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# AUSLEY & MCMULLEN

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## April 1, 2021

## VIA: ELECTRONIC FILING

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

Re: Petition of Tampa Electric Company for Approval of Revised Underground Residential Distribution Tariff

Dear Mr. Teitzman:

Attached for filing in the above-styled matter is Tampa Electric Company's Petition for Approval of Revised Tariffs for Underground Residential Distribution.

Thank you for your assistance in connection with this matter.

Sincerely,

James Worken Las

James D. Beasley

JDB/bmp Attachment

#### **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Petition of Tampa Electric Company ) for Approval of Revised Underground ) Residential Distribution Tariff ) DOCKET NO. \_\_\_\_\_

FILED: April 1, 2021

#### PETITION OF TAMPA ELECTRIC COMPANY

In accordance with Commission Rule 28-6.078(2), Florida Administrative Code ("F.A.C."), Tampa Electric Company ("Tampa Electric" or "the company") files this Petition for Approval of Revised Tariffs for Underground Residential Distribution. The revised tariff sheets containing updated Underground Residential Distribution ("URD") charges that reflect the cost differential between overhead ("OH") and underground ("UG") distribution service are attached hereto in standard and legislative formats as Exhibits "A" and "B", respectively. Form PSC/EAG 13, *Overhead/Underground Residential Differential Cost Data*, and supporting data and analyses for the proposed URD charges are provided in Exhibit "C". In support thereof, the company says:

1. The name, address, telephone number and facsimile number of the petitioner are:

Tampa Electric Company Post Office Box 111 Tampa, FL 33601 (813) 228-4111 (813) 228-1770 (fax)

2. Tampa Electric is an investor-owned public utility subject to the jurisdiction of the Commission under Chapter 366, Florida Statutes.

3. All notices, pleadings and correspondence required to be served on the Petitioner should be directed to:

James D. Beasley J. Jeffry Wahlen Malcolm N. Means Ausley & McMullen Post Office Box 391 Paula Brown, Manager Regulatory Coordination Tampa Electric Company Post Office Box 111 Tampa, FL 33602 Tallahassee, FL 32302 (850) 224-9115 (850) 222-7960 (fax) jbeasley@ausley.com (email) jwahlen@ausley.com (email) mmeans@ausley.com (email)

(813) 228-1444 (813) 228-1770 (fax) regdept@tecoenergy.com (email)

#### **Background**

4. Since 2017, as approved by the Commission in Docket No. 20170073-EI, Tampa Electric has charged \$0.00 for both Low Density and High Density URD Lot Charges. This Reduction to \$0.00 charges has been well received by the subdivision development community and has maintained the trend for all subdivision development to utilize underground power line installation to serve customers.

5. Since that time, the Florida Legislature initiated legislation, which was subsequently signed into law by the Governor of Florida, that provided direction to the Commission to support the development of Storm Protection Plans and related cost recovery. This legislative direction has since been codified in rules promulgated by the Commission and implemented by Tampa Electric and the other investor-owned electric utilities to facilitate the hardening and undergrounding of certain electrical distribution facilities to resist the damaging impact of hurricanes and other storms on the overhead infrastructure of those utilities, which improves service reliability to customers.

6. The URD rule 25-6.078 FAC, which in part requires that Tampa Electric file this Petition to review and update the URD charges, including the lot charges, provides guidance on the cost support to be used to develop updated charges. However, there are two subsections of the rule that can affect that calculation. First, subsection (2) of the rule says that the cost estimates for the calculated differential "...shall reflect the requirements of Rule 25-6.030, F.A.C., Storm Protection Plan, Rule 25-6.034, F.A.C., Standard of Construction, Rule 25-6.0341, F.A.C.,

Location of the Utility's Distribution Facilities, and Rule 25-6.0345, F.A.C., Safety Standards for Construction of New Transmission and Distribution Facilities."

7. Second, Subsection (10) of the rule says a utility can waive all or any portion of a cost differential for providing underground facilities, as long as it reduces net plant in service as if the differential had been collected, with an exception provided to this requirement if the Commission determines that "... there is a quantifiable benefit to the general body of ratepayers commensurate with the waived differential."

8. While the cost support for the lot charges provided with this filing shows a negative value for the High Density lot charges, supporting continuation of a \$0.00 lot charge, the cost support for the Low Density shows a positive value. Tampa Electric is requesting that the Low Density charge continue to be set at \$0.00 and in support would point to Subsections (2) and (10) of the rule. The implementation of the Storm Protection Plan rule, which is included in Subsection (2), clearly reflects the public policy desire that service be provided to customers using underground cable rather than overhead wires and poles which are subject to storm damage. Providing a monetary incentive to build subdivisions overhead, even at a low level, would send the wrong signal to subdivision developers. Any overhead construction, particularly in a subdivision, increases the impact of damage from storms and delays the return to service of all customers.

9. With regard to Subsection (10) of the URD rule the same is true. The general body of ratepayers would benefit from continued development of underground served subdivisions with shortened, or even avoided, restoration times after storms.

10. In addition, the costs developed during the URD analyses are subject to swings in cost between overhead and underground construction that are affected by storm impact on market prices for replacement poles, transformers, and wire. Events, such as the COVID-19 pandemic,

that reduce manufacturing capacity and extend delivery timelines for such equipment also affect prices.

11. For the reasons described above, Tampa Electric is requesting in this petition that both URD lot charges continue to be set at \$0.00 per lot.

12. The proposed charges and credits contained in Revised Tariff Sheet Nos. 5.510, 5.515, and 5.516 are based on current labor and material costs from the previous twelve-month period and are prepared in accordance with the requirements of Rules 25-6.064, 25-6.078, and 25-6.115, F.A.C.

#### **Proposed "Per Lot" Charges for Low Density and High Density Subdivisions**

13. Tampa Electric's proposed differential charge for low density URD subdivisions is \$0.00 per lot which is the same as the current charge of \$0.00 per lot. The company's proposed High Density charge is \$0.00 per individually-metered lot which is the same as the current charge of \$0.00 per lot.

#### Proposed Charges for UG Services from OH Distribution Sources

14. For new single-phase UG services from OH distribution sources, the proposed Fixed Charge, representing fixed labor and material costs that are not impacted by the variable service length, has decreased from \$71.36 to \$18.46 for 2/0 UG service laterals and decreased from \$106.53 to \$92.54 for 4/0 UG service laterals.

15. The proposed "Per Trench Foot" charges have increased from \$10.02 to \$11.62 per foot for 2/0 cable and from \$9.91 to \$12.18 per foot for 4/0 cable.

16. The proposed credit for avoiding a service pole has increased from \$592.39 to\$801.36.

#### Proposed Charges for Conversion of Existing OH Services to UG

17. For converted single phase UG services, the proposed OH service removal charge has increased from \$167.70 to \$205.08 for service cable only and has increased from \$752.94 to \$885.91 when removal involves a service pole.

18. Tampa Electric is also proposing an updated non-refundable deposit charge for binding estimates conversion of existing OH distribution facilities to UG. Those charges, escalated by CPI over the three-year period, increase from \$9,896 to \$10,391 per mile for the urban density class, from \$5,657 to \$5,940 per mile for the rural density class, and \$47 to \$49 per lot for the per lot subdivisions class.

19. Tampa Electric knows of no disputed issues of material fact relative to the tariff revisions proposed herein.

WHEREFORE, Tampa Electric requests that this Commission consent to the above described revised tariff sheets as set forth in Exhibit "A" under the provisions of Section 366.03(3), Florida Statutes.

Dated this 1st day of April, 2021.

Respectfully submitted,

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JAMES D. BEASLEY J. JEFFRY WAHLEN MALCOLM N. MEANS Ausley & McMullen Post Office Box 391 Tallahassee, FL 32302 (850) 224-9115

ATTORNEYS FOR TAMPA ELECTRIC COMPANY

Exhibit "A"



## ELEVENTH REVISED SHEET NO. 5.510 CANCELS TENTH REVISED SHEET NO. 5.510

#### Continued from Sheet No. 5.500

## 3.6.5.1 Single Meter Commercial Service

Mobile Home Parks will be supplied single-meter commercial service only where park owner or operator supplies (furnishes) electrical service as a part of his rental and/or general service charge to tenants. Resale of electric energy through park owned meters will not be permitted (See 2.2.1)

## 3.6.5.2 Individual Company Metered Service

Mobile Home Parks will be supplied through company installed individual meters for individual tenants and other types of service required in park under the provisions required on 3.4.3 and 3.4.4 and the subparts appertaining thereto.

## 3.6.6 Miscellaneous Types of Electric Service

Certain other types of electric service are available from the company. Information on such services not specifically covered in this Tariff may be obtained at the nearest company office. Such special cases will be given individual consideration.

#### 3.7 SCHEDULE OF STANDARD CHARGES AND NON-REFUNDABLE DEPOSITS FOR COST ESTIMATES FOR UNDERGROUND ELECTRIC DISTRIBUTION SYSTEMS

## 3.7.1 Standard Charges

The Standard Charges listed here are Contributions In Aid of Construction (CIAC) which are referenced by other sections of these rules and regulations.

## 3.7.1.1 Residential Subdivision

Low Density Subdivisions per service lateral or dwelling unit	\$0.00
High Density Subdivisions per service lateral or dwelling unit	\$0.00

#### 3.7.1.2 New Single-phase UG Service Laterals from Overhead Distribution Systems

Fixed Charge for 2/0 service lateral	\$18.46
Fixed Charge for 4/0 service lateral	\$92.54
Per trench foot charge for 2/0 service lateral	\$11.62
Per trench foot charge for 4/0 service lateral	\$12.18
Credit for service pole if otherwise required for overhead service	\$801.36

Continued to Sheet No. 5.515



## SEVENTEENTH REVISED SHEET NO. 5.515 CANCELS SIXTEENTH REVISED SHEET NO. 5.515

	Continued from Sheet No. 5.510	
3.7.1.3	Single-phase UG Service Laterals Converted from Existing Overhead Service Drops	
	Removal charge for overhead service with no service pole	\$205.08
	Removal charge for overhead service with a service pole	\$885.91
	Fixed Charge for 2/0 service lateral Fixed Charge for 4/0 service lateral	\$18.46 \$92.54
	Per trench foot charge for 2/0 service lateral Per trench foot charge for 4/0 service lateral	\$11.62 \$12.18
	Credit for service pole if otherwise required for overhead service	\$801.36

Continued to Sheet No. 5.516



Continued from Sheet No. 5.515

## 3.7.2 Non-refundable Deposits for Estimates of CIAC for Conversion of Existing Overhead Distribution Facilities to Underground Facilities

Qualified applicants can request, upon payment of a non-refundable deposit as listed below, the conversion of overhead distribution facilities to underground in accordance with these Rules and Regulations for conversion areas of not less than one (1) city block in length along both sides of the main distribution system, or in the absence of city blocks, not less than five (5) contiguous building lots along both sides of the main distribution system, or in the absence of both, not the less than 600 pole-feet of the main distribution system, including all customers served along both sides of the main distribution system, and so as to result in a decrease in the number of non-lighting poles in the system.

Requests for conversions, except for individual residential service covered under Section 3.4.3.3, will be accompanied by a non-refundable amount as follows:

#### Density Class

Urban Commercial or Residential Rural Commercial or Residential High or Low Density Subdivision Deposit Amount \$10,391 per mile\* \$5,940 per mile\* \$ 49 per lot

\* As measured along the existing overhead primary and secondary distribution system.

Exhibit "B"



## TENTH ELEVENTH REVISED SHEET NO. 5.510 CANCELS NINTH TENTH REVISED SHEET NO. 5.510

## Continued from Sheet No. 5.500

## 3.6.5.1 Single Meter Commercial Service

Mobile Home Parks will be supplied single-meter commercial service only where park owner or operator supplies (furnishes) electrical service as a part of his rental and/or general service charge to tenants. Resale of electric energy through park owned meters will not be permitted (See 2.2.1)

## 3.6.5.2 Individual Company Metered Service

Mobile Home Parks will be supplied through company installed individual meters for individual tenants and other types of service required in park under the provisions required on 3.4.3 and 3.4.4 and the subparts appertaining thereto.

## 3.6.6 Miscellaneous Types of Electric Service

Certain other types of electric service are available from the company. Information on such services not specifically covered in this Tariff may be obtained at the nearest company office. Such special cases will be given individual consideration.

## 3.7 SCHEDULE OF STANDARD CHARGES AND NON-REFUNDABLE DEPOSITS FOR COST ESTIMATES FOR UNDERGROUND ELECTRIC DISTRIBUTION SYSTEMS

## 3.7.1 Standard Charges

The Standard Charges listed here are Contributions In Aid of Construction (CIAC) which are referenced by other sections of these rules and regulations.

## 3.7.1.1 Residential Subdivision

Low Density Subdivisions per service lateral or dwelling unit	\$0.00
High Density Subdivisions per service lateral or dwelling unit	\$0.00

## 3.7.1.2 New Single-phase UG Service Laterals from Overhead Distribution Systems

Fixed Charge for 2/0 service lateral	\$ <u>18.46</u> 71.36
Fixed Charge for 4/0 service lateral	\$ <u>92.54</u> 106.53
Per trench foot charge for 2/0 service lateral	\$ <u>11.62</u> 10.02
Per trench foot charge for 4/0 service lateral	\$ <u>12.18</u> 9.91
Credit for service pole if otherwise required for overhead service	\$ <u>801.36</u> 592.39
Continued to Sheet No. 5.515	



	Continued from Sheet No. 5.510	
3.7.1.3	Single-phase UG Service Laterals Converted from Existing Overhead Service Drops	
	Removal charge for overhead service with no service pole	\$ <u>205.08</u> <del>167.70</del>
	Removal charge for overhead service with a service pole	\$ <u>885.91</u> 752.94
	Fixed Charge for 2/0 service lateral Fixed Charge for 4/0 service lateral	\$ <u>18.46</u> 7 <del>1.36</del> \$ <u>92.54</u> 106.53
	Per trench foot charge for 2/0 service lateral Per trench foot charge for 4/0 service lateral	\$ <u>11.62</u> <del>10.02</del> \$ <u>12.18</u> 9.91
	Credit for service pole if otherwise required for overhead service	ce \$ <u>801.36</u> 592.39

Continued to Sheet No. 5.516



Continued from Sheet No. 5.515

## 3.7.2 Non-refundable Deposits for Estimates of CIAC for Conversion of Existing Overhead Distribution Facilities to Underground Facilities

Qualified applicants can request, upon payment of a non-refundable deposit as listed below, the conversion of overhead distribution facilities to underground in accordance with these Rules and Regulations for conversion areas of not less than one (1) city block in length along both sides of the main distribution system, or in the absence of city blocks, not less than five (5) contiguous building lots along both sides of the main distribution system, or in the absence of both, not the less than 600 pole-feet of the main distribution system, including all customers served along both sides of the main distribution system, and so as to result in a decrease in the number of non-lighting poles in the system.

Requests for conversions, except for individual residential service covered under Section 3.4.3.3, will be accompanied by a non-refundable amount as follows:

## Density Class

Urban Commercial or Residential..... Rural Commercial or Residential..... High or Low Density Subdivision..... Deposit Amount \$<u>10,391</u>9,896 per mile\* \$<u>5,940</u>5,657 per mile\* \$<u>49</u>47 per lot

\* As measured along the existing overhead primary and secondary distribution system.

Exhibit "C"

## 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
TOTAL	\$1,428.53	\$2,441.11	\$1,012.58
NPV Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue	\$1,896.66	\$1,254.37	-\$642.29
TOTAL Including NPV Operational Cost	\$3,325.19	\$3,695.48	\$370.29

## 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
TOTAL	\$708.94	\$719.59	\$1,428.53

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

<sup>2</sup> Includes Meter

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

## COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

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
TOTAL	\$1,227.97	\$1,213.14	\$2,441.11

## Single Occupancy Low Density 210 Lot Subdivision Cost per Lot

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







## OVERHEAD VS UNDERGROUND SUMMARY SHEET

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

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	\$570.46	\$1,015.10	\$444.64
Material	\$551.19	\$866.33	\$315.14
TOTAL	\$1,121.65	\$1,881.43	\$759.78
NPV Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue	\$1,408.20	\$583.66	-\$824.54
TOTAL Including NPV Operational Cost	\$2,529.85	\$2,465.09	-\$64.76

## 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
TOTAL	\$551.19	\$570.46	\$1,121.65

<sup>1</sup> Includes Administration, General, Energy Delivery Supervison, & 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
TOTAL	\$866.33	\$1,015.10	\$1,881.43

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

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	NA	NA	NA
Material	NA	NA	NA
TOTAL	NA	NA	NA

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
TOTAL	\$0.00	\$0.00	\$0.00

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

<sup>2</sup> Includes Meter

 $^{3}$  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

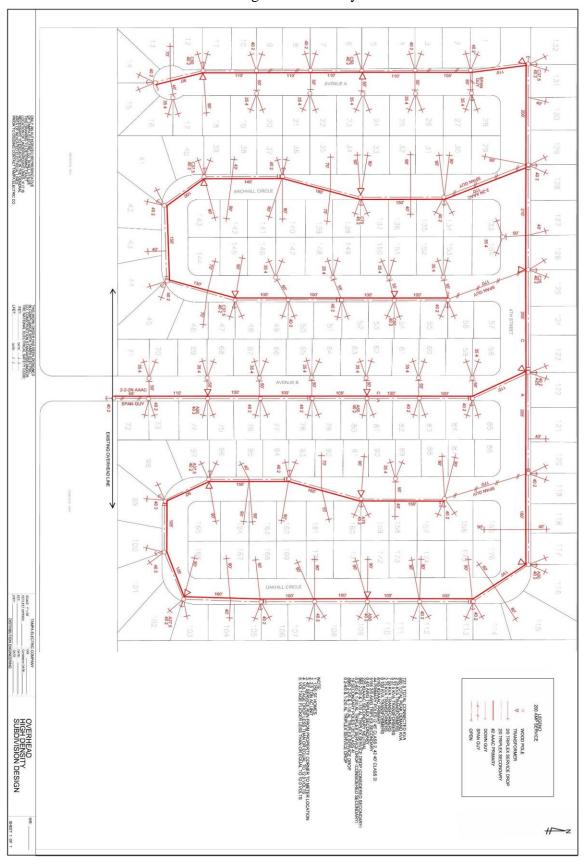
ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>			\$0.00
Primary			\$0.00
Secondary			\$0.00
Transformers			\$0.00
Pri. and Sec. Trenching			\$0.00
Service Trenching			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Stores Handling <sup>3</sup>			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Engineering			\$0.00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

<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.



<u>TYPICAL SINGLE OCCUPANCY HIGH DENSITY 176 LOT SUBDIVISION LAYOUT</u> Overhead Design - Individually Metered



<u>TYPICAL SINGLE OCCUPANCY HIGH DENSITY 176 LOT SUBDIVISION LAYOUT</u> 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.

<u>Note</u>: 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

## 2020 ADDITIONS

				Total	Total
				Amount	Amount
		Work		Due From	Due To
Date		Order		Other	Other
<u>Closed</u>	Location	Number	Footage	<u>Utility</u>	<u>Utility</u>

Tampa Electric did not engage in joint trenching during calendar year 2020.

## JOINT TRENCHING WITH OTHER UTILITIES In RESIDENTIAL DISTRIBUTION

(continued)

Year	Footage <u>Feet</u>	Amount Due From Other Utility	Amount Due To Other Utility
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

<u>v</u>	(per lot)						in rate case
	MATE	RIAL	LABC	DR	TOTAL		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % 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%	
TOTAL	1,227.97	30.77%	1,213.14	6.10%	2,441.11	17.23%	

3,695.48

## Overhead Costs (per lot)

Total with NPV Factor

	MAT	ERIAL	LABC	)R	TOTAL		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % 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%	
TOTAL	708.94	14.53%	719.59	7.41%	1,428.53	10.83%	
				1,896.66		nt Value of the Life Cycle Operational Cost Including Storm on and Lost Pole Attachment Revenue	
Total with NPV Factor					3,325.19	Total Inclu	Iding NPV of Operational Cost

## Differential Costs (per lot)

	MATE	ERIAL	LABO	R	TOTAL	
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE
Differential (per lot)	519.03	62.19%	493.55	4.25%	1,012.58	27.62%
NPV amount					-642.29	
Differential <sup>1</sup> (per lot)	0.00		0.00		370.29	-175.42%

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

Total Including NPV of Operational Cost





PAD-MOUNTED TRANSFORMER

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2000 SQUARE FOOT LOW DENSITY - 210 LOTS

ELECTRIC COMPANY								
	GIS:							
	Completion DATE:							
	DATE:							
	DATE:							
JTION EN	IGINEERING							

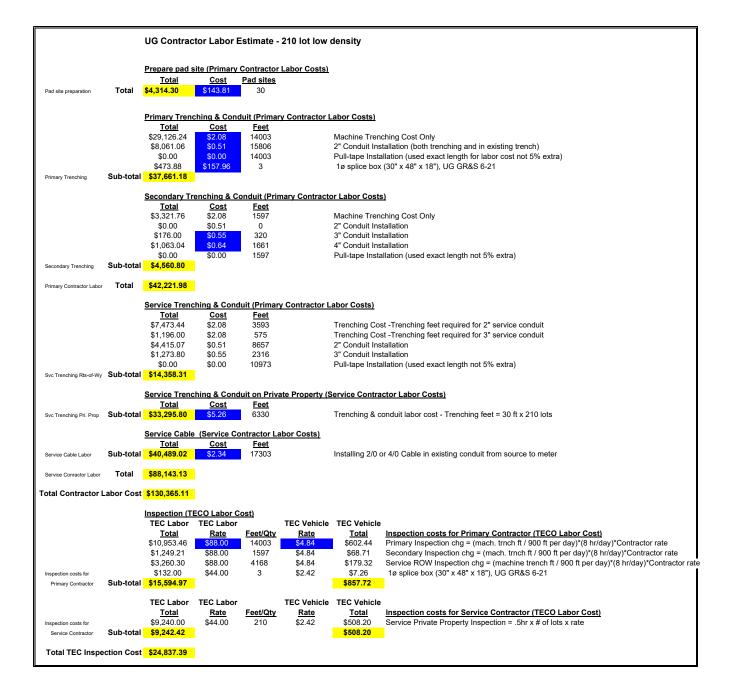
WR: \_\_\_\_\_

Revised 3/17/21

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

	A	В	C (C + M ) laterial and	D	E (F + L) tal Labor	F (G + H + I )	G Base	H (G x J x TLF) TEC Labor	l (G x K x CLF) Contract Labor	J TEC	K Contractor	L	M (D x MHR) Material	N (C+E)
ine #	Work Type/WR #	Description	Handling	Material	s Vehicles	Total Labor	Labor	Overheads	Overheads	Work %	Work %	Vehicle	Handling	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	102,193.6
3	Contractor	Prepare Pad Site	-	-	5,179.75	5,179.75	4,314.30	-	865.45	0%	100%	-	-	5,179.7
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	107,373.4
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.
8	925017	Primary Conduit (Material Only)	25,221.49	\$22,475.04	-	-	-	-	-			-	2,746.45	25,221.
9	925022	Primary Cable	 44,899.79	\$ <u>40,010.51</u>	 21,050.29	18,826.15	10,961.75	6,984.83	879.57	60%	40%	\$ <u>2,224.14</u>	4,889.28	65,950.
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	94,697.4
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.
13	925026	Secondary Conduit (Material Only)	 7,409.08	\$ <u>6,602.28</u>	 -	-		-	-				806.80	7,409.
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.
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.
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.
18	925030	Service Conduit Material	 30,604.71	\$27,272.06	 -		<u> </u>	-	-				3,332.65	30,604.
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.
20														
21	Trenching													
22	Contractor	Primary Trenching	-	-	45,216.01	45,216.01	37,661.18	-	7,554.83	0%	100%	-	-	45,216.
23	Contractor	Secondary Trenching	-	-	5,475.70	5,475.70	4,560.80	-	914.90	0%	100%	-	-	5,475.
24	TEC Inspection	tor Primary	 	-	 16,452.69	15,594.97	<u> </u>	-	<u> </u>	100%	0%	857.72		16,452.
25 26			-	-	67,144.40	66,286.68	42,221.98	-	8,469.73			857.72	-	67,144.4
27	Contractor	Svc Trenching Pri. Prop	_	-	39.974.94	39.974.94	33.295.80	-	6,679.14	0%	100%	-	-	39.974.
28	Contractor	Svc Trenching Rts-of-Wv	-	-	17,238.59	17.238.59	14.358.31	-	2.880.28	0%	100%	-	-	17,238.
29	TEC Inspection	5 ,	-	-	9,750.62	9.242.42	-	-	_,	100%	0%	508.20	-	9,750.
30			 	-	 66,964.14	66,455.94	47,654.11	-	9,559.41			508.20		66,964.
31					,		,		-,					
32	Engineering	Design/Inspection/Coordination	-	-	13,788.39	13,788.39	-	-	-			-	-	13,788.3
33	5	5 · ··································			.,									
4	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.
35	Cost per Lot	(line 34 /210 lots)	\$ 1,227.97		1,213.12			,						\$ 2,441.1

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



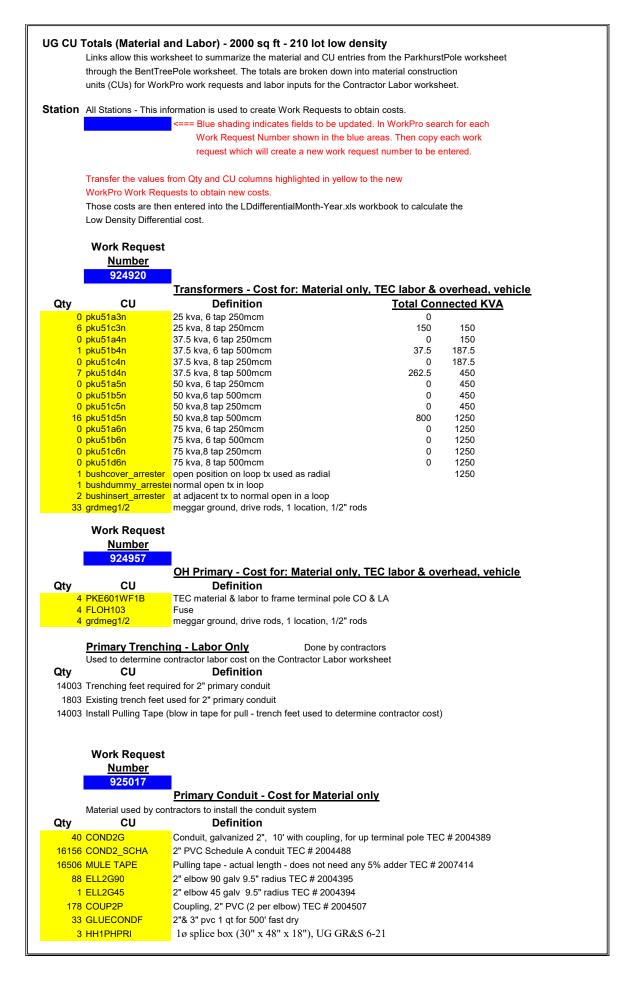
Please modify the low density construction drawing legend as shown below.

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

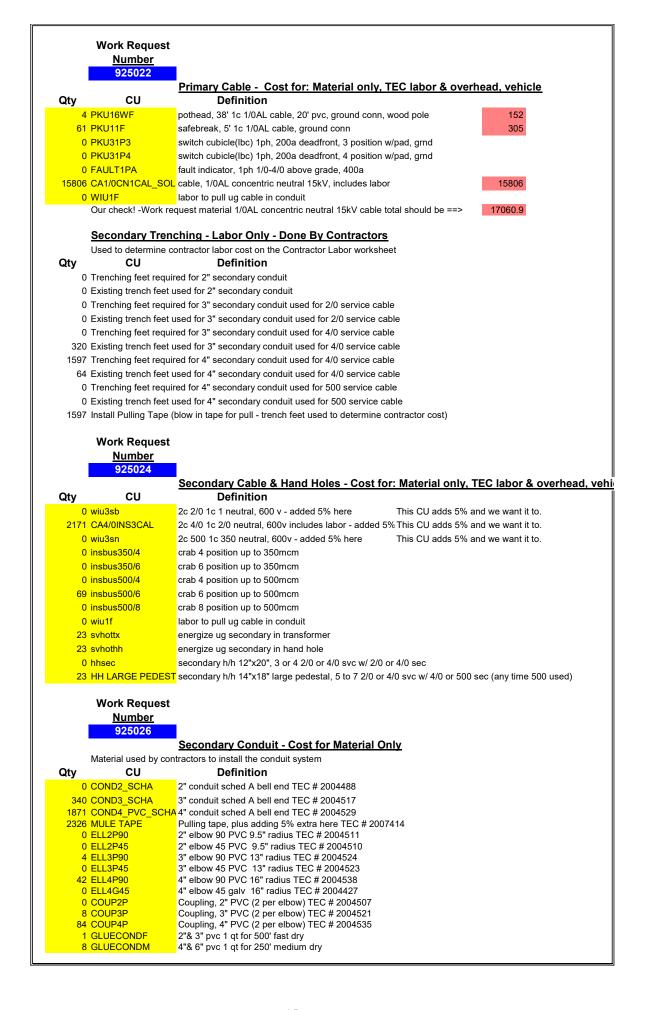
1250	Total Connected KVA
1272.2	Total initial peak demand KVA
6	25 kVA Transformers
8	37.5 kVA Transformers
16	50 kVA Transformers
0	75 kVA Transformers
14003	Trench Feet of 1/0 AL Primary Cable
1803	Existing trench feet of 1/0 AL Primary Cable
0	Trench Feet of 2/0 AL Secondary Cable
0	Existing trench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

Notes:

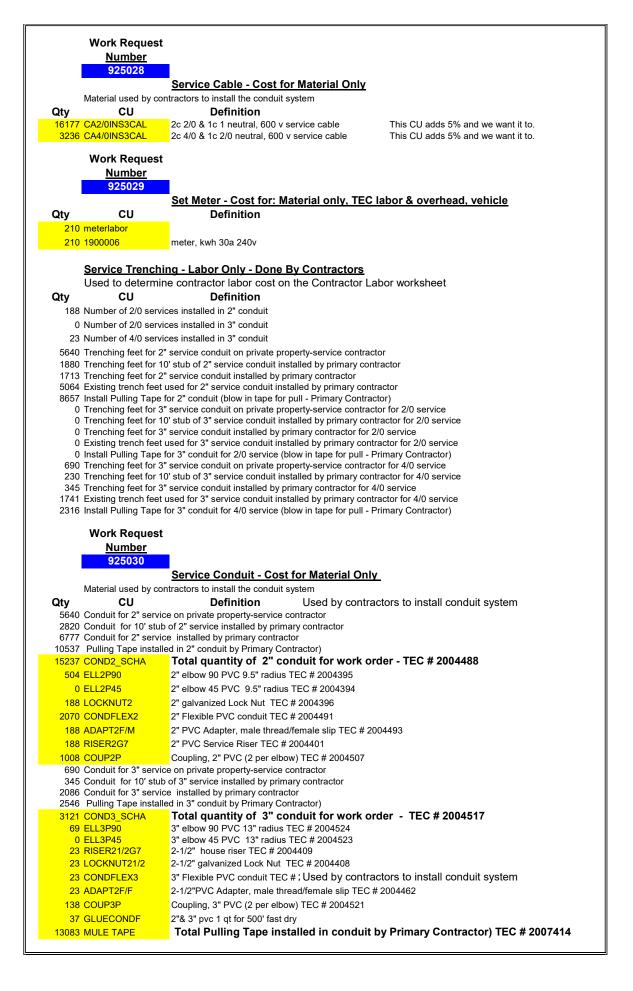
- 1. 1501-2500 SF Homes
- 2. 3.5 Ton AC Units
- 3. 40' Service run from property corner to meter location
- 4. Voltage drop less than or equal to 12.0 volts
- 5. Voltage flicker less than or equal to 12.0 volts



Summary



Summary



Summary



**Contact Name:** Tampa Electric

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## Estimate Summary Design Number 1

**Distribution Services** Transformers 2000 Sq Ft Printed Date: 3/10/2021 District: CSA

WR No. 924920

Date Sched: 4/1/21 Date Required: 4/1/21

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

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         \$8,913.02           \$15,639.83         \$0.00         \$8,913.02           \$15,639.83         \$0.00         \$0.00           CONTRACTOR:         \$0.00         \$0.00           SUBTOTAL:         \$106,196.59         \$0.00           SUBTOTAL:         \$106,196.59         \$0.00           WATERIAL:         \$0.00         \$0.00           SUBTOTAL:         \$106,196.59         \$0.00           SUBTOTAL:         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00           CORTRACTOR:         \$0.00         \$0.	INSTALLATION:	Capital	Oper./Maint.	Total
\$90,556.76         \$0.00         \$90,556.76           LABOR HOURS:         152.8         0         152.8           LABOR COST:         \$6,726.81         \$0.00         \$8,913.02           \$8,913.02         \$0.00         \$8,913.02         \$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         \$0.00           SUBTOTAL:         \$106,196.59         \$0.00         \$0.00           SUBTOTAL:         \$106,00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$106,196.59         \$0.00         \$0.00           REMOVAL:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBOTAL:         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00 <td< td=""><td></td><td>\$79,554.38</td><td>\$0.00</td><td>\$79,554.38</td></td<>		\$79,554.38	\$0.00	\$79,554.38
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         \$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:         \$106,196.59         \$0.00         \$0.00           SUBTOTAL:         \$100,00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$100,00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00	OVERHEAD:	\$11,002.38	\$0.00	\$11,002.38
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         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           WATERIAL:         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00		\$90,556.76	\$0.00	\$90,556.76
OVERHEAD:         S0.00	LABOR HOURS:	152.8	0	152.8
30.313.02         30.00         \$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           REMOVAL:         \$0.00         \$0.00         \$0.00           MATERIAL:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00 <tr< td=""><td></td><td>\$6,726.81</td><td>\$0.00</td><td>\$6,726.81</td></tr<>		\$6,726.81	\$0.00	\$6,726.81
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CONTRACTOR:         \$0.00         \$0.00         \$0.00         \$0.00           ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$106,196.59         \$0.00         \$0.00         \$0.00           REMOVAL:          \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           SUBOR HOURS:         0         0         0           LABOR HOURS:         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00		\$15,639.83	\$0.00	\$15,639.83
ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$106,196.59         \$0.00         \$106,196.59         \$0.00         \$106,196.59           REMOVAL:         MATERIAL:         \$0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00	VEHICLE:	\$0.00	\$0.00	\$0.00
SUBTOTAL:         \$106,196.59         \$0.00         \$106,196.59           REMOVAL:          \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           CONTRACTOR:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00 <td>CONTRACTOR:</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td>	CONTRACTOR:	\$0.00	\$0.00	\$0.00
REMOVAL:         X0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$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           VEHICLE:         \$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           TRANSFER:         LABOR HOURS:         0         0         0           LABOR HOURS:         0         0         0         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VENDER         \$0.00         \$0.00         \$0.00         \$0.00           VENDER         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         <	ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
MATERIAL:         \$0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$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           TRANSFER:         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VENDON         \$0.00         \$0.00         \$0.00         \$0.00           VENDON         \$0.00         \$0.00         \$0.00         \$0.00           VENDON         \$0.00	SUBTOTAL:	\$106,196.59	\$0.00	\$106,196.59
INTERNE:         \$0.00	REMOVAL:			
SOLUCION         SOLOC	MATERIAL:	\$0.00	\$0.00	
LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$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           TRANSFER:         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00           VENDERHEAD:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VENDERHEAD:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:	OVERHEAD:	\$0.00	\$0.00	
LABOR COST:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$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         TRANSFER:       \$0.00       \$0.00       \$0.00         LABOR HOURS:       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00 <td></td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td>		\$0.00	\$0.00	\$0.00
OVERHEAD:         \$0.00	LABOR HOURS:	0	0	0
\$0.00         \$0.00         \$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           TRANSFER:         VEHICLE:         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00 <td>LABOR COST:</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td>	LABOR COST:	\$0.00	\$0.00	\$0.00
VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           CONTRACTOR:         \$0.00         \$0.00         \$0.00         \$0.00           ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           TRANSFER:         U         U         U         0         0         0           LABOR HOURS:         0         0         0         0         0         0         0           LABOR COST:         \$0.00	OVERHEAD:	\$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         TRANSFER:            LABOR HOURS:       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         VERHEAD:       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00		\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         TRANSFER:       0       0       0         LABOR HOURS:       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00         VERHEAD:       \$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	VEHICLE:	\$0.00	\$0.00	\$0.00
ADDITIONAL TIEMS:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         TRANSFER:       0       0       0       0         LABOR HOURS:       0       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00       \$0.00         CONTRACTOR:       \$0.00       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00       \$0.00	CONTRACTOR:	\$0.00	\$0.00	
TRANSFER:       0       0       0         LABOR HOURS:       0       0       \$0.00       \$0.00         LABOR COST:       \$0.00       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00       \$0.00         CONTRACTOR:       \$0.00       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00       \$0.00	ADDITIONAL ITEMS:	\$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       \$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	SUBTOTAL:	\$0.00	\$0.00	\$0.00
LABOR COST:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$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	TRANSFER:			
OVERHEAD:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$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	LABOR HOURS:	0	0	0
\$0.00       \$0.00       \$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		\$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	OVERHEAD:	\$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		\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00	VEHICLE:	\$0.00	\$0.00	\$0.00
SUBTOTAL:         \$0.00         \$0.00         \$0.00	CONTRACTOR:	\$0.00	\$0.00	\$0.00
	ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
TOTALS: \$106,196.59 \$0.00 \$106,196.59	SUBTOTAL:	\$0.00	\$0.00	\$0.00
	TOTALS:	\$106,196.59	\$0.00	\$106,196.59



Printed Date: 3/10/2021 Dist: CSA

Design Number 1

WR No. 924920

		Design Number 1	Page	e 1 of 1	
Mater	ial Numbe	r Description	Unit Price	Total Cost	Asset?
NSTALL					
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	Ν
60	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$138.60	Ν
4	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$9.52	Ν
90	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$430.20	Ν
30	2001315	PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$103.25	\$3,097.50	Ν
0	2001316	PAD, CONCRETE 44" X 52" X 4" 75-250KVA T	\$115.55	\$0.00	Ν
30	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$689.10	Ν
30	2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$83.10	Ν
120	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$1,646.40	Ν
60	2004031	STUD, GALVANIZED, 11 THREAD PER INCH ALL	\$2.47	\$148.20	Ν
90	2004904	TERMINAL, SLIP FIT AL 5/8 IN 8-POS #2-50	\$17.94	\$1,614.60	Ν
0	2004948	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$7.54	\$0.00	Ν
0	2004954	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$16.58	\$0.00	Ν
0	2004950	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8	\$8.28	\$0.00	Ν
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	Ν
6	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$2.28	Ν
			Total	\$79,554.38	



## Estimate Summary Design Number 1

**Distribution Services** Term Poles - low density 2000 sq ft Printed Date: 3/10/2021 District: CSA

WR No. 924957

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Low density URD filing - 2000 sq ft homes WR Description: LDUG 2000 sq ft TAKEOFFS

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA

**Design Number 1** 

WR No. 924957 Page 1 of 1

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



## Estimate Summary Design Number 1

Distribution Services Primary conduit 2000 Sq Ft

Printed Date: 3/10/2021 District: CSA

WR No. 925017

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA WR No. 925017

**Design Number 1** 

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Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
33	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$205.26	Ν
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	Ν
88	2004395	ELBOW, 2" 90 DEGREE ,GALVANIZED, 24" MIN	\$34.29	\$3,017.52	Ν
1	2004394	ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	\$26.25	\$26.25	Ν
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	Ν
			Total	\$22,475.04	



## Estimate Summary Design Number 1

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

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA

WR No. 925022

Design Number 1

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			9		
Materia	al Numbe	r Description	Unit Price	Total Cost	Asset?
NSTALL					
0 2	004577	ANCHOR, LEAD EXPANSION, MEDIUM DUTY, SIZ	\$0.66	\$0.00	Ν
0 2	2003157	BOLT, 1/2" - 13 X 1-1/2" 18-8 SS HEX HEA	\$2.59	\$0.00	Ν
0 2	2003167	BOLT, MACHINE GALV HEX HEAD 5/8 X 1-1/4"	\$0.18	\$0.00	Ν
17554 2	004343	CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	\$2.08	\$33,192.64	Y
4 2	004514	CAP, CONDUIT 2"	\$12.21	\$48.84	Ν
4 2	004453	CAP, END CABLE 600 V CABLE RANGE .940 -	\$1.96	\$7.84	Ν
4 2	003752	CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO	\$7.92	\$31.68	Ν
0 2	077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$0.00	Ν
80 2	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$82.40	Y
8 2	077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$5.28	Ν
0 2	2005009	CONNECTOR, LDBRK 8.3/14.4KV 200A 3POS	\$108.70	\$0.00	Ν
77 2	077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$183.26	Ν
0 2	077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$0.00	Ν
0 2	004982	ENCLOSURE, 200A AL SWITCH MOD/1 PH DUMMY	\$1,122.04	\$0.00	Y
61 2	2004642	KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0	\$9.46	\$577.06	Ν
0 2	001315	PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$103.25	\$0.00	Ν
0 2	2007394	PADLOCK, GREEN, TESS, BRASS BODY, WR2	\$21.24	\$0.00	Ν
0 2	2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$0.00	Ν
0 2	077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$0.00	Ν
32 2	2004403	STRAP, GALV 2 IN 2 HOLE	\$0.28	\$8.96	Ν
61 2	2004883	TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	\$37.76	\$2,303.36	Y
4 2	004634	TERMINATOR, POTHEAD, 1/0 TO 4/0, STEM	\$61.22	\$244.88	Y
0 2	078005	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8	\$0.23	\$0.00	Ν
0 2	078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$0.00	Ν
8 2	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$5.04	Ν
			Total	\$40,010.50	



## Estimate Summary Design Number 1

**Distribution Services** Sec Cable and Handholes 2000 sq ft Printed Date: 3/11/2021 District: CSA

WR No. 925024

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: URD low density 2000 homes - PSC filing WR Description: LDUG 2000 sq ft SECONDARY CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA

**Design Number 1** 

WR No. 925024

		Design Number 1	Page	e 1 of 1	
Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
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	Ν
0	2005022	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$14.92	\$0.00	Ν
69	2005024	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$23.41	\$1,615.29	Ν
0	2005025	CONNECTOR, 600V, URD, 8 POSITION, CONDUC	\$30.35	\$0.00	Ν
0	2005020	CONNECTOR, URD 600 V 4 POSITION #10-350M	\$10.92	\$0.00	Ν
23	2000241	DECAL,WARNING,NOTICE,CLEARANCE,10" X 7"	\$3.56	\$81.88	Ν
23	2004714	HANDHOLE, ABOVE GRADE, LARGE DOME	\$186.22	\$4,283.06	Ν
23	2005212	MARKER, CURB LEXAN .040 THICK, ROUND 2.5	\$2.83	\$65.09	Ν
23	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$528.31	Ν
			Total	\$10,194.86	



## Estimate Summary Design Number 1

**Distribution Services** Secondary conduit-2000 sq ft Printed Date: 3/10/2021

#### District: CSA WR No. 925026

Date Sched: 4/1/21 Date Required: 4/1/21

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

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           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBOTAL:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBOTAL:         \$0.00         \$0.00	INSTALLATION:	Capital	Oper./Maint.	Total
\$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         \$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         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           SUBOR HOURS:         0         0         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           SUBOR HOURS:         0         0         0           LABOR HOURS:         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00           SUBOR         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBOR         \$0.00         \$0.00         \$0		\$6,602.28	\$0.00	\$6,602.28
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         \$0.00           REMOVAL:         \$0.00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           REMOVAL:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00 <td< td=""><td>OVERHEAD:</td><td>\$913.09</td><td>\$0.00</td><td>\$913.09</td></td<>	OVERHEAD:	\$913.09	\$0.00	\$913.09
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         \$0.00           REMOVAL:         \$0.00         \$0.00         \$0.00           MATERIAL:         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHEAD:         \$0.00         \$0.00         \$0.00           VEHEAD:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00 <td< td=""><td></td><td>\$7,515.37</td><td>\$0.00</td><td>\$7,515.37</td></td<>		\$7,515.37	\$0.00	\$7,515.37
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         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           REMOVAL:         \$0.00         \$0.00         \$0.00           MATERIAL:         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00           S0.00         \$0.00         \$0.00         \$0.00	LABOR HOURS:	63.08	0	63.08
33,079.04         30.00         \$3,079.04           \$6,455.69         \$0.00         \$6,455.69           VEHICLE:         \$0.00         \$0.00         \$0.00           ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00           REMOVAL:         \$0.00         \$0.00         \$0.00           MATERIAL:         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00		\$2,776.65	\$0.00	\$2,776.65
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           REMOVAL:         MATERIAL:         \$0.00         \$0.00         \$0.00           MATERIAL:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00	OVERHEAD:	\$3,679.04	\$0.00	\$3,679.04
CONTRACTOR:         \$0.00         \$0.00         \$0.00         \$0.00           ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$13,971.06         \$0.00         \$13,971.06           REMOVAL:           \$0.00         \$0.00         \$0.00         \$0.00           MATERIAL:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00		\$6,455.69	\$0.00	\$6,455.69
ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$13,971.06         \$0.00         \$0.00         \$13,971.06           REMOVAL:         MATERIAL:         \$0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00	VEHICLE:	\$0.00	\$0.00	\$0.00
SUBTOTAL:         \$13,971.06         \$0.00         \$13,971.06           REMOVAL:         ************************************	CONTRACTOR:	\$0.00	\$0.00	\$0.00
REMOVAL:         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$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           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$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           SUBTOTAL:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00           VENCOST:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VENCOST:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00	ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
MATERIAL:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$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         VEHICLE:       \$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         TRANSFER:       \$0.00       \$0.00       \$0.00         LABOR HOURS:       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         VOR       \$0.00       \$0.00       \$0.00         VENCOST:       \$0.00       \$0.00       \$0.00         \$0.00       \$0.00       \$0.00       \$0.00         VEHIC	SUBTOTAL:	\$13,971.06	\$0.00	\$13,971.06
OVERHEAD:       \$0.00       \$0.00       \$0.00       \$0.00         VERHEAD:       \$0.00       \$0.00       \$0.00       \$0.00         LABOR HOURS:       0       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00       \$0.00         CONTRACTOR:       \$0.00       \$0.00       \$0.00       \$0.00         ADDITIONAL ITEMS:       \$0.00       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00       \$0.00         TRANSFER:       \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$0.00       \$0.00       \$0.00         VENDERCOST:       \$0.00       \$0.00       \$0.00       \$0.00         VENDERCOST:       \$0.00       \$0.00       \$0.00       \$0.00         VENDERCOST:       \$0.00       \$0.00       \$0.00       \$0.00	REMOVAL:			
S0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           TRANSFER:         \$0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00 <t< td=""><td>MATERIAL:</td><td>\$0.00</td><td>\$0.00</td><td></td></t<>	MATERIAL:	\$0.00	\$0.00	
LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$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           TRANSFER:         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00           SO.00         \$	OVERHEAD:			
LABOR COST:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$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         TRANSFER:       \$0.00       \$0.00       \$0.00         LABOR HOURS:       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         VENTOTAL:       \$0.00       \$0.00       \$0.00         VENTOTAL:       \$0.00       \$0.00       \$0.00         VENTOTAL:       \$0.00       \$0.00       \$0.00         VENTOTAL:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00		\$0.00	\$0.00	\$0.00
OVERHEAD:         \$0.00	LABOR HOURS:	0	0	0
\$0.00         \$0.00         \$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           TRANSFER:         Image: Solid State         O         O         O           LABOR HOURS:         O         O         0         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$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         TRANSFER:       VEHICLE:       \$0.00       \$0.00       \$0.00         LABOR HOURS:       0       0       0       \$0.00         LABOR COST:       \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00       \$0.00	OVERHEAD:	\$0.00	\$0.00	\$0.00
VENICLE.       \$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         TRANSFER:       Image: Cost in the state in the		\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         TRANSFER:       0       0       0         LABOR HOURS:       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00         CONTRACTOR:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00	VEHICLE:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00         TRANSFER:       0       0       0       0         LABOR HOURS:       0       0       0       0         LABOR COST:       \$0.00       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$0.00       \$0.00       \$0.00         VEHICLE:       \$0.00       \$0.00       \$0.00       \$0.00         CONTRACTOR:       \$0.00       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00       \$0.00	CONTRACTOR:	\$0.00	\$0.00	
TRANSFER:       0       0       0         LABOR HOURS:       0       0       \$0.00         LABOR COST:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$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		\$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       \$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	SUBTOTAL:	\$0.00	\$0.00	\$0.00
LABOR COST:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$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	TRANSFER:			
LABOR COST:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$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	LABOR HOURS:	0	0	0
OVERHEAD:         \$0.00	LABOR COST:	\$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	OVERHEAD:			\$0.00
CONTRACTOR:       \$0.00       \$0.00       \$0.00         ADDITIONAL ITEMS:       \$0.00       \$0.00       \$0.00         SUBTOTAL:       \$0.00       \$0.00       \$0.00		\$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	VEHICLE:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00		\$0.00	\$0.00	\$0.00
	ADDITIONAL ITEMS:			\$0.00
	SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS: \$13,971.06 \$0.00 \$13,971.06	TOTALS:	\$13,971.06	\$0.00	\$13,971.06



Printed Date: 3/10/2021 Dist: CSA

Total

\$6,602.28

**Design Number 1** 

WR No. 925026

		Design Number 1	Page	1 of 1	
Mat	erial Numbe	r Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$6.22	Ν
8	2007228	CEMENT, PVC GRAY MEDIUM DRY QUART W/DAUB	\$7.27	\$58.16	Ν
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	Ν
8	2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$2.95	\$23.60	Ν
84	2004535	COUPLING, PVC 4 IN SCH 40 TEMS 13.01	\$4.28	\$359.52	Ν
0	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$0.00	Ν
0	2004427	ELBOW, GALV 4 IN 45 DEG THD 16 IN RAD	\$45.37	\$0.00	Ν
0	2004510	ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH	\$0.94	\$0.00	Ν
0	2004523	ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40	\$3.62	\$0.00	Ν
4	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$18.08	Ν
42	2004538	ELBOW, PVC 4", 90 DEG., 16" RADIUS, SCHE	\$6.68	\$280.56	Ν
2559	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$76.76	Ν



## Estimate Summary Design Number 1

**Distribution Services** Service Cable-2000 sq ft Printed Date: 3/11/2021

### District: CSA

WR No. 925028 Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA WR No. 925028 Page 1 of 1

**Design Number 1** 

			Faye		
Mate	erial Numbe	r Description	Unit Price	Total Cost	t Asset?
INSTALL					
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
			Total	\$23,370.30	



## Estimate Summary Design Number 1

**Distribution Services** Meter Labor- 2000 sq ft Printed Date: 3/10/2021 District: CSA

### WR No. 925029

Date Sched: 4/1/21 Date Required: 4/1/21

#### Additional Information: Low density URD filing 2000 sq ft homes WR Description: LDUG 2000 sq ft METERS

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



## Estimate Summary Design Number 1

Distribution Services Service Conduit- 2000 sq ft

Printed Date: 3/10/2021 District: CSA

WR No. 925030

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Low density URD filing for 2000 sq ft homes WR Description: LDUG 2000 sq ft SERVICE CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA

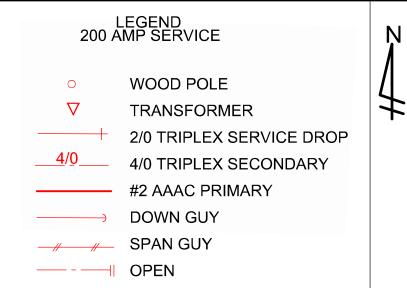
Page 1 of 1

Design Number 1

WR No. 925030

erial Numbe	er Description	Unit Price	Total Cost	Asset?
2004492	ADAPTER,COND PVC FMLE 2" SCH 40 SOCXFPT	\$0.57	\$13.11	Ν
2004493	ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR	\$0.40	\$75.20	Ν
2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$230.14	Ν
2004409	COND,SRVC RISER,TYPE IIPVC,40,2.5"X7'	\$12.00	\$276.00	Ν
2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$15,694.11	Y
2004491	CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE	\$1.13	\$2,339.10	Ν
2004518	CONDUIT, PVC 3 IN X 250 FT ROLL FLEXIBL	\$2.16	\$49.68	Ν
2004517	CONDUIT, PVC P & C 3 IN 20 FT	\$1.70	\$5,305.70	Y
2004401	CONDUIT, SERVICE RISER, PVC, 2"	\$4.92	\$924.96	Ν
2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$452.40	Ν
2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$2.95	\$407.10	Ν
2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$635.04	Ν
2004510	ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH	\$0.94	\$0.00	Ν
2004523	ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40	\$3.62	\$0.00	Ν
2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$311.88	Ν
2004396	NUT, LOCK GALV 2 IN	\$0.54	\$101.52	Ν
2004408	NUT, LOCK GALV 2-1/2 IN	\$1.06	\$24.38	Ν
2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$431.74	Ν
		Total	\$27,272.06	
	2004492 2004493 2007227 2004409 2004488 2004491 2004518 2004517 2004517 2004521 2004521 2004521 2004523 2004523 2004524 2004396 2004408	2004492ADAPTER,COND PVC FMLE 2" SCH 40 SOCXFPT2004493ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR2007227CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE200409COND,SRVC RISER,TYPE IIPVC,40,2.5"X7'2004488CONDUIT, PVC 2 IN 20 FT BELL END2004491CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE2004518CONDUIT, PVC 3 IN X 250 FT ROLL FLEXIBL2004517CONDUIT, PVC P & C 3 IN 20 FT2004401CONDUIT, SERVICE RISER, PVC, 2"2004507COUPLING, PVC 2 IN SCH 40 TEMS 13.012004521COUPLING, PVC 3 IN SCH 40 TEMS 13.012004511ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-2004523ELBOW, PVC 3 IN 45 DEG 9-1/2 IN RAD SCH2004524ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 402004396NUT, LOCK GALV 2 IN2004408NUT, LOCK GALV 2-1/2 IN	2004492       ADAPTER,COND PVC FMLE 2" SCH 40 SOCXFPT       \$0.57         2004493       ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR       \$0.40         2007227       CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE       \$6.22         2004409       COND,SRVC RISER,TYPE IIPVC,40,2.5"X7'       \$12.00         2004488       CONDUIT, PVC 2 IN 20 FT BELL END       \$1.03         2004491       CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE       \$1.13         2004517       CONDUIT, PVC 3 IN X 250 FT ROLL FLEXIBLE       \$1.13         2004517       CONDUIT, PVC P & C 3 IN 20 FT       \$1.70         2004401       CONDUIT, PVC P & C 3 IN 20 FT       \$1.70         2004507       COUPLING, PVC 2 IN SCH 40 TEMS 13.01       \$0.60         2004511       COUPLING, PVC 2 IN SCH 40 TEMS 13.01       \$2.95         2004511       ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-       \$1.26         2004510       ELBOW, PVC 3 IN 45 DEG 9-1/2 IN RAD SCH       \$0.94         2004523       ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40       \$3.62         2004524       ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40       \$4.52         2004396       NUT, LOCK GALV 2-1/2 IN       \$0.54         2004408       NUT, LOCK GALV 2-1/2 IN       \$0.54	2004492       ADAPTER, COND PVC FMLE 2" SCH 40 SOCXFPT       \$0.57       \$13.11         2004493       ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR       \$0.40       \$75.20         2007227       CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE       \$6.22       \$230.14         2004409       COND,SRVC RISER, TYPE IIPVC, 40,2.5"X7'       \$12.00       \$276.00         2004488       CONDUIT, PVC 2 IN 20 FT BELL END       \$1.03       \$15,694.11         2004491       CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE       \$1.13       \$2,339.10         2004518       CONDUIT, PVC 3 IN X 250 FT ROLL FLEXIBLE       \$2.16       \$49.68         2004507       CONDUIT, PVC P & C 3 IN 20 FT       \$1.70       \$5,305.70         2004401       CONDUIT, SERVICE RISER, PVC, 2"       \$4.92       \$924.96         2004507       COUPLING, PVC 2 IN SCH 40 TEMS 13.01       \$0.60       \$452.40         2004521       COUPLING, PVC 3 IN SCH 40 TEMS 13.01       \$2.95       \$407.10         2004510       ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-       \$1.26       \$635.04         2004523       ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40       \$3.62       \$0.00         2004524       ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40       \$4.52       \$311.88         2004396       NUT, LOCK GALV 2 IN       \$0.54 </td





1225 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 (5 45' CLASS 2, 60 40' CLASS 2) 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 (35' CLASS 4) 9360 2-2/0 & 1-1/0 AL TRIPLEX SERVICE DROP 0 2-4/0 & 1-2/0 AL TRIPLEX SERVICE DROP

2000 SQUARE FOOT LOW DENSITY - 210 LOTS

ELECTRIC	COMPANY
	GIS:
	Completion DATE:
	DATE:
	DATE:
JTION EN	IGINEERING

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

	A	В	C (C + M ) Material and	D	E (F + L) Total Labor	F (G + H + I )	G Base	H (G x J x TLF) TEC Labor	l (G x K x CLF) Contract Labor	J TEC	K Contractor	L	M (D x MHR) Material	N (C+E)
Line #	Work Type/WR #	Description	Handling	Material	Plus Vehicles	Total Labor	Labor	Overheads	Overheads	Work %	Work %	Vehicle	Handling	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
4	Primary													
5 6	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
7	Poles													
8 9	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
10	Secondary													
11 12	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
	Services													
14 15	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
16														
17 18	Engineering	Design/Inspection/Coordination	-	-	13,788.39	13,788.39	-	-	-	100%	0%	-	-	13,788.39
19 20	Tree Trim		-	-	-	-	-	-	-			-	-	-
21 22	Totals (Sum of lines 2 Cost per Lot	2, 5, 8, 11, 14, 17, and 19) (line 21 / 210 lots)	\$ 148,876.63 \$ 708.94	\$ 132,664.97	\$ 151,115.76 \$ 719.60	\$ 136,605.98	\$ 71,512.01 \$	45,567.45	\$ 5,738.12			\$ 14,509.79	\$ 16,211.66 \$	5 299,992.39 5 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

#### 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 Assemblies ====> Total Quantities ==>	925037 25 KVA PKT11W3F 0	- Transformers (enter the 37.5 KVA PKT11W4F 4	nese Construction Units into V 50 KVA PKT11W5F 17	VorkPro) 75 KVA PKT11W6F 3	Stirrup ALSTRP1/0 24	Spacer SEWC 24	Grounding GRDMEG1/2 24						
Work Request #2 Assemblies ===> Total Quantities ==>	925038 #2 AAAC WIOPA 10130	- Primary 1st span WIO1F 19	Add'l WIO1A 43	Fused cutout PKP102WB3A 2	Deadend & tap PKP101WA3A 7	2 way lateral PKP105WA4A 2	Fuse FLOH103 2	Grounding GRDMEG1/2 5					
Work Request #3 Should be> Assemblies> Total Quantities =>	925039 Pole haul POLE_HAUL 65	- Poles and Guys 1ø tangent STP101_TAN_40C2 12	lø tangent STP101_TAN_45C2 1	1ø Deadend STP401_DE_40C2 11	lø angle <20 STP101_ANG_40C2 20	lø angle <20 STP101_ANG_45C2 1	lø angle >20 STP301_RC_40C2 17	1ø angle>20 STP301_RC_45C2 1	3 ø STP104_TAN_45C2 2	Down guys PKG12W2H 56	Pole hardware PKG31W1H 2	Guy wire GUYSTR3/8 70	Down guys PKG11W1F 0
Work Request #4 Assemblies ===> Total Quantities ==>	925040 2/0 WIO3SB 0	- Secondary - From Sec 4/0 WIO3SC 8000	ondary&Neutral worksheet #2 Neutral WIOPA 2135	1st span WIO1F 9	Add'l WIO1A 2	lst span WIOCF 33	Add'l WIOCA 20	Eyebolt SEW1DEN 4	Eyenut SEG1DEN 12	DE+Bolt PKS11W 30	CABLEOPEN 12		
More of Work Request #4 Assemblies ====> Total Quantities ==>	Pole hardware PKG31W1H 16	- Secondary continued Guy wire GUYSTR3/8 1390	- From Secondary&Neutral we POLE_HAUL 35	orksheet and SlackSecondar 35' Class 4 STS11C 35	y (service cable) & Secondar 35' Class 6 STS11B 0	y Poles worksheet 30' Class 6 STS11A 0	Down guy PKG11W1H 0	PKS21G 34	CA2/0TPX 1515	CA4/0TPX 545	SVLABOR 34		

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



## Estimate Summary Design Number 1

**Distribution Services** LDOH 2000 sq ft Transformers Printed Date: 3/10/2021 District: CSA

WR No. 925037

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Used for Low Density 2000 sq ft 3.5 ton ac WR Description: LDOH 2000 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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
	ψ0.00	1	
SUBTOTAL:	\$0.00	\$0.00	\$0.00



Printed Date: 3/10/2021 Dist: CSA

Design Number 1

WR No. 925037

		Design Number 1	WICH0: 520007				
			Page	e 1 of 1			
Materi	al Number	Description	Unit Price	Total Cost	Asset		
NSTALL							
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	Ν		
48	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$55.68	Ν		
24	2003690	BRACKET, CUTOUT, ARRESTER & POTHEAD DWG	\$7.22	\$173.28	Ν		
24	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$249.84	Ν		
312	2004197	CABLE, HANDCOIL, COPPER, 600V, 2/0 AWG,	\$2.32	\$723.84	Ν		
36	2004199	CABLE, HANDCOIL, COPPER, 600V, 4/0 AWG,	\$3.75	\$135.00	Ν		
24	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$43.20	Ν		
24	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$137.52	Ν		
48	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$110.88	Ν		
960	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$806.40	Ν		
6	2003528	CONNECTOR, 2-BOLT AL MAIN 336-500MCM TAP	\$25.78	\$154.68	Ν		
63	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$33.39	Ν		
24	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$15.84	Ν		
3	2077845	CONNECTOR, COMPRESSION H-BLOCK ACSR 4/0	\$0.68	\$2.04	Ν		
96	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$183.36	Ν		
72	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$344.16	Ν		
42	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$16.38	Ν		
24	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$1,697.76	Y		
17	2077806	FUSE LINK, 10A UNVRSL 100A CUTOUT 23" OA	\$3.91	\$66.47	Ν		
3	2077807	FUSE LINK, 15A UNVRSL 100A CUTOUT 23" OA	\$3.93	\$11.79	Ν		
4	2077805	FUSE LINK, 7A UNVRSL 100A CUTOUT 23" OAL	\$3.89	\$15.56	Ν		
48	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$83.52	Ν		
24	2007368	PROTECTOR, WILD LIFE, SLIP-ON TYPE	\$5.35	\$128.40	Ν		
96	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$1,317.12	Ν		
24	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$63.60	Ν		
24	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$6.48	Ν		
24	2077812	SPACER, CABLED SECONDARY	\$6.79	\$162.96	Ν		
240	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$64.80	Ν		
24	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$10.18	\$244.32	Ν		
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		
	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$28.80	Ν		
	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$7.92	Ν		
76	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$47.63	Ν		
	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$91.20	Ν		
			Total	\$43,871.30			



## Estimate Summary Design Number 1

**Distribution Services** LDOH 2000 sq ft Primary Printed Date: 3/10/2021 District: CSA

### WR No. 925038

Date Sched: 4/1/21 Date Required: 4/1/21

#### Additional Information: Used for 2000 square foot design WR Description: LDOH 2000 sq ft PRIMARY

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA

WR No. 925038

**Design Number 1** 

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			Page		
Material Number		Description	Unit Price	Total Cost	Asset?
5	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$198.40	Y
9 2077739 B		BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$28.08	Ν
7	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$7.28	Ν
2	2077780	BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$4.16	\$8.32	Ν
5	2003681	BRACKET, "L", LIGHTNING ARRESTER 10 KV	\$7.95	\$39.75	Ν
2	2003685	BRACKET, FIBERGLASS STANDOFF VERTICAL16"	\$25.98	\$51.96	Ν
2	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$20.82	Ν
18	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$164.16	Ν
5	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$9.00	Ν
16	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$91.68	Ν
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	Ν
22	2077838	CONNECTOR, COMPRESSION H-BLOCK ACSR #2-1	\$0.41	\$9.02	Ν
16	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$10.56	Ν
10	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$19.10	Ν
15	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$71.70	Ν
2	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$141.48	Y
4	2077765	DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$2.35	\$9.40	Ν
2	2077794	FUSE LINK, 103A UNVRSL 100A CUTOUT 23" O	\$24.29	\$48.58	Ν
2	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$7.50	Ν
2	2077952	INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.21	\$2.42	Ν
9	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$106.74	Ν
10	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$17.40	Ν
9	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$13.59	Ν
20	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$274.40	Ν
7	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$1.89	Ν
50	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$13.50	Ν
2	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$34.38	Ν
14	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$10.18	\$142.52	Ν
2	2003613	TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$2.87	\$5.74	Ν
22	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$5.28	Ν
4	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$0.44	Ν
67	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$42.21	Ν
20	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$7.60	Ν
			Total	\$3,368.37	



## Estimate Summary Design Number 1

Distribution Services LDOH 2000 sq ft - POLES

Printed Date: 3/10/2021 District: CSA

### WR No. 925039

Date Sched: 4/1/21 Date Required: 4/1/21

#### Additional Information: Used for 2000 square foot design WR Description: LDOH 2000 sq ft POLES

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA

WR No. 925039

Design Number 1

VR NO. 9250 Page 1 of 1

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



## Estimate Summary Design Number 1

**Distribution Services** LDOH 2000 sq ft Secondary Printed Date: 3/10/2021 District: CSA

### WR No. 925040

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Used for 2000 sq ft 3.5 TON AC design WR Description: LDOH 2000 sq ft SECONDARY

	1		
INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA

WR No. 925040

**Design Number 1** 

Page 1 of 1

			Fage I OI I				
Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?		
STALL							
8	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$385.20	Ν		
34	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$106.08	Ν		
24	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$57.84	Ν		
8	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$9.28	Ν		
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	Ν		
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	Ν		
30	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$19.80	Ν		
30	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$71.40	Ν		
128	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$49.92	Ν		
8	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$404.32	Ν		
32	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$72.64	Ν		
24	2077951	HOOK, GUY	\$2.73	\$65.52	Ν		
16	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$235.68	Ν		
8	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$4.43	\$35.44	Ν		
46	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$69.46	Ν		
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	Ν		
24	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$11.28	Ν		
35	2077812	SPACER, CABLED SECONDARY	\$6.79	\$237.65	Ν		
24	2078002	WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$29.28	Ν		
108	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$25.92	Ν		
105	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$11.55	Ν		
60	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$37.80	Ν		
1726	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$569.58	Ν		
			Total	\$25,452.75			



## Estimate Summary Design Number 1

Distribution Services LDOH 2000 sq ft SERVICE

Printed Date: 3/10/2021 District: CSA

### WR No. 926547

Date Sched: 4/1/21 Date Required: 4/1/21

#### Additional Information: Used for 2000 square foot design WR Description: LDOH 2000 sq ft SERVICE

•			
INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/10/2021 Dist: CSA WR No. 926547

**Design Number 1** 

Mate	Material Number Description		Unit Price	Total Cost	t Asset?
INSTALL					
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	Ν
			Total	\$9,449.06	

#### 4/2021

#### HIGH DENSITY MODEL (176 lots)

#### Underground Costs (per lot)

	MATER	IAL	LABOR		TOTAL			
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % 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%		
TOTAL	866.33	33.90%	1,015.10	6.90%	1,881.43	17.84%		
	Net Present Value of the Life Cycle Operational Cost Including Sto 583.66 Restoration and Lost Pole Attachment Revenue							
Total with NPV Factor					2,465.09	465.09 Total Including NPV of Operational Cost		

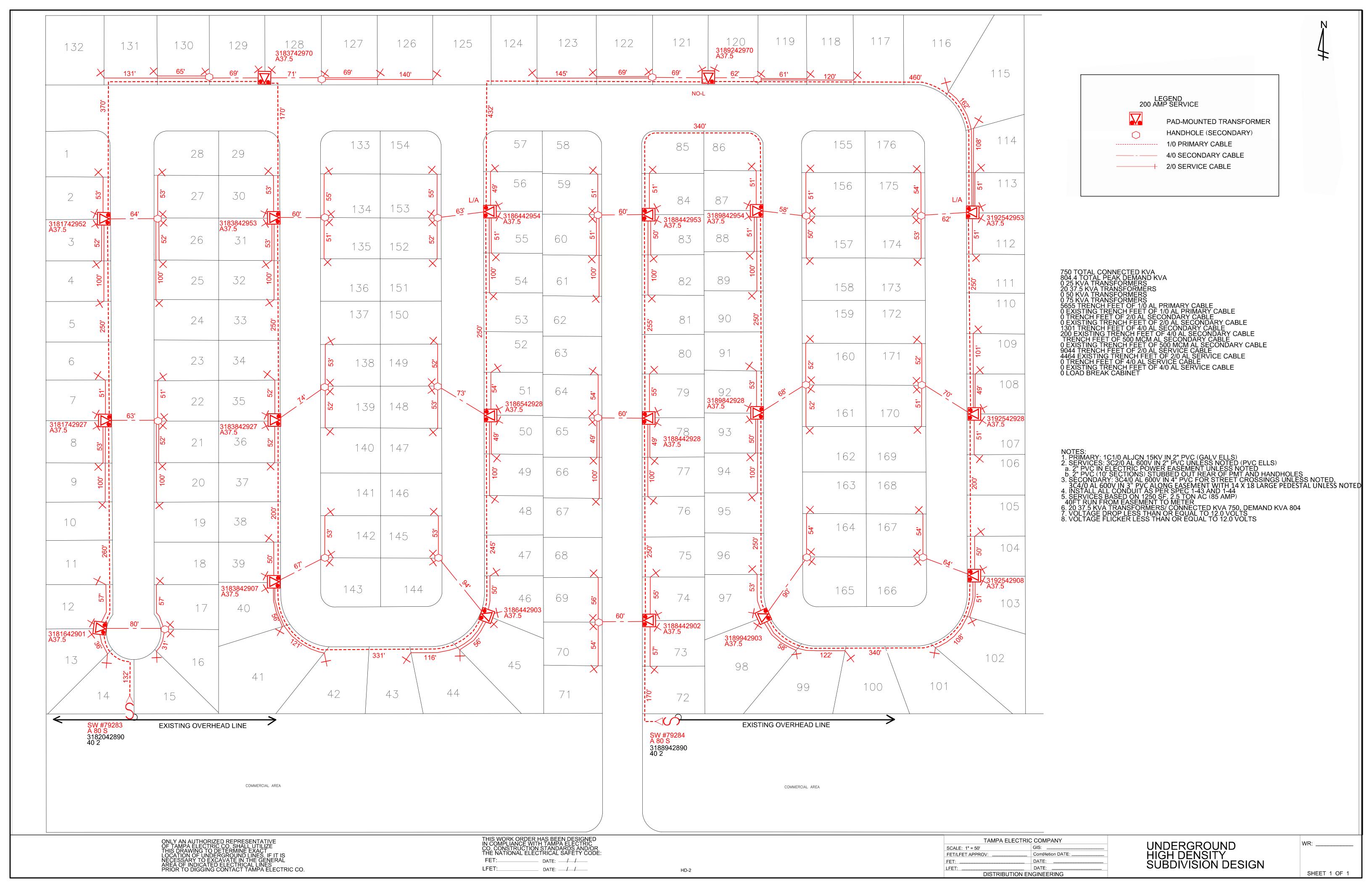
#### Overhead Costs (per lot)

	MATERIAL		LABC	DR	τοτα	L		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % 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%		
TOTAL	551.19	18.07%	570.46	6.71%	1,121.65	12.01%		
					1,408.20		t Value of the Life Cycle Operational Cost Including Storm and Lost Pole Attachment Revenue	
Total with NPV Factor					2,529.85	Total Including NPV of Operational Cost		

#### Differential Costs (per lot)

	MATERIAL		LABOR		TOTAL	
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE
Differential (per lot)	315.14	74.92%	444.64	7.15%	759.78	27.66%
NPV amount					-824.54	
Differential ' (per lot)					-64.76	-90.55%

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



#### Revised 3/23/21

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

	А	В	C (D+ M)	D	E (F + L)	F (G + H + I)	G	H (G x J x TLF)	l (G x K x CLF)	J	К	L	M (D x MHR)	N (C+E)
			Material and		Total Labor	(0 · 11 · 1)	Base	Operations Labor	Contract Labor	TEC	Contractor		Material	(0, E)
Line #	Work Type/WR #	Description	Handling	Material	Plus Vehicles	Total Labor	Labor	Overheads	Overheads	Work %	Work %	Vehicle	Handling	Total
	Wolk Type/Witt #	Beschpiton	Hunding	Material			Luboi	Overheads	Overneddo	Work //	Work //	Vernole	Handing	10101
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	Contracto	or Prepare Pad Site			3,453.17	3,453.17	\$ <u>2,876.20</u>		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	on for Primary	-	-	8,846.62	8,385.42	\$8,385.42	-	-	0%	0%	\$461.20	-	8,846.62
25		2	-		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		on 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	J	5 · · · · · · · · · · · · · · · · · · ·												
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 3	,	866.33		1,015.10	100,011.40	.00,020.04	11,007.00	20,040.00			4,000.10	. 0,000.04	1,881.43
	2111 I SI 201 (Ellio C		000.00		1,010110									1,001110

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

		igh Density - 176 lot - Contractor Labor - Underground Estimate
		Update the contractor labor rates on this page. The numbers to be updated are highlighted in blue.
		. 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.
		Transfer the contractors costs to the HDdifferentialMonth-Year.xls file. The numbers are highlighted in yellow.
		Hover over the red comment symbol in the corner of the cell that refers to the destination of the contractor cost.
		In 2006 TEC added pad site preparation cost, a contractor cost.
		repare pad site (Primary Contractor Labor Costs)
		Total Cost Pad sites
Pad site preparation	Total	2,876.20 \$143.81 20
		rimary Trenching & Conduit (Primary Contractor Labor Costs)
		Total Cost Feet
		11,762.40 \$2.08 5655 Trenching Cost
		\$2,884.05 \$0.51 5655 Conduit Installation - 2"
		\$0.00 \$0.00 5655 Pull-tape Installation (used exact length for labor cost not 5% extra)
Primary Trenching	Total	14,646.45
		econdary Trenching & Conduit (Primary Contractor Labor Costs)
		Total Cost Feet
		\$2,706.08
		\$0.00 \$0.51 0 Conduit Installation - 2"
		\$149.05 \$0.55 271 Conduit Installation - 3"
		\$787.20 \$0.64 1230 Conduit Installation - 4"
Secondary Trenching	Total	\$0.00  \$0.00  1501  Pull-tape Installation (used exact length not 5% extra) <b>\$3,642.33</b>
costinuity menoning		
		ervice Trenching & Conduit (Primary Contractor Labor Costs)
		Total Cost Feet
		\$7,829.12 \$2.08 3764 Trenching feet required for 2" service conduit
		\$0.00 \$2.08 0 Trenching feet required for 3" service conduit \$4,196.28 \$0.51 8228 Conduit Installation - 2"
		\$0.00 \$0.55 0 Conduit Installation - 3"
		\$0.00 \$0.00 8228 Pull-tape Installation (used exact length not 5% extra)
Svc Trenching Rts-of-Wy	Sub-tota	12,025.40
		ervice Trenching & Conduit on Private Property (Service Contractor Labor Costs)
		Total Cost Feet
Svc Trenching Pri. Prop	Sub-tota	27,772.80 \$5,26 5280 Trenching feet and conduit = 30ft x 176
		ervice Cable (Service Contractor Labor Costs)
	Cub total	<u>Total Cost Feet</u>
Service Cable Labor Service Labor	Sub-tota Total	35,727.12 \$2.34 15268 Installing 2/0 or 4/0 Cable in existing conduit 75,525.32
Service Labor	Total	1,020.02
		spection (TECO Labor Cost)
		TEC Labor TEC Labor TEC Vehicle TEC Vehicle
		Total Rate Feet/Qty Rate Total Inspection costs for Primary Contractor (TECO Labor Cost)
		\$4,423.47 \$88.00 5655 \$4.84 \$243.29 Primary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate \$1,017.67 \$88.00 1301 \$4.84 \$55.97 Secondary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate
		\$2,944.28 \$88.00 3764 \$4.84 \$161.94 Service ROW Inspection chg = (machine trench ft / 900 ft per day) (6 hr/day) Contractor rate
	Sub-tota	\$4,344.20 \$66.00 \$7.04 \$4.64 \$101.94 Service (Cow inspection city – (machine trench it / 900 it per day) (om/day) Contractor rate \$8,385.42 \$461.20
		TEC Labor TEC Labor TEC Vehicle TEC Vehicle
		Total Rate Feet/Oty Rate Total Inspection costs for Service Contractor (TECO Labor Cost)
	Sub tota	\$7,744.00 \$88.00 176 \$2.42 \$425.92 Service Private Property Inspection = .5hr x # of lots x rate <b>\$7,744.00 \$425.92</b>
	3uj-1018	••••••••••••••••••••••••••••••••••••••

### 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 <u>Number</u> 925091	Transformer Material CUs		
Qty	CU	Definition	Total Connected K	VA
-	pku51a3n	25 kva, 6 tap 250mcm	0	
0	pku51c3n	25 kva, 8 tap 250mcm	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	
	pku51b5n	50 kva,6 tap 500mcm	0 750	
	pku51c5n	50 kva,8 tap 250mcm	0 750	
	pku51d5n	50 kva,8 tap 500mcm	0 750	
	pku51a6n	75 kva, 6 tap 250mcm	0 750	
	pku51b6n	75 kva, 6 tap 500mcm	0 750	
	pku51c6n	75 kva,8 tap 250mcm	0 750	
	pku51d6n bushcover	75 kva, 8 tap 500mcm	0 750	
	bushdummy	Cover hot Tx bushing - at open position on loc Parking bushing at normal open tx in loop	γιλ, υι αι ιαυίαι 1Χ	
01	Work Request <u>Number</u> 925095	<u>Ground Pad Mounted Tx - Material</u>	<u>CUs</u>	
Qty	CU	Definition		
20	grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" roo	us	
	Work Request <u>Number</u> 925096	Primary Overhead - Material CUs		
Qty	CU	Definition		
2	PKE601WF1B	TEC material & labor to frame termin	al pole CO & LA	
2	FLOH103	Fuse		
Qty	Work Request <u>Number</u> 925097 CU	Meggar Ground at Terminal Pole_		
2	grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" roo	as	
0	Used to detern CU Trenching feet Existing trench	hing - Labor Only - Done By Contractors ine contractor labor cost on the Contractor La Definition required for 2" primary conduit feet used for 2" primary conduit "ape (blow in tape for pull - trench feet used to		cost)
	Work Request <u>Number</u> 925100	Primary Cable		
40 0 0 0 5655		Definition pothead, 38' 1c 1/0AL cable, 20' pvc, ground safebreak, 5' 1c 1/0AL cable, ground conn switch cubicle(lbc) 1ph, 200a deadfront, 3 pos switch cubicle(lbc) 1ph, 200a deadfront, 4 pos fault indicator, 1ph 1/0-4/0 above grade, 400a cable, 1/0AL concentric neutral 15kV includes labor to pull up cable in conduit	sition w/pad, grnd sition w/pad, grnd	76 200 6524.1
2 40 0 0 0 5655	CU pku16wf pku11f pku31p3 pku31p4 fault1pa	pothead, 38' 1c 1/0AL cable, 20' pvc, ground safebreak, 5' 1c 1/0AL cable, ground conn switch cubicle(lbc) 1ph, 200a deadfront, 3 pos switch cubicle(lbc) 1ph, 200a deadfront, 4 pos fault indicator, 1ph 1/0-4/0 above grade, 400a	sition w/pad, grnd sition w/pad, grnd	

#### Work Request Number 925098

Pr	im	ar	y	Conduit -	Mat	teria	l Oi	nly		
	_									

Trinary Conduit - Material Only
Material used by contractors to install the conduit system

#### Definition

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

- 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

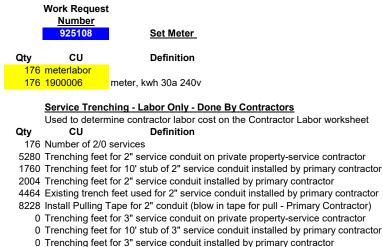
Qty

#### Number 925103 Secondary Cable & Hand Holes Qty CU Definition 0 wiu3sb 2c 2/0 1c 1 neutral, 600 v - added 5% here 1691 CA4/0INS3CAI 2c 4/0 1c 2/0 neutral, 600v includes labor - added 5% he 2029.2 2c 500 1c 350 neutral, 600v - added 5% here 0 wiu3sn 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



- 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	<u>Number</u> 925106	<u>Service Cable Material Only</u> 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		Service Conduit Material Only
	925110	Material used by contractors to install the conduit system
Qty	cu	Definition
		service on private property-service contractor
		' stub of 2" service installed by primary contractor
		service installed by primary contractor
		nstalled in 2" conduit by Primary Contractor)
	5522000	Total 2" conduit for work order quantity
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)
		service on private property-service contractor
		' stub of 3" service installed by primary contractor
		service installed by primary contractor
		nstalled in 3" conduit by Primary Contractor)
	5523000	Total 3" conduit for work order quantity
	5523220	3" elbow 90 PVC 13" radius
	5523210	3" elbow 45 PVC 13" radius
	5512770	2-1/2" house riser
	5523220	3" elbow 90 PVC 13" radius at house riser
	5512670	2-1/2" galvanized Lock Nut Used by contractors to install conduit system
	5523030	3" Flexible PVC conduit
	5521000	2-1/2"PVC Adapter, male thread/female slip
	5523180	Coupling, 3" PVC (2 per elbow)
	gluecondf	2"&3" pvc 1 qt for 500' fast dry
11/48	5853530	Total Pulling Tape installed in conduit by Primary Contractor)



**Contact Name:** Tampa Electric

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# Estimate Summary Design Number 1

#### **Distribution Services** HDUG Transformers

Printed Date: 3/11/2021

#### District: CSA WR No. 925091

Date Sched: 4/1/21 Date Required: 4/1/21

## Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft TRANSFORMERS

•	,		<b>T</b> - 4 - 1
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA

**Design Number 1** 

WR No. 925091 Page 1 of 1

		1 49	, 1011	
terial Numbe	er Description	Unit Price	Total Cost	Asset?
2004816	BUSHING, PARKING, 15KV, INSULATED	\$38.70	\$38.70	Ν
2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$36.00	Ν
2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$92.40	Ν
2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$4.76	Ν
2004817	COVER, BUSHING 15 KV PDMT EQUIP W/FLEXIB	\$25.11	\$25.11	Ν
2001315	PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$103.25	\$2,065.00	Ν
2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$459.40	Ν
2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$55.40	Ν
2004031	STUD, GALVANIZED, 11 THREAD PER INCH ALL	\$2.47	\$98.80	Ν
2004948	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$7.54	\$67.86	Ν
2004954	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$16.58	\$99.48	Ν
2004950	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8	\$8.28	\$372.60	Ν
2001519	TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS	\$2,108.00	\$42,160.00	Y
2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$75.60	Ν
2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$1.14	Ν
		Total	\$45,652.25	
	2004816 2077906 2078000 2077931 2004817 2001315 2007395 2007489 2004031 2004948 2004954 2004950 2001519 2004184	<ul> <li>2004816 BUSHING, PARKING, 15KV, INSULATED</li> <li>2077906 CLAMP, GROUND ROD, F/U/W 1/2"ROD</li> <li>2078000 CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU</li> <li>2077931 CONNECTOR, VICE CU #2 STR</li> <li>2004817 COVER, BUSHING 15 KV PDMT EQUIP W/FLEXIB</li> <li>2001315 PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T</li> <li>2007395 PADLOCK, RED BRASS BODY 1/4" BRASS SHACK</li> <li>2007489 REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH</li> <li>2004031 STUD, GALVANIZED, 11 THREAD PER INCH ALL</li> <li>2004948 TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6</li> <li>2004950 TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8</li> <li>2001519 TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS</li> <li>2004184 WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR</li> </ul>	terial Number         Description         Unit Price           2004816         BUSHING, PARKING, 15KV, INSULATED         \$38.70           2077906         CLAMP, GROUND ROD, F/U/W 1/2"ROD         \$1.80           2078000         CLAMP, GND, TRANSFORMER,#10 SOL-#1 STR CU         \$2.31           2077931         CONNECTOR, VICE CU #2 STR         \$2.38           2004817         COVER, BUSHING 15 KV PDMT EQUIP W/FLEXIB         \$25.11           2001315         PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T         \$103.25           2007395         PADLOCK, RED BRASS BODY 1/4" BRASS SHACK         \$22.97           2007489         REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH         \$2.77           2004031         STUD, GALVANIZED, 11 THREAD PER INCH ALL         \$2.47           2004954         TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6         \$7.54           2004950         TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8         \$8.28           2001519         TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS         \$2,108.00           2004184         WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR         \$0.63           2078011         WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN         \$0.38	2004816         BUSHING, PARKING, 15KV, INSULATED         \$38.70         \$38.70           2077906         CLAMP, GROUND ROD, F/U/W 1/2"ROD         \$1.80         \$36.00           2078000         CLAMP, GROUND ROD, F/U/W 1/2"ROD         \$1.80         \$36.00           2077931         CONNECTOR, VICE CU #2 STR         \$2.31         \$92.40           2004817         COVER, BUSHING 15 KV PDMT EQUIP W/FLEXIB         \$25.11         \$25.11           2001315         PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T         \$103.25         \$2,065.00           2007395         PADLOCK, RED BRASS BODY 1/4" BRASS SHACK         \$22.97         \$459.40           2007489         REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH         \$2.77         \$55.40           2004031         STUD, GALVANIZED, 11 THREAD PER INCH ALL         \$2.47         \$98.80           2004948         TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6         \$7.54         \$67.86           2004954         TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8         \$8.28         \$3372.60           2001519         TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS         \$2,108.00         \$42,160.00           2004184         WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR         \$0.63         \$75.60           2078011         WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN         \$0.38         \$1.14 </td



# Estimate Summary Design Number 1

**Distribution Services** HDUG GRD Transformers Printed Date: 3/11/2021 District: CSA

### WR No. 925095

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft GROUND TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA WR No. 925095

**Design Number 1** 

Mate	erial Numbe	r Description	Unit Price	Total Cost	t Asset?
INSTALL					
60	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$286.80	Ν
80	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$1,097.60	Ν
			Total	\$1,384.40	



# Estimate Summary Design Number 1

**Distribution Services** HDUG FRAME OH Takeoff Printed Date: 3/11/2021 District: CSA

## WR No. 925096

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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

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

\$0.00

\$1,553.12

SUBTOTAL:

TOTALS:

\$0.00

\$0.00

\$0.00

\$1,553.12



Printed Date: 3/11/2021 Dist: CSA

**Design Number 1** 

WR No. 925096 Page 1 of 1

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



# Estimate Summary Design Number 1

Dist Svcs HDUG GRD takeoff POLE Printed Date: 3/11/2021 District: CSA

### WR No. 925097

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft GROUND TAKEOFFS

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA WR No. 925097

Design Number 1

	Material Number		Material Number Description		Total Cost	t Asset?
INSTAL	.L					
	6	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$28.68	Ν
	8	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$109.76	Ν
				Total	\$138.44	



# Estimate Summary Design Number 1

Distribution Engineering HDUG Pri Conduit Material

Printed Date: 3/11/2021 District: CSA

### WR No. 925098

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft PRIMARY CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA WR No. 925098

**Design Number 1** 

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
12	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$74.64	Ν
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	Ν
46	2004395	ELBOW, 2" 90 DEGREE ,GALVANIZED, 24" MIN	\$34.29	\$1,577.34	Ν
8	2004394	ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	\$26.25	\$210.00	Ν
6155	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$184.65	Ν
			Total	\$8,360.08	



# Estimate Summary Design Number 1

Dist Svcs HDUG PRIMARY Printed Date: 3/11/2021 District: CSA

### WR No. 925100

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft PRIMARY CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA

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**Design Number 1** 

WR No. 925100

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
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	Ν
2	2004453	CAP, END CABLE 600 V CABLE RANGE .940 -	\$1.96	\$3.92	Ν
2	2003752	CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO	\$7.92	\$15.84	Ν
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	Ν
44	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$104.72	Ν
40	2004642	KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0	\$9.46	\$378.40	Ν
8	2004403	STRAP, GALV 2 IN 2 HOLE	\$0.28	\$2.24	Ν
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	Ν
			Total	\$15,227.81	



# Estimate Summary Design Number 1

Dist Svcs HDUG SECONDARY Printed Date: 3/11/2021 District: CSA

WR No. 925103

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft SECONDARY CABLE

•	•		
INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA WR No. 925103

**Design Number 1** 

			-		
Mate	Material Number Description		Unit Price	Total Cost	Asset
NSTALL					
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	Ν
12	2005025	CONNECTOR, 600V, URD, 8 POSITION, CONDUC	\$30.35	\$364.20	Ν
22	2000241	DECAL,WARNING,NOTICE,CLEARANCE,10" X 7"	\$3.56	\$78.32	Ν
22	2004714	HANDHOLE, ABOVE GRADE, LARGE DOME	\$186.22	\$4,096.84	Ν
22	2005212	MARKER, CURB LEXAN .040 THICK, ROUND 2.5	\$2.83	\$62.26	Ν
22	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$505.34	Ν
			Total	\$8,598.95	



# Estimate Summary Design Number 1

Dist Svcs HDUG SEC CONDUIT Printed Date: 3/11/2021 District: CSA

WR No. 925104

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft SECONDARY CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA WR No. 925104

**Design Number 1** 

VR INO. 920 Page 1 of 1

Mate	Material Number Description			Total Cost	Asset?
INSTALL					
1	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$6.22	Ν
6	2007228	CEMENT, PVC GRAY MEDIUM DRY QUART W/DAUB	\$7.27	\$43.62	Ν
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	Ν
72	2004535	COUPLING, PVC 4 IN SCH 40 TEMS 13.01	\$4.28	\$308.16	Ν
8	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$36.16	Ν
36	2004538	ELBOW, PVC 4", 90 DEG., 16" RADIUS, SCHE	\$6.68	\$240.48	Ν
1901	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$57.03	Ν
			Total	\$5,153.37	



# Estimate Summary Design Number 1

Dist Svcs HDUG SERVICE CABLE Printed Date: 3/11/2021 District: CSA

WR No. 925106

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft SERVICE CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



## Work Request Material Summary \*\*\*Includes Truck Stock\*\*\*

Printed Date: 3/11/2021 Dist: CSA WR No. 925106 Page 1 of 1

**Design Number 1** 

		P	<b>'</b> a

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



# Estimate Summary Design Number 1

Dist Svcs HDUG SET METERS Printed Date: 3/11/2021 District: CSA

#### WR No. 925108

Date Sched: 4/1/21 Date Required: 4/1/21

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

	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



# Estimate Summary Design Number 1

Dist Svcs HDUG SERVICE CONDUIT Printed Date: 3/11/2021 District: CSA

WR No. 925110

Date Sched: 4/1/21 Date Required: 4/1/21

### Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft SERVICE CONDUIT

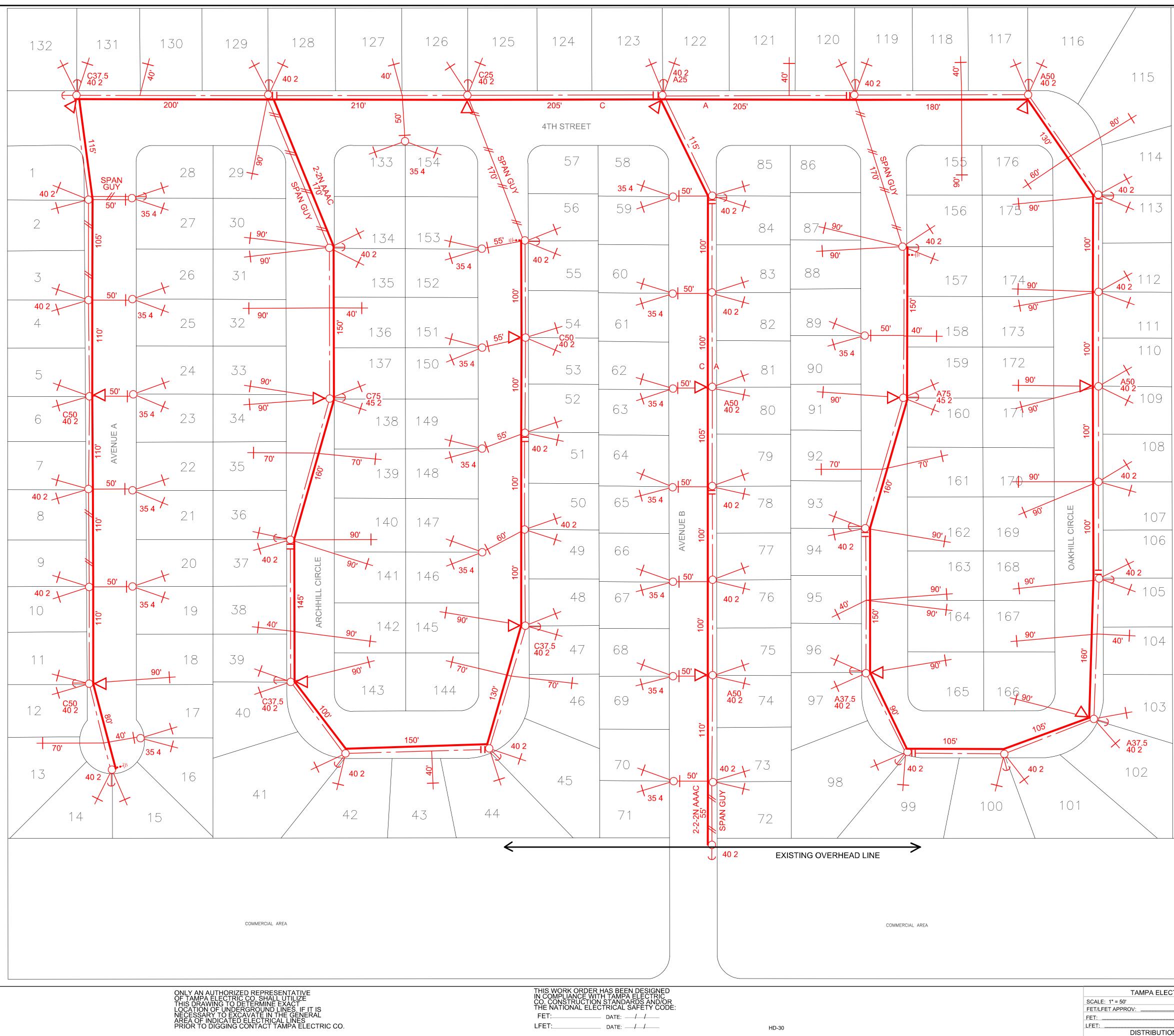
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$18,669.34	\$0.00	\$18,669.34
OVERHEAD:	\$2,581.97	\$0.00	\$2,581.97
	\$21,251.31	\$0.00	\$21,251.31
LABOR HOURS:	0	0	0
LABOR COST:	\$0.13	\$0.00	\$0.13
OVERHEAD:	\$0.19	\$0.00	\$0.19
	\$0.32	\$0.00	\$0.32
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00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



Printed Date: 3/11/2021 Dist: CSA WR No. 925110

**Design Number 1** 

Mate	rial Numbe	r Description	Unit Price Total (		Asset?	
INSTALL						
176	2004493	ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR	\$0.40	\$70.40	Ν	
31	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$192.82	Ν	
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	Ν	
176	2004401	CONDUIT, SERVICE RISER, PVC, 2"	\$4.92	\$865.92	Ν	
896	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$537.60	Ν	
448	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$564.48	Ν	
176	2004396	NUT, LOCK GALV 2 IN	\$0.54	\$95.04	Ν	
11810	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$354.30	Ν	
			Total	\$18,669.34		

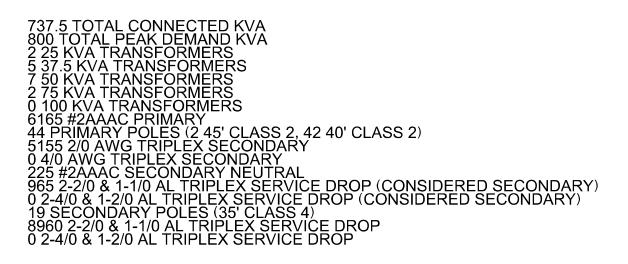






LEGEND	
200 AMP SERVICE	Ξ

0	WOOD POLE
$\nabla$	TRANSFORMER
+	2/0 TRIPLEX SERVICE DROP
	2/0 TRIPLEX SECONDARY
	#2 AAAC PRIMARY
$\longrightarrow$	DOWN GUY
//	SPAN GUY
	OPEN



NOTE: 1. 1250 SF HOMES 2. 2.5 TON AC UNIT 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

ELECTRIC COMPANY							
	GIS:						
	Completion DATE:						
	DATE:						
	DATE:						



WR: \_\_\_\_\_

#### **OH Construction Cost Data Summary**

High Density (176-Lot) OH Subdivision Costs

	А	В	C (D+ M)	D	E (F + L)	F (G + H + I)	G	H (G x J x TLF)	l (G x K x CLF)	J	К	L	M (D x MHR)	N (C+E)
			Material and		Total Labor		Base	Operations Labor	Contract Labor	TEC	Contractor		Material	
Line #	Work Type/WR #	Description	Handling	Material	Plus Vehicles	Total Labor	Labor	Overheads	Overheads	Work %	Work %	Vehicle	Handling	Total
1	Transformers													
2	925111	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														
4	Primary													
5	925112	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
6		includes Grounding Primary Takeoffs												
7	Poles													
8	925113	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
9		Includes Haul Poles Out												
10	Secondary										4004	<b>•</b> • • <b>• • •</b> • • •		
11	925114	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
12 13	0													
13	Services 927142	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
14	927142	Install Meters	10,342.22	\$15,818.88	3,314.51	2,666.48	1,552.59	4,262.99	124.58	60%	40%	\$1,357.44 648.03	1,126.20	23,189.66
	327105	install meters				· · · · · · · · · · · · · · · · · · ·				0078	4078			
16 17			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
17	Engineering	Design/Inspection/Coordination		-	10,785.62		_			100%	0%			10,785.62
19	Engineering	Design/inspection/Coordination	-	-	10,765.02		-	-	-	100%	0%		-	10,765.62
20	Tree Trim		_	-		_	_	_	_			_		_
20	1166 11111			-		-	-	-	-			-	-	-
22	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
22	Cost "Per Lot" (Line 3	,	551.20	00,447.91	570.46	19,049.00	40,493.07	29,020.30	3,730.00			5,700.45	10,003.95	1,121.66
23	COSt Fei LOL (LINE 3	110 1013)	551.20		570.46									1,121.00

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

#### 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 2018

Work Request #1 Assemblies ===> Total Quantities =>	925111 25 KVA PKT11W3F 2	- Transformers (enter the 37.5 KVA PKT11W4F 5	ese Construction Units into W 50 KVA PKT11W5F 7	/orkPro) 75 KVA PKT11W6F 2	100 KVA PKT11W7F 0	Stirrup ALSTRP1/0 16	Spacer SEWC 16	Grounding GRDMEG1/2 16					
Work Request #2 Assemblies ===> Total Quantities =>	925112 #2 AAAC WIOPA 6165	- Primary 1st span WIO2F 1	Additional WIO2A 7	lst span WIO1F 3	Additional WIO1A 32	Fused cutouts PKP208WB3A 1	DE & TAP PKP101WA3A 4	Fuses FLOH103 2	Grounding GRDMEG1/2 3				
Work Request #3 Should be ====> Assemblies ===> Total Quantities =>	925113 Pole haul POLE_HAUL 44	- Poles and Guys 20 Deadend STP402_DE_40C2 1	2 ø tangent STP103_TAN_40C2 6	2 ø Corner STP302_RC_40C2 1	lø Deadend STP401_DE_40C2 4	1ø angle <20 STP101_ANG_40C2 5	1σ angle <20 STP101_ANG_45C2 2	lø Tangent STP101_TAN_40C2 13	1ø angle >20 STP301_RC_40C2 11	3 ø STP104E4B 1	Down guys PKG12W2H 29	Pole hardware PKG31W1H 4	Guy wire GUYSTR3/8 340
Work Request #4 Assemblies ===> Total Quantities ==>	925114 35' CL 4 STS11C 0	- Secondary - From Secor 0 POLE_HAUL 0	ndary&Neutral worksheet 2/0 WIO3SB 5155	4/0 WIO3SC 0	#2 Neutral C2AAAC 225	Labor WIOCF 6	Labor WIOCA 37	Eyebolt SEW1DEN 2	Eyenut SEG1DEN 2	DE+Bolt PKS11W 8	CABLEOPEN 14	Pole hardware PKG31W1H 8	
More of Work Request Assemblies ===> Total Quantities ==>		- Secondary continued - 1 35' Class 4 STS11C 19	From Secondary&Neutral wo Deadend PKS21G 35	orksheet and SlackSeconda Clamp CLMIDSPAN 3	ry (service cable) & Second 2/0 triplex CA2/0TPX 965	dary Poles worksheet 4/0 triplex CA4/0TPX 0	0 SVLABOR 19	Down guys PKG11W1H 1	Pole hardware PKG31W1H 2	Guy wire GUYSTR3/8 50			
Work Request #5 Assemblies Quantities	927142 2/0 triplex CA2/0TPX 8960	- Services 4/0 triplex CA4/0TPX 0	Clamp CLMIDSPAN 26	SVLABOR 0									

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



**Contact Name:** Tampa Electric

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# Estimate Summary Design Number 1

#### **Distribution Services** HDOH TRANSFORMER

Printed Date: 3/11/2021

#### District: CSA WR No. 925111

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description:	HDOH 1250 sc	ft TRANSFORMERS

			<b>_</b>
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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA

Design Number 1

WR No. 925111

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



**Contact Name:** Tampa Electric

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# Estimate Summary Design Number 1

#### **Distribution Services** HDOH PRIMARY

Printed Date: 3/11/2021

#### District: CSA WR No. 925112

Date Sched: 4/1/21 Date Required: 4/1/21

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
REMOVAL:			
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
TRANSFER:			
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



Printed Date: 3/11/2021 Dist: CSA

WR No. 925112

Design Number 1

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



**Contact Name:** Tampa Electric

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## Estimate Summary Design Number 1

**Distribution Services** HDOH POLES

Printed Date: 3/11/2021 District: CSA

WR No. 925113

Date Sched: 4/1/21 Date Required: 4/1/21

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
REMOVAL:			
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
TRANSFER:			
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
CUNTRACTOR.	φ0.00		
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
		\$0.00 \$0.00	\$0.00 \$0.00



# Work Request Material Summary

Printed Date: 3/11/2021 Dist: CSA

WR No. 925113

Design Number 1

Page 1 of 1

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



**Contact Name:** 

## Estimate Summary Design Number 1

Dist Eng HDOH SECONDARY

Printed Date: 3/11/2021 District: CSA WR No. 925114

Date Sched: 4/1/21 Date Required: 4/1/21

## Additional Information: Full PSC Filing 10/2010

WR Description: HDOH 1250 sq ft SECONDARY

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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



# Work Request Material Summary

Printed Date: 3/11/2021 Dist: CSA

Design Number 1

WR No. 925114

Page 1 of 1

Mate	rial Number	r Description	Unit Price	Total Cost	Asset?		
NSTALL							
1	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$48.15	Ν		
10	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$31.20	Ν		
11	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$26.51	Ν		
1	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$1.16	Ν		
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	Ν		
3	2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$7.09	\$21.27	Ν		
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	Ν		
8	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$5.28	Ν		
8	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$19.04	Ν		
86	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$33.54	Ν		
1	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$50.54	Ν		
12	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$27.24	Ν		
11	2077951	HOOK, GUY	\$2.73	\$30.03	Ν		
10	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$147.30	Ν		
1	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$4.43	\$4.43	Ν		
37	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$55.87	Ν		
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	Ν		
11	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$5.17	Ν		
19	2077812	SPACER, CABLED SECONDARY	\$6.79	\$129.01	Ν		
11	2078002	WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$13.42	Ν		
50	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$12.00	Ν		
57	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$6.27	Ν		
16	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$10.08	Ν		
657	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$216.81	Ν		
			Total	\$11,334.69			



**Contact Name:** 

## Estimate Summary Design Number 1

#### **Distribution Services** HDOH SERVICE

Printed Date: 3/11/2021

## District: CSA

WR No. 927142 Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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
			\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	ψ0.00
	\$0.00 \$0.00	<u>\$0.00</u> \$0.00	\$0.00



## Work Request Material Summary \*\*\*Includes Truck Stock\*\*\*

Printed Date: 3/11/2021 Dist: CSA WR No. 927142

**Design Number 1** 

### Page 1 of 1

Material Number		terial Number Description		Total Cost	Asset?
INSTALL					
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	Ν
			Total	\$9,216.02	



**Contact Name:** 

## Estimate Summary Design Number 1

Dist Svcs HDOH METERS Printed Date: 3/11/2021 District: CSA

### WR No. 927163

Date Sched: 4/1/21 Date Required: 4/1/21

## Additional Information: Full PSC Filing 10/2010

WR Description:	HDOH 1250 sc	ft METERS
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INSTALLATION:	Capital	Oper./Maint.	Total
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
REMOVAL:			
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
TRANSFER:			
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

Differential costs for s	single phase (1ø) services from a	an overhead	l source				
OVERHEAD SERVICE							
OH Service Cable - Mater							
This cost includes all service ca	amps, connectors and connector covers requi	red. The per looi	cost is a ma	(Material Handling)		OH Service Material Cost	
Action	Description	Material		Overhead		Per Foot	
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	
	ntractor labor cost to install the service cable e of Operation Cost with Storm Cost service cable service cable	, includes labor p \$106.81 \$151.14 \$151.92	olus overhead	ls and vehicle	plus the Net Presen	t Value of Operation	Cost with Storm Cost.
ON SERVICE CABLE - CC				Instal	lation Cost		
	OH Description			Fixed	Per Foot		
	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		
<u>OH Service - Poles</u> This is the cost to haul a service <u>Action</u> install	e pole to the site and install an overhead servi <u>Description</u> Accessible 35' wood pole Average cost to install a service pole	ice pole. <u>Total</u> \$801.36 \$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.

								Contractor		
		UG Cable		UG Conduit		Тесо		labor		UG Cable
		Material		Material		Inspection		Machine		Machine
		Cost		Cost		Labor		Trench		Trench Total
Action	Description	Per Foot		Per Foot		Per Foot		Per Foot		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 Pr	esent Value of Operation Cost with Storm Cos	t		\$83.87						
				(Material						Total
				Handling)		Contractor		NPV		Fixed
Action	Description	Material		Overhead		Labor		OC + SC		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		Installation Cost	Installat	ion Cost	Service Differential Cost		
Cable & Conduit With Machine Trench	Fixed	Per Foot	Description	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 1ø UG Secondary or 1ø UG service in conduit from OH source

#### Charge Cost/ft (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

 (\$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

		Total	•	System
		Removal	System	Average
Action	Average length service	Cost	<u>%</u>	Cost
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
Sys	stem Average cost to remove average length 1ø service			\$87.60
		Total		System
		Removal	System	Average
Action	Service length with a service pole	Cost	<u>%</u>	Cost
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
Svs	stem Average cost to remove average long 1ø service with ser	vice pole		\$455.79

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

Book Value Assumptions:

1. Average depreciation	0.036
<ol><li>Age of pole &amp; service, yrs.</li></ol>	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))

		Total		System	
		Installation	System	Average	
Action	Average length service	Cost	<u>%</u>	Cost	
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	
		Total		System	
		Installation	System	Average	
Action	Service length that requires a service pole	Cost	<u>%</u>	Cost	
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	
			Remove	Book value	Conversion
1ø Conversion	Cost from OH to UG service		Cost	Cost	Cost
1ø Average Service - 10	0 ft or less(Svc without pole) = (book value + removal)		\$87.60	\$117.48	\$205.08
1ø Average Long Servic	e- Greater than 100 ft (svc with one pole) = (book value + removal)		\$455.79	\$430.12	\$885.91

## Tariff Sheet No. 5.516 (3.7.2)

	Current Deposit		CPI - U	I	Proposed Deposit
Density Class	2018	2018	2019	2020	2021
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

#### Table I OPERATING COSTS

		OPERATING COSTS								
									3-Yr Average Allocated	3-Yr Average Allocated
			2018 Actual	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Overhead \$	Underground \$
Overhead - Blanket Account D-CRR-Voltage-OH (NEW)		New SAP/Funding project CRR-02630, CRR-02879	\$173,84	5 \$236,000	\$263,090	\$224,312	100.0%	0.0%	\$224,312	\$0
PRE - Dist Line - Fault Indicators		PRE-05080	\$5,60			\$8,528	100.0%	0.0%	\$8,528	\$0
Distr - Maint - Corrective - OH Line		CRR-02682, CRR-03641, PRE-04820	\$9,965,72			\$10,443,475		0.0%	\$10,443,475	\$0
Distribution - Maint - OH System Improvements			\$			\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination Distr - Maint - Preventative - OH Line		PRE-02805, PRE-02627	\$ \$6,761,43			\$0 \$7,450,028	100.0%	0.0%	\$0	\$0 \$0
Distr - Maint - Preventative - OH Line Distr - Maint - Trouble - OH Storm		CRR-02625, CRR-07052	\$2,215,98			\$3,496,175	100.0% 100.0%	0.0% 0.0%	\$7,450,028 \$3,496,175	\$0 \$0
Distr - Maint - Pole Inspect & Change-Outs		PRE-02624	\$15,267,78			\$15,438,414	100.0%	0.0%	\$15,438,414	\$0
Distr - Maint - Damage Replacement - OH Line		CRR-02629, CRR-07072	\$1,689,41	3 \$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	\$229,61			\$327,438	100.0%	0.0%	\$327,438	\$0
Distr - Maint - Capacitors Distr - Maint - Trouble - Non-Storm		PRE-02631, CRR-02628	\$435,89 \$			\$288,782 \$0	100.0% 0.0%	0.0% 0.0%	\$288,782 \$0	\$0 \$0
Distr - Maint - Tree Trimming - Planned			\$			\$0 \$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		DDE 00070	\$			\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements Distr - Maint - Pole CLAs & Change-Outs		PRE-03670 PRE-03640	\$467,40 \$254,66			\$434,379 \$135,560	100.0% 100.0%	0.0% 0.0%	\$434,379 \$135.560	\$0 \$0
Distr - Maint - Infrared Thermography		1 NE 00040	φ204,00			\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Services - OH Line		CRR-02680	\$774,55	<u>1 \$892,002</u>	\$966,573	\$877,709	0.0%	0.0%	\$0	\$0
	Subtotal		\$38,241,90	6 \$51,823,336	\$33,690,986	\$41,252,076				
Underground - Blanket Account			<b>\$7</b> 50	o \$10.07	<b>*</b> ~~ ~~~	<b>\$</b> 10.004	0.00/	100.00/	<b>\$</b> 0	<b>6</b> 40.004
D-CRR-Voltage-UG D-PRE-Transformers-UG		CRR-03814 PRE-03623	\$7,58 \$3,504,75			\$13,964 \$2,380,137	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$13,964 \$2,380,137
Distr - Maint - Corrective - UG Line		CRR-02644, CRR-03642	\$13,068,39			\$11,416,595	0.0%	100.0%	\$0	\$11,416,595
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 Distr - Maint - Network Corrective		PRE-02809, PRE-02646 CRR-02636	\$1,084,17 \$77,13			\$4,858,073 \$120,138	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$4,858,073 \$120,138
Distr - Maint - Network Preventative		PRE-04357	\$762,56			\$692,860	0.0%	100.0%	\$0	\$692,860
Distr - Maint - Capacitors - UG		CRR-02651, PRE-03813	\$12,43	0 \$396	\$53,629	\$22,152	0.0%	100.0%	\$0	\$22,152
Distr - Maint - UG Cable Rplcmnt - Planned		CRR-02649	\$3,724,48			\$3,524,993	0.0%	100.0%	\$0	\$3,524,993
Distr - Maint - Trouble - UG Storm Distr - Maint - Damage Replacement - UG Line		CRR-02645 CRR-02652	\$838,01 \$586,17			\$577,854 \$967,684	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$577,854 \$967,684
Distr - Maint - UG Cable Rplcmnt - Unplanned			\$000,17			\$0	0.0%	100.0%	\$0	\$0 \$0
Distr - Maint - Services - UG Line		CRR-02679	<u>\$1,089,93</u>			\$932,817	0.0%	0.0%	\$0	\$0
	Subtotal		\$24,755,64	8 \$24,415,665	\$27,350,485	\$25,507,266				
Overhead - O&M Account										
D-CRR-Voltage-OH (NEW)		CRR-02630, CRR-02879	\$38,51			\$48,712		0.0%	\$48,712	\$0
Distr - Maint - Corrective - OH Line Distribution - Maint - OH System Improvements		CRR-02858, CRR-02682	\$5,989,55 \$			\$6,583,866 \$0	100.0% 100.0%	0.0% 0.0%	\$6,583,866 \$0	\$0 \$0
Distribution - Maint - Mgmt & Coordination			\$			\$0 \$0	100.0%	0.0%	\$0	\$0 \$0
Distr - Maint - Preventative - OH Line		PRE-02627, PRE-02867, PRE-02868	\$98,50	3 \$176,940		\$133,283	100.0%	0.0%	\$133,283	\$0
Distr - Maint - Trouble - OH Storm		CRR-02625, CRR-02877	\$1,308,63			\$1,041,213	100.0%	0.0%	\$1,041,213	\$0
Distr - Maint - Pole Inspect & Change-Outs Distr - Maint - Damage Replacement - OH Line		PRE-04039, PRE-02859 CRR-02861, CRR-02629	\$1,929,16 \$178,52			\$1,597,692 \$206,775	100.0% 100.0%	0.0% 0.0%	\$1,597,692 \$206,775	\$0 \$0
Distr - Maint - Capacitors		CRR-02628, CRR-02857	\$190,25			\$123,276	100.0%	0.0%	\$123,276	\$0 \$0
Distr - Maint - Trouble - Non-Storm		CRR-02876	\$2,387,79	6 \$2,807,237	\$2,814,800	\$2,669,944	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Storms - OH - Restoration		CRR-10852	\$			\$4,545	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Reclosers / Trip-savers Distr - Maint - Tree Trimming - Planned		CRR-12716 PRE-04067	\$ \$10,316,53			\$2,190 \$13,691,536	0.0% 0.0%	0.0% 0.0%	\$0 \$0	\$0 \$0
Distr - Env - Train/Permit/Inspect/Audit/Protect		OPS-04740, PRE-04060	\$21,03			\$20,484	100.0%	0.0%	\$20,484	\$0
Distr - Maint - Tree Trimming - Unplanned		CRR-03621	\$1,562,58	4 \$2,222,800		\$1,937,361	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements		DDE 01000	\$			\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Pole CLAs & Change-Outs Distr - Maint - Infrared Thermography		PRE-04062	\$			\$0 \$0	100.0% 100.0%	0.0% 0.0%	\$0 \$0	\$0 \$0
Distr - Maint - Services - OH Line		CRR-02680, CRR-02871	\$786.51			\$811,488	0.0%	0.0%	\$0	\$0
	Subtotal		\$24,807,62	8 \$30,224,718	\$31,584,755	\$28,872,367				
Underground - O&M Account										
D-PRE-Transformers-UG		PRE-03623	\$3,47			\$1,160	0.0%	100.0%	\$0	\$1,160
Distr - Maint - Corrective - UG Line Distribution - Maint - UG System Improvements		CRR-02860, CRR-02644	\$1,548,93	· · ·	\$1,710,255	\$1,569,609	0.0%	100.0%	\$0 \$0	\$1,569,609
Distribution - Maint - OG System Improvements Distribution - Maint - Mgmt & Coordination			s			\$0 \$0	0.0%	100.0% 100.0%	\$0 \$0	\$0 \$0
Distr - Maint - Preventative - UG Line		PRE-02869, PRE-02809, PRE-02646, PRE-02870				\$275,877	0.0%	100.0%	\$0	\$275,877
Distr - Maint - Network Corrective		CRR-02636, CRR-02863	\$20,52			\$11,159	0.0%	100.0%	\$0	\$11,159
Distr - Maint - Network Preventative Distr - Locate Facilities		PRE-02864 PRE-04063	\$513,91 \$760.46			\$603,401 \$873,551	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$603,401 \$873,551
Distr - Locate Facilities Distr - Maint - UG Cable Rplcmnt - Planned		PRE-04063 CRR-03635, CRR-02649	\$760,46 \$127,82			\$873,551 \$74,342	0.0%	100.0%	\$0 \$0	\$873,551 \$74,342
Distr - Maint - Trouble - UG Storm		CRR-02878	\$120,87			\$56,561	0.0%	100.0%	\$0	\$56,561
D-CRR-Capacitors-UG		CRR-02651	\$			\$258	0.0%	100.0%	\$0	\$258
D-CRR-Storms-UG Distr - Maint - Damage Replacement - UG Line		CRR-02645 CRR-02862, CRR-02652	\$ \$103,90			\$0 \$150,675	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$0 \$150,675
Distr - Maint - UG Cable Replacement - UG Line		0111 02002, 0111-02002	\$103,90 \$			\$150,675	0.0%	100.0%	\$0 \$0	\$150,675
Distr - Maint - Services - UG Line		CRR-02679, CRR-02872	\$423,14	5 \$654,095	\$712,258	\$596,499	0.0%	0.0%	\$0	\$0
	Subtotal		\$3,929,55	2 \$4,234,190	\$4,475,530	\$4,213,091		-	¢E0 400 670	¢20 101 041
									\$50,129,670	\$28,191,041

	<u>Table II</u> 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 O&M		\$0 \$2,387,796	\$0 \$2,807,237	\$0 \$2,814,800	\$0 \$2,669,944	77.7% 77.7%	22.3% 22.3%	\$0 \$2,074,547	\$0 \$595,398
Operating Cost Total from Table I				(4	A) 3-Yr Avg Annua	l Operatio	onal Cost	\$50,129,670 <b>\$52,204,216</b>	\$28,191,041 <b>\$28,786,439</b>
Direction Ten Trianite Directed		2018 Actual \$	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Allocated Overhead \$	Allocated Underground \$
Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned		\$0 \$10,316,539	\$0 \$13,767,350	\$0 \$16,990,720	\$0 \$13,691,536	96.1% 96.1%	3.9% 3.9%	\$0 \$13,157,894	\$0 \$533,642
Blanket O&M		\$0 \$1,562,584	\$0 \$2,222,800	\$0 \$2,026,699	\$0 \$1,937,361	96.1% 96.1%	3.9% 3.9%	\$0 \$1,861,851	\$0 \$75,511
				(B) 3	-Yr Avg Annual Li	ne Cleara	nce Cost	\$15,019,745	\$609,153
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		\$27,000,000	\$27,000,000	\$27,000,000	\$ 27,000,000 (C) Estimated A	96.0% Annual Sto	4.0% _ orm Cost	\$25,920,000 <b>\$25,920,000</b>	\$1,080,000 <b>\$1,080,000</b>
Pole Attachment Revenue		\$4,429,688	\$4,495,861	\$4,591,960 (D) 201	\$4,505,836 0 Annual Pole Att		0.0% Revenue	\$4,505,836 <b>\$4,505,836</b>	\$0
	Table III SERVICE CONDUCTOR								
Distr - Maint - Services - OH Line Blanket O&M		\$774,551 \$786,519	\$892,002 \$808,204	\$966,573 \$839,741	\$877,709 \$811,488		0.0% 0.0%	\$877,709 \$811,488	\$0 \$0
Distr - Maint - Services - UG Line Blanket O&M		\$1,089,934 \$423,145	\$895,524 \$654,095	\$812,991 \$712,258	\$932,817 \$596,499	0.0%	100.0%	\$0 \$0	\$932,817 \$596,499
				4) (A	A) 3-Yr Avg Annua	I Operatio	onal Cost	\$1,689,197	\$1,529,316
	Table IV ALLOCATION FACTORS								
Line Clearance 2020 No. of company owned distribution poles 2020 No. of Terminal Poles on System		418,770 16,322	96.1% 3.9%						
Distribution - Maint - Trouble Calls - Non-storm			2020	2020					
No Outage Events (N) Outage Sys Avg Duration (L-Bar) Trouble Calls Weighted Avg Proportion (N) X (L-Bar) Allocation Percentage		2020 Entire System 9,810 166.49 1,633,267	Overhead System 8,018 158.36 1,269,730 77.7%	Underground System 1,792 202.88					
Service Count (Based on Metered Accounts)		No of Services	(Based on Mete	ered Accounts)					
Overhead Single & Three Phase (Excluding Multi-Family) Underground Single Phase (Excluding Multi-Family)		246,960 284,735							

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

0.80 % 6.70 % 35 Yrs 2.1 %

Assumptions:

rooump	
Inflation	Rate
Discount	Rate
Book Life	e
Pole Atta	ach Revenue Increase

				Overhead S	System				
		<u>(D)</u>	<u>(A)+(D)</u> <u>3-Yr Avg</u> <u>Annual</u>	<u>(B)</u>					
	(1)	<u>3-Yr Avg</u>	Operational	<u>3-Yr Avg</u>	<u>(C)</u>				
	<u>(A)</u> <u>3-Yr Avg Annual</u>	Annual Pole Attachment	Cost Incl Lost Attachment	Annual Line Clearance	Estimated Annual Storm	_	+(B)+(C)+ (D) V Incl Storm	(A)+(B)+(D)	(C) NPV Storm Only
Yr	<u>3-11 Avg Annual</u> Operational Cost (\$)	Revenue (\$)	Revenue(\$)	Cost (\$)	Cost (\$)	<u>NP</u>	(\$)	(\$)	(\$)
1		\$ (4,505,836)	\$ 47,698,380		\$ 25,920,000	\$	73,618,380	\$47,698,380	\$25,920,000
2	+ - , - , -	(4,602,149)	\$ 48,019,701	φ -	26,127,360	φ \$	69,491,154	\$45,004,406	\$24,486,748
3		(4,700,520)		_	26,336,379	\$	65,594,559	\$42,461,812	\$23,132,748
4		(4,800,993)		-	26,547,070	φ \$	61,915,739	\$40,062,122	\$21,853,617
5		(4,903,615)		-	26,759,446	\$	58,442,554	\$37,797,337	\$20,645,217
6			\$ 49,317,635	-	26,973,522	\$	55,163,537	\$35,659,902	\$19,503,635
7		(5,115,484)		-	27,189,310	\$	52,067,862	\$33,642,685	\$18,425,177
8	55,198,758		\$ 49,973,930	-	27,406,825	\$	49,145,304	\$31,738,951	\$17,406,353
9	55,640,348	(5,336,509)	\$ 50,303,839	-	27,626,079	\$	46,386,208	\$29,942,343	\$16,443,865
10	56,085,471	(5,450,577)		-	27,847,088	\$	43,781,455	\$28,246,857	\$15,534,598
11	56,534,155	(5,567,083)	\$ 50,967,072	-	28,069,865	\$	41,322,435	\$26,646,826	\$14,675,609
12		(5,686,079)		-	28,294,424	\$	39,001,017	\$25,136,899	\$13,864,118
13		(5,807,619)	. , ,	-	28,520,779	\$	36,809,522	\$23,712,024	\$13,097,498
14	, ,	(5,931,757)		-	28,748,945	\$	34,740,700	\$22,367,431	\$12,373,269
15	) )		\$ 52,306,525	16,792,293	28,978,937	\$	39,561,126	\$27,872,039	\$11,689,087
16	, ,	(6,188,050)		16,926,631	29,210,768	\$	37,342,951	\$26,300,215	\$11,042,736
17	, ,	(6,320,319)		17,062,044	29,444,454	\$	35,248,741	\$24,816,615	\$10,432,125
18	, ,	(6,455,416)		17,198,540	29,680,010	\$	33,271,584	\$23,416,305	\$9,855,279
19		(6,593,401)		17,336,129	29,917,450	\$	31,404,955	\$22,094,626	\$9,310,329
20		(6,734,335)		17,474,818	30,156,790	\$	29,642,691	\$20,847,179	\$8,795,512
21	61,223,228	(6,878,281)		17,614,616	30,398,044	\$	27,978,971	\$19,669,808 \$18,558,504	\$8,309,162 \$7,840,706
22 23	, ,	(7,025,304)	. , ,	17,755,533	30,641,228	\$	26,408,300	\$18,558,594	\$7,849,706 \$7,415,654
23 24		(7,175,470) (7,328,846)		17,897,578 18,040,758	30,886,358 31,133,449	\$ \$	24,925,487 23,525,631	\$17,509,833 \$16,520,027	\$7,415,654 \$7,005,604
24 25		(7,485,500)		18,185,084	31,382,517	գ Տ	22,204,104	\$15,585,876	\$6,618,228
25	, ,	(7,645,500)		18,330,565	31,633,577	φ \$	20,956,535	\$14,704,264	\$6,252,271
20	, ,	(7,808,925)		18,477,209	31,886,645	\$	19,778,797	\$13,872,246	\$5,906,551
28		(7,975,841)		18,625,027	32,141,739	\$	18,666,992	\$13,087,045	\$5,579,947
29	, ,	(8,146,324)		18,774,027	32,398,872	\$	17,617,440	\$12,346,038	\$5,271,402
30		(8,320,452)		18,924,220	32,658,063	\$	16,626,665	\$11,646,746	\$4,979,919
31	66,301,224	(8,498,302)		19,075,613	32,919,328	\$	15,691,386	\$10,986,833	\$4,704,553
32	66,831,634	(8,679,953)	\$ 58,151,681	19,228,218	33,182,683	\$	14,808,503	\$10,364,090	\$4,444,414
33	67,366,287	(8,865,487)		19,382,044	33,448,144	\$	13,975,091	\$9,776,432	\$4,198,659
34	, ,	(9,054,987)		19,537,100	33,715,729	\$	13,188,385	\$9,221,892	\$3,966,493
35	68,448,459	(9,248,537)	\$ 59,199,922	19,693,397	33,985,455	\$	12,445,777	\$8,698,612	\$3,747,165
					SUM	\$1	,222,750,539	\$ 818,013,292	\$ 404,737,247

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

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

Assumptions: Inflation Rate Discount Rate Book Life Pole Attach Revenue Increase

0.80 % 6.70 % 35 Yrs 2.1 %

			Undergrou	nd	System			
	<u>(A)</u>	<u>(B)</u>	<u>(C)</u>					
	<u>3-Yr Avg</u>	<u>3-Yr Avg</u>	Estimated		(A) (D) (C)		(4).(D)	
	<u>Annual</u> Operational	Annual Line Clearance	<u>Annual</u> Storm Cost		<u>(A)+(B)+(C)</u> PV Incl Storm	NE	( <u>A)+(B)</u> V Excl Storm	<u>(C)</u> NPV Storm
Yr	Cost (\$)	Cost (\$)	(\$)		(\$)		(\$)	Only (\$)
1	\$ 28,786,439	\$ -	\$ 1,080,000	\$	29,866,439	\$	28,786,439	\$1,080,000
2	29,016,730	-	1,088,640	\$	28,214,967	\$	27,194,686	\$1,020,281
3	29,248,864	-	1,097,349	\$	26,654,815	\$	25,690,950	\$963,864
4	29,482,855	-	1,106,128	\$	25,180,931	\$	24,270,363	\$910,567
5	29,718,718	-	1,114,977	\$	23,788,546	\$	22,928,328	\$860,217
6	29,956,468	-	1,123,897	\$	22,473,153	\$	21,660,501	\$812,651
7	30,196,119	-	1,132,888	\$	21,230,495	\$	20,462,779	\$767,716
8	30,437,688	-	1,141,951	\$	20,056,550	\$	19,331,285	\$725,265
9	30,681,190	-	1,151,087	\$	18,947,519	\$	18,262,358	\$685,161
10	30,926,639	-	1,160,295	\$	17,899,811	\$	17,252,537	\$647,275
11	31,174,052	-	1,169,578	\$	16,910,037	\$	16,298,554	\$611,484
12	31,423,445	-	1,178,934	\$	15,974,993	\$	15,397,322	\$577,672
13	31,674,832	-	1,188,366	\$	15,091,652	\$	14,545,923	\$545,729
14	31,928,231	-	1,197,873	\$	14,257,156	\$	13,741,603	\$515,553
15	32,183,657	681,042	1,207,456	\$	13,743,512	\$	13,256,467	\$487,045
16 17	32,441,126	686,490	1,217,115	\$	12,983,561	\$	12,523,447	\$460,114
17	32,700,655	691,982 697,518	1,226,852	\$ \$	12,265,632	\$ \$	11,830,961	\$434,672 \$410,627
10	32,962,260	703,098	1,236,667 1,246,560	φ \$	11,587,402 10,946,674	գ \$	11,176,765 10,558,743	\$410,637 \$287,020
19 20	33,225,959 33,491,766	703,098	1,256,533	э \$	10,341,375	э \$	9,974,895	\$387,930 \$366,480
20	33,759,700	708,723 714,392	1,266,585	գ \$	9,769,546	գ \$	9,423,331	\$346,215
21	34,029,778	720,107	1,276,718	φ \$	9,229,337	\$	8,902,266	\$327,071
22	34,302,016	725,868	1,286,932	φ \$	8,718,999	φ \$	8,410,013	\$308,986
23	34,576,432	731,675	1,297,227	\$	8,236,880	\$	7,944,980	\$291,900
25	34,853,044	737,529	1,307,605	\$	7,781,420	\$	7,505,660	\$275,759
26	35,131,868	743,429	1,318,066	\$	7,351,145	\$	7,090,633	\$260,511
27	35,412,923	749,376	1,328,610	\$	6,944,661	\$	6,698,555	\$246,106
28	35,696,226	755,371	1,339,239	\$	6,560,655	\$	6,328,157	\$232,498
29	35,981,796	761,414	1,349,953	\$	6,197,882	\$	5,978,240	\$219,642
30	36,269,651	767,506	1,360,753	\$	5,855,169	\$	5,647,672	\$207,497
31	36,559,808	773,646	1,371,639	\$	5,531,406	\$	5,335,383	\$196,023
32	36,852,286	779,835	1,382,612	\$	5,225,546	\$	5,040,362	\$185,184
33	37,147,105	786,074	1,393,673	\$	4,936,598	\$	4,761,654	\$174,944
34	37,444,281	792,362	1,404,822	\$	4,663,628	\$	4,498,357	\$165,271
35	37,743,836	798,701	1,416,061	\$	4,405,751	\$	4,249,619	\$156,132
			SUM	\$	469,823,841	\$	452,959,789	\$ 16,864,052

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

0.80 % 6.70 % 35 Yrs 2.1 %

Assumptions:

Assumptions.	
Inflation Rate	
Discount Rate	
Book Life	
Pole Attach Revenue Increase	

				Overhead S	System			
Yr	(A) <u>3-Yr Avg Annual</u> Operational Cost (\$)	(D) <u>3-Yr Avg</u> <u>Annual Pole</u> <u>Attachment</u> Revenue (\$)	(A)+(D) <u>3-Yr Avg</u> <u>Annual</u> <u>Operational</u> <u>Cost Incl Lost</u> <u>Attachment</u> Revenue(\$)	(B) <u>3-Yr Avg</u> <u>Annual Line</u> <u>Clearance</u> Cost (\$)	(C) <u>Estimated</u> <u>Annual Storm</u> Cost (\$)	(A)+(B)+(C)+ (D) NPV Incl Storm (\$)	<u>(A)+(B)+(D)</u> <u>NPV Excl Storm</u> (\$)	(C) <u>NPV Storm</u> Only (\$)
1					<u>5 -</u>		\$1,689,197	<u>01119 (\$)</u> \$0
	, , ,	\$-		<b>Ъ</b> -	Ŧ			
2		-	\$ 1,702,710	-	-	\$ 1,595,792	\$1,595,792	\$0
3	, ,	-	\$ 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	-	-	\$ 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
10	1,918,884	_	\$ 1,918,884	_	-	\$ 679,858	\$679,858	\$0 \$0
17	1,934,235	-	\$ 1,934,235	-	-	\$ 642,265	\$642,265	\$0 \$0
10		-		-	-			\$0 \$0
	1,949,709	-		-	-		\$606,751	
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	-	\$ 2,143,540	-	-	\$ 289,641	\$289,641	\$0 \$0
32	2,162,503	-	\$ 2,162,503 \$ 2,179,803	-	-	\$ 209,641 \$ 273,625	\$209,041 \$273,625	\$0 \$0
		-		-	-		, ,	
34	, ,	-	\$ 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 Discount Rate Book Life Pole Attach Revenue Increase

0.80 % 6.70 % 35 Yrs 2.1 %

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Underground System								
12111 <th< th=""><th></th><th><u>3-Yr Avg</u> Annual</th><th><u>3-Yr Avg</u> Annual Line</th><th>Estimated</th><th></th><th></th><th>NP</th><th></th><th><u>(C)</u> NPV Storm</th></th<>		<u>3-Yr Avg</u> Annual	<u>3-Yr Avg</u> Annual Line	Estimated			NP		<u>(C)</u> NPV Storm
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Yr	Cost (\$)	Cost (\$)	Cost (\$)		(\$)		(\$)	Only (\$)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1				\$		\$		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		. , ,	-	-					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-	-					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			-	-	\$				
	5		-	-	\$		\$		\$0
71,604,207\$1,087,111\$1,087,111\$081,617,041\$1,026,999\$1,026,999\$091,629,977\$970,211\$0101,643,017\$916,563\$916,563\$0111,656,161\$865,881\$865,881\$0121,669,410\$818,002\$818,002\$0131,682,765\$772,771\$772,771\$0141,696,228\$730,040\$0151,709,797\$689,672\$689,672\$689,672161,723,476\$615,510\$0171,737,264\$518,947\$00181,751,162\$518,947\$00201,779,292\$518,947\$00211,793,527\$490,252\$490,252\$00221,807,875\$437,354\$0241,836,917\$300,485\$00251,851,612\$300,485\$00261,866,425\$300,485\$00261,866,425\$300,485\$00261,866,425- <td>6</td> <td></td> <td>-</td> <td>-</td> <td>\$</td> <td></td> <td></td> <td></td> <td>\$0</td>	6		-	-	\$				\$0
81,617,041\$1,026,999\$1,026,999\$\$91,629,977\$970,211\$970,211\$\$101,643,017\$916,563\$916,563\$\$111,656,161\$865,881\$865,881\$\$121,669,410\$\$818,002\$\$\$\$131,682,765\$772,771\$772,771\$\$\$141,696,228\$\$730,040\$\$\$\$151,709,797\$\$689,672\$\$\$\$\$161,723,476\$\$615,510\$\$\$\$\$\$171,737,264\$<	7	1,604,207	-	-	\$	1,087,111		1,087,111	\$0
9 $1,629,977$ \$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$\$ $970,211$ \$ $970,211$ \$ $970,211$ \$ $970,211$ \$ $970,211$ \$ $970,211$ \$ $970,211$ \$ $970,217$ $772,771$ \$ $770,775$ \$ $772,771$ \$ $77$	8	1,617,041	-	-	\$	1,026,999	\$	1,026,999	\$0
11 $1,656,161$ \$ $865,881$ \$ $865,881$ \$012 $1,669,410$ \$ $818,002$ \$ $818,002$ \$013 $1,682,765$ \$ $772,771$ \$ $772,771$ \$014 $1,696,228$ \$ $730,040$ \$ $730,040$ \$015 $1,709,797$ \$ $689,672$ \$\$689,672\$016 $1,723,476$ \$ $615,510$ \$ $615,510$ \$018 $1,751,162$ \$ $581,475$ \$ $581,475$ \$019 $1,765,171$ \$ $549,322$ \$ $549,322$ \$020 $1,779,292$ \$ $549,322$ \$ $490,252$ \$021 $1,793,527$ \$ $437,534$ \$ $463,143$ \$023 $1,822,338$ \$ $437,534$ \$ $437,534$ \$024 $1,836,917$ \$ $390,485$ \$ $390,485$ \$025 $1,861,462$ \$ $348,495$ \$ $348,495$ \$026 $1,866,425$ \$ $329,225$ \$0\$027 $1,81,356$ \$ $348,495$ \$028 $1,896,407$ \$ $329,225$ \$029 $1,911,578$ \$ $329,225$ </td <td>9</td> <td>1,629,977</td> <td>-</td> <td>-</td> <td>\$</td> <td>970,211</td> <td>*</td> <td>970,211</td> <td>\$0</td>	9	1,629,977	-	-	\$	970,211	*	970,211	\$0
12 $1,669,410$ \$ $818,002$ \$ $818,002$ \$ $818,002$ \$ $$0$ 13 $1,682,765$ \$ $772,771$ \$ $772,771$ \$ $$0$ 14 $1,696,228$ \$ $689,672$ \$ $689,672$ \$ $698,672$ \$ $698,672$ \$ $60$ 16 $1,723,476$ \$ $651,537$ \$ $651,537$ \$ $60$ 17 $1,737,264$ \$ $516,510$ \$ $615,510$ \$ $615,510$ \$18 $1,751,162$ \$ $549,322$ \$ $549,322$ \$\$ $90,252$ \$20 $1,779,292$ \$ $518,947$ \$ $518,947$ \$\$ $90,252$ \$	10	1,643,017	-	-	\$	916,563		916,563	\$0
12 $1,669,410$ \$ $818,002$ \$ $818,002$ \$ $818,002$ \$ $$0$ 13 $1,682,765$ \$ $772,771$ \$ $772,771$ \$ $$0$ 14 $1,696,228$ \$ $689,672$ \$ $689,672$ \$ $698,672$ \$ $698,672$ \$ $60$ 16 $1,723,476$ \$ $651,537$ \$ $651,537$ \$ $60$ 17 $1,737,264$ \$ $516,510$ \$ $615,510$ \$ $615,510$ \$18 $1,751,162$ \$ $549,322$ \$ $549,322$ \$\$ $90,252$ \$20 $1,779,292$ \$ $518,947$ \$ $518,947$ \$\$ $90,252$ \$		1,656,161	-	-	\$	865,881		865,881	
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17 $1,737,264$ \$ $615,510$ \$ $615,510$ \$ $90$ $18$ $1,751,162$ \$ $581,475$ \$ $581,475$ \$ $581,475$ \$ $19$ $1,765,171$ \$ $549,322$ \$ $549,322$ \$ $549,322$ \$ $20$ $1,779,292$ \$ $518,947$ \$ $518,947$ \$ $518,947$ \$ $21$ $1,793,527$ \$ $490,252$ \$ $490,252$ \$ $90,252$ \$ $22$ $1,807,875$ \$ $463,143$ \$ $463,143$ \$ $00$ $23$ $1,822,338$ \$ $437,534$ \$ $437,534$ \$ $00$ $24$ $1,836,917$ \$ $390,485$ \$ $390,485$ \$ $00$ $25$ $1,851,612$ \$ $368,893$ \$ $368,893$ \$ $00$ $26$ $1,866,425$ \$ $368,893$ \$ $368,893$ \$ $00$ $27$ $1,881,356$ \$ $329,225$ \$ $329,225$ \$ $00$ $28$ $1,896,407$ \$ $329,225$ \$ $329,225$ \$ $00$ $30$ $1,926,871$ \$ $293,822$ \$ $293,822$ \$ $00$ $31$ $1,942,286$ \$ $262,227$ \$ $262,227$ \$ $00$			-	-	\$				
18 $1,751,162$ \$ $581,475$ \$ $581,475$ \$ $50$ 19 $1,765,171$ \$ $549,322$ \$ $549,322$ \$ $549,322$ \$20 $1,779,292$ \$ $518,947$ \$ $518,947$ \$ $50$ 21 $1,793,527$ \$ $490,252$ \$ $490,252$ \$ $90,252$ \$22 $1,807,875$ \$ $463,143$ \$ $463,143$ \$ $60$ 23 $1,822,338$ \$ $437,534$ \$ $437,534$ \$ $60$ 24 $1,836,917$ \$ $413,340$ \$ $60$ 25 $1,861,612$ \$ $390,485$ \$ $390,485$ \$26 $1,866,425$ \$ $368,893$ \$ $368,893$ \$27 $1,881,356$ \$ $329,225$ \$ $329,225$ \$28 $1,896,407$ \$ $329,225$ \$ $329,225$ \$29 $1,911,578$ \$ $293,822$ \$ $293,822$ \$ $203,822$ \$30 $1,926,871$ \$ $293,822$ \$ $293,822$ \$ $30$ 31 $1,942,286$ \$ $277,575$ \$ $277,575$ \$ $277,575$ \$ $311,020$ \$33 $1,973,487$ \$ $247,727$ <			-	-	\$				
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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 $24$ $1,836,917$ \$ $413,340$ \$0\$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 $29$ $1,911,578$ \$ $311,020$ \$0\$0 $30$ $1,926,871$ \$ $277,575$ \$ $277,575$ \$0 $31$ $1,942,286$ \$ $277,575$ \$ $277,575$ \$0 $31$ $1,942,286$ \$ $247,727$ \$ $247,727$ \$ $00$ $31$ $1,942,286$ \$ $247,727$ \$ $247,727$ \$ $00$ $31$ $1,942,286$ \$ $247,727$ \$ $247,727$ \$ $00$ $31$ $1,989,275$ \$ $234,029$ \$ $00$ $35$ $2,005,189$ \$ $221,088$ \$ $221,088$			-	-	\$				
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-	-	ን ድ				
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       \$0       \$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       \$0       \$0         33       1,973,487       -       -       \$247,727       \$247,727       \$0         34       1,989,275       -       -       \$234,029       \$24,029       \$0         35       2,005,189			-	-		,			
25       1,851,612       -       -       \$       390,485       \$       390,485       \$       \$         26       1,866,425       -       -       \$       368,893       \$       368,893       \$       \$         27       1,881,356       -       -       \$       348,495       \$       348,495       \$       \$         28       1,896,407       -       -       \$       329,225       \$       329,225       \$ <td></td> <td></td> <td>-</td> <td>-</td> <td>ф Ф</td> <td></td> <td></td> <td></td> <td></td>			-	-	ф Ф				
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       -       -       \$       262,227       \$0       \$0         32       1,957,824       -       -       \$       262,227       \$0       \$0         33       1,973,487       -       -       \$       247,727       \$0       \$0         34       1,989,275       -       -       \$       234,029       \$0       \$0         35       2,005,189       -       -       \$       221,088       \$       221,088       \$0		, ,	-	-	ф Ф	,		,	
27       1,881,356       -       -       \$       348,495       \$       348,495       \$       \$         28       1,896,407       -       -       \$       329,225       \$       329,225       \$       \$         29       1,911,578       -       -       \$       311,020       \$       311,020       \$       \$         30       1,926,871       -       -       \$       293,822       \$       293,822       \$       \$         31       1,942,286       -       -       \$       277,575       \$       277,575       \$       0         32       1,957,824       -       -       \$       262,227       \$       0       0         33       1,973,487       -       -       \$       247,727       \$       247,727       \$       0         34       1,989,275       -       -       \$       234,029       \$       0         35       2,005,189       -       -       \$       221,088       \$       221,088       \$			-	-	ф Ф				
28       1,896,407       -       -       \$       329,225       \$       329,225       \$0         29       1,911,578       -       -       \$       311,020       \$0       \$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       \$0       \$0         35       2,005,189       -       -       \$       221,088       \$0       \$0			-	-	ф Ф				
29       1,911,578       -       -       \$       311,020       \$       311,020       \$         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       \$			-	-	φ ¢	,		,	
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			-	-	Ψ R	,		,	
31       1,942,286       -       -       \$       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		, ,	-	-	Ψ \$	,		,	
32       1,957,824       -       -       \$       262,227       \$       0         33       1,973,487       -       -       \$       247,727       \$       247,727       \$         34       1,989,275       -       -       \$       234,029       \$       234,029       \$         35       2,005,189       -       -       \$       221,088       \$       221,088       \$			-	-	Ψ ¢				
33       1,973,487       -       -       \$       247,727       \$       247,727       \$         34       1,989,275       -       -       \$       234,029       \$       234,029       \$         35       2,005,189       -       -       \$       221,088       \$       221,088       \$			-	-	Ψ S				
34       1,989,275       -       -       \$       234,029       \$       234,029       \$         35       2,005,189       -       -       \$       221,088       \$       221,088       \$			-	-	Ψ S				
35 2,005,189 <u>\$ 221,088 \$ 221,088 \$0</u>			-	-					
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SUM \$ 23,880,057 \$ 23,880,057 \$ -	00	2,000,700		SUM					

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

	<u>Overhead</u>		
Primary Voltage System	Incl Storm	Excl Storm	Storm Only
NPV Life Cycle Cost	\$1,222,750,539	\$818,013,292	\$404,737,247
System Miles OH	6,246	6,246	6,246
NPV Life Cycle Cost / Mile	\$195,765.38	\$130,965.94	\$64,799.43
Services	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

	Underground			
Primary Voltage System	Incl Storm	Excl Storm	Storm Only	
NPV Life Cycle Cost	\$469,823,841	\$452,959,789	\$16,864,052	
System Miles OH	5,715	5,715	5,715	
NPV Life Cycle Cost / Mile	\$82,208.90	\$79,258.06	\$2,950.84	
Services	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	
Primary Voltage System NPV Life Cycle Cost / Mile	Differential Incl Storm -\$113,556.48	Excl Storm -\$51,707.88	Storm Only -\$61,848.59	
Services	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

Low Density Subdivision							
		Overhead					
	Number of Lots	Miles of Line	Incl Storm \$ / Lot	Excl Storm \$ / Lot	Storm Only \$ / Lot		
			• • • • •	•••••	•		
Primary Voltage System <sup>1</sup>	210	1.92	\$1,789.85	\$1,197.40	\$592.45		
Services	NA	NA	\$106.81	\$106.81	\$0.00		
Primary & Service			\$1,896.66	\$1,304.21	\$592.45		
		Underground					
Primary Voltage System <sup>1</sup>	210	2.99	\$1,170.50	\$1,128.48	\$42.01		
Services	NA	NA	\$83.87	\$83.87	\$0.00		
Primary & Service			\$1,254.37	\$1,212.35	\$42.01		
Primary & Service		Differential	-\$642.29	-\$91.86	-\$550.44		

	<u>High Densi</u> Number of Lots	ty Subdivision Overhead Miles of Line	Incl Storm \$ / Lot	Excl Storm \$ / Lot	Storm Only \$ / Lot
Primary Voltage System <sup>1</sup> Services Primary & Service	176 NA	1.17 NA	\$1,301.39 \$106.81 \$1,408.20	\$870.63 \$106.81 \$977.44	\$430.77 \$0.00 \$430.77
		Underground			
Primary Voltage System <sup>1</sup> Services Primary & Service	176 NA	1.07 NA	\$499.79 \$83.87 \$583.66	\$481.85 \$83.87 \$565.72	\$17.94 \$0.00 \$17.94
Primary & Service		Differential	-\$824.54	-\$411.72	-\$412.83

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

#### <u>Table IX</u> 2020 O&M - FORM 13

		2020 Actual \$	OH Ratio	UG Ratio	2020 Allocated Overhead \$	2020 Allocated Underground \$
Overhead - Blanket Account 0 D-CRR-Voltage-OH (NEW)		\$263,090	100.0%	0.0%	\$263,090	\$0
0 PRE - Dist Line - Fault Indicators		\$13,005		0.0%	\$13,005	\$0
51 Distr - Maint - Corrective - OH Line		\$10,246,537	100.0%	0.0%	\$10,246,537	\$0
49 Distribution - Maint - OH System Improvements			100.0%	0.0%	\$0	\$0
164 Distribution - Maint - Mgmt & Coordination 53 Distr - Maint - Preventative - OH Line		\$0 \$6,448,231	100.0% 100.0%	0.0% 0.0%	\$0 \$6,448,231	\$0 \$0
57 Distr - Maint - Trouble - OH Storm		\$687,761	100.0%	0.0%	\$687,761	\$0 \$0
59 Distr - Maint - Pole Inspect & Change-Outs			100.0%	0.0%	\$11,097,693	\$0
60 Distr - Maint - Damage Replacement - OH Line		\$2,655,044	100.0%	0.0%	\$2,655,044	\$0
61 Distr - Maint - Capacitors		\$298,534	100.0%	0.0%	\$298,534	\$0
65 Distr - Maint - Trouble - Non-Storm 67 Distr - Maint - Tree Trimming - Planned		\$0 \$0	0.0% 0.0%	0.0% 0.0%	\$0 \$0	\$0 \$0
162 Distr - Env - Train/Permit/Inspect/Audit/Protect		\$0 \$0	100.0%	0.0%	\$0 \$0	\$0 \$0
197 Distr - Maint - Tree Trimming - Unplanned		\$0	0.0%	0.0%	\$0	\$0
199 Distr - Maint - Pole Reinforcements		\$434,229	100.0%	0.0%	\$434,229	\$0
202 Distr - Maint - Pole CLAs & Change-Outs		\$67,705	100.0%	0.0%	\$67,705	\$0
NEW Distr - Maint - Infrared Thermography 204 Distr - Maint - Services - OH Line		\$0 \$966,573	100.0% 0.0%	0.0% 0.0%	\$0 \$0	\$0 \$0
	Subtotal		0.070	0.070	ψŪ	φü
Underground - Blanket Account 0 D-CRR-Voltage-UG		\$23,632	0.0%	100.0%	\$0	\$23,632
0 D-PRE-Transformers-UG		\$2,084,383	0.0%	100.0%	\$0 \$0	\$2,084,383
52 Distr - Maint - Corrective - UG Line		\$10,427,986	0.0%		\$0	\$10,427,986
50 Distribution - Maint - UG System Improvements		\$0	0.0%		\$0	\$0
164 Distribution - Maint - Mgmt & Coordination		\$0	0.0%	100.0%	\$0	\$0
54 Distr - Maint - Preventative - UG Line 55 Distr - Maint - Network Corrective		\$9,506,194 \$33,100	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$9,506,194
56 Distr - Maint - Network Preventative		\$25,243	0.0%	100.0%	\$0 \$0	\$33,100 \$25,243
0 Distr - Maint - Capacitors - UG		\$53,629	0.0%	100.0%	\$0	\$53,629
194 Distr - Maint - UG Cable Rplcmnt - Planned		\$2,906,062	0.0%	100.0%	\$0	\$2,906,062
195 Distr - Maint - Trouble - UG Storm		\$265,878	0.0%	100.0%	\$0	\$265,878
196 Distr - Maint - Damage Replacement - UG Line 201 Distr - Maint - UG Cable Rplcmnt - Unplanned		\$1,211,387 \$0	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$1,211,387 \$0
205 Distr - Maint - Services - UG Line		\$812,991	0.0%	0.0%	\$0 \$0	\$0 \$0
	Subtotal					
Overhead - O&M Account 0 D-CRR-Voltage-OH (NEW)		\$45 644	100.0%	0.0%	\$45.644	\$0
51 Distr - Maint - Corrective - OH Line		\$7,002,950		0.0%	\$7,002,950	\$0
49 Distribution - Maint - OH System Improvements			100.0%	0.0%	\$0	\$0
164 Distribution - Maint - Mgmt & Coordination			100.0%	0.0%	\$0	\$0
53 Distr - Maint - Preventative - OH Line 57 Distr - Maint - Trouble - OH Storm		\$124,407 \$593,755		0.0% 0.0%	\$124,407 \$593,755	\$0 \$0
59 Distr - Maint - Pole Inspect & Change-Outs		\$904,908	100.0%	0.0%	\$904,908	\$0 \$0
60 Distr - Maint - Damage Replacement - OH Line		\$184,081	100.0%	0.0%	\$184,081	\$0
61 Distr - Maint - Capacitors		\$29,990	100.0%	0.0%	\$29,990	\$0
65 Distr - Maint - Trouble - Non-Storm		\$2,814,800	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Storms - OH - Restoration 67 Distr - Maint - Tree Trimming - Planned		\$0 \$16,990,720	0.0% 0.0%	0.0% 0.0%	\$0 \$0	\$0 \$0
162 Distr - Env - Train/Permit/Inspect/Audit/Protect		\$26,923	100.0%	0.0%	\$26,923	\$0 \$0
197 Distr - Maint - Tree Trimming - Unplanned		\$2,026,699	0.0%	0.0%	\$0	\$0
199 Distr - Maint - Pole Reinforcements		\$0	100.0%	0.0%	\$0	\$0
202 Distr - Maint - Pole CLAs & Change-Outs		\$0	100.0%	0.0%	\$0	\$0
NEW Distr - Maint - Infrared Thermography 204 Distr - Maint - Services - OH Line		\$0 \$839,741	100.0% 0.0%	0.0% 0.0%	\$0 \$0	\$0 \$0
	Subtotal		0.070	0.070	ψŪ	ψũ
Underground - O&M Account		0.9	0.0%	100.0%	¢0,	0.2
0 D-PRE-Transformers-UG 52 Distr - Maint - Corrective - UG Line		\$0 \$1,710,255	0.0% 0.0%		\$0 \$0	\$0 \$1,710,255
50 Distribution - Maint - UG System Improvements		\$1,710,255	0.0%	100.0%	\$0 \$0	\$0
164 Distribution - Maint - Mgmt & Coordination		\$0	0.0%	100.0%	\$0	\$0
54 Distr - Maint - Preventative - UG Line		\$220,874	0.0%	100.0%	\$0	\$220,874
55 Distr - Maint - Network Corrective		\$5,573	0.0%	100.0%	\$0	\$5,573
56 Distr - Maint - Network Preventative 127 Distr - Locate Facilities		\$660,604 \$948,183	0.0%	100.0% 100.0%	\$0 \$0	\$660,604 \$948,183
194 Distr - Maint - UG Cable Rplcmnt - Planned		\$23,766	0.0%	100.0%	\$0 \$0	\$23,766
195 Distr - Maint - Trouble - UG Storm		\$19,316	0.0%	100.0%	\$0	\$19,316
196 D-CRR-Capacitors-UG		\$0	0.0%	100.0%	\$0	\$0
201 D-CRR-Storms-UG 205 Dietr Meint Demoge Replacement UC Line		\$0 \$174 701	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$0 \$174 701
205 Distr - Maint - Damage Replacement - UG Line 0 Distr - Maint - UG Cable Rplcmnt - Unplanned		\$174,701 \$0	0.0%	100.0%	\$0 \$0	\$174,701 \$0
0 Distr - Maint - Services - UG Line		\$712,258	0.0%	0.0%	\$0	\$0
	Subtotal	\$4,475,530		-	\$41,124,487	\$30,300,766
Distribution - Maint - Trouble Calls - Non-storm Blanket		\$0	77.7%	22.3%	\$0	\$0
O&M		\$2,814,800	77.7%	22.3%	\$2,187,100	\$627,700
Distr - Maint - Tree Trimming - Planned		00	06 40/	3.9%	<b>*</b> ^	<b>PC</b>
Blanket O&M		\$0 \$16,990,720	96.1% 96.1%	3.9%	\$0 \$16,328,489	\$0 \$662,231
Distr - Maint - Tree Trimming - Unplanned		\$10,000,120	00.170	0.070	\$10,0 <u>2</u> 0,100	\$002,201
Blanket O&M		\$0 \$2,026,699	96.1% 96.1%	3.9% 3.9%	\$0 \$1,947,706	\$0 \$78,993
		<i>42,020,033</i>	00.170	0.070	÷.,5+1,100	<i>¢10,000</i>
Distr - Maint - Services - OH Line Blanket		\$966 572	100.0%	0.0%	\$066 572	\$0
O&M		\$966,573 \$839,741	100.0%	0.0%	\$966,573 \$839,741	\$0 \$0
Distr - Maint - Services - UG Line Blanket		\$812,991	0.0%	100.0%	\$0	\$812,991
O&M		\$712,258		100.0%	\$0 \$0	\$712,258
		2020 08	M Cost -	Form 13	\$63,394,096	\$33,194,939

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

	<u>Toolkit</u>
	Distribution CIAC
Total Corporate Accounting FRINGE Rates per Activity A&G (for PSTEW)	72.62%
Other "Operating Labor" related adders:	
Non-Productive Time*	13.00%
Energy Delivery (Supervisory/Administrative)	15.18%
Energy Delivery Engineering	0.00%
Small Tools *	5.39%
TOTAL Other "Labor" related Adders	33.58%
TOTAL Fully Loaded "Labor" adders	106.20%
Fleet* as a % of Labor (rate of settled labor w/ fringe)	14.81%
Fleet* as a % of Labor (rate excluding 37% fringe)	20.29%
"Material" related adders:	
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%
TOTAL "Material" related Adders	12.22%
Other "Contractor" related adders:	
Energy Delivery (Supervisory/Administrative/Engineering)	20.06%
TOTAL Fully Loaded "Contractor" adders	20.06%

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