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$3,951.69	\$0.00	\$3,951.69

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 924957

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
4	2003651 ARRESTER, LIGHTNING DISTRIBUTION CLASS 8	\$41.28	\$165.12	Y
4	2077754 BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$4.16	N
4	2131366 BRACKET, FG, 1 PH, 1 POS, 18"	\$30.03	\$120.12	N
4	2077906 CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$7.20	N
4	2077911 CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$22.92	N
160	2078012 CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$134.40	N
12	2004187 CONDUCTOR,BARE,#2 CU,7-STR,SOFT-DRAWN	\$0.98	\$11.76	N
4	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$2.64	N
8	2077930 CONNECTOR, VICE CU #4 STR	\$1.91	\$15.28	N
15	2077939 COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$71.70	N
4	2003846 CUTOFF, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$282.96	Y
4	2077793 FUSE LINK, 80A UNVRS 100A CUTOFF 23" OA	\$6.67	\$26.68	N
4	2077822 KIT, ATTACHMENT, FOR ATTACHING "FLYING"	\$63.00	\$252.00	N
8	2077965 MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$13.92	N
16	2077980 ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$219.52	N
4	2077789 SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$1.08	N
40	2077997 STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$10.80	N
4	2077828 STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$68.76	N
4	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$0.96	N
4	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$2.65	N
12	2078011 WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$4.56	N
		<b>Total</b>	<b>\$1,439.19</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 925017**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
Primary conduit 2000 Sq Ft

**Additional Information:** Low density 2000 sq ft URD filing  
**WR Description:** LDUG 2000 sq ft PRIMARY CONDUIT

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$22,475.04	\$0.00	\$22,475.04
OVERHEAD:	\$3,108.30	\$0.00	\$3,108.30
	\$25,583.34	\$0.00	\$25,583.34
LABOR HOURS:	223.84	0	223.84
LABOR COST:	\$9,853.36	\$0.00	\$9,853.36
OVERHEAD:	\$13,055.70	\$0.00	\$13,055.70
	\$22,909.06	\$0.00	\$22,909.06
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$48,492.40	\$0.00	\$48,492.40
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$48,492.40	\$0.00	\$48,492.40

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925017

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
33	2007227 CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$205.26	N
40	2004389 CONDUIT, GALVANIZED 2 IN 10 FT WITH COUP	\$6.78	\$271.20	Y
16156	2004488 CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$16,640.68	Y
178	2004507 COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$106.80	N
88	2004395 ELBOW, 2" 90 DEGREE ,GALVANIZED, 24" MIN	\$34.29	\$3,017.52	N
1	2004394 ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	\$26.25	\$26.25	N
3	2004719 HANDHOLE, SPLICING SINGLE PHASE PRIMARY	\$554.21	\$1,662.63	Y
18157	2007414 TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$544.70	N
	<b>Total</b>		<b>\$22,475.04</b>	



**Estimate Summary**  
Design Number 1

Contact Name:

Distribution Services  
Primary cable - 2000 Sq Ft

Printed Date: 3/11/2021

District: CSA

**WR No. 925022**

Date Sched: 4/1/21

Date Required: 4/21/21

**Additional Information:** URD Low Density 2000 PSC filing  
**WR Description:** LDUG 2000 sq ft PRIMARY CABLE

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$40,010.51	\$0.00	\$40,010.51
OVERHEAD:	\$5,533.47	\$0.00	\$5,533.47
	\$45,543.98	\$0.00	\$45,543.98
LABOR HOURS:	249.02	0	249.02
LABOR COST:	\$10,961.75	\$0.00	\$10,961.75
OVERHEAD:	\$14,524.30	\$0.00	\$14,524.30
	\$25,486.05	\$0.00	\$25,486.05
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$71,030.03	\$0.00	\$71,030.03
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$71,030.03	\$0.00	\$71,030.03

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925022

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
0	2004577 ANCHOR, LEAD EXPANSION, MEDIUM DUTY, SIZ	\$0.66	\$0.00	N
0	2003157 BOLT, 1/2" - 13 X 1-1/2" 18-8 SS HEX HEA	\$2.59	\$0.00	N
0	2003167 BOLT, MACHINE GALV HEX HEAD 5/8 X 1-1/4"	\$0.18	\$0.00	N
17554	2004343 CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	\$2.08	\$33,192.64	Y
4	2004514 CAP, CONDUIT 2"	\$12.21	\$48.84	N
4	2004453 CAP, END CABLE 600 V CABLE RANGE .940 -	\$1.96	\$7.84	N
4	2003752 CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO	\$7.92	\$31.68	N
0	2077906 CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$0.00	N
80	2004488 CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$82.40	Y
8	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$5.28	N
0	2005009 CONNECTOR, LDBRK 8.3/14.4KV 200A 3POS	\$108.70	\$0.00	N
77	2077931 CONNECTOR, VICE CU #2 STR	\$2.38	\$183.26	N
0	2077939 COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$0.00	N
0	2004982 ENCLOSURE, 200A AL SWITCH MOD/1 PH DUMMY	\$1,122.04	\$0.00	Y
61	2004642 KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0	\$9.46	\$577.06	N
0	2001315 PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$103.25	\$0.00	N
0	2007394 PADLOCK, GREEN, TESS, BRASS BODY, WR2	\$21.24	\$0.00	N
0	2007489 REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$0.00	N
0	2077980 ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$0.00	N
32	2004403 STRAP, GALV 2 IN 2 HOLE	\$0.28	\$8.96	N
61	2004883 TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	\$37.76	\$2,303.36	Y
4	2004634 TERMINATOR, POTHEAD, 1/0 TO 4/0, STEM	\$61.22	\$244.88	Y
0	2078005 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8	\$0.23	\$0.00	N
0	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$0.00	N
8	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$5.04	N
		<b>Total</b>	<b>\$40,010.50</b>	





**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925024**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
Sec Cable and Handholes 2000 sq ft

**Additional Information:** URD low density 2000 homes - PSC filing

**WR Description:** LDUG 2000 sq ft SECONDARY CABLE

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$10,194.86	\$0.00	\$10,194.86
OVERHEAD:	\$1,409.95	\$0.00	\$1,409.95
	\$11,604.81	\$0.00	\$11,604.81
LABOR HOURS:	161.28	0	161.28
LABOR COST:	\$7,099.38	\$0.00	\$7,099.38
OVERHEAD:	\$9,406.70	\$0.00	\$9,406.70
	\$16,506.08	\$0.00	\$16,506.08
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$28,110.89	\$0.00	\$28,110.89
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$28,110.89	\$0.00	\$28,110.89

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925024

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
0 2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.01	\$0.00	Y
2605 2004354	CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW	\$1.39	\$3,621.23	Y
0 2004356	CABLE, XHHW-2,AL,UG,600V,2/C,500 MCM, 37	\$4.33	\$0.00	Y
0 2005021	CONNECTOR, 600V URD, 4 POSITION, CONDUCT	\$16.25	\$0.00	N
0 2005022	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$14.92	\$0.00	N
69 2005024	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$23.41	\$1,615.29	N
0 2005025	CONNECTOR, 600V, URD, 8 POSITION, CONDUCT	\$30.35	\$0.00	N
0 2005020	CONNECTOR, URD 600 V 4 POSITION #10-350M	\$10.92	\$0.00	N
23 2000241	DECAL,WARNING,NOTICE,CLEARANCE,10" X 7"	\$3.56	\$81.88	N
23 2004714	HANDHOLE, ABOVE GRADE, LARGE DOME	\$186.22	\$4,283.06	N
23 2005212	MARKER, CURB LEXAN .040 THICK, ROUND 2.5	\$2.83	\$65.09	N
23 2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$528.31	N
<b>Total</b>			<b>\$10,194.86</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 925026**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
Secondary conduit-2000 sq ft

**Additional Information:** URD low density 2000 sq ft PSC filing  
**WR Description:** LDUG 2000 sq ft SECONDARY CONDUIT

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$6,602.28	\$0.00	\$6,602.28
OVERHEAD:	\$913.09	\$0.00	\$913.09
	\$7,515.37	\$0.00	\$7,515.37
LABOR HOURS:	63.08	0	63.08
LABOR COST:	\$2,776.65	\$0.00	\$2,776.65
OVERHEAD:	\$3,679.04	\$0.00	\$3,679.04
	\$6,455.69	\$0.00	\$6,455.69
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$13,971.06	\$0.00	\$13,971.06
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$13,971.06	\$0.00	\$13,971.06

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925026

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
1	2007227 CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$6.22	N
8	2007228 CEMENT, PVC GRAY MEDIUM DRY QUART W/DAUB	\$7.27	\$58.16	N
0	2004488 CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$0.00	Y
340	2004517 CONDUIT, PVC P & C 3 IN 20 FT	\$1.70	\$578.00	Y
1871	2004529 CONDUIT, PVC, 4" X 20', DB-60-TC-6	\$2.78	\$5,201.38	Y
0	2004507 COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$0.00	N
8	2004521 COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$2.95	\$23.60	N
84	2004535 COUPLING, PVC 4 IN SCH 40 TEMS 13.01	\$4.28	\$359.52	N
0	2004511 ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$0.00	N
0	2004427 ELBOW, GALV 4 IN 45 DEG THD 16 IN RAD	\$45.37	\$0.00	N
0	2004510 ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH	\$0.94	\$0.00	N
0	2004523 ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40	\$3.62	\$0.00	N
4	2004524 ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$18.08	N
42	2004538 ELBOW, PVC 4", 90 DEG., 16" RADIUS, SCHE	\$6.68	\$280.56	N
2559	2007414 TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$76.76	N
		<b>Total</b>	<b>\$6,602.28</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925028**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
Service Cable-2000 sq ft

**Additional Information:** Low density URD filing 2000 sq ft  
**WR Description:** LDUG 2000 sq ft SERVICE CABLE

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$23,370.30	\$0.00	\$23,370.30
OVERHEAD:	\$3,232.12	\$0.00	\$3,232.12
	\$26,602.42	\$0.00	\$26,602.42
LABOR HOURS:	1.94	0	1.94
LABOR COST:	\$85.46	\$0.00	\$85.46
OVERHEAD:	\$113.22	\$0.00	\$113.22
	\$198.68	\$0.00	\$198.68
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$26,801.10	\$0.00	\$26,801.10
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$26,801.10	\$0.00	\$26,801.10

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925028

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
17795 2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.01	\$16,338.77	Y
3883 2004354	CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW	\$1.39	\$4,498.04	Y
<b>Total</b>			<b>\$23,370.30</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 925029**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
Meter Labor- 2000 sq ft

**Additional Information:** Low density URD filing 2000 sq ft homes

**WR Description:** LDUG 2000 sq ft METERS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	42.07	0	42.07
LABOR COST:	\$1,851.92	\$0.00	\$1,851.92
OVERHEAD:	\$2,453.80	\$0.00	\$2,453.80
	\$4,305.72	\$0.00	\$4,305.72
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$4,305.72	\$0.00	\$4,305.72
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$4,305.72	\$0.00	\$4,305.72

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 925030**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
Service Conduit- 2000 sq ft

**Additional Information:** Low density URD filing for 2000 sq ft homes

**WR Description:** LDUG 2000 sq ft SERVICE CONDUIT

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$27,272.06	\$0.00	\$27,272.06
OVERHEAD:	\$3,771.72	\$0.00	\$3,771.72
	\$31,043.78	\$0.00	\$31,043.78
LABOR HOURS:	767.62	0	767.62
LABOR COST:	\$33,791.97	\$0.00	\$33,791.97
OVERHEAD:	\$44,774.34	\$0.00	\$44,774.34
	\$78,566.31	\$0.00	\$78,566.31
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$109,610.09	\$0.00	\$109,610.09
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$109,610.09	\$0.00	\$109,610.09

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).





# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

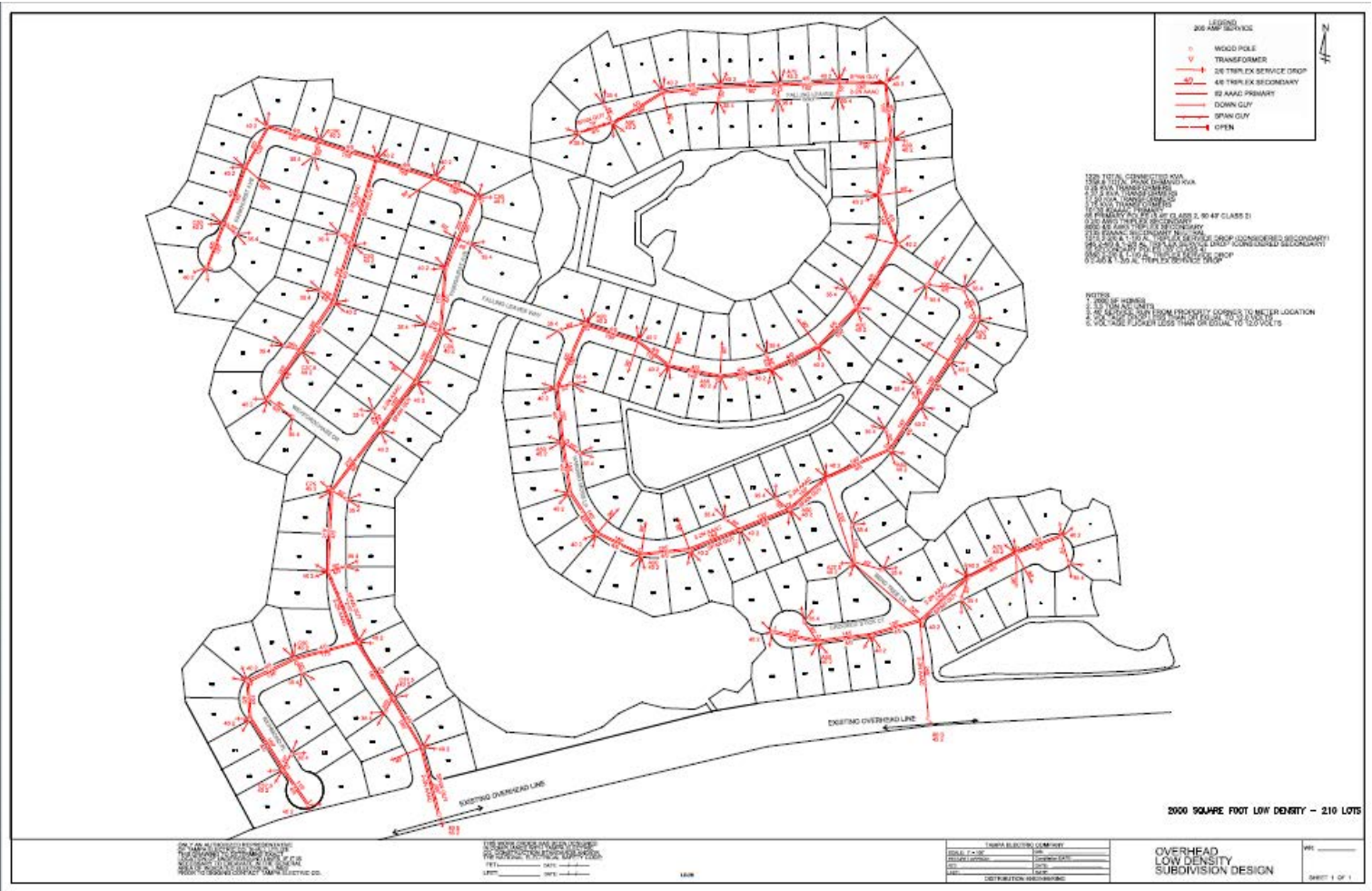
Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925030

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?	
<b>INSTALL</b>					
23	2004492	ADAPTER,COND PVC FMLE 2" SCH 40 SOCXFPT	\$0.57	\$13.11	N
188	2004493	ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR	\$0.40	\$75.20	N
37	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$230.14	N
23	2004409	COND,SRVC RISER,TYPE IIPVC,40,2.5"X7'	\$12.00	\$276.00	N
15237	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$15,694.11	Y
2070	2004491	CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE	\$1.13	\$2,339.10	N
23	2004518	CONDUIT, PVC 3 IN X 250 FT ROLL FLEXIBL	\$2.16	\$49.68	N
3121	2004517	CONDUIT, PVC P & C 3 IN 20 FT	\$1.70	\$5,305.70	Y
188	2004401	CONDUIT, SERVICE RISER, PVC, 2"	\$4.92	\$924.96	N
754	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$452.40	N
138	2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$2.95	\$407.10	N
504	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$635.04	N
0	2004510	ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH	\$0.94	\$0.00	N
0	2004523	ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40	\$3.62	\$0.00	N
69	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$311.88	N
188	2004396	NUT, LOCK GALV 2 IN	\$0.54	\$101.52	N
23	2004408	NUT, LOCK GALV 2-1/2 IN	\$1.06	\$24.38	N
14391	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$431.74	N
<b>Total</b>			<b>\$27,272.06</b>		



TAMPA ELECTRIC COMPANY  
 DOCKET NO. 20210064-EI  
 STAFF'S THIRD DATA REQUEST  
 REQUEST NO. 3a

**OH Construction Cost Data Summary  
Low Density (210-Lot) OH Subdivision Costs**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	
Line #	Work Type/WR #	Description	(C + M) Material and Handling	Material	(F + L) Total Labor Plus Vehicles	(G + H + I) Total Labor	Base Labor	(G x J x TLF) TEC Labor Overheads	(G x K x CLF) Contract Labor Overheads	TEC Work %	Contractor Work %	Vehicle	(D x MHR) Material Handling	(C+E) Total
1	Transformers													
2	925037	Install & Ground Transformers	49,232.37	\$43,871.30	18,530.21	16,572.33	9,649.44	6,148.62	774.27	60%	40%	\$1,957.87	5,361.07	67,762.58
3														
4	Primary													
5	925038	Install Primary Line Includes Grounding Primary Takeoffs	3,780.00	\$3,368.38	9,895.97	8,850.38	5,153.24	3,283.64	413.50	60%	40%	\$1,045.59	411.62	13,675.97
6														
7	Poles													
8	925039	Install Poles and Guy Stubs Includes Haul Poles Out	35,516.15	\$31,648.68	58,469.09	52,291.34	30,447.26	19,400.99	2,443.09	60%	40%	\$6,177.75	3,867.47	93,985.24
9														
10	Secondary													
11	925040	Install Secondary Cable	28,563.08	\$25,452.75	33,643.82	30,089.07	17,519.72	11,163.57	1,405.78	60%	40%	\$3,554.75	3,110.33	62,206.90
12														
13	Services													
14	926547	Install Service Cable & Meters	31,785.04	\$28,323.86	16,788.28	15,014.46	8,742.35	5,570.63	701.49	60%	40%	\$1,773.82	3,461.18	48,573.32
15														
16														
17	Engineering	Design/Inspection/Coordination	-	-	13,788.39	13,788.39	-	-	-	100%	0%	-	-	13,788.39
18														
19	Tree Trim		-	-	-	-	-	-	-			-	-	-
20														
21	Totals (Sum of lines 2, 5, 8, 11, 14, 17, and 19)		\$ 148,876.63	\$ 132,664.97	\$ 151,115.76	\$ 136,605.98	\$ 71,512.01	\$ 45,567.45	\$ 5,738.12			\$ 14,509.79	\$ 16,211.66	\$ 299,992.39
22	Cost per Lot (line 21 / 210 lots)		\$ 708.94		\$ 719.60									\$ 1,428.54

Adjustment Factors	
TEC Operations Labor Overhead Factor	TLF = 1.062
Contractor Labor Overhead Factor	CLF = 0.2006
Current year material handling charge rate	MHR = 0.1222

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**Low Density - 210 Lots - Overhead Material List**

This worksheet lists the totals for major materials to be listed on the associated work request print as requested by the PSC.

**1225.0 Total Connected KVA**  
**1258.9 Total peak demand KVA**  
0 25 kVA Transformers  
4 37.5 kVA Transformers  
17 50 kVA Transformers  
3 75 kVA Transformers  
**10130 #2AAAC Primary**  
65 Primary Poles  
0 2/0 AWG Triplex Secondary  
8000 4/0 AWG Triplex Secondary  
2135 #2AAAC Secondary Neutral  
1515 2-2/0 & 1-1/0 AL Triplex Service Drop (considered secondary)  
545 2-4/0 & 1-2/0 AL Triplex Service Drop (considered secondary)  
35 Secondary Poles  
9360 2-2/0 & 1-1/0 AL Triplex Service Drop  
0 2-4/0 & 1-2/0 AL Triplex Service Drop

Summary of assemblies (CU's) for Low Density 2000 sq ft Overhead Design - March 2021

Work Request #1	925037 - Transformers (enter these Construction Units into WorkPro)							
Assemblies ==>>>	25 KVA	37.5 KVA	50 KVA	75 KVA	Stirrup	Spacer	Grounding	
	PKT11W3F	PKT11W4F	PKT11W5F	PKT11W6F	ALSTRP1/0	SEWC	GRDMEG1/2	
Total Quantities ==>	0	4	17	3	24	24	24	

Work Request #2	925038 - Primary							
Assemblies ==>>>	#2 AAAC	1st span	Add'l	Fused cutout	Deadend & tap	2 way lateral	Fuse	Grounding
	WIOPA	WIO1F	WIO1A	PKP102WB3A	PKP101WA3A	PKP105WA4A	FLOH103	GRDMEG1/2
Total Quantities ==>	10130	19	43	2	7	2	2	5

Work Request #3	925039 - Poles and Guys												
Should be ==>>>>	Pole haul	1ø tangent	1ø tangent	1ø Deadend	1ø angle <20	1ø angle <20	1ø angle >20	1ø angle >20	3 ø	Down guys	Pole hardware	Guy wire	Down guys
Assemblies ==>>>>	POLE_HAUL	STP101_TAN_40C2	STP101_TAN_45C2	STP401_DE_40C2	STP101_ANG_40C2	STP101_ANG_45C2	STP301_RC_40C2	STP301_RC_45C2	STP104_TAN_45C2	PKG12W2H	PKG31W1H	GUYSTR3/8	PKG11W1H
Total Quantities ==>	65	12	1	11	20	1	17	1	2	56	2	70	0

Work Request #4	925040 - Secondary - From Secondary&Neutral worksheet										
Assemblies ==>>>	2ø	4ø	#2 Neutral	1st span	Add'l	1st span	Add'l	Eyebolt	Eyemit	DE+Bolt	CABLEOPEN
	WIO3SB	WIO3SC	WIOPA	WIO1F	WIO1A	WIOCF	WIOCA	SEW1DEN	SEG1DEN	PKS11W	
Total Quantities ==>	0	8000	2135	9	2	33	20	4	12	30	12

More of Work Request #4	925040 - Secondary continued - From Secondary&Neutral worksheet and SlackSecondary (service cable) & Secondary Poles worksheet										
Assemblies ==>>>	Pole hardware	Guy wire	POLE_HAUL	35' Class 4	35' Class 6	30' Class 6	Down guy				
	PKG31W1H	GUYSTR3/8		STS11C	STS11B	STS11A	PKG11W1H	PKS21G	CA2/0TPX	CA4/0TPX	SVLABOR
Total Quantities ==>	16	1390	35	35	0	0	0	34	1515	545	34

Work Request #5	926547 - Services			
Assemblies ==>>>	CA2/0TPX	CA4/0TPX	SVLABOR	METERLABOR
Total Quantities ==>	9360	0	0	210

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**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 925037**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
LDOH 2000 sq ft Transformers

**Additional Information:** Used for Low Density 2000 sq ft 3.5 ton ac

**WR Description:** LDOH 2000 sq ft TRANSFORMERS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$43,871.30	\$0.00	\$43,871.30
OVERHEAD:	\$6,067.39	\$0.00	\$6,067.39
	\$49,938.69	\$0.00	\$49,938.69
LABOR HOURS:	219.24	0	219.24
LABOR COST:	\$9,649.44	\$0.00	\$9,649.44
OVERHEAD:	\$12,785.56	\$0.00	\$12,785.56
	\$22,435.00	\$0.00	\$22,435.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$72,373.69	\$0.00	\$72,373.69
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$72,373.69	\$0.00	\$72,373.69

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925037

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?	
<b>INSTALL</b>					
24	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$952.32	Y
24	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$24.96	N
48	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$55.68	N
24	2003690	BRACKET, CUTOUT, ARRESTER & POTHEAD DWG	\$7.22	\$173.28	N
24	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$249.84	N
312	2004197	CABLE, HANDCOIL, COPPER, 600V, 2/0 AWG,	\$2.32	\$723.84	N
36	2004199	CABLE, HANDCOIL, COPPER, 600V, 4/0 AWG,	\$3.75	\$135.00	N
24	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$43.20	N
24	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$137.52	N
48	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$110.88	N
960	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$806.40	N
6	2003528	CONNECTOR, 2-BOLT AL MAIN 336-500MCM TAP	\$25.78	\$154.68	N
63	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$33.39	N
24	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$15.84	N
3	2077845	CONNECTOR, COMPRESSION H-BLOCK ACSR 4/0	\$0.68	\$2.04	N
96	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$183.36	N
72	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$344.16	N
42	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$16.38	N
24	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$1,697.76	Y
17	2077806	FUSE LINK, 10A UNVRS 100A CUTOUT 23" OA	\$3.91	\$66.47	N
3	2077807	FUSE LINK, 15A UNVRS 100A CUTOUT 23" OA	\$3.93	\$11.79	N
4	2077805	FUSE LINK, 7A UNVRS 100A CUTOUT 23" OAL	\$3.89	\$15.56	N
48	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$83.52	N
24	2007368	PROTECTOR, WILD LIFE, SLIP-ON TYPE	\$5.35	\$128.40	N
96	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$1,317.12	N
24	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$63.60	N
24	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$6.48	N
24	2077812	SPACER, CABLED SECONDARY	\$6.79	\$162.96	N
240	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$64.80	N
24	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$10.18	\$244.32	N
4	2001368	TX,OH,37.5 kVA,7.62/13.2Y,120/240,FR3	\$1,253.83	\$5,015.32	Y
17	2001369	TX,OH,50 kVA,7.62/13.2Y,120/240,FR3	\$1,463.60	\$24,881.20	Y
3	2001370	TX,OH,75 kVA,7.62/13.2Y,120/240,FR3	\$1,924.56	\$5,773.68	Y
120	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$28.80	N
72	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$7.92	N
76	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$47.63	N
240	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$91.20	N
<b>Total</b>			<b>\$43,871.30</b>		



**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 925038**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
LDOH 2000 sq ft Primary

**Additional Information:** Used for 2000 square foot design

**WR Description:** LDOH 2000 sq ft PRIMARY

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$3,368.38	\$0.00	\$3,368.38
OVERHEAD:	\$465.86	\$0.00	\$465.86
	\$3,834.24	\$0.00	\$3,834.24
LABOR HOURS:	117.08	0	117.08
LABOR COST:	\$5,153.24	\$0.00	\$5,153.24
OVERHEAD:	\$6,828.03	\$0.00	\$6,828.03
	\$11,981.27	\$0.00	\$11,981.27
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$15,815.51	\$0.00	\$15,815.51
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$15,815.51	\$0.00	\$15,815.51

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).





# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925038

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
5	2003646 ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$198.40	Y
9	2077739 BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$28.08	N
7	2077754 BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$7.28	N
2	2077780 BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$4.16	\$8.32	N
5	2003681 BRACKET, "L", LIGHTNING ARRESTER 10 KV	\$7.95	\$39.75	N
2	2003685 BRACKET, FIBERGLASS STANDOFF VERTICAL 16"	\$25.98	\$51.96	N
2	2004660 BRACKET, "L" 5-5/8" IN LENGTH FOR MTG CUTO	\$10.41	\$20.82	N
18	2077818 CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$164.16	N
5	2077906 CLAMP, GROUND ROD, F/U/W 1/2" ROD	\$1.80	\$9.00	N
16	2077911 CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$91.68	N
10637	2004331 CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.15	\$1,595.48	Y
200	2078012 CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$168.00	N
22	2077838 CONNECTOR, COMPRESSION H-BLOCK ACSR #2-1	\$0.41	\$9.02	N
16	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$10.56	N
10	2077930 CONNECTOR, VICE CU #4 STR	\$1.91	\$19.10	N
15	2077939 COUPLER, GROUND ROD, F/U/W 1/2" ROD	\$4.78	\$71.70	N
2	2003846 CUTOFF, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$141.48	Y
4	2077765 DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$2.35	\$9.40	N
2	2077794 FUSE LINK, 103A UNVRS 100A CUTOFF 23" O	\$24.29	\$48.58	N
2	2077954 INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$7.50	N
2	2077952 INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.21	\$2.42	N
9	2077959 INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$106.74	N
10	2077965 MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$17.40	N
9	2077783 NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$13.59	N
20	2077980 ROD, GROUND, CU BONDED, 1/2" X 10', THREADLESS	\$13.72	\$274.40	N
7	2077789 SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$1.89	N
50	2077997 STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$13.50	N
2	2077828 STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$34.38	N
14	2077826 STIRRUP, AL BODY & CU BAIL 2-4/0	\$10.18	\$142.52	N
2	2003613 TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$2.87	\$5.74	N
22	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$5.28	N
4	2078014 WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$0.44	N
67	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$42.21	N
20	2078011 WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$7.60	N
		<b>Total</b>	<b>\$3,368.37</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 925039**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
LDOH 2000 sq ft - POLES

**Additional Information:** Used for 2000 square foot design

**WR Description:** LDOH 2000 sq ft POLES

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$31,648.68	\$0.00	\$31,648.68
OVERHEAD:	\$4,377.02	\$0.00	\$4,377.02
	\$36,025.70	\$0.00	\$36,025.70
LABOR HOURS:	691.7	0	691.7
LABOR COST:	\$30,447.26	\$0.00	\$30,447.26
OVERHEAD:	\$40,342.60	\$0.00	\$40,342.60
	\$70,789.86	\$0.00	\$70,789.86
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$106,815.56	\$0.00	\$106,815.56
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$106,815.56	\$0.00	\$106,815.56

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925039

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
56	2003632 ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$2,696.40	N
37	2077739 BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$115.44	N
114	2077764 BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$274.74	N
68	2077754 BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$70.72	N
40	2077753 BOLT, MACHINE 5/8" X 8", GALV.	\$1.05	\$42.00	N
2	2077780 BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$4.16	\$8.32	N
44	2077755 BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$51.04	N
4	2003686 BRACKET, FIBERGLASS STANDOFF VERTICAL24"	\$48.88	\$195.52	N
18	2077818 CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$164.16	N
19	2003508 CLAMP, SUSPENSION AL ANGLE RANGE .50 TO	\$13.95	\$265.05	N
40	2077924 CLEVIS, STEEL LESS INSULATOR 5/8 IN PIN	\$9.38	\$375.20	N
315	2078012 CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$264.60	N
60	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$39.60	N
63	2077930 CONNECTOR, VICE CU #4 STR	\$1.91	\$120.33	N
4	2077765 DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$2.35	\$9.40	N
56	2003636 EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$2,830.24	N
36	2077901 FIBERGLASS RIDGE-PIN	\$28.87	\$1,039.32	N
226	2077949 GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$513.02	N
37	2077862 GUARD, LINE #2 ACSR & AAAC STR 6/1, 7	\$1.95	\$72.15	N
114	2077951 HOOK, GUY	\$2.73	\$311.22	N
40	2077954 INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$150.00	N
2	2077952 INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.21	\$2.42	N
58	2077961 INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$854.34	N
37	2077959 INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$438.82	N
56	2077979 MARKER, GUY WIRE PLASTIC 8" IN LENGTH CO	\$4.43	\$248.08	N
60	2002857 POLE, WOOD, 40FT CLASS 2, CCA TREATED	\$272.68	\$16,360.80	Y
5	2002858 POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	\$323.31	\$1,616.55	Y
31	2077767 ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$82.15	N
114	2077790 SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$53.58	N
71	2077812 SPACER, CABLED SECONDARY	\$6.79	\$482.09	N
21	2003612 TIE, PREFORMED SIDE TIE #2 ACSR OR #2 A	\$2.64	\$55.44	N
19	2003613 TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$2.87	\$54.53	N
114	2078002 WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$139.08	N
221	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$53.04	N
217	2078014 WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$23.87	N
4774	2005879 WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$1,575.42	N
		<b>Total</b>	<b>\$31,648.68</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 925040**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
LDOH 2000 sq ft Secondary

**Additional Information:** Used for 2000 sq ft 3.5 TON AC design

**WR Description:** LDOH 2000 sq ft SECONDARY

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$25,452.75	\$0.00	\$25,452.75
OVERHEAD:	\$3,520.12	\$0.00	\$3,520.12
	\$28,972.87	\$0.00	\$28,972.87
LABOR HOURS:	397.97	0	397.97
LABOR COST:	\$17,519.72	\$0.00	\$17,519.72
OVERHEAD:	\$23,213.62	\$0.00	\$23,213.62
	\$40,733.34	\$0.00	\$40,733.34
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$69,706.21	\$0.00	\$69,706.21
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$69,706.21	\$0.00	\$69,706.21

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 925040

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
8	2003632 ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$385.20	N
34	2077739 BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$106.08	N
24	2077764 BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$57.84	N
8	2077755 BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$9.28	N
8400	2004339 CABLE, OVERHEAD SECONDARY, TRIPLEX, 4/0	\$1.72	\$14,448.00	Y
1591	2004364 CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$0.96	\$1,527.17	Y
627	2004366 CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$1.42	\$890.06	Y
64	2077818 CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$583.68	N
2242	2004331 CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.15	\$336.27	Y
192	2077839 CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$101.76	N
30	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$19.80	N
30	2077931 CONNECTOR, VICE CU #2 STR	\$2.38	\$71.40	N
128	2003516 COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$49.92	N
8	2003636 EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$404.32	N
32	2077949 GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$72.64	N
24	2077951 HOOK, GUY	\$2.73	\$65.52	N
16	2077961 INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$235.68	N
8	2077979 MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$4.43	\$35.44	N
46	2077783 NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$69.46	N
0	2002836 POLE, WOOD 30 FT CLASS 6 CCA TREATED NO	\$82.69	\$0.00	Y
35	2002842 POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	\$141.93	\$4,967.55	Y
35	2077767 ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$92.75	N
24	2077790 SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$11.28	N
35	2077812 SPACER, CABLED SECONDARY	\$6.79	\$237.65	N
24	2078002 WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$29.28	N
108	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$25.92	N
105	2078014 WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$11.55	N
60	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$37.80	N
1726	2005879 WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$569.58	N
		<b>Total</b>	<b>\$25,452.75</b>	



**Estimate Summary**  
 Design Number 1

Printed Date: 3/10/2021

District: CSA

**WR No. 926547**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
 LDOH 2000 sq ft SERVICE

**Additional Information:** Used for 2000 square foot design

**WR Description:** LDOH 2000 sq ft SERVICE

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$9,449.06	\$0.00	\$9,449.06
OVERHEAD:	\$1,306.80	\$0.00	\$1,306.80
	\$10,755.86	\$0.00	\$10,755.86
LABOR HOURS:	198.6	0	198.6
LABOR COST:	\$8,742.35	\$0.00	\$8,742.35
OVERHEAD:	\$11,583.63	\$0.00	\$11,583.63
	\$20,325.98	\$0.00	\$20,325.98
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$31,081.84	\$0.00	\$31,081.84
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$31,081.84	\$0.00	\$31,081.84

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/10/2021  
Dist: CSA

WR No. 926547

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
9828 2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$0.96	\$9,434.88	Y
0 2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$1.42	\$0.00	Y
2 2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$7.09	\$14.18	N
<b>Total</b>			<b>\$9,449.06</b>	

4/2021

**HIGH DENSITY MODEL**  
(176 lots)

**Underground Costs (per lot)**

ITEM	MATERIAL		LABOR		TOTAL		EXPLANATION OF % CHANGE
	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	
SERVICE	288.33	66.47%	260.66	46.99%	548.99	56.62%	Underground material up, contractor rates up
PRIMARY	138.27	29.97%	61.14	18.53%	199.41	26.23%	Underground material up, Cable labor re-evaluation caused labor increase
SECONDARY	78.14	99.59%	70.32	26.07%	148.46	56.39%	Underground material up, Cable labor re-evaluation caused labor increase
TRANSFORMERS	267.25	7.38%	68.77	11.21%	336.02	8.14%	Underground material up, TEC & Contractor overhead down
TRENCHING							
PRIMARY & SECONDARY			175.02	-11.71%	175.02	-11.71%	Contractor rates down
SERVICES			317.91	-7.46%	317.91	-7.46%	Contractor rates down
SUB-TOTAL	771.99	36.00%	953.82	7.38%	1,725.81	18.54%	
STORES HANDLING	94.34	18.89%			94.34	18.89%	Higher material costs produces higher handling costs
SUB-TOTAL	866.33	33.90%	953.82	7.38%	1,820.15	18.56%	
ENGINEERING			61.28	0.00%	61.28	0.00%	
<b>TOTAL</b>	<b>866.33</b>	<b>33.90%</b>	<b>1,015.10</b>	<b>6.90%</b>	<b>1,881.43</b>	<b>17.84%</b>	
					<b>567.51</b>	<b>Net Present Value of the Life Cycle Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue</b>	
Total with NPV Factor					<b>2,448.94</b>	<b>Total Including NPV of Operational Cost</b>	

**Overhead Costs (per lot)**

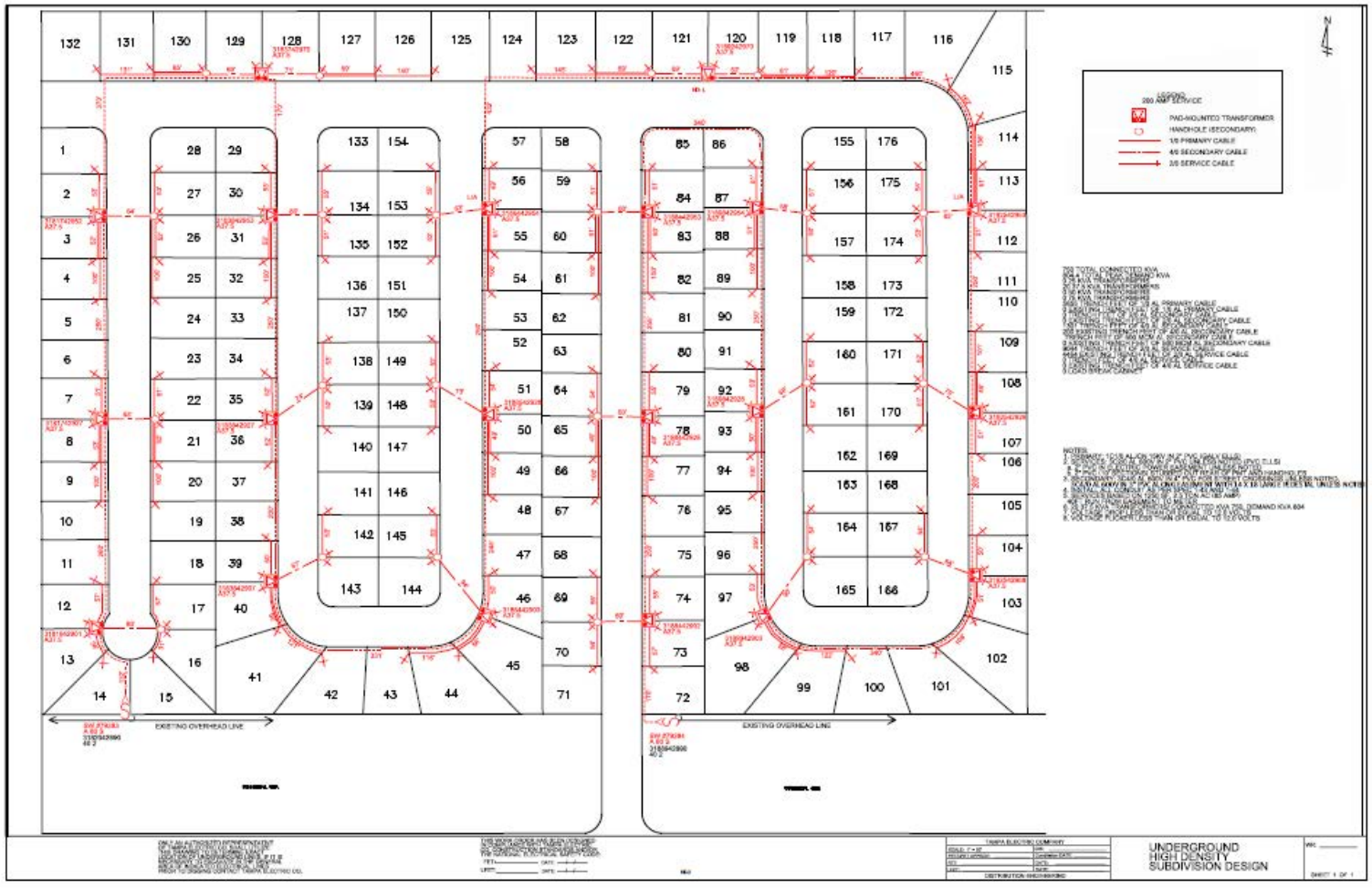
ITEM	MATERIAL		LABOR		TOTAL		EXPLANATION OF % CHANGE
	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	
SERVICE	142.24	70.76%	91.83	6.98%	234.07	38.39%	Material up, Labor up
PRIMARY	12.88	19.59%	35.17	17.70%	48.05	18.20%	Material up, Labor up
SECONDARY	64.40	10.81%	106.36	-1.55%	170.76	2.77%	Material up, Labor down
INITIAL TREE TRIM			0.00		0.00		
POLES	113.97	8.83%	205.55	10.04%	319.52	9.61%	Material up, Labor up
TRANSFORMERS	157.68	3.30%	70.27	11.95%	227.95	5.82%	Material up, Labor up
SUB-TOTAL	491.17	19.93%	509.18	7.58%	1,000.35	13.31%	
STORES HANDLING	60.02	4.82%			60.02	4.82%	Higher material costs produces higher handling costs
SUB-TOTAL	551.19	18.07%	509.18	7.58%	1,060.37	12.79%	
ENGINEERING			61.28	0.00%	61.28	0.00%	
<b>TOTAL</b>	<b>551.19</b>	<b>18.07%</b>	<b>570.46</b>	<b>6.71%</b>	<b>1,121.65</b>	<b>12.01%</b>	
					<b>1,020.29</b>	<b>Net Present Value of the Life Cycle Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue</b>	
Total with NPV Factor					<b>2,141.94</b>	<b>Total Including NPV of Operational Cost</b>	

**Differential Costs (per lot)**

ITEM	MATERIAL		LABOR		TOTAL	
	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE
<b>Differential (per lot)</b>	<b>315.14</b>	<b>74.92%</b>	<b>444.64</b>	<b>7.15%</b>	<b>759.78</b>	<b>27.66%</b>
<b>NPV amount</b>					<b>-452.78</b>	
<b>Differential' (per lot)</b>					<b>307.00</b>	<b>-144.78%</b>

\* Includes NPV of Operational Cost





TAMPA ELECTRIC COMPANY  
 DOCKET NO. 20210064-EI  
 STAFF'S THIRD DATA REQUEST  
 REQUEST NO. 3a

Revised 3/23/21

**UG Construction Cost Data Summary**  
High Density (176-Lot) UG Subdivision Costs

A	B	C	D	E	F	G	H	I	J	K	L	M	N	
Line #	Work Type/WR #	Description	(D+ M) Material and Handling	Material	(F + L) Total Labor Plus Vehicles	(G + H + I) Total Labor	Base Labor	(G x J x TLF) Operations Labor Overheads	(G x K x CLF) Contract Labor Overheads	TEC Work %	Contractor Work %	Vehicle	(D x MHR) Material Handling	(C+E) Total
1	Transformers													
2	925091	Install Transformer	51,230.95	\$45,652.25	5,902.34	5,278.71	\$3,073.59	1,958.49	246.62	60%	40%	\$623.63	5,578.70	57,133.29
3	925095	Ground Transformer	1,553.57	\$1,384.40	2,747.51	2,457.21	\$1,430.74	911.67	114.80	60%	40%	\$290.30	169.17	4,301.08
4		Contractor Prepare Pad Site	-	-	3,453.17	3,453.17	\$2,876.20	-	576.97	0%	100%	-	-	3,453.17
5			52,784.53	47,036.65	12,103.01	11,189.08	7,380.53	2,870.16	938.39			913.93	5,747.88	64,887.54
6	Primary													
7	925096	Primary Line - OH-UG Takeoffs	683.67	\$609.22	710.03	635.01	\$369.74	235.60	29.67	60%	40%	\$75.02	74.45	1,393.69
8	925097	Ground OH to UG Take-offs	155.36	\$138.44	317.36	283.82	\$165.26	105.30	13.26	60%	40%	\$33.53	16.92	472.71
9	925098	Primary Conduit (Material Only)	9,381.68	\$8,360.08	-	-	-	-	-			-	1,021.60	9,381.68
10	925100	Primary Cable	17,088.65	\$15,227.81	9,733.47	8,705.05	\$5,068.62	3,229.72	406.71	60%	40%	\$1,028.42	1,860.84	26,822.12
11			27,309.35	24,335.55	10,760.86	9,623.88	5,603.62	3,570.63	449.63			1,136.97	2,973.80	38,070.21
12	Secondary													
13	925103	Secondary Cable	9,649.74	\$8,598.95	12,377.13	11,069.38	\$6,445.28	4,106.93	517.17	60%	40%	\$1,307.75	1,050.79	22,026.87
14	925104	Secondary Conduit (Material Only)	5,783.11	\$5,153.37	-	-	-	-	-			-	629.74	5,783.11
15			15,432.85	13,752.32	12,377.13	11,069.38	6,445.28	4,106.93	517.17			1,307.75	1,680.53	27,809.98
16	Service													
17	925106	Service Cable	18,244.13	\$16,257.47	42,893.98	42,893.98	\$35,727.12	-	7,166.86	0%	100%	-	1,986.66	61,138.11
18	925108	Set Meters	17,751.95	\$15,818.88	2,981.50	2,666.48	\$1,552.59	989.31	124.58	60%	40%	\$315.02	1,933.07	20,733.45
19	925110	Service Conduit (Material Only)	20,950.73	\$18,669.34	-	-	-	-	-			-	2,281.39	20,950.73
20			56,946.81	50,745.69	45,875.48	45,560.46	37,279.71	989.31	7,291.44			315.02	6,201.12	102,822.29
21	Trenching													
22	Contractor	Primary Trenching	-	-	17,584.53	17,584.53	\$14,646.45	-	2,938.08	0%	100%	-	-	17,584.53
23	Contractor	Secondary Trenching	-	-	4,372.98	4,372.98	\$3,642.33	-	730.65	0%	100%	-	-	4,372.98
24	TEC	Inspection for Primary	-	-	8,846.62	8,385.42	\$8,385.42	-	-	0%	0%	\$461.20	-	8,846.62
25			-	-	30,804.13	30,342.93	26,674.20	-	3,668.73			461.20	-	30,804.13
26														
27	Contractor	Svc Trenching Pri. Prop	-	-	33,344.02	33,344.02	\$27,772.80	-	5,571.22	0%	100%	-	-	33,344.02
28	Contractor	Svc Trenching Rts-of-Wy	-	-	14,437.70	14,437.70	\$12,025.40	-	2,412.30	0%	100%	-	-	14,437.70
29	TEC	Inspection for Service	-	-	8,169.92	7,744.00	\$7,744.00	-	-	0%	0%	\$425.92	-	8,169.92
30			-	-	55,951.64	55,525.72	47,542.20	-	7,983.52			425.92	-	55,951.64
31														
32	Engineering	Design/Inspection/Coordination	-	-	10,785.62	-	-	-	-			-	-	10,785.62
33														
34	Totals	(Sum of lines 5, 11, 15, 20, 25, 30, and 32)	152,473.55		178,657.87	163,311.45	130,925.54	11,537.03	20,848.89			4,560.79	16,603.34	331,131.42
35	Cost "Per Lot"	(Line 34/ 176 lots)	866.33		1,015.10									1,881.43

Adjustment Factors	
TEC Labor Overhead Factor (excludes engineering)	TLF = 1.062
Contractor Labor Overhead Factor	CLF = 0.2006
Current year material handling charge rate	MHR = 0.1222

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TAMPA ELECTRIC COMPANY  
DOCKET NO. 20210064-EI  
STAFF'S THIRD DATA REQUEST  
REQUEST NO. 3a

**High Density - 176 lot - Contractor Labor - Underground Estimate**

1. Update the contractor labor rates on this page. The numbers to be updated are highlighted in blue.
- 1a. Hover over the red comment symbol in the corner of the cell. That refers to the source of the information.  
The contractor labor rates come from the E.D. Field Construction Department - the Conduit Coordinators - Mike Capparelli, Steve Furry, Jerry Manning, Bill Baxter.
2. Transfer the contractors costs to the HDdifferentialMonth-Year.xls file. The numbers are highlighted in yellow.
- 2a. Hover over the red comment symbol in the corner of the cell that refers to the destination of the contractor cost.
3. In 2006 TEC added pad site preparation cost, a contractor cost.

**Prepare pad site (Primary Contractor Labor Costs)**

	Total	Cost	Pad sites
Pad site preparation	<b>\$2,876.20</b>	<b>\$143.81</b>	20

**Primary Trenching & Conduit (Primary Contractor Labor Costs)**

	Total	Cost	Feet	
	\$11,762.40	<b>\$2.08</b>	5655	Trenching Cost
	\$2,884.05	<b>\$0.51</b>	5655	Conduit Installation - 2"
	\$0.00	<b>\$0.00</b>	5655	Pull-tape Installation (used exact length for labor cost not 5% extra)
Primary Trenching	<b>\$14,646.45</b>			

**Secondary Trenching & Conduit (Primary Contractor Labor Costs)**

	Total	Cost	Feet	
	\$2,706.08	<b>\$2.08</b>	1301	Trenching Cost
	\$0.00	<b>\$0.51</b>	0	Conduit Installation - 2"
	\$149.05	<b>\$0.55</b>	271	Conduit Installation - 3"
	\$787.20	<b>\$0.64</b>	1230	Conduit Installation - 4"
	\$0.00	<b>\$0.00</b>	1501	Pull-tape Installation (used exact length not 5% extra)
Secondary Trenching	<b>\$3,642.33</b>			

**Service Trenching & Conduit (Primary Contractor Labor Costs)**

	Total	Cost	Feet	
	\$7,829.12	<b>\$2.08</b>	3764	Trenching feet required for 2" service conduit
	\$0.00	<b>\$2.08</b>	0	Trenching feet required for 3" service conduit
	\$4,196.28	<b>\$0.51</b>	8228	Conduit Installation - 2"
	\$0.00	<b>\$0.55</b>	0	Conduit Installation - 3"
	\$0.00	<b>\$0.00</b>	8228	Pull-tape Installation (used exact length not 5% extra)
Svc Trenching Rts-of-Wy	<b>\$12,025.40</b>			

**Service Trenching & Conduit on Private Property (Service Contractor Labor Costs)**

	Total	Cost	Feet	
Svc Trenching Pri. Prop	<b>\$27,772.80</b>	<b>\$5.26</b>	5280	Trenching feet and conduit = 30ft x 176

**Service Cable (Service Contractor Labor Costs)**

	Total	Cost	Feet	
Service Cable Labor	<b>\$35,727.12</b>	<b>\$2.34</b>	15268	Installing 2/0 or 4/0 Cable in existing conduit
Service Labor	<b>\$75,525.32</b>			

**Inspection (TECO Labor Cost)**

TEC Labor	TEC Labor	TEC Vehicle	TEC Vehicle	
Total	Rate	Feet/Qty	Rate	Total
\$4,423.47	<b>\$88.00</b>	5655	<b>\$4.84</b>	\$243.29
\$1,017.67	<b>\$88.00</b>	1301	<b>\$4.84</b>	\$55.97
\$2,944.28	<b>\$88.00</b>	3764	<b>\$4.84</b>	\$161.94
Sub-total	<b>\$8,385.42</b>			<b>\$461.20</b>

**Inspection costs for Primary Contractor (TECO Labor Cost)**  
Primary Inspection chg = (mach. trnch ft / 900 ft per day)\*(8 hr/day)\*Contractor rate  
Secondary Inspection chg = (mach. trnch ft / 900 ft per day)\*(8 hr/day)\*Contractor rate  
Service ROW Inspection chg = (machine trench ft / 900 ft per day)\*(8 hr/day)\*Contractor rate

TEC Labor	TEC Labor	TEC Vehicle	TEC Vehicle	
Total	Rate	Feet/Qty	Rate	Total
\$7,744.00	<b>\$88.00</b>	176	<b>\$2.42</b>	\$425.92
Sub-total	<b>\$7,744.00</b>			<b>\$425.92</b>

**Inspection costs for Service Contractor (TECO Labor Cost)**  
Service Private Property Inspection = .5hr x # of lots x rate

### High Density - 176 Lots - Underground Material List

This worksheet lists the totals for major materials to be listed on the associated work request print as requested by the PSC.

**750 Total Connected KVA**  
**804 Total peak demand KVA**  
    **0 25 kVA Transformers**  
    **20 37.5 kVA Transformers**  
    **0 50 kVA Transformers**  
    **0 75 kVA Transformers**  
**5655 Trench Feet of 1/0 AL Primary Cable**  
    **0 Existing trench feet of 1/0 AL Primary Cable**  
    **0 Trench Feet of 2/0 AL Secondary Cable**  
    **0 Existing trench feet of 2/0 AL Secondary Cable**  
**1301 Trench Feet of 4/0 AL Secondary Cable**  
    **200 Existing trench feet of 4/0 AL Secondary Cable**  
    **Trench Feet of 500 MCM AL Secondary Cable**  
    **0 Existing trench feet of 500 MCM AL Secondary Cable**  
**9044 Trench Feet of 2/0 AL Service Cable**  
**4464 Existing trench feet of 2/0 AL Service Cable**  
    **0 Trench Feet of 4/0 AL Service Cable**  
    **0 Existing trench feet of 4/0 AL Service Cable**  
    **0 Load Break Cabinet**

Notes:

1. 1250 SF Homes
2. 2.5 Ton AC Units
3. 40' Service run from property corner to meter location
4. Voltage drop less than or equal to 12.0 volts
5. Voltage flicker less than or equal to 12.0 volts

**High Density - 176 Lots - Underground Material CU List**

This worksheet summarizes the entries from the other worksheets (from PoleAveA through PoleOakHill) and provides the Contractor Labor worksheet with input totals to calculate contractor costs.

**Station All Stations - This information is used to create Work Requests to obtain costs. Transfer the values from Qty and CU columns highlighted in yellow to the WorkPro Work Requests to obtain costs. Those costs are then entered into the HDdifferential.xls workbook to calculate the High Density Differential cost.**

<=== Blue shading indicates fields to be updated.

**Work Request**

**Number**

**Transformer Material CUs**

925091

Qty	CU	Definition	Total Connected KVA	
0	pku51a3n	25 kva, 6 tap 250mcm	0	
0	pku51c3n	25 kva, 8 tap 250mcm	0	0
0	pku51a4n	37.5 kva, 6 tap 250mcm	0	0
0	pku51b4n	37.5 kva, 6 tap 500mcm	0	0
0	pku51c4n	37.5 kva, 8 tap 250mcm	0	0
20	pku51d4n	37.5 kva, 8 tap 500mcm	750	750
0	pku51a5n	50 kva, 6 tap 250mcm	0	750
0	pku51b5n	50 kva, 6 tap 500mcm	0	750
0	pku51c5n	50 kva, 8 tap 250mcm	0	750
0	pku51d5n	50 kva, 8 tap 500mcm	0	750
0	pku51a6n	75 kva, 6 tap 250mcm	0	750
0	pku51b6n	75 kva, 6 tap 500mcm	0	750
0	pku51c6n	75 kva, 8 tap 250mcm	0	750
0	pku51d6n	75 kva, 8 tap 500mcm	0	750
1	bushcover	Cover hot Tx bushing - at open position on loop tx, or at radial Tx		
1	bushdummy	Parking bushing at normal open tx in loop		

**Work Request**

**Number**

**Ground Pad Mounted Tx - Material CUs**

925095

Qty	CU	Definition
20	grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" rods

**Work Request**

**Number**

**Primary Overhead - Material CUs**

925096

Qty	CU	Definition
2	PKE601WF1B	TEC material & labor to frame terminal pole CO & LA
2	FLOH103	Fuse

**Work Request**

**Number**

**Meggar Ground at Terminal Pole**

925097

Qty	CU	Definition
2	grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" rods

**Primary Trenching - Labor Only - Done By Contractors**

Used to determine contractor labor cost on the Contractor Labor worksheet

Qty	CU	Definition
5655		Trenching feet required for 2" primary conduit
0		Existing trench feet used for 2" primary conduit
5655		Install Pulling Tape (blow in tape for pull - trench feet used to determine contractor cost)

**Work Request**

**Number**

**Primary Cable**

925100

Qty	CU	Definition	
2	pku16wf	pothead, 38' 1c 1/0AL cable, 20' pvc, ground conn, wood pole	76
40	pku11f	safebreak, 5' 1c 1/0AL cable, ground conn	200
0	pku31p3	switch cubicle(lbc) 1ph, 200a deadfront, 3 position w/pad, grnd	
0	pku31p4	switch cubicle(lbc) 1ph, 200a deadfront, 4 position w/pad, grnd	
0	fault1pa	fault indicator, 1ph 1/0-4/0 above grade, 400a	
5655	CA1/0CN1CAL	cable, 1/0AL concentric neutral 15kV includes labor - round up to	6524.1
0	wiu1f	labor to pull ug cable in conduit	

**Work Request**

**Number**

**925098**

**Primary Conduit - Material Only**

Material used by contractors to install the conduit system

Qty	CU	Definition
20	5512000	Conduit, galvanized 2", 10' with coupling, for up terminal pole
5875	5522000	2" conduit
6095	5853530	Pulling tape - actual length
48	5512220	2" elbow 90 galv 9.5" radius
8	5512210	2" elbow 45 galv 9.5" radius
112	5522180	Coupling, 2" PVC (2 per elbow)
12	gluecondf	2"&3" pvc 1 qt for 500' fast dry

**Secondary Trenching - Labor Only - Done By Contractors**

Used to determine contractor labor cost on the Contractor Labor worksheet

Qty	CU	Definition
0		Trenching feet required for 2" secondary conduit
0		Existing trench feet used for 2" secondary conduit
71		Trenching feet required for 3" secondary conduit
200		Existing trench feet used for 3" secondary conduit
1230		Trenching feet required for 4" secondary conduit
0		Existing trench feet used for 4" secondary conduit
1501		Install Pulling Tape (blow in tape for pull - trench feet used to determine contractor cost)

**Work Request**

**Number**

**925103**

**Secondary Cable & Hand Holes**

Qty	CU	Definition
0	wiu3sb	2c 2/0 1c 1 neutral, 600 v - added 5% here
1691	CA4/0INS3CA	2c 4/0 1c 2/0 neutral, 600v includes labor - added 5% here 2029.2
0	wiu3sn	2c 500 1c 350 neutral, 600v - added 5% here
0	insbus350/4	crab 4 position up to 350mcm
0	insbus350/6	crab 6 position up to 350mcm
0	insbus500/4	crab 4 position up to 500mcm
66	insbus500/6	crab 6 position up to 500mcm
0	insbus500/8	crab 8 position up to 500mcm
0	wiu1f	labor to pull ug cable in conduit
22	svhottx	energize ug secondary in transformer
22	svhothh	energize ug secondary in hand hole
0	hhsec	secondary h/h 12"x20", 3 or 4 2/0 or 4/0 svc w/ 2/0 or 4/0 sec
22	HH LARGE PE	secondary h/h 14"x18" large pedestal, 5 to 7 2/0 or 4/0 svc w/ 4/0 or 500 sec (any time 500 u

**Work Request**

**Number**

**925104**

**Secondary Conduit - Material Only**

Material used by contractors to install the conduit system

Qty	CU	Definition
0	5522000	2" conduit sched A bell end
291	5523000	3" conduit sched A bell end
1410	5524000	4" conduit sched A bell end
1901	5853530	Pulling tape, plus adding 5% extra here
0	5522220	2" elbow 90 PVC 9.5" radius
0	5522210	2" elbow 45 PVC 9.5" radius
8	5523220	3" elbow 90 PVC 13" radius
0	5523210	3" elbow 45 PVC 13" radius
36	5524220	4" elbow 90 PVC 16" radius
0	5514300	4" elbow 90 galv 30" radius
0	5514210	4" elbow 45 galv 16" radius
0	5522180	Coupling, 2" PVC (2 per elbow)
16	5523180	Coupling, 3" PVC (2 per elbow)
72	5524180	Coupling, 4" PVC (2 per elbow)
1	gluecondf	2"&3" pvc 1 qt for 500' fast dry
6	gluecondm	4"& 6" pvc 1 qt for 250' medium dry

TAMPA ELECTRIC COMPANY  
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**Work Request**

**Number**

925108

**Set Meter**

Qty	CU	Definition
176	meterlabor	
176	1900006	meter, kwh 30a 240v

**Service Trenching - Labor Only - Done By Contractors**

Used to determine contractor labor cost on the Contractor Labor worksheet

Qty	CU	Definition
176		Number of 2/0 services
5280		Trenching feet for 2" service conduit on private property-service contractor
1760		Trenching feet for 10' stub of 2" service conduit installed by primary contractor
2004		Trenching feet for 2" service conduit installed by primary contractor
4464		Existing trench feet used for 2" service conduit installed by primary contractor
8228		Install Pulling Tape for 2" conduit (blow in tape for pull - Primary Contractor)
0		Trenching feet for 3" service conduit on private property-service contractor
0		Trenching feet for 10' stub of 3" service conduit installed by primary contractor
0		Trenching feet for 3" service conduit installed by primary contractor
0		Existing trench feet used for 3" service conduit installed by primary contractor
0		Install Pulling Tape for 3" conduit (blow in tape for pull - Primary Contractor)

13508

1760 **Work Request**

15268 **Number**

925106

**Service Cable Material Only**

Material used by contractors to install the conduit system

Qty	CU	Definition	
15268	wiu3sb	2c 2/0 & 1c 1 neutral, 600 v service cable	16031.4
0	wiu3sc	2c 4/0 & 1c 2/0 neutral, 600 v service cable	0

**Work Request**

15268 **Number**

925110

**Service Conduit Material Only**

Material used by contractors to install the conduit system

Qty	CU	Definition
5280		Conduit for 2" service on private property-service contractor
3520		Conduit for 10' stub of 2" service installed by primary contractor
6468		Conduit for 2" service installed by primary contractor
11748		Pulling Tape installed in 2" conduit by Primary Contractor)
15268	5522000	<b>Total 2" conduit for work order quantity</b>
448	5522220	2" elbow 90 PVC 9.5" radius
0	5522210	2" elbow 45 PVC 9.5" radius
176	5512260	2" galvanized Lock Nut
176	5522030	2" Flexible PVC conduit
176	5522050	2" PVC Adapter, male thread/female slip
176	5512370	2" PVC Service Riser
896	5522180	Coupling, 2" PVC (2 per elbow)
0		Conduit for 3" service on private property-service contractor
0		Conduit for 10' stub of 3" service installed by primary contractor
0		Conduit for 3" service installed by primary contractor
0		Pulling Tape installed in 3" conduit by Primary Contractor)
0	5523000	<b>Total 3" conduit for work order quantity</b>
0	5523220	3" elbow 90 PVC 13" radius
0	5523210	3" elbow 45 PVC 13" radius
0	5512770	2-1/2" house riser
0	5523220	3" elbow 90 PVC 13" radius at house riser
0	5512670	2-1/2" galvanized Lock Nut Used by contractors to install conduit system
0	5523030	3" Flexible PVC conduit
0	5521000	2-1/2"PVC Adapter, male thread/female slip
0	5523180	Coupling, 3" PVC (2 per elbow)
31	gluecondf	2"&3" pvc 1 qt for 500' fast dry
11748	5853530	<b>Total Pulling Tape installed in conduit by Primary Contractor)</b>



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925091**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:  
Tampa Electric

Distribution Services  
HDUG Transformers

Additional Information: Full PSC Filing 10/2010  
**WR Description:** HDUG 1250 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$45,652.25	\$0.00	\$45,652.25
OVERHEAD:	\$6,313.70	\$0.00	\$6,313.70
	\$51,965.95	\$0.00	\$51,965.95
LABOR HOURS:	69.84	0	69.84
LABOR COST:	\$3,073.59	\$0.00	\$3,073.59
OVERHEAD:	\$4,072.50	\$0.00	\$4,072.50
	\$7,146.09	\$0.00	\$7,146.09
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$59,112.04	\$0.00	\$59,112.04
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$59,112.04	\$0.00	\$59,112.04

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).





# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925091

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
1	2004816 BUSHING, PARKING, 15KV, INSULATED	\$38.70	\$38.70	N
20	2077906 CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$36.00	N
40	2078000 CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$92.40	N
2	2077931 CONNECTOR, VICE CU #2 STR	\$2.38	\$4.76	N
1	2004817 COVER, BUSHING 15 KV PDMT EQUIP W/FLEXIB	\$25.11	\$25.11	N
20	2001315 PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$103.25	\$2,065.00	N
20	2007395 PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$459.40	N
20	2007489 REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$55.40	N
40	2004031 STUD, GALVANIZED, 11 THREAD PER INCH ALL	\$2.47	\$98.80	N
9	2004948 TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$7.54	\$67.86	N
6	2004954 TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$16.58	\$99.48	N
45	2004950 TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8	\$8.28	\$372.60	N
20	2001519 TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS	\$2,108.00	\$42,160.00	Y
120	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$75.60	N
3	2078011 WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$1.14	N
	<b>Total</b>		<b>\$45,652.25</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925095**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
HDUG GRD Transformers

Additional Information: Full PSC Filing 10/2010

**WR Description:** HDUG 1250 sq ft GROUND TRANSFORMERS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$1,384.40	\$0.00	\$1,384.40
OVERHEAD:	\$191.46	\$0.00	\$191.46
	\$1,575.86	\$0.00	\$1,575.86
LABOR HOURS:	32.5	0	32.5
LABOR COST:	\$1,430.74	\$0.00	\$1,430.74
OVERHEAD:	\$1,895.73	\$0.00	\$1,895.73
	\$3,326.47	\$0.00	\$3,326.47
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$4,902.33	\$0.00	\$4,902.33
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$4,902.33	\$0.00	\$4,902.33

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925095

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
60 2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$286.80	N
80 2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$1,097.60	N
<b>Total</b>			<b>\$1,384.40</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925096**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
HDUG FRAME OH Takeoff

**Additional Information:** Full PSC Filing 10/2010  
**WR Description:** HDUG 1250 sq ft TAKEOFFS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$609.22	\$0.00	\$609.22
OVERHEAD:	\$84.24	\$0.00	\$84.24
	\$693.46	\$0.00	\$693.46
LABOR HOURS:	8.4	0	8.4
LABOR COST:	\$369.74	\$0.00	\$369.74
OVERHEAD:	\$489.92	\$0.00	\$489.92
	\$859.66	\$0.00	\$859.66
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$1,553.12	\$0.00	\$1,553.12
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$1,553.12	\$0.00	\$1,553.12

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925096

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
2	2003651 ARRESTER, LIGHTNING DISTRIBUTION CLASS 8	\$41.28	\$82.56	Y
2	2077754 BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$2.08	N
2	2131366 BRACKET, FG, 1 PH, 1 POS, 18"	\$30.03	\$60.06	N
2	2077906 CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$3.60	N
2	2077911 CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$11.46	N
80	2078012 CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$67.20	N
6	2004187 CONDUCTOR,BARE,#2 CU,7-STR,SOFT-DRAWN	\$0.98	\$5.88	N
2	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$1.32	N
4	2077930 CONNECTOR, VICE CU #4 STR	\$1.91	\$7.64	N
0	2077939 COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$0.00	N
2	2003846 CUTOOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$141.48	Y
2	2077794 FUSE LINK, 103A UNVRSL 100A CUTOOUT 23" O	\$24.29	\$48.58	N
2	2077822 KIT, ATTACHMENT, FOR ATTACHING "FLYING"	\$63.00	\$126.00	N
4	2077965 MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$6.96	N
0	2077980 ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$0.00	N
2	2077789 SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$0.54	N
20	2077997 STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$5.40	N
2	2077828 STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$34.38	N
2	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$0.48	N
2	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$1.32	N
6	2078011 WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$2.28	N
		<b>Total</b>	<b>\$609.22</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925097**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Svcs  
HDUG GRD takeoff POLE

Additional Information: Full PSC Filing 10/2010

**WR Description:** HDUG 1250 sq ft GROUND TAKEOFFS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$138.44	\$0.00	\$138.44
OVERHEAD:	\$19.15	\$0.00	\$19.15
	\$157.59	\$0.00	\$157.59
LABOR HOURS:	3.75	0	3.75
LABOR COST:	\$165.26	\$0.00	\$165.26
OVERHEAD:	\$218.97	\$0.00	\$218.97
	\$384.23	\$0.00	\$384.23
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$541.82	\$0.00	\$541.82
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$541.82	\$0.00	\$541.82

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
 Dist: CSA

WR No. 925097

Page 1 of 1

	Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>					
	6 2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$28.68	N
	8 2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$109.76	N
		<b>Total</b>		<b>\$138.44</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925098**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Engineering  
HDUG Pri Conduit Material

Additional Information: Full PSC Filing 10/2010

**WR Description:** HDUG 1250 sq ft PRIMARY CONDUIT

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$8,360.08	\$0.00	\$8,360.08
OVERHEAD:	\$1,156.20	\$0.00	\$1,156.20
	\$9,516.28	\$0.00	\$9,516.28
LABOR HOURS:	0	0	0
LABOR COST:	\$0.05	\$0.00	\$0.05
OVERHEAD:	\$0.07	\$0.00	\$0.07
	\$0.12	\$0.00	\$0.12
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$9,516.40	\$0.00	\$9,516.40
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$9,516.40	\$0.00	\$9,516.40

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).





# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
 Dist: CSA

WR No. 925098

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
12 2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$74.64	N
20 2004389	CONDUIT, GALVANIZED 2 IN 10 FT WITH COUP	\$6.78	\$135.60	Y
5935 2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$6,113.05	Y
108 2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$64.80	N
46 2004395	ELBOW, 2" 90 DEGREE ,GALVANIZED, 24" MIN	\$34.29	\$1,577.34	N
8 2004394	ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	\$26.25	\$210.00	N
6155 2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$184.65	N
		<b>Total</b>	<b>\$8,360.08</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925100**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Svcs  
HDUG PRIMARY

**Additional Information:** Full PSC Filing 10/2010  
**WR Description:** HDUG 1250 sq ft PRIMARY CABLE

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$15,227.81	\$0.00	\$15,227.81
OVERHEAD:	\$2,106.01	\$0.00	\$2,106.01
	\$17,333.82	\$0.00	\$17,333.82
LABOR HOURS:	115.14	0	115.14
LABOR COST:	\$5,068.62	\$0.00	\$5,068.62
OVERHEAD:	\$6,715.92	\$0.00	\$6,715.92
	\$11,784.54	\$0.00	\$11,784.54
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$29,118.36	\$0.00	\$29,118.36
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$29,118.36	\$0.00	\$29,118.36

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925100

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
6304 2004343	CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	\$2.08	\$13,112.53	Y
2 2004514	CAP, CONDUIT 2"	\$12.21	\$24.42	N
2 2004453	CAP, END CABLE 600 V CABLE RANGE .940 -	\$1.96	\$3.92	N
2 2003752	CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO	\$7.92	\$15.84	N
0 2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$0.00	Y
2 2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$1.32	N
44 2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$104.72	N
40 2004642	KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0	\$9.46	\$378.40	N
8 2004403	STRAP, GALV 2 IN 2 HOLE	\$0.28	\$2.24	N
40 2004883	TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	\$37.76	\$1,510.40	Y
2 2004633	TERMINATOR, POTHEAD 15KV OUTDOOR 1/0 JCN	\$35.75	\$71.50	Y
4 2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$2.52	N
	<b>Total</b>		<b>\$15,227.81</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925103**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Svcs  
HDUG SECONDARY

Additional Information: Full PSC Filing 10/2010

**WR Description:** HDUG 1250 sq ft SECONDARY CABLE

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$8,598.95	\$0.00	\$8,598.95
OVERHEAD:	\$1,189.23	\$0.00	\$1,189.23
	\$9,788.18	\$0.00	\$9,788.18
LABOR HOURS:	146.42	0	146.42
LABOR COST:	\$6,445.28	\$0.00	\$6,445.28
OVERHEAD:	\$8,540.02	\$0.00	\$8,540.02
	\$14,985.30	\$0.00	\$14,985.30
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$24,773.48	\$0.00	\$24,773.48
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$24,773.48	\$0.00	\$24,773.48

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
 Dist: CSA

WR No. 925103

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
2029 2004354	CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW	\$1.39	\$2,820.59	Y
45 2005022	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$14.92	\$671.40	N
12 2005025	CONNECTOR, 600V, URD, 8 POSITION, CONDUCT	\$30.35	\$364.20	N
22 2000241	DECAL,WARNING,NOTICE,CLEARANCE,10" X 7"	\$3.56	\$78.32	N
22 2004714	HANDHOLE, ABOVE GRADE, LARGE DOME	\$186.22	\$4,096.84	N
22 2005212	MARKER, CURB LEXAN .040 THICK, ROUND 2.5	\$2.83	\$62.26	N
22 2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$505.34	N
	<b>Total</b>		<b>\$8,598.95</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925104**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Svcs  
HDUG SEC CONDUIT

Additional Information: Full PSC Filing 10/2010

**WR Description:** HDUG 1250 sq ft SECONDARY CONDUIT

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$5,153.37	\$0.00	\$5,153.37
OVERHEAD:	\$712.71	\$0.00	\$712.71
	\$5,866.08	\$0.00	\$5,866.08
LABOR HOURS:	0	0	0
LABOR COST:	\$0.03	\$0.00	\$0.03
OVERHEAD:	\$0.05	\$0.00	\$0.05
	\$0.08	\$0.00	\$0.08
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$5,866.16	\$0.00	\$5,866.16
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$5,866.16	\$0.00	\$5,866.16

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
 Dist: CSA

WR No. 925104

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
1	2007227 CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$6.22	N
6	2007228 CEMENT, PVC GRAY MEDIUM DRY QUART W/DAUB	\$7.27	\$43.62	N
291	2004517 CONDUIT, PVC P & C 3 IN 20 FT	\$1.70	\$494.70	Y
1410	2004529 CONDUIT, PVC, 4" X 20', DB-60-TC-6	\$2.78	\$3,919.80	Y
16	2004521 COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$2.95	\$47.20	N
72	2004535 COUPLING, PVC 4 IN SCH 40 TEMS 13.01	\$4.28	\$308.16	N
8	2004524 ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$36.16	N
36	2004538 ELBOW, PVC 4", 90 DEG., 16" RADIUS, SCHE	\$6.68	\$240.48	N
1901	2007414 TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$57.03	N
		<b>Total</b>	<b>\$5,153.37</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925106**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Svcs  
HDUG SERVICE CABLE

**Additional Information:** Full PSC Filing 10/2010  
**WR Description:** HDUG 1250 sq ft SERVICE CABLE

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$16,257.47	\$0.00	\$16,257.47
OVERHEAD:	\$2,248.40	\$0.00	\$2,248.40
	\$18,505.87	\$0.00	\$18,505.87
LABOR HOURS:	1.53	0	1.53
LABOR COST:	\$67.48	\$0.00	\$67.48
OVERHEAD:	\$89.41	\$0.00	\$89.41
	\$156.89	\$0.00	\$156.89
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$18,662.76	\$0.00	\$18,662.76
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$18,662.76	\$0.00	\$18,662.76

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).





# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925106

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
16097 2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.01	\$16,257.47	Y
<b>Total</b>			<b>\$16,257.47</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925108**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Svcs  
HDUG SET METERS

**Additional Information:** Full PSC Filing 10/2010  
**WR Description:** HDUG 1250 sq ft METERS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	35.27	0	35.27
LABOR COST:	\$1,552.59	\$0.00	\$1,552.59
OVERHEAD:	\$2,057.18	\$0.00	\$2,057.18
	\$3,609.77	\$0.00	\$3,609.77
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$3,609.77	\$0.00	\$3,609.77
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$3,609.77	\$0.00	\$3,609.77

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925110**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Svcs  
HDUG SERVICE CONDUIT

Additional Information: Full PSC Filing 10/2010  
**WR Description:** HDUG 1250 sq ft SERVICE CONDUIT

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$18,669.34	\$0.00	\$18,669.34
OVERHEAD:	\$2,581.97	\$0.00	\$2,581.97
	\$21,251.31	\$0.00	\$21,251.31
LABOR HOURS:	0	0	0
LABOR COST:	\$0.13	\$0.00	\$0.13
OVERHEAD:	\$0.19	\$0.00	\$0.19
	\$0.32	\$0.00	\$0.32
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$21,251.63	\$0.00	\$21,251.63
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$21,251.63	\$0.00	\$21,251.63

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
 Dist: CSA

WR No. 925110

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
176 2004493	ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR	\$0.40	\$70.40	N
31 2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$192.82	N
15330 2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$15,789.90	Y
176 2004491	CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE	\$1.13	\$198.88	N
176 2004401	CONDUIT, SERVICE RISER, PVC, 2"	\$4.92	\$865.92	N
896 2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$537.60	N
448 2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$564.48	N
176 2004396	NUT, LOCK GALV 2 IN	\$0.54	\$95.04	N
11810 2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$354.30	N
		<b>Total</b>	<b>\$18,669.34</b>	



Revised 3/17/21

**OH Construction Cost Data Summary**  
High Density (176-Lot) OH Subdivision Costs

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Line #	Work Type/WR #	(D+M) Material and Handling	Material	(F + L) Total Labor Plus Vehicles	(G + H + I) Total Labor	Base Labor	(G x J x TLF) Operations Labor Overheads	(G x K x CLF) Contract Labor Overheads	TEC Work %	Contractor Work %	Vehicle	(D x MHR) Material Handling	(C+E) Total
1	Transformers												
2	##### Install & Ground Transformers	31,143.07	27,751.80	12,366.93	11,060.26	6,439.97	4,103.55	516.74	60%	40%	\$1,306.67	3,391.27	43,510.00
3	Primary												
4	##### Install Primary Line	2,544.16	2,267.12	6,190.06	5,536.03	3,223.42	2,053.96	258.65	60%	40%	\$654.03	277.04	8,734.22
5	includes Grounding Primary Takeoffs												
6	Poles												
7	##### Install Poles and Guy Stubs	22,510.66	20,059.40	36,177.05	32,354.65	18,838.88	12,004.13	1,511.63	60%	40%	\$3,822.41	2,451.26	58,687.71
8	Includes Haul Poles Out												
9	Secondary												
10	##### Install Secondary Cable	12,719.79	11,334.69	18,719.51	16,741.64	9,748.02	6,211.44	782.18	60%	40%	\$1,977.87	1,385.10	31,439.30
11	Services												
12	##### Install Service Cable	10,342.22	9,216.02	12,847.44	11,490.00	6,690.19	4,262.99	536.82	60%	40%	\$1,357.44	1,126.20	23,189.66
13	##### Install Meters	17,751.95	\$15,818.88	3,314.51	2,666.48	1,552.59	989.31	124.58	60%	40%	648.03	1,933.07	21,066.46
14		28,094.16	25,034.90	16,161.95	14,156.48	8,242.78	5,252.30	661.40			2,005.47	3,059.26	44,256.11
15													
16	Engineering Design/Inspection/Coordination	-	-	10,785.62					100%	0%			10,785.62
17	Tree Trim	-	-	-									-
18													
19	Totals (Sum of lines 2, 5, 8, 11, 16, 18, and 20)	97,011.84	86,447.91	100,401.14	79,849.06	46,493.07	29,625.38	3,730.60			9,766.45	10,563.93	197,412.98
20	Cost "Per Lot" (Line 34/ 176 lots)	551.20		570.46									1,121.66

Adjustment Factors		
TEC Labor Overhead Factor (excludes engineering)	TLF =	1.062
Contractor Labor Overhead Factor	CLF =	0.2006
Current year material handling charge rate	MHR =	0.1222

90

**High Density - 176 Lots - Overhead Material List**

This worksheet lists the totals for major materials to be listed on the associated work request print as requested by the PSC.

**737.5 Total Connected KVA**  
**800 Total peak demand KVA**  
2 25 kVA Transformers  
5 37.5 kVA Transformers  
7 50 kVA Transformers  
2 75 kVA Transformers  
0 100 kVA Transformers  
**6165 #2AAAC Primary**  
44 Primary Poles  
**5155 2/0 AWG Triplex Secondary**  
0 4/0 AWG Triplex Secondary  
**225 #2AAAC Secondary Neutral**  
**965 2-2/0 & 1-1/0 AL Triplex Service Drop (considered secondary)**  
0 2-4/0 & 1-2/0 AL Triplex Service Drop (considered secondary)  
19 Secondary Poles  
**8960 2-2/0 & 1-1/0 AL Triplex Service Drop**  
0 2-4/0 & 1-2/0 AL Triplex Service Drop

Summary of assemblies (CU's) for High Density Overhead Design - March 2021

Work Request #1	925111 - Transformers (enter these Construction Units into WorkPro)							
	25 KVA	37.5 KVA	50 KVA	75 KVA	100 KVA	Stirrup	Spacer	Grounding
Assemblies ==>	PKT11W3F	PKT11W4F	PKT11W5F	PKT11W6F	PKT11W7F	ALSTRP1/0	SEWC	GRDMEG1/2
Total Quantities ==>	2	5	7	2	0	16	16	16

Work Request #2	925112 - Primary								
	#2 AAAC	1st span	Additional	1st span	Additional	Fused cutouts	DE & TAP	Fuses	Grounding
Assemblies ==>	WIOPA	WIO2F	WIO2A	WIO1F	WIO1A	PKP208WB3A	PKP101WA3A	FLOH103	GRDMEG1/2
Total Quantities ==>	6165	1	7	3	32	1	4	2	3

Work Request #3	925113 - Poles and Guys												
Should be ==>	Pole haul	2ø Deadend	2 ø tangent	2 ø Corner	1ø Deadend	1ø angle <20	1ø angle <20	1ø Tangent	1ø angle >20	3 ø	Down guys	Pole hardware	Guy wire
Assemblies ==>	POLE_HAUL	STP402_DE_40C2	STP103_TAN_40C2	STP302_RC_40C2	STP401_DE_40C2	STP101_ANG_40C2	STP101_ANG_45C2	STP101_TAN_40C2	STP301_RC_40C2	STP104E4B	PKG12W2H	PKG31WIH	GUYSTR3/8
Total Quantities ==>	44	1	6	1	4	5	2	13	11	1	29	4	340

Work Request #4	925114 - Secondary - From Secondary&Neutral worksheet												
	35' CL 4	POLE_HAUL	WIO3SB	WIO3SC	#2 Neutral	Labor	Labor	Eyebolt	Eyebolt	DE+Bolt	CABLEOPEN	Pole hardware	Guy wire
Assemblies ==>	STS11C	POLE_HAUL	WIO3SB	WIO3SC	C2AAAC	WIOCF	WIOCA	SEW1DEN	SEG1DEN	PKS11W	CABLEOPEN	PKG31WIH	GUYSTR3/8
Total Quantities ==>	0	0	5155	0	225	6	37	2	2	8	14	8	565

More of Work Request #4	- Secondary continued - From Secondary&Neutral worksheet and SlackSecondary (service cable) & Secondary Poles worksheet										
	POLE_HAUL	35' Class 4	Deadend	Clamp	2/0 triplex	4/0 triplex	0	Down guys	Pole hardware	Guy wire	
Assemblies ==>	POLE_HAUL	STS11C	PKS21G	CLMIDSPAN	CA2/0TPX	CA4/0TPX	SVLABOR	CLMIDSPAN	PKG11WIH	PKG31WIH	GUYSTR3/8
Total Quantities ==>	19	19	35	3	965	0	19	1	2	50	

Work Request #5	927142 - Services			
	2/0 triplex	4/0 triplex	Clamp	SVLABOR
Assemblies	CA2/0TPX	CA4/0TPX	CLMIDSPAN	SVLABOR
Quantities	8960	0	26	0

Work Request #5	927163 - Set Meter
Assemblies	METERLABOR
Quantities	176

92





**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925111**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:  
Tampa Electric

Distribution Services  
HDOH TRANSFORMER

Additional Information: Full PSC Filing 10/2010  
WR Description: HDOH 1250 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$27,751.80	\$0.00	\$27,751.80
OVERHEAD:	\$3,838.05	\$0.00	\$3,838.05
	\$31,589.85	\$0.00	\$31,589.85
LABOR HOURS:	146.26	0	146.26
LABOR COST:	\$6,439.97	\$0.00	\$6,439.97
OVERHEAD:	\$8,532.90	\$0.00	\$8,532.90
	\$14,972.87	\$0.00	\$14,972.87
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$46,562.72	\$0.00	\$46,562.72
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$46,562.72	\$0.00	\$46,562.72

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925111

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
16	2003646 ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$634.88	Y
14	2077754 BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$14.56	N
32	2077755 BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$37.12	N
16	2003690 BRACKET, CUTOUT, ARRESTER & POTHEAD DWG	\$7.22	\$115.52	N
16	2004660 BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$166.56	N
208	2004197 CABLE, HANDCOIL, COPPER, 600V, 2/0 AWG,	\$2.32	\$482.56	N
24	2004199 CABLE, HANDCOIL, COPPER, 600V, 4/0 AWG,	\$3.75	\$90.00	N
16	2077906 CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$28.80	N
16	2077911 CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$91.68	N
32	2078000 CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$73.92	N
640	2078012 CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$537.60	N
4	2003528 CONNECTOR, 2-BOLT AL MAIN 336-500MCM TAP	\$25.78	\$103.12	N
42	2077839 CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$22.26	N
16	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$10.56	N
2	2077845 CONNECTOR, COMPRESSION H-BLOCK ACSR 4/0	\$0.68	\$1.36	N
64	2077930 CONNECTOR, VICE CU #4 STR	\$1.91	\$122.24	N
48	2077939 COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$229.44	N
24	2003516 COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$9.36	N
16	2003846 CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$1,131.84	Y
7	2077806 FUSE LINK, 10A UNVRSL 100A CUTOUT 23" OA	\$3.91	\$27.37	N
2	2077807 FUSE LINK, 15A UNVRSL 100A CUTOUT 23" OA	\$3.93	\$7.86	N
2	2077804 FUSE LINK, 5A UNVRSL 100A CUTOUT 23" OAL	\$3.90	\$7.80	N
5	2077805 FUSE LINK, 7A UNVRSL 100A CUTOUT 23" OAL	\$3.89	\$19.45	N
32	2077965 MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$55.68	N
16	2007368 PROTECTOR, WILD LIFE, SLIP-ON TYPE	\$5.35	\$85.60	N
64	2077980 ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$878.08	N
16	2077767 ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$42.40	N
16	2077789 SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$4.32	N
16	2077812 SPACER, CABLED SECONDARY	\$6.79	\$108.64	N
140	2077997 STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$37.80	N
2	2001367 TX,OH,25 kVA,7.62/13.2Y,120/240,FR3	\$1,046.46	\$2,092.92	Y
5	2001368 TX,OH,37.5 kVA,7.62/13.2Y,120/240,FR3	\$1,253.83	\$6,269.15	Y
7	2001369 TX,OH,50 kVA,7.62/13.2Y,120/240,FR3	\$1,463.60	\$10,245.20	Y
2	2001370 TX,OH,75 kVA,7.62/13.2Y,120/240,FR3	\$1,924.56	\$3,849.12	Y
80	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$19.20	N
48	2078014 WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$5.28	N
50	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$31.75	N
160	2078011 WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$60.80	N
	<b>Total</b>		<b>\$27,751.80</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925112**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:  
Tampa Electric

Distribution Services  
HDOH PRIMARY

Additional Information: Full PSC Filing 10/2010  
WR Description: HDOH 1250 sq ft PRIMARY

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$2,267.12	\$0.00	\$2,267.12
OVERHEAD:	\$313.55	\$0.00	\$313.55
	\$2,580.67	\$0.00	\$2,580.67
LABOR HOURS:	73.22	0	73.22
LABOR COST:	\$3,223.42	\$0.00	\$3,223.42
OVERHEAD:	\$4,271.04	\$0.00	\$4,271.04
	\$7,494.46	\$0.00	\$7,494.46
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$10,075.13	\$0.00	\$10,075.13
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$10,075.13	\$0.00	\$10,075.13

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925112

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
3	2003646 ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$119.04	Y
2	2077738 BOLT, 5/8" X 8" EYE GALV RTS 12,400 LBS.	\$2.99	\$5.98	N
4	2077739 BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$12.48	N
2	2077744 BOLT, MACHINE 1/2 INCH X 7 INCH	\$0.92	\$1.84	N
4	2077754 BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$4.16	N
1	2077756 BOLT,MACHINE,SQ HEAD,5/8"X14",ONE SQ NUT	\$1.29	\$1.29	N
3	2003681 BRACKET, "L", LIGHTNING ARRESTER 10 KV	\$7.95	\$23.85	N
2	2004660 BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$20.82	N
8	2077818 CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$72.96	N
3	2077906 CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$5.40	N
9	2077911 CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$51.57	N
3	2077813 CLAMP, SLACK SPAN DEADEND #2 ACSR - 2/0	\$10.09	\$30.27	N
6473	2004331 CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.15	\$971.00	Y
120	2078012 CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$100.80	N
11	2077838 CONNECTOR, COMPRESSION H-BLOCK ACSR #2-1	\$0.41	\$4.51	N
7	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$4.62	N
6	2077930 CONNECTOR, VICE CU #4 STR	\$1.91	\$11.46	N
9	2077939 COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$43.02	N
1	2002955 CROSSARM, 5' DEADEND COMPOSITE	\$116.70	\$116.70	N
2	2003846 CUTOOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$141.48	Y
2	2077794 FUSE LINK, 103A UNVRSL 100A CUTOOUT 23" O	\$24.29	\$48.58	N
1	2077954 INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$3.75	N
2	2003882 INSULATOR, POLYMER VERTICAL LINE POST 25	\$50.80	\$101.60	N
4	2077959 INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$47.44	N
6	2077965 MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$10.44	N
5	2077783 NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$7.55	N
1	2077971 PIN, CROSSARM 5/8" X 6-1/2" BOLT, 1" LEA	\$5.16	\$5.16	N
12	2077980 ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$164.64	N
3	2077789 SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$0.81	N
30	2077997 STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$8.10	N
2	2077828 STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$34.38	N
7	2077826 STIRRUP, AL BODY & CU BAIL 2-4/0	\$10.18	\$71.26	N
2	2004029 STUD-LINEPOST INSULATOR 3/4"X5/8 7" BOLT	\$4.09	\$8.18	N
1	9999999 USED AS A STOCK NUMBER PLACEHOLDER	\$0.00	\$0.00	N
4	2078005 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8	\$0.23	\$0.92	N
13	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$3.12	N
2	2008135 WASHER, LOCK T316SS 1/2 IN	\$0.18	\$0.36	N
3	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$1.89	N
15	2078011 WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$5.70	N
		<b>Total</b>	<b>\$2,267.12</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925113**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:  
Tampa Electric

Distribution Services  
HDOH POLES

Additional Information: Full PSC Filing 10/2010  
WR Description: HDOH 1250 sq ft POLES

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$20,059.40	\$0.00	\$20,059.40
OVERHEAD:	\$2,774.22	\$0.00	\$2,774.22
	\$22,833.62	\$0.00	\$22,833.62
LABOR HOURS:	427.97	0	427.97
LABOR COST:	\$18,838.88	\$0.00	\$18,838.88
OVERHEAD:	\$24,961.48	\$0.00	\$24,961.48
	\$43,800.36	\$0.00	\$43,800.36
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$66,633.98	\$0.00	\$66,633.98
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$66,633.98	\$0.00	\$66,633.98

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925113

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
29	2003632 ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$1,396.35	N
20	2077739 BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$62.40	N
62	2077764 BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$149.42	N
40	2077754 BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$41.60	N
19	2077753 BOLT, MACHINE 5/8" X 8", GALV.	\$1.05	\$19.95	N
1	2077780 BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$4.16	\$4.16	N
45	2077755 BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$52.20	N
8	2003686 BRACKET, FIBERGLASS STANDOFF VERTICAL24"	\$48.88	\$391.04	N
7	2077818 CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$63.84	N
13	2003508 CLAMP, SUSPENSION AL ANGLE RANGE .50 TO	\$13.95	\$181.35	N
19	2077924 CLEVIS, STEEL LESS INSULATOR 5/8 IN PIN	\$9.38	\$178.22	N
105	2078012 CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$88.20	N
25	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$16.50	N
21	2077930 CONNECTOR, VICE CU #4 STR	\$1.91	\$40.11	N
2	2077765 DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$2.35	\$4.70	N
29	2003636 EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$1,465.66	N
27	2077901 FIBERGLASS RIDGE-PIN	\$28.87	\$779.49	N
120	2077949 GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$272.40	N
22	2077862 GUARD, LINE #2 ACSR & AAAC STR 6/1, 7	\$1.95	\$42.90	N
3	2077863 GUARD, LINE 2/0 ACSR & AAAC STR 6/1, 7	\$2.68	\$8.04	N
62	2077951 HOOK, GUY	\$2.73	\$169.26	N
35	2077954 INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$131.25	N
1	2077952 INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.21	\$1.21	N
33	2077961 INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$486.09	N
19	2077959 INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$225.34	N
29	2077979 MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$4.43	\$128.47	N
42	2002857 POLE, WOOD, 40FT CLASS 2, CCA TREATED	\$272.68	\$11,452.56	Y
2	2002858 POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	\$323.31	\$646.62	Y
23	2077767 ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$60.95	N
62	2077790 SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$29.14	N
48	2077812 SPACER, CABLED SECONDARY	\$6.79	\$325.92	N
7	2003612 TIE, PREFORMED SIDE TIE #2 ACSR OR #2 A	\$2.64	\$18.48	N
28	2003613 TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$2.87	\$80.36	N
62	2078002 WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$75.64	N
156	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$37.44	N
146	2078014 WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$16.06	N
2776	2005879 WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$916.08	N
		<b>Total</b>	<b>\$20,059.40</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 925114**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Eng  
HDOH SECONDARY

**Additional Information:** Full PSC Filing 10/2010  
**WR Description:** HDOH 1250 sq ft SECONDARY

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$11,334.69	\$0.00	\$11,334.69
OVERHEAD:	\$1,567.60	\$0.00	\$1,567.60
	\$12,902.29	\$0.00	\$12,902.29
LABOR HOURS:	221.46	0	221.46
LABOR COST:	\$9,748.02	\$0.00	\$9,748.02
OVERHEAD:	\$12,916.13	\$0.00	\$12,916.13
	\$22,664.15	\$0.00	\$22,664.15
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$35,566.44	\$0.00	\$35,566.44
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$35,566.44	\$0.00	\$35,566.44

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 925114

Page 1 of 1

Material Number	Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>				
1	2003632 ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$48.15	N
10	2077739 BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$31.20	N
11	2077764 BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$26.51	N
1	2077755 BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$1.16	N
5413	2004338 CABLE, OVERHEAD SECONDARY, TRIPLEX, 2/0	\$1.15	\$6,224.72	Y
1013	2004364 CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$0.96	\$972.77	Y
43	2077818 CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$392.16	N
3	2003770 CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$7.09	\$21.27	N
236	2004331 CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.15	\$35.45	Y
129	2077839 CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$68.37	N
8	2077837 CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$5.28	N
8	2077931 CONNECTOR, VICE CU #2 STR	\$2.38	\$19.04	N
86	2003516 COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$33.54	N
1	2003636 EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$50.54	N
12	2077949 GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$27.24	N
11	2077951 HOOK, GUY	\$2.73	\$30.03	N
10	2077961 INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$147.30	N
1	2077979 MARKER, GUY WIRE PLASTIC 8" IN LENGTH CO	\$4.43	\$4.43	N
37	2077783 NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$55.87	N
19	2002842 POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	\$141.93	\$2,696.67	Y
19	2077767 ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$50.35	N
11	2077790 SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$5.17	N
19	2077812 SPACER, CABLED SECONDARY	\$6.79	\$129.01	N
11	2078002 WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$13.42	N
50	2078006 WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$12.00	N
57	2078014 WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$6.27	N
16	2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$10.08	N
657	2005879 WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$216.81	N
		<b>Total</b>	<b>\$11,334.69</b>	





**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 927142**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Distribution Services  
HDOH SERVICE

**Additional Information:** Full PSC Filing 10/2010  
**WR Description:** HDOH 1250 sq ft SERVICE

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$9,216.02	\$0.00	\$9,216.02
OVERHEAD:	\$1,274.57	\$0.00	\$1,274.57
	\$10,490.59	\$0.00	\$10,490.59
LABOR HOURS:	151.98	0	151.98
LABOR COST:	\$6,690.19	\$0.00	\$6,690.19
OVERHEAD:	\$8,864.50	\$0.00	\$8,864.50
	\$15,554.69	\$0.00	\$15,554.69
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$26,045.28	\$0.00	\$26,045.28
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$26,045.28	\$0.00	\$26,045.28

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Work Request Material Summary

\*\*\*Includes Truck Stock\*\*\*

Design Number 1

Printed Date: 3/11/2021  
Dist: CSA

WR No. 927142

Page 1 of 1

Material Number		Description	Unit Price	Total Cost	Asset?
<b>INSTALL</b>					
9408	2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$0.96	\$9,031.68	Y
0	2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$1.42	\$0.00	Y
26	2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$7.09	\$184.34	N
<b>Total</b>				<b>\$9,216.02</b>	



**Estimate Summary**  
Design Number 1

Printed Date: 3/11/2021

District: CSA

**WR No. 927163**

Date Sched: 4/1/21

Date Required: 4/1/21

Contact Name:

Dist Svcs  
HDOH METERS

**Additional Information:** Full PSC Filing 10/2010  
**WR Description:** HDOH 1250 sq ft METERS

<b>INSTALLATION:</b>	<b>Capital</b>	<b>Oper./Maint.</b>	<b>Total</b>
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	35.27	0	35.27
LABOR COST:	\$1,552.59	\$0.00	\$1,552.59
OVERHEAD:	\$2,057.18	\$0.00	\$2,057.18
	\$3,609.77	\$0.00	\$3,609.77
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$3,609.77	\$0.00	\$3,609.77
<b>REMOVAL:</b>			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
<b>TRANSFER:</b>			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$3,609.77	\$0.00	\$3,609.77

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).

**Differential costs for single phase (1Ø) services from an overhead source**

**OVERHEAD SERVICE**

**OH Service Cable - Material Per Foot Cost**

This cost includes all service clamps, connectors and connector covers required. The per foot cost is a material only number.

<u>Action</u>	<u>Description</u>	<u>Material</u>		<u>(Material Handling) Overhead</u>		<u>OH Service Material Cost Per Foot</u>
install	76' - 1Ø - 2/0 AWG Triplex	\$92.14	+	\$11.26	= \$103.40 ÷ 76 =	\$1.36
install	76' - 1Ø - 4/0 AWG Triplex	\$140.93	+	\$17.22	= \$158.15 ÷ 76 =	\$2.08

**OH Service Cable - Fixed Cost**

Fixed Cost = TEC labor plus Contractor labor cost to install the service cable, includes labor plus overheads and vehicle plus the Net Present Value of Operation Cost with Storm Cost.

OH Service - Net Present Value of Operation Cost with Storm Cost	\$106.81
Labor cost to install 2/0 triplex service cable	\$151.14
Labor cost to install 4/0 triplex service cable	\$151.92

**OH SERVICE CABLE - Cost Table**

<u>OH Description</u>		<u>Installation Cost</u>	
		<u>Fixed</u>	<u>Per Foot</u>
1Ø - 2/0 AWG Triplex	\$106.81 +\$151.14=	\$257.95	\$1.36
1Ø - 4/0 AWG Triplex	\$106.81 +\$151.92=	\$258.73	\$2.08

**OH Service - Poles**

This is the cost to haul a service pole to the site and install an overhead service pole.

<u>Action</u>	<u>Description</u>	<u>Total</u>
install	Accessible 35' wood pole	\$801.36
	Average cost to install a service pole	\$801.36

**UNDERGROUND SERVICE**

**UG Service from an OH Source - Per Foot Cost**

This is the material cost of the conduit and cable in the trench, plus the contractor labor to dig the trench and install the conduit and cable in the trench, plus the cost of the TEC inspector.

Action	Description	UG Cable Material Cost Per Foot		UG Conduit Material Cost Per Foot		Teco Inspection Labor Per Foot		Contractor labor Machine Trench Per Foot		UG Cable Machine Trench Total Cost Per Foot
install	1Ø - 2/0 AWG Triplex	\$1.19	+	\$1.45	+	\$1.16	+	\$9.17	=	\$12.98
install	1Ø - 4/0 AWG Triplex	\$1.56	+	\$2.36	+	\$1.16	+	\$9.17	=	\$14.26

**UG SERVICE CABLE TO METER FROM OH SOURCE - Fixed Cost**

This is the cost for the material down the pole and the material at the house riser to the meter can, plus the contractor cost to install the conduit, cable and make the connection on the pole, plus the Net Present Value of Operation Cost with Storm Cost.

UG Service - Net Present Value of Operation Cost with Storm Cost

Action	Description	Material		UG Cable (Material Handling) Overhead		Contractor Labor		NPV OC + SC		Total Fixed Cost
install	1Ø - 2/0 AWG Tpx - 2" conduit	\$93.50	+	\$11.42	+	\$87.62	+	\$83.87	=	\$276.41
install	1Ø - 4/0 AWG Tpx - 3" conduit	\$160.21	+	\$19.58	+	\$87.62	+	\$83.87	=	\$351.28

**UG Service Cable from an OH Source - Cost Table**

UG Service Cable from an OH Source to a meter can Cable & Conduit With Machine Trench		Fixed	Installation Cost Per Foot	OH Service Equivalent Description	Installation Cost		Service Differential Cost	
					Fixed	Per Foot	Fixed	Per Foot
	1Ø - 2/0 AWG Triplex	\$276.41	\$12.98	1Ø - 2/0 AWG Triplex	\$257.95	\$1.36	\$18.46	\$11.62
	1Ø - 4/0 AWG Triplex	\$351.28	\$14.26	1Ø - 4/0 AWG Triplex	\$258.73	\$2.08	\$92.54	\$12.18

**Differential costs for single phase (1Ø) services from an overhead source**

Fixed Charge	Cost/ft	1Ø UG Secondary or 1Ø UG service in conduit from OH source (Base Charge + service length times Cost/ft)
\$18.46	\$11.62	1Ø 2/0 AWG, 100 ft or less, machine trench, /ft (differential) - a service 100' or less is one that would not have a service pole if it was overhead
\$92.54	\$12.18	1Ø 4/0 AWG, 100 ft or less, machine trench, /ft (differential) - a service 100' or less is one that would not have a service pole if it was overhead
(\$782.90)	\$11.62	1Ø 2/0 AWG, greater than 100 ft, machine trench, /ft (differential) - a service greater than 100' is one that would require a service pole if it was overhead
(\$708.82)	\$12.18	1Ø 4/0 AWG, greater than 100 ft, machine trench, /ft (differential) - a service greater than 100' is one that would require a service pole if it was overhead

**Conversion Cost - Conversions of single phase (1Ø) OH Services to UG Services**

The "Conversion Cost" is the sum of: 1) the cost to remove whatever overhead facilities exist;

2) the cost of the remaining book value for those overhead facilities.

After paying the cost to remove and the book value, the Customer essentially becomes a new Customer and is charged the differential cost for his new underground service. The OH Service Cable Removal Cost and the Handy Whitman depreciation tables below are used to calculate the Conversion Cost. The total cost for a customer to convert his overhead service to underground service is the applicable Differential Cost for the new underground service plus the conversion cost.

**1) the cost to remove whatever overhead facilities exist**

<u>Action</u>	<u>Average length service</u>	<u>Total Removal Cost</u>	<u>System %</u>	<u>System Average Cost</u>
remove	1Ø - #2 AWG Triplex	\$87.60	10%	\$8.76
remove	1Ø - 2/0 AWG Triplex	\$87.60	70%	\$61.32
remove	1Ø - 4/0 AWG Triplex	\$87.60	20%	\$17.52
System Average cost to remove average length 1Ø service				\$87.60
<u>Action</u>	<u>Service length with a service pole</u>	<u>Total Removal Cost</u>	<u>System %</u>	<u>System Average Cost</u>
remove	1Ø - #2 AWG Triplex	\$147.57	10%	\$14.76
remove	1Ø - 2/0 AWG Triplex	\$147.57	70%	\$103.30
remove	1Ø - 4/0 AWG Triplex	\$147.57	20%	\$29.51
remove	30' wood pole, drive hook	\$303.06	50%	\$151.53
remove	35' wood pole, drive hook	\$313.38	50%	\$156.69
System Average cost to remove average long 1Ø service with service pole				\$455.79

**2) the cost of the remaining book value for those overhead facilities.**

Book Value Assumptions:

1. Average depreciation 0.036
2. Age of pole & service, yrs. 11
3. Handy Whitman Ratio, total dist.plant, 2007/2017 0.74

Book Value = (System Value Today) x (Handy Whitman Ratio) x (1 - (Std Dep. x Age))

<u>Action</u>	<u>Average length service</u>	<u>Total Installation Cost</u>	<u>System %</u>	<u>System Average Cost</u>
install	1Ø - #2 AWG Triplex	\$219.14	10%	\$21.91
install	1Ø - 2/0 AWG Triplex	\$254.54	70%	\$178.18
install	1Ø - 4/0 AWG Triplex	\$310.07	20%	\$62.01
System Average cost to install average length 1Ø service				\$262.11
Book Value for average length 1Ø service				\$117.48
<u>Action</u>	<u>Service length that requires a service pole</u>	<u>Total Installation Cost</u>	<u>System %</u>	<u>System Average Cost</u>
install	1Ø - #2 AWG Triplex	\$377.23	10%	\$37.72
install	1Ø - 2/0 AWG Triplex	\$447.11	70%	\$312.98
install	1Ø - 4/0 AWG Triplex	\$555.30	20%	\$111.06
install	35' wood pole, cable spacer	\$606.95	50%	\$303.48
	Haul pole to job site	\$194.41	100%	\$194.41
System Average cost to install average long 1Ø service with service pole				\$959.65
Book Value for average long 1Ø service with service pole				\$430.12

**1Ø Conversion Cost from OH to UG service**

1Ø Average Service - 100 ft or less(Svc without pole) = (book value + removal)

1Ø Average Long Service- Greater than 100 ft (svc with one pole) = (book value + removal)

<u>Remove Cost</u>	<u>Book value Cost</u>	<u>Conversion Cost</u>
\$87.60	\$117.48	\$205.08
\$455.79	\$430.12	\$885.91

Tariff Sheet No. 5.516 (3.7.2)

Density Class		Current Deposit 2018	CPI -U			Proposed Deposit 2021
			2018	2019	2020	
Urban commercial or residential (\$/mile)	\$	9,896	2.40%	1.80%	0.80%	\$ 10,391
Rural commercial or residential (\$/mile)	\$	5,657	2.40%	1.80%	0.80%	\$ 5,940
Per Lot Subdivisions (\$/lot)	\$	47	2.40%	1.80%	0.80%	\$ 49

**TAMPA ELECTRIC COMPANY**  
**DOCKET NO. 20210064-EI**  
**STAFF'S THIRD DATA REQUEST**  
**REQUEST NO. 3a**

**Table I**  
**OPERATING COSTS**

		2018 Actual \$	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	3-Yr Average Allocated Overhead \$	3-Yr Average Allocated Underground \$
<b>Overhead - Blanket Account</b>									
	<i>New SAP/Funding project</i>								
D-CRR-Voltage-OH (NEW)	CRR-02630, CRR-02879	\$173,845	\$236,000	\$263,090	\$224,312	100.0%	0.0%	\$224,312	\$0
PRE - Dist Line - Fault Indicators	PRE-05080	\$5,602	\$6,977	\$13,005	\$8,526	100.0%	0.0%	\$8,526	\$0
Distr - Maint - Corrective - OH Line	CRR-02682, CRR-03641, PRE-04820	\$9,965,721	\$11,118,166	\$10,246,537	\$10,443,475	100.0%	0.0%	\$10,443,475	\$0
Distribution - Maint - OH System Improvements		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Preventative - OH Line	PRE-02805, PRE-02627	\$6,761,430	\$9,140,424	\$6,448,231	\$7,450,028	100.0%	0.0%	\$7,450,028	\$0
Distr - Maint - Trouble - OH Storm	CRR-02625, CRR-07052	\$2,215,981	\$7,584,782	\$687,761	\$3,496,175	100.0%	0.0%	\$3,496,175	\$0
Distr - Maint - Pole Inspect & Change-Outs	PRE-02624	\$15,267,786	\$19,949,764	\$11,097,693	\$15,438,414	100.0%	0.0%	\$15,438,414	\$0
Distr - Maint - Damage Replacement - OH Line	CRR-02629, CRR-07072	\$1,689,413	\$2,037,373	\$2,655,044	\$2,127,277	100.0%	0.0%	\$2,127,277	\$0
CRR - Dist Line - Reclosers / Trip-savers	CRR-12716	\$229,616	\$240,114	\$512,584	\$327,438	100.0%	0.0%	\$327,438	\$0
Distr - Maint - Capacitors	PRE-02631, CRR-02628	\$435,897	\$131,914	\$298,534	\$288,782	100.0%	0.0%	\$288,782	\$0
Distr - Maint - Trouble - Non-Storm		\$0	\$0	\$0	\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Planned		\$0	\$0	\$0	\$0	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Unplanned		\$0	\$0	\$0	\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements	PRE-03670	\$467,400	\$401,509	\$434,229	\$434,379	100.0%	0.0%	\$434,379	\$0
Distr - Maint - Pole CLAs & Change-Outs	PRE-03640	\$254,663	\$84,313	\$67,705	\$135,560	100.0%	0.0%	\$135,560	\$0
Distr - Maint - Infrared Thermography		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Services - OH Line	CRR-02680	\$774,651	\$802,002	\$966,672	\$977,709	0.0%	0.0%	\$0	\$0
<b>Subtotal</b>		<b>\$38,241,906</b>	<b>\$51,823,336</b>	<b>\$33,690,986</b>	<b>\$41,252,076</b>				
<b>Underground - Blanket Account</b>									
D-CRR-Voltage-UG	CRR-03814	\$7,589	\$10,670	\$23,632	\$13,964	0.0%	100.0%	\$0	\$13,964
D-PRE-Transformers-UG	PRE-03623	\$3,504,752	\$1,551,277	\$2,084,383	\$2,380,137	0.0%	100.0%	\$0	\$2,380,137
Distr - Maint - Corrective - UG Line	CRR-02644, CRR-03642	\$13,068,396	10,753,405	\$10,427,986	\$11,416,595	0.0%	100.0%	\$0	\$11,416,595
Distribution - Maint - UG System Improvements		\$0	0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination		\$0	0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Preventative - UG Line	PRE-02809, PRE-02646	\$1,084,178	\$3,983,848	\$9,506,194	\$4,858,073	0.0%	100.0%	\$0	\$4,858,073
Distr - Maint - Network Corrective	CRR-02636	\$77,136	\$250,177	\$33,100	\$120,138	0.0%	100.0%	\$0	\$120,138
Distr - Maint - Network Preventative	PRE-04357	\$762,566	\$1,290,770	\$25,243	\$692,860	0.0%	100.0%	\$0	\$692,860
Distr - Maint - Capacitors - UG	CRR-02651, PRE-03813	\$12,430	\$396	\$53,629	\$22,152	0.0%	100.0%	\$0	\$22,152
Distr - Maint - UG Cable Rplcmnt - Planned	CRR-02649	\$3,724,487	\$3,944,431	\$2,906,062	\$3,524,993	0.0%	100.0%	\$0	\$3,524,993
Distr - Maint - Trouble - UG Storm	CRR-02645	\$838,010	\$629,674	\$265,878	\$577,854	0.0%	100.0%	\$0	\$577,854
Distr - Maint - Damage Replacement - UG Line	CRR-02652	\$586,171	\$1,105,493	\$1,211,387	\$967,684	0.0%	100.0%	\$0	\$967,684
Distr - Maint - UG Cable Rplcmnt - Unplanned		\$0	\$0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Services - UG Line	CRR-02679	\$1,089,934	\$895,524	\$812,991	\$932,817	0.0%	0.0%	\$0	\$0
<b>Subtotal</b>		<b>\$24,755,648</b>	<b>\$24,415,665</b>	<b>\$27,350,485</b>	<b>\$25,507,266</b>				
<b>Overhead - O&amp;M Account</b>									
D-CRR-Voltage-OH (NEW)	CRR-02630, CRR-02879	\$38,513	\$61,979	\$45,644	\$48,712	100.0%	0.0%	\$48,712	\$0
Distr - Maint - Corrective - OH Line	CRR-02858, CRR-02682	\$5,989,559	\$6,759,090	\$7,002,950	\$6,583,866	100.0%	0.0%	\$6,583,866	\$0
Distribution - Maint - OH System Improvements		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Preventative - OH Line	PRE-02627, PRE-02867, PRE-02868	\$98,503	\$176,940	\$124,407	\$133,283	100.0%	0.0%	\$133,283	\$0
Distr - Maint - Trouble - OH Storm	CRR-02625, CRR-02877	\$1,308,631	\$1,221,253	\$593,755	\$1,041,213	100.0%	0.0%	\$1,041,213	\$0
Distr - Maint - Pole Inspect & Change-Outs	PRE-04039, PRE-02859	\$1,929,160	\$1,959,009	\$904,908	\$1,597,692	100.0%	0.0%	\$1,597,692	\$0
Distr - Maint - Damage Replacement - OH Line	CRR-02861, CRR-02629	\$178,520	\$257,726	\$184,081	\$206,775	100.0%	0.0%	\$206,775	\$0
Distr - Maint - Capacitors	CRR-02628, CRR-02857	\$190,258	\$149,581	\$29,990	\$123,276	100.0%	0.0%	\$123,276	\$0
Distr - Maint - Trouble - Non-Storm	CRR-02876	\$2,387,796	\$2,807,237	\$2,814,800	\$2,669,944	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Storms - OH - Restoration	CRR-10852	\$0	\$13,636	\$0	\$4,545	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Reclosers / Trip-savers	CRR-12716	\$7	\$6,425	\$137	\$2,190	0.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Planned	PRE-04067	\$10,316,539	\$13,767,350	\$16,990,720	\$13,691,536	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect	OPS-04740, PRE-04060	\$21,039	\$13,489	\$26,923	\$20,484	100.0%	0.0%	\$20,484	\$0
Distr - Maint - Tree Trimming - Unplanned	CRR-03621	\$1,562,584	\$2,222,800	\$2,026,699	\$1,937,361	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Pole CLAs & Change-Outs	PRE-04062	\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Infrared Thermography		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Services - OH Line	CRR-02680, CRR-02871	\$786,519	\$808,204	\$839,741	\$911,488	0.0%	0.0%	\$0	\$0
<b>Subtotal</b>		<b>\$24,807,628</b>	<b>\$30,224,718</b>	<b>\$31,584,755</b>	<b>\$28,872,367</b>				
<b>Underground - O&amp;M Account</b>									
D-PRE-Transformers-UG	PRE-03623	\$3,479	\$0	\$0	\$1,160	0.0%	100.0%	\$0	\$1,160
Distr - Maint - Corrective - UG Line	CRR-02860, CRR-02644	\$1,548,934	1,449,637	\$1,710,255	\$1,569,609	0.0%	100.0%	\$0	\$1,569,609
Distribution - Maint - UG System Improvements		\$0	\$0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination		\$0	\$0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Preventative - UG Line	PRE-02869, PRE-02809, PRE-02646, PRE-02870	\$306,486	\$300,272	\$220,874	\$275,877	0.0%	100.0%	\$0	\$275,877
Distr - Maint - Network Corrective	CRR-02636, CRR-02863	\$20,524	\$7,379	\$5,573	\$11,159	0.0%	100.0%	\$0	\$11,159
Distr - Maint - Network Preventative	PRE-02864	\$513,913	\$635,686	\$660,604	\$603,401	0.0%	100.0%	\$0	\$603,401
Distr - Locate Facilities	PRE-04063	\$760,468	\$912,001	\$948,183	\$873,551	0.0%	100.0%	\$0	\$873,551
Distr - Maint - UG Cable Rplcmnt - Planned	CRR-03635, CRR-02649	\$127,829	\$71,431	\$23,766	\$74,342	0.0%	100.0%	\$0	\$74,342
Distr - Maint - Trouble - UG Storm	CRR-02878	\$120,874	\$29,492	\$19,316	\$56,561	0.0%	100.0%	\$0	\$56,561
D-CRR-Capacitors-UG	CRR-02651	\$0	\$773	\$0	\$258	0.0%	100.0%	\$0	\$258
D-CRR-Storms-UG	CRR-02645	\$0	\$0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Damage Replacement - UG Line	CRR-02862, CRR-02652	\$103,901	\$173,424	\$174,701	\$150,675	0.0%	100.0%	\$0	\$150,675
Distr - Maint - UG Cable Rplcmnt - Unplanned		\$0	\$0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Services - UG Line	CRR-02679, CRR-02872	\$423,145	\$654,095	\$712,258	\$596,499	0.0%	0.0%	\$0	\$0
<b>Subtotal</b>		<b>\$3,929,552</b>	<b>\$4,234,190</b>	<b>\$4,475,530</b>	<b>\$4,213,091</b>			<b>\$50,129,670</b>	<b>\$28,191,041</b>

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**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20210064-EI  
STAFF'S THIRD DATA REQUEST  
REQUEST NO. 3a**

**Table II  
PRIMARY VOLTAGE SYSTEM**

	2018 Actual \$	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Allocated Overhead \$	Allocated Underground \$
Distribution - Maint - Trouble Calls - Non-storm								
Blanket	\$0	\$0	\$0	\$0	77.7%	22.3%	\$0	\$0
O&M	\$2,387,796	\$2,807,237	\$2,814,800	\$2,669,944	77.7%	22.3%	\$2,074,547	\$595,398
Operating Cost Total from Table I							\$50,129,670	\$28,191,041
							<b>\$52,204,216</b>	<b>\$28,786,439</b>

	2018 Actual \$	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Allocated Overhead \$	Allocated Underground \$
Distr - Maint - Tree Trimming - Planned								
Blanket	\$0	\$0	\$0	\$0	96.1%	3.9%	\$0	\$0
O&M	\$10,316,539	\$13,767,350	\$16,990,720	\$13,691,536	96.1%	3.9%	\$13,157,894	\$533,642
Distr - Maint - Tree Trimming - Unplanned								
Blanket	\$0	\$0	\$0	\$0	96.1%	3.9%	\$0	\$0
O&M	\$1,562,584	\$2,222,800	\$2,026,699	\$1,937,361	96.1%	3.9%	\$1,861,851	\$75,511
							<b>\$15,019,745</b>	<b>\$609,153</b>

	2018 Actual \$	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Allocated Overhead \$	Allocated Underground \$
Annual Estimated Storm Costs								
Storm Damage Annual Accrual								
Percent for Distribution Lines & Substations								
Percent for Substations								
Percent for Distribution Lines								
Overall Distribution Percent								
Storm Cost Distribution Lines	\$43,133	\$7,219,800	\$794,787	\$ 2,685,907	96.0%	4.0%	\$2,578,471	\$107,436
							<b>\$2,578,471</b>	<b>\$107,436</b>

	2018 Actual \$	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Allocated Overhead \$	Allocated Underground \$
Pole Attachment Revenue	\$4,429,688	\$4,495,861	\$4,591,960	\$4,505,836	100.0%	0.0%	\$4,505,836	\$0
							<b>\$4,505,836</b>	<b>\$0</b>

**Table III  
SERVICE CONDUCTOR**

	2018 Actual \$	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Allocated Overhead \$	Allocated Underground \$
Distr - Maint - Services - OH Line								
Blanket	\$774,551	\$892,002	\$966,573	\$877,709	100.0%	0.0%	\$877,709	\$0
O&M	\$786,519	\$808,204	\$839,741	\$811,488	100.0%	0.0%	\$811,488	\$0
Distr - Maint - Services - UG Line								
Blanket	\$1,089,934	\$895,524	\$812,991	\$932,817	0.0%	100.0%	\$0	\$932,817
O&M	\$423,145	\$654,095	\$712,258	\$596,499	0.0%	100.0%	\$0	\$596,499
							<b>\$1,689,197</b>	<b>\$1,529,316</b>

**Table IV  
ALLOCATION FACTORS**

Line Clearance								
2020 No. of company owned distribution poles	418,770	96.1%						
2020 No. of Terminal Poles on System	16,322	3.9%						
Distribution - Maint - Trouble Calls - Non-storm								
			2020	2020				
			Overhead	Underground				
			System	System				
No Outage Events (N)	9,810	8,018	1,792					
Outage Sys Avg Duration (L-Bar)	166.49	158.36	202.88					
Trouble Calls Weighted Avg Proportion (N) X (L-Bar)	1,633,267	1,269,730	363,561					
Allocation Percentage		77.7%	22.3%					
Service Count (Based on Metered Accounts)								
			No of Services (Based on Metered Accounts)					
Overhead Single & Three Phase (Excluding Multi-Family)			246,960					
Underground Single Phase (Excluding Multi-Family)			284,735					

Table V (A)  
NET PRESENT VALUE LIFECYCLE COST CALCULATION  
(Primary Voltage System - Installation of Facilities In Subdivisions)

**Assumptions:**

Inflation Rate	0.80 %
Discount Rate	6.70 %
Book Life	35 Yrs
Pole Attach Revenue Increase	2.1 %

Overhead System								
Yr	(A) 3 Yr Avg Annual Operational Cost (\$)	(D) 3 Yr Avg Annual Pole Attachment Revenue (\$)	(A)+(D) 3 Yr Avg Annual Operational Cost Incl Lost Attachment Revenue(\$)	(B) 3 Yr Avg Clearance Cost (\$)	(C) Estimated Annual Storm Cost (\$)	(A)+(B)+(C)+ (D) NPV Incl Storm (\$)	(A)+(B)+(D) NPV Excl Storm (\$)	(C) NPV Storm Only (\$)
1	\$ 52,204,216	\$ (4,505,836)	\$ 47,698,380	\$ -	\$ 2,578,471	\$ 50,276,851	\$47,698,380	\$2,578,471
2	52,621,850	(4,602,149)	48,019,701	-	2,599,098	47,440,300	\$45,004,406	\$2,435,893
3	53,042,825	(4,700,520)	48,342,305	-	2,619,891	44,763,012	\$42,461,812	\$2,301,200
4	53,467,168	(4,800,993)	48,666,174	-	2,640,850	42,236,077	\$40,062,122	\$2,173,955
5	53,894,905	(4,903,615)	48,991,290	-	2,661,977	39,851,082	\$37,797,337	\$2,053,746
6	54,326,064	(5,008,429)	49,317,635	-	2,683,273	37,600,085	\$35,659,902	\$1,940,183
7	54,760,673	(5,115,484)	49,645,188	-	2,704,739	35,475,585	\$33,642,685	\$1,832,900
8	55,198,758	(5,224,828)	49,973,930	-	2,726,377	33,470,501	\$31,738,951	\$1,731,550
9	55,640,348	(5,336,509)	50,303,839	-	2,748,188	31,578,146	\$29,942,343	\$1,635,803
10	56,085,471	(5,450,577)	50,634,894	-	2,770,173	29,792,208	\$28,246,857	\$1,545,351
11	56,534,155	(5,567,083)	50,967,072	-	2,792,335	28,106,727	\$26,646,826	\$1,459,901
12	56,986,428	(5,686,079)	51,300,349	-	2,814,674	26,516,074	\$25,136,899	\$1,379,175
13	57,442,319	(5,807,619)	51,634,700	-	2,837,191	25,014,937	\$23,712,024	\$1,302,913
14	57,901,858	(5,931,757)	51,970,101	-	2,859,888	23,598,300	\$22,367,431	\$1,230,868
15	58,365,073	(6,058,548)	52,306,525	16,792,293	2,882,768	29,034,846	\$27,872,039	\$1,162,807
16	58,831,993	(6,188,050)	52,643,944	16,926,631	2,905,830	27,398,725	\$26,300,215	\$1,098,510
17	59,302,649	(6,320,319)	52,982,330	17,062,044	2,929,076	25,854,383	\$24,816,615	\$1,037,767
18	59,777,071	(6,455,416)	53,321,654	17,198,540	2,952,509	24,396,689	\$23,416,305	\$980,384
19	60,255,287	(6,593,401)	53,661,887	17,336,129	2,976,129	23,020,799	\$22,094,626	\$926,173
20	60,737,329	(6,734,335)	54,002,995	17,474,818	2,999,938	21,722,139	\$20,847,179	\$874,960
21	61,223,228	(6,878,281)	54,344,947	17,614,616	3,023,938	20,496,388	\$19,669,808	\$826,579
22	61,713,014	(7,025,304)	54,687,710	17,755,533	3,048,129	19,339,467	\$18,558,594	\$780,873
23	62,206,718	(7,175,470)	55,031,248	17,897,578	3,072,514	18,247,527	\$17,509,833	\$737,695
24	62,704,372	(7,328,846)	55,375,526	18,040,758	3,097,094	17,216,931	\$16,520,027	\$696,904
25	63,206,007	(7,485,500)	55,720,507	18,185,084	3,121,871	16,244,245	\$15,585,876	\$658,368
26	63,711,655	(7,645,502)	56,066,152	18,330,565	3,146,846	15,326,227	\$14,704,264	\$621,964
27	64,221,348	(7,808,925)	56,412,423	18,477,209	3,172,021	14,459,818	\$13,872,246	\$587,572
28	64,735,119	(7,975,841)	56,759,278	18,625,027	3,197,397	13,642,128	\$13,087,045	\$555,082
29	65,253,000	(8,146,324)	57,106,675	18,774,027	3,222,976	12,870,426	\$12,346,038	\$524,389
30	65,775,024	(8,320,452)	57,454,572	18,924,220	3,248,760	12,142,139	\$11,646,746	\$495,393
31	66,301,224	(8,498,302)	57,802,922	19,075,613	3,274,750	11,454,833	\$10,986,833	\$468,000
32	66,831,634	(8,679,953)	58,151,681	19,228,218	3,300,948	10,806,211	\$10,364,090	\$442,122
33	67,366,287	(8,865,487)	58,500,800	19,382,044	3,327,356	10,194,106	\$9,776,432	\$417,674
34	67,905,217	(9,054,987)	58,850,230	19,537,100	3,353,974	9,616,471	\$9,221,892	\$394,579
35	68,448,459	(9,248,537)	59,199,922	19,693,397	3,380,806	9,071,373	\$8,698,612	\$372,761
					SUM	\$ 858,275,756	\$ 818,013,292	\$ 40,262,465

NPV = (Annual Cost)/(1+(Discount Rate/100))^(Year -1)

Table V (B)  
NET PRESENT VALUE LIFECYCLE COST CALCULATION  
(Prietary Voltage System - Installation of Facilities In Subdivisions)

**Assumptions:**  
Inflation Rate 0.80 %  
Discount Rate 6.70 %  
Book Life 35 Yrs  
Pole Attach Revenue Increase 2.1 %

Underground System						
Yr	(A) 3 Yr Avg Annual Operational Cost (\$)	(B) 3 Yr Avg Annual Line Clearance Cost (\$)	(C) Estimated Annual Storm Cost (\$)	(A)+(B)+(C) NPV Incl Storm (\$)	(A)+(B) NPV Excl Storm (\$)	(C) NPV Storm Only (\$)
1	\$ 28,786,439	\$ -	\$ 107,436	\$ 28,893,875	\$ 28,786,439	\$107,436
2	29,016,730	-	108,296	27,296,182	27,194,686	\$101,496
3	29,248,864	-	109,162	25,786,833	25,690,950	\$95,883
4	29,482,855	-	110,035	24,360,945	24,270,363	\$90,581
5	29,718,718	-	110,916	23,013,901	22,928,328	\$85,573
6	29,956,468	-	111,803	21,741,342	21,660,501	\$80,841
7	30,196,119	-	112,697	20,539,150	20,462,779	\$76,371
8	30,437,688	-	113,599	19,403,433	19,331,285	\$72,148
9	30,681,190	-	114,508	18,330,516	18,262,358	\$68,158
10	30,926,639	-	115,424	17,316,926	17,252,537	\$64,390
11	31,174,052	-	116,347	16,359,383	16,298,554	\$60,829
12	31,423,445	-	117,278	15,454,787	15,397,322	\$57,466
13	31,674,832	-	118,216	14,600,211	14,545,923	\$54,288
14	31,928,231	-	119,162	13,792,889	13,741,603	\$51,286
15	32,183,657	681,042	120,115	13,304,917	13,256,467	\$48,450
16	32,441,126	686,490	121,076	12,569,219	12,523,447	\$45,771
17	32,700,655	691,982	122,045	11,874,201	11,830,961	\$43,240
18	32,962,260	697,518	123,021	11,217,614	11,176,765	\$40,849
19	33,225,959	703,098	124,005	10,597,334	10,558,743	\$38,591
20	33,491,766	708,723	124,997	10,011,352	9,974,895	\$36,457
21	33,759,700	714,392	125,997	9,457,772	9,423,331	\$34,441
22	34,029,778	720,107	127,005	8,934,802	8,902,266	\$32,536
23	34,302,016	725,868	128,021	8,440,751	8,410,013	\$30,737
24	34,576,432	731,675	129,046	7,974,017	7,944,980	\$29,038
25	34,853,044	737,529	130,078	7,533,092	7,505,660	\$27,432
26	35,131,868	743,429	131,119	7,116,548	7,090,633	\$25,915
27	35,412,923	749,376	132,168	6,723,037	6,698,555	\$24,482
28	35,696,226	755,371	133,225	6,351,285	6,328,157	\$23,128
29	35,981,796	761,414	134,291	6,000,090	5,978,240	\$21,850
30	36,269,651	767,506	135,365	5,668,313	5,647,672	\$20,641
31	36,559,808	773,646	136,448	5,354,883	5,335,383	\$19,500
32	36,852,286	779,835	137,539	5,058,783	5,040,362	\$18,422
33	37,147,105	786,074	138,640	4,779,057	4,761,654	\$17,403
34	37,444,281	792,362	139,749	4,514,798	4,498,357	\$16,441
35	37,743,836	798,701	140,867	4,265,151	4,249,619	\$15,532
			SUM	\$ 454,637,392	\$ 452,959,789	\$ 1,677,603

Table VI (A)  
NET PRESENT VALUE LIFECYCLE COST CALCULATION  
(Services)

**Assumptions:**

Inflation Rate	0.80 %
Discount Rate	6.70 %
Book Life	35 Yrs
Pole Attach Revenue Increase	2.1 %

Overhead System									
Yr	(A) 3 Yr Avg Annual Operational Cost (\$)	(D) 3 Yr Avg Annual Pole Attachment Revenue (\$)	(A)+(D) 3 Yr Avg Annual Operational Cost Incl Lost Attachment Revenue(\$)		(B) 3 Yr Avg Annual Line Clearance Cost (\$)	(C) Estimated Annual Storm Cost (\$)	(A)+(B)+(C)+ (D) NPV Incl Storm (\$)	(A)+(B)+(D) NPV Excl Storm (\$)	(C) NPV Storm Only (\$)
1	\$ 1,689,197	\$ -	\$ 1,689,197	\$ -	\$ -	\$ 1,689,197	\$1,689,197	\$0	
2	1,702,710	-	1,702,710	-	-	1,595,792	\$1,595,792	\$0	
3	1,716,332	-	1,716,332	-	-	1,507,552	\$1,507,552	\$0	
4	1,730,062	-	1,730,062	-	-	1,424,192	\$1,424,192	\$0	
5	1,743,903	-	1,743,903	-	-	1,345,441	\$1,345,441	\$0	
6	1,757,854	-	1,757,854	-	-	1,271,044	\$1,271,044	\$0	
7	1,771,917	-	1,771,917	-	-	1,200,762	\$1,200,762	\$0	
8	1,786,092	-	1,786,092	-	-	1,134,365	\$1,134,365	\$0	
9	1,800,381	-	1,800,381	-	-	1,071,640	\$1,071,640	\$0	
10	1,814,784	-	1,814,784	-	-	1,012,384	\$1,012,384	\$0	
11	1,829,302	-	1,829,302	-	-	956,404	\$956,404	\$0	
12	1,843,937	-	1,843,937	-	-	903,519	\$903,519	\$0	
13	1,858,688	-	1,858,688	-	-	853,559	\$853,559	\$0	
14	1,873,558	-	1,873,558	-	-	806,361	\$806,361	\$0	
15	1,888,546	-	1,888,546	-	-	761,773	\$761,773	\$0	
16	1,903,655	-	1,903,655	-	-	719,651	\$719,651	\$0	
17	1,918,884	-	1,918,884	-	-	679,858	\$679,858	\$0	
18	1,934,235	-	1,934,235	-	-	642,265	\$642,265	\$0	
19	1,949,709	-	1,949,709	-	-	606,751	\$606,751	\$0	
20	1,965,307	-	1,965,307	-	-	573,200	\$573,200	\$0	
21	1,981,029	-	1,981,029	-	-	541,505	\$541,505	\$0	
22	1,996,877	-	1,996,877	-	-	511,562	\$511,562	\$0	
23	2,012,852	-	2,012,852	-	-	483,275	\$483,275	\$0	
24	2,028,955	-	2,028,955	-	-	456,553	\$456,553	\$0	
25	2,045,187	-	2,045,187	-	-	431,307	\$431,307	\$0	
26	2,061,548	-	2,061,548	-	-	407,458	\$407,458	\$0	
27	2,078,041	-	2,078,041	-	-	384,928	\$384,928	\$0	
28	2,094,665	-	2,094,665	-	-	363,643	\$363,643	\$0	
29	2,111,422	-	2,111,422	-	-	343,535	\$343,535	\$0	
30	2,128,314	-	2,128,314	-	-	324,539	\$324,539	\$0	
31	2,145,340	-	2,145,340	-	-	306,594	\$306,594	\$0	
32	2,162,503	-	2,162,503	-	-	289,641	\$289,641	\$0	
33	2,179,803	-	2,179,803	-	-	273,625	\$273,625	\$0	
34	2,197,241	-	2,197,241	-	-	258,495	\$258,495	\$0	
35	2,214,819	-	2,214,819	-	-	244,201	\$244,201	\$0	
						SUM \$ 26,376,573	\$ 26,376,573	\$ -	

NPV = (Annual Cost)/(1+(Discount Rate/100))^(Year -1)

Table VI (B)  
NET PRESENT VALUE LIFECYCLE COST CALCULATION  
(Services)

**Assumptions:**

Inflation Rate	0.80 %
Discount Rate	6.70 %
Book Life	35 Yrs
Pole Attach Revenue Increase	2.1 %

<b>Underground System</b>						
Yr	(A)	(B)	(C)	(A)+(B)+(C)	(A)+(B)	(C)
	<u>3 Yr Avg</u> <u>Annual</u> <u>Operational</u> <u>Cost (\$)</u>	<u>3 Yr Avg</u> <u>Annual Line</u> <u>Clearance</u> <u>Cost (\$)</u>	<u>Estimated</u> <u>Annual Storm</u> <u>Cost (\$)</u>	<u>NPV Incl Storm</u> <u>(\$)</u>	<u>NPV Excl Storm</u> <u>(\$)</u>	<u>NPV Storm</u> <u>Only (\$)</u>
1	\$ 1,529,316	\$ -	\$ -	\$ 1,529,316	\$ 1,529,316	\$0
2	1,541,550	-	-	1,444,752	1,444,752	\$0
3	1,553,883	-	-	1,364,864	1,364,864	\$0
4	1,566,314	-	-	1,289,394	1,289,394	\$0
5	1,578,844	-	-	1,218,096	1,218,096	\$0
6	1,591,475	-	-	1,150,741	1,150,741	\$0
7	1,604,207	-	-	1,087,111	1,087,111	\$0
8	1,617,041	-	-	1,026,999	1,026,999	\$0
9	1,629,977	-	-	970,211	970,211	\$0
10	1,643,017	-	-	916,563	916,563	\$0
11	1,656,161	-	-	865,881	865,881	\$0
12	1,669,410	-	-	818,002	818,002	\$0
13	1,682,765	-	-	772,771	772,771	\$0
14	1,696,228	-	-	730,040	730,040	\$0
15	1,709,797	-	-	689,672	689,672	\$0
16	1,723,476	-	-	651,537	651,537	\$0
17	1,737,264	-	-	615,510	615,510	\$0
18	1,751,162	-	-	581,475	581,475	\$0
19	1,765,171	-	-	549,322	549,322	\$0
20	1,779,292	-	-	518,947	518,947	\$0
21	1,793,527	-	-	490,252	490,252	\$0
22	1,807,875	-	-	463,143	463,143	\$0
23	1,822,338	-	-	437,534	437,534	\$0
24	1,836,917	-	-	413,340	413,340	\$0
25	1,851,612	-	-	390,485	390,485	\$0
26	1,866,425	-	-	368,893	368,893	\$0
27	1,881,356	-	-	348,495	348,495	\$0
28	1,896,407	-	-	329,225	329,225	\$0
29	1,911,578	-	-	311,020	311,020	\$0
30	1,926,871	-	-	293,822	293,822	\$0
31	1,942,286	-	-	277,575	277,575	\$0
32	1,957,824	-	-	262,227	262,227	\$0
33	1,973,487	-	-	247,727	247,727	\$0
34	1,989,275	-	-	234,029	234,029	\$0
35	2,005,189	-	-	221,088	221,088	\$0
			SUM	\$ 23,880,057	\$ 23,880,057	\$ -

**Table VII**  
**Net Present Value of Operational Costs**  
**Per Mile & Per Service Calculations**

<u>Overhead</u>			
<b>Primary Voltage System</b>	Incl Storm	Excl Storm	Storm Only
NPV Life Cycle Cost	\$858,275,756	\$818,013,292	\$40,262,465
System Miles OH	6,246	6,246	6,246
NPV Life Cycle Cost / Mile	\$137,412.06	\$130,965.94	\$6,446.12
<b>Services</b>	Incl Storm	Excl Storm	Storm Only
NPV Life Cycle Cost	\$26,376,573	\$26,376,573	\$0
Number of Services	246,960	246,960	246,960
NPV Life Cycle Cost / Service	\$106.81	\$106.81	\$0.00
<u>Underground</u>			
<b>Primary Voltage System</b>	Incl Storm	Excl Storm	Storm Only
NPV Life Cycle Cost	\$454,637,392	\$452,959,789	\$1,677,603
System Miles OH	5,715	5,715	5,715
NPV Life Cycle Cost / Mile	\$79,551.60	\$79,258.06	\$293.54
<b>Services</b>	Incl Storm	Excl Storm	Storm Only
NPV Life Cycle Cost	\$23,880,057	\$23,880,057	\$0
Number of Services	284,735	284,735	284,735
NPV Life Cycle Cost / Service	\$83.87	\$83.87	\$0.00
<u>Differential</u>			
<b>Primary Voltage System</b>	Incl Storm	Excl Storm	Storm Only
NPV Life Cycle Cost / Mile	-\$57,860.46	-\$51,707.88	-\$6,152.58
<b>Services</b>	Incl Storm	Excl Storm	Storm Only
NPV Life Cycle Cost / Service	-\$22.94	-\$22.94	\$0.00

**Table VIII**  
**Net Present Value of Operational Costs**  
**Per Lot Calculations**

<u>Low Density Subdivision</u>					
<u>Overhead</u>					
	Number of Lots	Miles of Line	Incl Storm \$ / Lot	Excl Storm \$ / Lot	Storm Only \$ / Lot
<b>Primary Voltage System</b> <sup>1</sup>	210	1.92	\$1,256.34	\$1,197.40	\$58.94
<b>Services</b>	NA	NA	\$106.81	\$106.81	\$0.00
<b>Primary &amp; Service</b>			\$1,363.15	\$1,304.21	\$58.94
<u>Underground</u>					
<b>Primary Voltage System</b> <sup>1</sup>	210	2.99	\$1,132.66	\$1,128.48	\$4.18
<b>Services</b>	NA	NA	\$83.87	\$83.87	\$0.00
<b>Primary &amp; Service</b>			\$1,216.53	\$1,212.35	\$4.18
<b>Primary &amp; Service</b>			<b><u>Differential</u></b>	<b><u>-\$91.86</u></b>	<b><u>-\$54.76</u></b>
<u>High Density Subdivision</u>					
<u>Overhead</u>					
	Number of Lots	Miles of Line	Incl Storm \$ / Lot	Excl Storm \$ / Lot	Storm Only \$ / Lot
<b>Primary Voltage System</b> <sup>1</sup>	176	1.17	\$913.48	\$870.63	\$42.85
<b>Services</b>	NA	NA	\$106.81	\$106.81	\$0.00
<b>Primary &amp; Service</b>			\$1,020.29	\$977.44	\$42.85
<u>Underground</u>					
<b>Primary Voltage System</b> <sup>1</sup>	176	1.07	\$483.64	\$481.85	\$1.78
<b>Services</b>	NA	NA	\$83.87	\$83.87	\$0.00
<b>Primary &amp; Service</b>			\$567.51	\$565.72	\$1.78
<b>Primary &amp; Service</b>			<b><u>Differential</u></b>	<b><u>-\$411.72</u></b>	<b><u>-\$41.07</u></b>

**Note**

1. Formula = (NPV Life Cycle Cost / Mile) x (Miles of Line) / (Number of Lots)

TAMPA ELECTRIC COMPANY  
DOCKET NO. 20210064-EI  
STAFF'S THIRD DATA REQUEST  
REQUEST NO. 3a

**Table IX**  
**2020 O&M - FORM 13**

	2020 Actual \$	OH Ratio	UG Ratio	2020 Allocated Overhead \$	2020 Allocated Underground \$
<b>Overhead - Blanket Account</b>					
D-CRR-Voltage-OH (NEW)	\$263,090	100.0%	0.0%	\$263,090	\$0
PRE - Dist Line - Fault Indicators	\$13,005	100.0%	0.0%	\$13,005	\$0
Distr - Maint - Corrective - OH Line	\$10,246,537	100.0%	0.0%	\$10,246,537	\$0
Distribution - Maint - OH System Improvements	\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Preventative - OH Line	\$6,448,231	100.0%	0.0%	\$6,448,231	\$0
Distr - Maint - Trouble - OH Storm	\$687,761	100.0%	0.0%	\$687,761	\$0
Distr - Maint - Pole Inspect & Change-Outs	\$11,097,693	100.0%	0.0%	\$11,097,693	\$0
Distr - Maint - Damage Replacement - OH Line	\$2,655,044	100.0%	0.0%	\$2,655,044	\$0
Distr - Maint - Capacitors	\$298,534	100.0%	0.0%	\$298,534	\$0
Distr - Maint - Trouble - Non-Storm	\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Planned	\$0	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Unplanned	\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements	\$434,229	100.0%	0.0%	\$434,229	\$0
Distr - Maint - Pole CLAs & Change-Outs	\$67,705	100.0%	0.0%	\$67,705	\$0
Distr - Maint - Infrared Thermography	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Services - OH Line	\$966,573	0.0%	0.0%	\$0	\$0
<b>Subtotal</b>	<b>\$33,178,402</b>				
<b>Underground - Blanket Account</b>					
D-CRR-Voltage-UG	\$23,632	0.0%	100.0%	\$0	\$23,632
D-PRE-Transformers-UG	\$2,084,383	0.0%	100.0%	\$0	\$2,084,383
Distr - Maint - Corrective - UG Line	\$10,427,986	0.0%	100.0%	\$0	\$10,427,986
Distribution - Maint - UG System Improvements	\$0	0.0%	100.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Preventative - UG Line	\$9,506,194	0.0%	100.0%	\$0	\$9,506,194
Distr - Maint - Network Corrective	\$33,100	0.0%	100.0%	\$0	\$33,100
Distr - Maint - Network Preventative	\$25,243	0.0%	100.0%	\$0	\$25,243
Distr - Maint - Capacitors - UG	\$53,629	0.0%	100.0%	\$0	\$53,629
Distr - Maint - UG Cable Rplcmnt - Planned	\$2,906,062	0.0%	100.0%	\$0	\$2,906,062
Distr - Maint - Trouble - UG Storm	\$265,878	0.0%	100.0%	\$0	\$265,878
Distr - Maint - Damage Replacement - UG Line	\$1,211,387	0.0%	100.0%	\$0	\$1,211,387
Distr - Maint - UG Cable Rplcmnt - Unplanned	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Services - UG Line	\$812,991	0.0%	0.0%	\$0	\$0
<b>Subtotal</b>	<b>\$27,350,485</b>				
<b>Overhead - O&amp;M Account</b>					
D-CRR-Voltage-OH (NEW)	\$45,644	100.0%	0.0%	\$45,644	\$0
Distr - Maint - Corrective - OH Line	\$7,002,950	100.0%	0.0%	\$7,002,950	\$0
Distribution - Maint - OH System Improvements	\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Preventative - OH Line	\$124,407	100.0%	0.0%	\$124,407	\$0
Distr - Maint - Trouble - OH Storm	\$593,755	100.0%	0.0%	\$593,755	\$0
Distr - Maint - Pole Inspect & Change-Outs	\$904,908	100.0%	0.0%	\$904,908	\$0
Distr - Maint - Damage Replacement - OH Line	\$184,081	100.0%	0.0%	\$184,081	\$0
Distr - Maint - Capacitors	\$29,990	100.0%	0.0%	\$29,990	\$0
Distr - Maint - Trouble - Non-Storm	\$2,814,800	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Storms - OH - Restoration	\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Planned	\$16,990,720	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect	\$26,923	100.0%	0.0%	\$26,923	\$0
Distr - Maint - Tree Trimming - Unplanned	\$2,026,699	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Pole CLAs & Change-Outs	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Infrared Thermography	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Services - OH Line	\$839,741	0.0%	0.0%	\$0	\$0
<b>Subtotal</b>	<b>\$31,584,618</b>				
<b>Underground - O&amp;M Account</b>					
D-PRE-Transformers-UG	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Corrective - UG Line	\$1,710,255	0.0%	100.0%	\$0	\$1,710,255
Distribution - Maint - UG System Improvements	\$0	0.0%	100.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Preventative - UG Line	\$220,874	0.0%	100.0%	\$0	\$220,874
Distr - Maint - Network Corrective	\$5,573	0.0%	100.0%	\$0	\$5,573
Distr - Maint - Network Preventative	\$660,604	0.0%	100.0%	\$0	\$660,604
Distr - Locate Facilities	\$948,183	0.0%	100.0%	\$0	\$948,183
Distr - Maint - UG Cable Rplcmnt - Planned	\$23,766	0.0%	100.0%	\$0	\$23,766
Distr - Maint - Trouble - UG Storm	\$19,316	0.0%	100.0%	\$0	\$19,316
D-CRR-Capacitors-UG	\$0	0.0%	100.0%	\$0	\$0
D-CRR-Storms-UG	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Damage Replacement - UG Line	\$174,701	0.0%	100.0%	\$0	\$174,701
Distr - Maint - UG Cable Rplcmnt - Unplanned	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Services - UG Line	\$712,258	0.0%	0.0%	\$0	\$0
<b>Subtotal</b>	<b>\$4,475,530</b>				
				\$41,124,487	\$30,300,766
<b>Distribution - Maint - Trouble Calls - Non-storm</b>					
Blanket	\$0	77.7%	22.3%	\$0	\$0
O&M	\$2,814,800	77.7%	22.3%	\$2,187,100	\$627,700
<b>Distr - Maint - Tree Trimming - Planned</b>					
Blanket	\$0	96.1%	3.9%	\$0	\$0
O&M	\$16,990,720	96.1%	3.9%	\$16,328,489	\$662,231
<b>Distr - Maint - Tree Trimming - Unplanned</b>					
Blanket	\$0	96.1%	3.9%	\$0	\$0
O&M	\$2,026,699	96.1%	3.9%	\$1,947,706	\$78,993
<b>Distr - Maint - Services - OH Line</b>					
Blanket	\$966,573	100.0%	0.0%	\$966,573	\$0
O&M	\$839,741	100.0%	0.0%	\$839,741	\$0
<b>Distr - Maint - Services - UG Line</b>					
Blanket	\$812,991	0.0%	100.0%	\$0	\$812,991
O&M	\$712,258	0.0%	100.0%	\$0	\$712,258
				\$63,394,096	\$33,194,939

**ENERGY DELIVERY**  
**"2021" ADDER STUDY**  
Provided by ED Business Planning

	<u>Toolkit</u>
	<b>Distribution CIAC</b>
<b>Total Corporate Accounting FRINGE Rates per Activity A&amp;G (for PSTEW)</b>	<b>72.62%</b>
<b>Other "Operating Labor" related adders:</b>	
Non-Productive Time*	13.00%
Energy Delivery (Supervisory/Administrative)	15.18%
Energy Delivery Engineering	0.00%
Small Tools *	5.39%
<b>TOTAL Other "Labor" related Adders</b>	<b>33.58%</b>
<b>TOTAL Fully Loaded "Labor" adders</b>	<b>106.20%</b>
<b>Fleet* as a % of Labor (rate of settled labor w/ fringe)</b>	<b>14.81%</b>
<b>Fleet* as a % of Labor (rate excluding 37% fringe)</b>	<b>20.29%</b>
<b>"Material" related adders:</b>	
Stores Carrying Cost (ED Stores Clearing) *	4.30%
Stores Carrying Cost (WH Space, Taxes, Insurance & Obsolete Mat)	4.83%
Stores Carrying Cost (Cost of Money - PDR only)	0.00%
Self Help *	3.09%
<b>TOTAL "Material" related Adders</b>	<b>12.22%</b>
<b>Other "Contractor" related adders:</b>	
Energy Delivery (Supervisory/Administrative/Engineering)	20.06%
<b>TOTAL Fully Loaded "Contractor" adders</b>	<b>20.06%</b>

\* When determining final bill true up or calculating pay-after invoice using actual results, exclude these items, which will already be included in actuals