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April 1, 2020

VIA ELECTRONIC FILING

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

**Re: Gulf Power Company's Petition for Approval of 2020 Revisions to
Underground Residential Tariffs and for Approval of Initial Commercial
Differential Tariffs**

Dear Mr. Teitzman:

Enclosed please find Gulf Power Company's Petition for Approval of 2020 Revisions to Underground Residential Differential Tariffs and for Approval of Initial Commercial Differential Tariffs, along with the materials and documents identified in the Petition.

Please contact me at (561) 691-2512 if you or your Staff have any questions regarding this filing.

Sincerely,

/s/ Kenneth M. Rubin
Kenneth M. Rubin

Enclosure

cc: Russell Badders, Esq.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition for Approval of Underground Residential) Docket No.
and Commercial Differential Tariff Revisions)
_____) Filed: April 1, 2020

**GULF POWER COMPANY’S PETITION FOR APPROVAL OF 2020
REVISIONS TO UNDERGROUND
RESIDENTIAL TARIFFS AND FOR APPROVAL OF INITIAL COMMERCIAL
DIFFERENTIAL TARIFFS**

Gulf Power Company (“Gulf”), by and through its undersigned counsel, and pursuant to Rules 25-6.033 and 25-6.078(3), Florida Administrative Code (“F.A.C.”), hereby requests approval of Gulf’s revisions to its Underground Residential Differential (“URD”) tariff sheets, as set forth below. In addition, Gulf requests approval of Gulf’s initial Underground Commercial/Industrial Differential (“UCD”) tariff sheets as set forth below. In support of this Petition, Gulf states as follows:

(1) All pleadings, correspondence, staff recommendations, orders, or other documents filed, served or issued in this docket should be served on the following individuals on behalf of Gulf:

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Gulf's URD Tariffs

(2) Rule 25-6.078(3), F.A.C., requires each utility to file with the Commission, on or before October 15 of each year, Division of Economic Regulation Form PSC/ECR 13-E, Schedule 1. If the cost differential for underground service as calculated in Schedule 1 varies from the Commission-approved differential by plus or minus 10% or more, the utility must file a written policy and supporting data and analyses as prescribed in Sections (1), (4), and (5) of Rule 25-6.078, F.A.C., on or before April 1 of the following year. Additionally, Rule 25-6.078(3), F.A.C., requires each utility to file a written policy and supporting data and analyses at least once every 3 years regardless of whether the 10% threshold is met.

(3) On April 1, 2019, Gulf filed its Petition for Approval of 2019 Revisions to Gulf Power Company's Underground Residential Differential Tariffs, Docket No. 20190078-EI, together with revised URD tariff sheets, supporting data, analyses and cost justification ("Gulf's 2019 URD Tariffs"). Gulf's 2019 URD Tariffs were filed pursuant to Rule 25-6.078(3), F.A.C., as the cost differential for underground residential service reported on Gulf's October 15, 2018 Form PSC/ECO 13-E, Schedule 1, varied from the then-existing Commission-approved Gulf URD tariffs by the "plus or minus 10 percent or more" threshold contained in Rule 25-6.078(3), F.A.C. On October 23, 2019, the Commission approved Gulf's 2019 URD Tariffs in Order No. PSC-2019-0448-TRF-EI.

(4) On October 15, 2019, Gulf filed Form PSC/ECR 13-E, Schedule 1 with the Division of Economic Regulation. Gulf's 2019 Form PSC/ECR 13-E, Schedule 1 showed that the cost differential under the tariffs approved in Order No. PSC-2019-0448-TRF-EI for underground service as calculated in Schedule 1 had not varied from the Commission-approved differential by plus or minus 10% or more. However, on page 2 of its 2019 Form PSC/ECR 13-E, Gulf included the following note:

Note: This filing is based on the best information available to Gulf Power as of October 15, 2019. Gulf Power anticipates filing an amended Form PSC/ECR Form 13-E as soon as Hurricane Michael costs are finalized, the work order management system transition is complete for construction estimates, and the end of the year 2019 financial records are available. Although calculations are still in process, Gulf Power expects that the cost differential outlined in its amended filing will vary from the Commission-approved differential by at least 10 percent – reducing the differential. Therefore, Gulf Power expects to file with the Commission a written policy and supporting data and analysis as prescribed by Rule 25-6.078, Florida Administrative Code, on or before April 1, 2020.

(5) Based upon Gulf's analysis of the information reported to the Commission in its October 15, 2019 submission of Form PSC/ECR 13-E and included in the note quoted in paragraph 4 above, and with the additional information obtained from an analysis of Hurricane Michael data, Gulf has now determined that the cost differential for underground residential service varies from Gulf's 2019 URD Tariffs by the "plus or minus 10 percent or more" threshold contained in Rule 25-6.078(3), F.A.C. The impact of the variance is a reduction in the differential costs associated with the installation of overhead vs. underground service, thereby resulting in a reduction of the Contribution In Aid of Construction ("CIAC") for customers installing underground service or converting overhead to underground service.

(6) This filing includes the written policy and analyses prescribed by Rule 25-6.078(1), (4) and (5), F.A.C., that support Gulf’s petition for approval of its 2020 revisions to its applicable URD tariffs.

(7) Gulf’s revised URD tariffs are contained in Appendix URD 1 to this Petition. Appendix URD 1 includes the following revised Tariff sheets amending the charges found in Section 4 of Gulf’s Tariff Book, Rules and Regulations for Electric Service, in final and legislative formats:

4.2	4.26	4.27.2
4.2A	4.26.1	4.28
4.22	4.26.2	4.28.1
4.23	4.26.3	
4.24	4.27	
4.25	4.27.1	

(8) The revisions to the charges found in the above-specified URD tariff sheets are shown in Appendix URD 1, in final and legislative formats. Appendix URD 2 sets forth Gulf’s narrative support for the changes to its rules and regulations and standard forms in Gulf’s Rules and Regulations for Electric Service, as described above. Appendices URD 3 and 4 detail and support Gulf’s changes in its Estimated Average Cost Differential, which support the changes in Gulf’s tariffs identified above.

(9) The information set forth in Appendices URD 1, 2, 3 and 4, filed herewith and incorporated herein by reference, provide the information required by Rule 25-6.078, F.A.C., and the necessary support for the relief requested in this Petition.

Gulf’s UCD Tariffs

(10) Although not required by the Commission or the Florida Administrative Code, Gulf is also requesting Commission approval of initial UCD tariffs based upon the supporting data, analyses and cost justification attached hereto and made a part of this Petition.

(11) The Florida Administrative Code does not require electric utilities under the Commission’s jurisdiction to offer UCD tariffs, but neither are they prohibited. The Commission has previously approved UCD tariffs for Florida Power & Light Company, and Gulf now proposes to follow suit. Gulf respectfully submits that UCD tariffs serve the public interest by providing commercial and industrial customers the opportunity to recognize the cost differential between hardened and non-hardened facilities providing electric service when constructing a facility or when determining to undertake an overhead to underground conversion project.

(12) Gulf’s initial UCD tariffs are contained in Appendix UCD 1 to this Petition. Appendix UCD 1 includes the following UCD tariff sheets, in final and legislative formats, which, upon Commission approval, will be added to Gulf’s Tariff Book, Rules and Regulations for Electric Service:

- 4.28.2 4.28.4
- 4.28.3 4.28.5

Appendix UCD 2 sets forth Gulf’s reasons for the addition of the above-specified UCD tariff sheets. The data and analyses supporting Gulf’s UCD tariffs are set forth in Appendices UCD 3 and 4.

(13) Unlike the URD tariffs, Gulf's UCD tariffs are not governed by Rule 25-6.078, F.A.C., or any other rule which specifies that the UCD tariffs must reflect the impact of the Storm Hardening rule or the operational cost differential (including storm costs). Nonetheless, Gulf has incorporated the cost effects of hardening its overhead system into the calculation of its UCD charges. Gulf has concluded, however, that it is not only not required but it is not feasible to apply to the UCD tariffs the operational cost differential that Gulf developed for the URD tariffs. The UCD tariff charges are generally tailored to specific equipment and materials that are utilized to provide underground service to a single or limited number of commercial buildings in distinct and widely varying circumstances, unlike the URD tariff which is designed to apply to an entire residential subdivision. Gulf's cost accounting systems and processes are not specific enough to discern operational cost differential for these granular, "one off" types of construction activities. Because of these implementation obstacles and because there is no Commission requirement to do so, Gulf has not reflected adjustments for the effects of operational costs in the calculation of its UCD tariffs.

(14) The information set forth in Appendices UCD 1, 2, 3 and 4, filed herewith and incorporated by reference, provides the information necessary to support Gulf's UCD tariffs as requested in this Petition.

(15) Gulf requests the effective date for implementation of the revised URD and UCD tariffs presented with this Petition be thirty (30) days after the date of the Commission's vote approving the appended revised URD tariff sheets and initial UCD tariff sheets.

WHEREFORE, Gulf requests the Commission to approve the revised tariff sheets filed in Appendix URD 1, and the initial tariff sheets filed in Appendix UCD 1, effective thirty (30) days after the date of the Commission vote approving said revised tariff sheets.

Respectfully submitted,

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By: /s/ Kenneth M. Rubin
Kenneth M. Rubin
Fla. Bar No. 349038

APPENDIX URD 1

**LEGISLATIVE TARIFF
URD**



PAGE	EFFECTIVE DATE
2 of 4	March 29, 2019

(Continued from Index, Sheet No. 4.1)

- Part IV Billing and Metering Regulations
 - 4.1 Each Metering Point Billed as Separate Customer
 - 4.2 Two or More Premises Not to be Served Through One Meter
 - 4.3 Deleted
 - 4.4 No Charge for Required Metering Equipment
 - 4.4.1 Net Metering of Customer-Owned Renewable Generation
 - 4.5 Estimation of Bills Required by Meter Damage or Failure
 - 4.6 Meter Reading and Billing Intervals
 - 4.7 Power Factor Requirement
 - 4.8 Prorated Bills
 - 4.9 Requirements of Customer for Discontinuing Service
 - 4.10 Installation of Check Meters
 - 4.11 Refusal or Discontinuance of Service
 - 4.12 Investigation of Unauthorized Use
 - 4.13 Restoration of Service (After Violation of Rules)
 - 4.14 Testing of Meters and Resulting Adjustments
 - 4.14.1 Fast Meter
 - 4.14.2 Slow, Non-Registering, or Partially Registering Meter
 - 4.14.3 Creeping Meter
 - 4.14.4 Improper Metering Due to Electrical Contractor Error
 - 4.15 Returned Item Charge

- Part V Contract and Enforcement Regulations
 - 5.1 Cutoff Regulations
 - 5.2 Extension of Time for Payment of Bill
 - 5.3 Restoration Charge
 - 5.4 Premise Visit Charge
 - 5.5 Faulty Wiring on Customer's Premises
 - 5.6 Medically Essential Service

- Part VI Underground Distribution Facilities
 - 6.1 Definitions
 - 6.2 General
 - 6.2.1 Application
 - 6.2.2 Early Notification and Coordination
 - 6.2.3 Changes to Plans
 - 6.2.4 Underground Installations Not Covered
 - 6.2.5 Type of System Provided
 - ~~6.2.6~~ Design and Ownership of Underground Facilities
 - 6.2.7 Rights of Way and Easements
 - ~~6.2.8~~ Damage to Company's Equipment Contributions and Credits
 - ~~6.2.9~~ Payment of Charges Location of Distribution Facilities
 - ~~6.2.10~~ Special 6.2.10 Special Conditions
 - ~~6.2.11~~ Point of Delivery
 - ~~6.2.12~~ Location of Meter Socket & Service Entrance Facilities
 - ~~6.2.13~~ Relocation or Removal of Existing Facilities



Gulf Power®

Section No. IV

~~Tenth~~^{Ninth} Revised Sheet No. 4.2

Canceling ~~Ninth~~^{Eighth} Revised Sheet No. 4.2

PAGE
2 of 4

EFFECTIVE DATE
March 29, 2019

6.2.14 Development of Subdivisions

6.2.15 Service Lateral Conductor

6.2.16 -Damage to Company's Equipment

ISSUED BY: ~~Charles S. Boyett~~Tiffany Cohen

INDEX (Continued)

Part VI (Continued)

- 6.3 Underground Distribution Facilities for New Residential Subdivisions
 - 6.3.1 Availability
 - 6.3.2 Contribution by Applicant
 - 6.3.3 ~~Facilities to be Underground~~ Contribution Adjustments
 - ~~6.3.4 Point of Delivery~~
 - ~~6.3.5 Location of Meter and Socket & Service Entrance Facilities~~
 - ~~6.3.6 Development of Subdivisions~~
- 6.4 Underground Distribution to Multiple-Occupancy Residential Buildings
 - 6.4.1 ~~Availability~~ New Underground Service Laterals
 - 6.4.2 Contribution By Applicant
 - 6.4.3 ~~Meter Sockets and Service Entrance Facilities~~ Contribution Adjustments

~~6.5 Other Underground Distribution Facilities~~ Underground Service Laterals Replacing Existing Residential Overhead and

- ~~6.5.1 Applicability~~ Underground Services
- ~~6.5.2 Non-Binding Cost Estimates~~ Rearrangement of Service Entrance
- ~~6.5.3 Binding Cost Estimates~~ Trenching and Conduit Installation
- ~~6.5.4 Contribution by Applicant~~
- ~~6.5.4 Contribution by Applicant~~
- ~~6.5.5 Meter Sockets and Service Entrance Facilities~~
- ~~6.5.6 Underground Secondary Lateral Service in an Overhead Residential Area~~

~~6.6 Underground Distribution to Multiple-Occupancy Residential Buildings~~

- ~~6.6.1 Availability~~
- ~~6.6.2 Contribution by Applicant~~
- ~~6.6.3 Responsibility of Applicant~~
- ~~6.6.4 Responsibility of the Company~~
- ~~6.6.5 Service Voltages~~
- ~~6.6.6 Meter Sockets and Service Entrance Facilities~~

~~6.7 Installation of Underground Electric Distribution Facilities for New Construction~~

- ~~6.7.1 Definitions~~
- ~~6.7.2 Application~~
- ~~6.7.3 Contribution-In-Aid-of-Construction (CIAC)~~
- ~~6.7.4 Non-Refundable Deposits~~
- ~~6.7.5 Non-Binding Cost Estimates~~
- ~~6.7.6 Underground Distribution Facilities~~
- ~~6.7.7 Easements~~
- ~~6.7.8 Early Notification and Coordination~~
- ~~6.7.9 Changes to Plans, Layout or Grade~~
- ~~6.7.10 Location of Distribution Facilities~~
- ~~6.7.11 Other Terms and Conditions~~
- ~~6.7.12 Type of System Provided~~
- ~~6.7.13 Design and Ownership~~
- ~~6.7.14 Meter Sockets and Service~~

6.8 -Installation of Underground Electric Distribution Facilities For the Conversion of

-Overhead Electric Distribution Facilities

6.8.1 Definitions

6.8.2 Application

6.8.3 Contribution-In-Aid-of-Construction (CIAC)

6.8.4 Non-Refundable Deposits

6.8.5 Non-Binding Cost Estimates

INDEX (Continued)

Part VI (Continued)

6.8.6 Underground Facilities Conversion Agreement

6.8.7 Simultaneous Conversion of Other Pole Licensees

6.8.8 Easements

6.8.9 Affected Customer Services

6.8.10 Other Terms and Conditions

6.8.11 Type of System Provided

6.8.12 Design and Ownership

6.8.13 Relocation

Part VII Standards for Cogeneration and Small Power Production Facilities

7.0 General

7.0.1 Purpose

7.0.2 Responsibility

7.0.3 Requirements

7.0.4 Application for Interconnection

7.1 Personnel Safety

7.1.1 General

7.1.2 Discount Switch

7.1.3 Responsibility and Liability

7.1.4 Insurance

7.2 Protection and Operation

7.2.1 General

7.2.2 Loss of Source

7.2.3 Coordination and Synchronization

7.2.4 Electrical Characteristics

7.2.5 Exceptions

7.3 Quality of Service

7.3.1 General

7.3.2 Frequency

7.3.3 Voltage

7.3.4 Harmonics

7.3.5 Power Factor

7.3.6 DC Generators



PAGE	EFFECTIVE DATE
	March 29, 2019

**PART VI
UNDERGROUND DISTRIBUTION FACILITIES**

6.1 ~~DEFINITIONS~~ - The following words and terms, when used in these Rules, shall have the meaning indicated:

~~APPLICANT~~ - Any person, partnership, association, corporation, or governmental agency controlling or responsible for the development of a new subdivision or dwelling unit, commercial project or individual enterprise and applying for the construction of underground electric distribution facilities.

~~BACKBONE~~ - The distribution system, excluding feeder and that portion of the service lateral which is on the lot being served by that service lateral.

~~BUILDING~~ - Any structure, within a subdivision, designed for residential occupancy and containing less than five (5) individual dwelling units, excluding a townhouse unit.

~~CABLE IN CONDUIT SYSTEM~~ - Underground residential distribution systems where all underground primary, secondary, service, and street light conductors are installed in direct buried conduit. Other facilities associated with cable in conduit, such as transformers, may be above ground.

~~COMMISSION~~ - The Florida Public Service Commission.

~~COMPANY~~ - Gulf Power Company

~~DIRECT BURIAL~~ - A type of construction involving the placing of conductors in the ground without the benefit of conduit or ducts. Other facilities, such as transformers, may be above ground.

~~DISTRIBUTION FACILITIES~~ - Electric service facilities consisting of primary and secondary conductors, service laterals, transformers, and necessary accessories and appurtenances for the furnishing of electric power at utilization voltage.

~~DISTRIBUTION SYSTEM~~ - Electric service facilities consisting of primary and secondary conductors, service laterals, conduits, transformers, and necessary accessories and appurtenances for the furnishing of electric power at utilization voltage.

~~DWELLING UNIT~~ - A single unit providing complete, independent living facilities for one or more persons including permanent provisions for living, sleeping, eating, cooking, and sanitation.

~~FEEDER MAIN~~ - A three-phase primary installation, including switches, which serves as a source for primary laterals and loops through suitable overcurrent devices.

~~FINAL GRADE~~ - The ultimate elevation of the ground, paved or unpaved, which will prevail in a subdivision or tract of land.

~~FULL DUCT SYSTEM~~ - A type of construction involving the placing of conductors in conduit or duct. Other facilities, such as transformers, may be above ground.

~~HIGH DENSITY SUBDIVISION~~ - A subdivision having a density of six (6) or more dwelling units per acre.

~~LOW DENSITY SUBDIVISION~~ - A subdivision having a density of at least 1.5 dwelling units but less than six (6) dwelling units per acre.

~~MOBILE HOME (TRAILER)~~ - A non-self-propelled vehicle or conveyance, permanently equipped to travel upon the public highways, that is used either temporarily or permanently as a residence or living quarters. A vehicle or conveyance, permanently equipped to travel upon the public highways, that is used either temporarily or permanently as a residence or living quarters.

~~MULTIPLE-OCCUPANCY BUILDING~~ - A structure erected and framed of component structural parts and designed to contain five or more individual dwelling units.



PAGE	EFFECTIVE DATE
	March 29, 2019

OVERHEAD SYSTEM - Distribution system consisting of primary, secondary and service conductors and aerial transformers supported by poles.

POINT OF DELIVERY - ~~The point where the Company's wires or apparatus are connected to those of the Customer.~~

PRIMARY LATERAL - That part of the electric distribution system whose function is to conduct electricity at the primary level from the feeder main to the transformers. It usually consists of a single-phase conductor or insulated cable, with conduit, together with necessary accessory equipment for supporting, terminating and disconnecting from the primary mains by a fusible element.

PRIMARY CONDUCTORS - ~~Facilities which conduct electricity at the primary voltage level to the transformers serving the secondary or service lateral.~~

SECONDARY - ~~That part of the electric distribution facilities which conducts electricity from the transformers to the service lateral.~~

SERVICE LATERAL - ~~The underground conductors between the secondary conductors or transformers, and the point of delivery.~~

SERVICE LATERAL - The entire length of underground service conductors and conduit between the distribution source, including any risers at a pole or other structure or from transformers, from which only one point of service will result, and the first point of connection to the Service Entrance Conductors in a terminal or meter box outside the building wall.

SERVICE ENTRANCE CONDUCTORS - The Customer's conductors from point of connection at the service drop or service lateral to the service equipment.

SUBDIVISION - The tract of land which is divided into five (5) or more building lots or upon which five or more separate dwelling units are to be located, or the land on which is to be constructed new multiple-occupancy buildings.

TRENCH MILE - The length of trench in miles required for underground primary cables.

TOWNHOUSE - A one-family dwelling unit of a group such that units are separated only by fire walls. Each townhouse unit shall be constructed upon a separate lot and serviced with separate utilities and shall otherwise be independent of one another.

6.2 GENERAL

6.2.1 Application

Underground electric distribution facilities may be offered in lieu of overhead facilities in accordance with these Rules and Regulations.

- (a) New Residential Subdivisions (SECTION 6.3)
- (b) New Service Laterals from Overhead Systems (SECTION 6.4)
- (c) Replacement of Existing Overhead and Underground Service Laterals (SECTION 6.5)
- (d) New Multiple-Occupancy Buildings (SECTION 6.4~~6~~)
- (e) ~~Other Underground Distribution Facilities (SECTION 6.5)~~ Installation of Underground Electric Distribution Facilities for New Construction (SECTION 6.7)
- (f) Installation of Underground Electric Distribution Facilities for Conversion of Overhead Electric Distribution Facilities (SECTION 6.8)
- (g) Installation of Underground Electric Distribution Facilities to Small Commercial/Industrial Customers (SECTION 6.9)

6.2.2 Early Notification and Coordination

In order for the Company to provide service when required, it is necessary that the Applicant notify the Company during the early stages of planning major projects. It is the Applicant's responsibility to insure that close cooperation is maintained with



Section No. IV
~~Seventh~~^{Eighth} Revised Sheet No. 4.24
Canceling ~~Seventh~~^{Sixth} Revised Sheet No. 4.24

PAGE	EFFECTIVE DATE
	March 29, 2019

the Company throughout the planning and construction stages by the architect, the builder, and the consulting engineers to avoid delays and additional expense. Particular attention must be given to the scheduling of the construction of paved areas and the various subgrade installations of the several utilities. Failure of the Applicant to provide such notification and coordination shall result in the Applicant paying any additional costs incurred by the Company.

Any Applicant seeking the installation of underground distribution facilities pursuant to a written request hereunder shall execute the Agreement for Underground Construction Standards ~~set forth in Section VII of this tariff, under Standard Contract Forms, at Sheet no. 7.25.~~ Failure to execute said agreement within 180 days after the delivery by Gulf Power Company of a binding cost estimate shall result in forfeiture of the deposit made. Any subsequent request for underground facilities will require the payment of a new deposit and the presentation of a new binding cost estimate. For good cause Gulf may extend the 180-day time limit. Upon execution of the Agreement for Underground Construction Standards, payment in full of the differential cost specified in the binding cost estimate, and compliance with the requirements of this tariff, Gulf shall proceed to install the facilities identified in a timely manner.

As a condition precedent to the conversion of any overhead distribution facilities, the Company may require that the Applicant obtain executed agreements with all affected pole licensees (e.g. telephone, cable TV, etc.) for the simultaneous conversion of those pole licensees' facilities and provide Gulf with a copy of the Agreement(s). Such agreements shall specifically acknowledge that the affected pole licensee will coordinate the conversion with Gulf and other licensees in a timely manner so as to not create unnecessary delays. Failure to present to Gulf Power Company executed copies of any necessary agreements with affected pole licensees within 180 days after delivery of the binding cost agreement to the Applicant shall result in forfeiture of the deposit paid for the binding cost estimate, the return of any differential cost paid for the binding cost estimate, the return of any differential cost paid less any actual cost incurred, and the termination of any Agreement For Underground Construction Standards entered into between the Applicant and Gulf Power Company.

6.2.3 Changes to Plans

The Applicant shall pay for all additional costs ~~incurred by imposed on~~ the Company by the Applicant including, but not limited to, engineering design, administration and relocation expenses, due to changes made subsequent to the agreement by the Applicant in the subdivision layout or final grade. ~~after original agreed upon design has been completed by the Company.~~

6.2.4 Underground Installations Not Covered

Where the Applicant requests or government ordinance mandates underground electric facilities including, but not limited to, three phase primary feeder mains, transformers, pedestal mounted terminals, switching equipment, meter cabinets, service laterals, or other electrical facilities not specifically covered by these Rules and Regulations, or in areas where the terrain, loads, and/or equipment are not typical, and where overhead facilities would otherwise normally be provided, the Applicant ~~and the Company may enter into an agreement outlining the terms and conditions of the installation prior to such installation.~~ Shall pay the Company the differential installed cost between the underground facilities and the equivalent overhead facilities as calculated by the Company. The Applicant shall also provide the necessary rights of way and easements as given in Section 6.2.7.

6.2.5 Type of System Provided

The costs quoted in these rules are for underground residential distribution service laterals, secondary and primary conductors of standard Company design with cable in conduit facilities ~~are of standard Company design, generally with all cable in duct or conduit~~ and above-grade appurtenances. Unless otherwise stated, service provided will be 120/240 volt, single phase. If other types of facilities other than standard Company design are requested by the Applicant or required by governmental authority, the Applicant ~~or governmental authority~~ will pay the additional costs, as calculated by the Company, if any. All service laterals and secondary and single phase primary conductors shall be underground. Appurtenances such as transformers, pedestal-mounted terminals, switching equipment, and meter cabinets may be placed above ground. Feeder mains required within a subdivision may be overhead if the Applicant and the Company determine that the additional cost of underground is not justified for that particular location, unless otherwise required by governmental authority, in which case the differential cost will be borne by the Applicant or governmental authority.



PAGE	EFFECTIVE DATE
	March 29, 2019

6.2.6 Design and Ownership ~~OF UNDERGROUND FACILITIES~~

The Company will design, install, own, and maintain the electric distribution facilities up to the designated point of delivery for residential and commercial services up to and including 400A, except as otherwise ~~stated~~ noted. Any payment made by the Applicant under the provisions of these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service. ~~The Applicant may, subject to a contractual agreement with the Company, construct and install a portion of the underground distribution facilities provided:~~

- ~~(a) such work meets the Company's construction standards;~~
- ~~(b) the Company will own and maintain the completed distribution facilities;~~
- ~~(c) such agreement is not expected to cause the general body of ratepayers to incur greater costs;~~
- ~~(d) the Applicant agrees to pay Gulf Power Company's current applicable Engineering and Supervision rate associated with the estimate of work to be performed by the Applicant. This amount represents the cost of Gulf's engineering time to review and inspect the Applicant's work.~~
- ~~(e) the Applicant agrees to rectify any deficiencies found by Gulf Power Company prior to the connection of any customers to the underground electric distribution system or the connection of the underground electric distribution facilities to Gulf Power Company's distribution system. Furthermore, the deficiencies must be corrected in a timely manner or Gulf shall construct the system improvement using overhead facilities and the Applicant will have to pay the cost of such improvement and the cost of its removal before the corrected underground facilities will be connected.~~

6.2.7 Rights of Way and Easements

The Company shall construct, own, operate, and maintain distribution facilities only along easements, public streets, roads, and highways which the Company has legal right to occupy. The Applicant shall record and furnish satisfactory rights of way and easements, including legal descriptions or such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to the Company prior to the Company initiating construction.

Before the Company will start construction, these rights of way and easements must be cleared by the Applicant of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners, survey control points, and at transformer locations, graded to within six (6) inches of final grade, with soil stabilized, at no cost to the Company. In addition, the Applicant shall provide stakes showing final grade along the easement. Such clearing and grading must be maintained by the Applicant during construction by the utility. Should paving, grass, landscaping, or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching, backfilling, and restoring the paving, grass, landscaping, and sprinkler systems to their original condition.

- ~~(a) General Requirements. The Company shall construct, own, operate, and maintain distribution facilities only along easements, public streets, roads, and highways which the Company has the legal right to occupy, and on public lands and private property across which rights of way and easements satisfactory to the Company may be obtained without condemnation or cost to the Company.~~
- ~~(b) Scheduling, Clearing, and Grading. Rights of way and easements suitable to the Company must be furnished by the Applicant in reasonable time to meet service requirements, and must be cleared of trees, tree stumps, paving and other obstructions, staked to show property lines and final grade, and must be graded to within six (6) inches of final grade by the Applicant before the Company will commence construction, all at no charge to the Company. Such clearing and grading must be maintained by the Applicant during construction by the Company. Grade stakes must be provided at transformer locations. Should paving, grass, landscaping, or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching, backfilling, and restoring the paving, grass, landscaping, and sprinkler systems to their original condition.~~



PAGE	EFFECTIVE DATE
	March 29, 2019

6.2.8 Contributions and Credits

The Applicant shall pay the required contribution upon receipt of written notification from the Company. No utility construction shall commence prior to completion of a written agreement and payment in full of the entire contribution. Where, by mutual agreement, the Applicant performs any of the work normally performed by the Company, the Applicant shall receive a credit for such work in accordance with the credit amounts contained herein, provided that

- a) The work is in accordance with Company specifications.
- b) The credits shall not exceed the total differential costs.
- c) The Applicant agrees to pay the Company costs associated with estimating the work to be performed by the Applicant, representing the cost of time to review and inspect the Applicant's work.
- d) The credit will be granted after the work has been inspected by the Company and, in the case of Applicant-installed conduit, after the applicable conductors have been installed.
- e) The Company will assume ownership and maintain the completed distribution facilities, once they are determined to meet Company specifications and/or installation of cable in Applicant-installed conduit.
- f) The Applicant agrees to rectify any deficiencies found by the Company prior to the connection of any customers to the underground electric distribution system or the connection of the underground electric distribution facilities to the Company's distribution system. Furthermore, the deficiencies must be corrected in a timely manner or the Company shall construct the system improvement using overhead facilities and the Applicant will have to pay the cost of such improvement and the cost of its removal before the corrected underground facilities will be connected.

Before commencing any work on the Company's behalf, the Applicant should submit Form 9a – Agreement for Underground Construction Standards under Standard Contract forms to the Company.

~~6.2.9 PAYMENT OF CHARGES. The Company shall not be obligated to install any facilities until payment of applicable charges, if any, has been completed.~~

6.2.9 Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. The Applicant shall provide accessible locations for meters when the design of a dwelling unit or its appurtenances limits perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

6.2.10 Special Conditions

The costs quoted in these rules are based on conditions which permit employment of rapid construction techniques. The Applicant shall be responsible for necessary additional hand digging expenses other than what is normally provided by the Company. The Applicant is responsible for clearing, compacting, boulder and large rock removal, stump removal, paving, and addressing other special conditions. Should paving, grass, landscaping or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching and backfilling and be responsible for restoration of property damaged to accommodate the installation of underground facilities.

6.2.11 Point of Delivery

The point of delivery to the building shall be determined by the Company and normally will be at the point of the building nearest the point at which the underground secondary system is available to the property to be served. If the point of delivery on any building is more than fifty (50) feet in length from the available secondary system (seventy [70] feet for low density subdivisions), then the Applicant may be required to make additional payment for the excess length. When a location for a point of delivery different from that designated by the Company is requested by the Applicant, and approved by the Company, the Applicant shall pay the estimated full cost of service lateral length, including labor and materials, required in excess of that which would have been needed to reach the Company's designated point of service. The additional cost per trench foot is \$13.29. Where an existing trench with existing conduit is utilized, the additional cost per trench foot is \$6.24. Where the Applicant provides the trenching, installs Company provided conduit according to Company specifications and backfilling, the cost per additional trench foot is \$6.24. Any re-designation requested by the Applicant shall conform to good safety and construction practices as determined by the Company. Service laterals shall be installed, where possible, in a direct line to the point of delivery.



PAGE	EFFECTIVE DATE March 29, 2019
------	---

6.2.12 Location of Meter Socket & Service Entrance Facilities
 The Applicant shall install a meter socket enclosure and suitable service entrance facilities and downpipe to accommodate the Company's service lateral conductors at the point designated by the Company in accordance with the Company's specifications. These facilities will be installed in accordance with the Company's specifications and all applicable codes. Service conductors shall be installed, where possible, in a direct line to the point of delivery.

6.2.13 Relocation or Removal of Existing Facilities
 If the Company is required to relocate or remove existing facilities in the implementation of these Rules, all costs thereof shall be borne exclusively by the Applicant, as follows:

- a) For removal of existing facilities, these costs will include the costs of removal, the in-place value (less salvage) of the facilities so removed and any additional costs due to existing landscaping, pavement or unusual conditions.
- b) For relocation of existing facilities, these costs will include the costs of relocation of reusable equipment, costs of removal of equipment that cannot be reused, costs of installation of new equipment, and any additional costs due to existing landscaping, pavement or unusual conditions.

6.2.14 Development of Subdivisions
 The above charges are based on reasonably full and timely use of the land being developed. Where the Company is required to construct underground electric facilities through a section or sections of the subdivision or development where, in the opinion of the Company, service will not be required for at least two years, the Company may require a deposit from the Applicant before construction is commenced. This deposit, to guarantee performance, will be based on the estimated total cost of such facilities rather than the differential cost. The amount of the deposit, without interest, in excess of any charges for underground service will be returned to the applicant on a pro-rata basis at quarterly intervals on the basis of installations to new customers. Any portion of such deposit remaining unrefunded, after five years from the date the Company is first ready to render service from the extension, will be retained by the Company.

6.2.15 Service Lateral Conductor
 All residential Tariff charges are based on a single service conductor installed in a single 2" conduit, limited to a maximum size of 4/0 triplex. All parallel services, or any single services requiring service conductor larger than 4/0 triplex, require additional charges determined by specific cost estimate.

~~6.2.16~~ Damage to Company's Equipment
 The Applicant shall be responsible to ensure that the Company's distribution facilities once installed, are not damaged, destroyed, or otherwise disturbed during the construction of the project. This responsibility shall extend not only to those in his employ, but also to his subcontractors. Should damage occur, the Applicant shall be responsible for the full cost of repairs.

6.3 UNDERGROUND DISTRIBUTION FACILITIES FOR NEW RESIDENTIAL SUBDIVISIONS

6.3.1 Availability
 After receipt of proper application and compliance by the Applicant with applicable Company rules and procedures, the Company will install underground distribution facilities to provide single phase service to new residential subdivisions of five (5) or more building lots.

6.3.2 Contribution by Applicant
 (a) ~~Prior to such installations, the Applicant and the Company will enter into an agreement outlining the terms and conditions of installation, and the Applicant will be required to pay the Company in advance the entire cost as described below:~~

<u>Option</u>	<u>Low Density Subdivision (\$ per lot)</u>	<u>High Density Subdivision (\$ per lot)</u>
1. Gulf supplies and installs all primary, secondary, and service trench, duct, and cable.	\$498	\$562



Section No. IV
~~Ninth~~^{Eighth} Revised Sheet No. 4.26.2
 Canceling ~~Seventh~~^{Eighth} Revised Sheet No.

PAGE	EFFECTIVE DATE
	March 29, 2019

~~2. Applicant installs primary and secondary trench and duct system. Gulf supplies primary and secondary duct and supplies and installs service duct. Gulf supplies and installs primary, secondary, and service cable. \$307 \$428~~

~~3. Applicant supplies and installs primary and secondary trench and duct. Gulf supplies primary and secondary cable. Gulf supplies and installs service duct and cable. \$181 \$327~~

~~All construction done by the Applicant must meet the Company's specifications. All installations must be approved by the Company's authorized representative.~~

~~a) The Applicant shall pay the Company the average differential cost for single phase residential underground distribution service based on the number of service laterals required or the number of dwelling units, as follows:~~

Applicant's
Contribution

Where density is 6.0 or more dwelling units per acre:

Buildings that do not exceed four units, townhouses, and mobile homes – per service lateral. \$ 0.00

Where density is 0.5 or greater, but less than 6.0 dwelling units per acre:

Buildings that do not exceed four units, townhouses, and mobile homes – per service lateral \$ 0.00

Where the density is less than 0.5 dwelling units per acre, or the Distribution System is of non-standard design, individual cost estimates will be used to determine the differential cost as specified in Paragraph 6.2.5.

Additional charges specified in Paragraphs 6.2.10 and 6.2.11 may also apply.

~~b) The above costs are based upon arrangements that will permit serving the local underground distribution system within the subdivision from overhead feeder mains. If feeder mains within the subdivision are deemed necessary by the Company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the Company the average differential cost betwsuch underground feeder mains within the subdivision and equivalent overhead feeder mains, as determined by the Company in accordance with Paragraph 6.2.5.~~

~~c) Where primary laterals are needed to cross open areas such as golf courses, parks, other recreation areas and water retention areas, the Applicant shall pay the average differential costs for these facilities as follows:~~

Cost per foot of primary lateral trench within the subdivision

<u>1) Single Phase - per foot</u>	<u>\$2.15</u>
<u>2) Two Phase - per foot</u>	<u>\$3.00</u>
<u>3) Three Phase - per foot</u>	<u>\$4.65</u>

~~d) For requests for service where underground facilities to the lot line are existing and a differential charge was previously paid for these facilities, the cost to install an underground service lateral to the meter is as follows:~~



PAGE	EFFECTIVE DATE March 29, 2019
------	---

Density less than 6.0 dwelling units per acre: \$666.57

Density 6.0 or greater dwelling units per acre: \$647.09

6.3.3 Contribution Adjustments

a) Credits will be allowed to the Applicant's contribution in Section 6.3.2. where, by mutual agreement, the Applicant provides all trenching and backfilling for the Company's distribution system, excluding feeder, and installs Company-provided conduit:

	<u>Credit to Applicant's Contribution</u>	
	<u>Backbone</u>	<u>Service</u>
1. <u>Where density is 6.0 or more dwelling units per acre:</u>		
<u>Buildings not exceeding four units, townhouses, and mobile homes - per service lateral.</u>	\$166.66	\$240.90

2. <u>Where density is 0.5 or greater, but less than 6.0 dwelling units per acre:</u>		
<u>Buildings not exceeding four units, townhouses, and mobile homes, per service lateral</u>	\$303.99	\$337.25

b) Credits will be allowed to the Applicant's contribution in Section 6.3.2. where, by mutual agreement, the Applicant purchases Company-specified conduit excluding feeder. This credit is:

1. <u>Where density is 6.0 or more dwelling units per acre:</u>		
<u>Buildings not exceeding four units, townhouses, and mobile homes - per service lateral.</u>	\$29.53	\$15.26
2. <u>Where density is 0.5 or greater, but less than 6.0 dwelling units per acre - per service lateral.</u>	\$69.39	\$37.89

Credits will be allowed to the Applicant's contribution in Section 6.3.2, where, by mutual agreement, the Applicant in accordance with Company instructions:

c) <u>provides a portion of trenching and backfilling for the Company's facilities (per foot of trench), plus:</u>		
1. <u>installs a portion of Company-provided PVC conduit (per foot of conduit) for 2" PVC:</u>	\$4.82	
2. <u>for larger than 2" PVC:</u>		\$7.05
d) <u>purchases a portion of Company-specified PVC conduit (per foot of conduit) for 2" PVC:</u>	\$0.45	
<u>for larger than 2" PVC:</u>		\$1.20
e) <u>installs a Company-provided primary splice box (per box):</u>		\$75.61
f) <u>installs a Company-provided concrete pad for a pad-mounted transformer, (per pad):</u>		\$306.33



PAGE	EFFECTIVE DATE March 29, 2019
------	---

**THREE PHASE LIFT STATION
 COSTS TO PROVIDE 3 PH SVC TO LIFT STATION W/IN TYPICAL SUBDIVISION - OPTION 1**

CUSTOMER REQUEST: 120/208 or 277/480

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
<5HP - - - -	\$25.87 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$17.77 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP - - - -	\$11.58 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$12.86 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
>25HP - - - - -	\$6.67 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$3.47 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service

CUSTOMER REQUEST: 120/240 OPEN DELTA

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
<5HP - - - -	\$13.01 per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP - - - - -	\$3.20 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
>25HP - - - - -	\$3.20 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service



PAGE	EFFECTIVE DATE
	March 29, 2019

AVAILABLE UNDERGROUND FACILITIES			
MOTOR SIZE	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP	\$25.03 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$17.32 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP	\$10.74 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$12.41 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP	\$5.83 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$3.02 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service

CUSTOMER REQUEST: 120/240 OPEN DELTA

AVAILABLE UNDERGROUND FACILITIES			
MOTOR SIZE	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP	\$12.62 per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP	\$2.81 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP	\$2.81 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service



PAGE	EFFECTIVE DATE March 29, 2019
------	---

**THREE PHASE LIFT STATION
 COSTS TO PROVIDE 3 PH SVC TO LIFT STATION W/IN TYPICAL SUBDIVISION -- OPTION 3**

CUSTOMER REQUEST: 120/208 or 277/480

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP - - - -	\$21.94 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$15.77 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP - - - -	\$7.65 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$10.86 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP - - - -	\$2.74 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$1.47 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service

CUSTOMER REQUEST: 120/240 OPEN DELTA

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP - - - -	\$11.08 per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP - - - -	\$1.27 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP - - - -	\$1.27 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service



PAGE	EFFECTIVE DATE March 29, 2019
------	---

- ~~6.3.3 FACILITIES TO BE UNDERGROUND. All service laterals and secondary and single phase primary conductors shall be underground. Appurtenances such as transformers, pedestal mounted terminals, switching equipment, and meter cabinets may be placed above ground. Feeder mains required within a subdivision may be overhead if the Applicant and the Company determine that the additional cost of underground is not justified for that particular location, unless otherwise required by governmental authority, in which case the differential cost will be borne by the Applicant or governmental authority.~~
- ~~6.3.4 POINT OF DELIVERY. The point of delivery to the building shall be determined by the Company and normally will be at the point of the building nearest the point at which the underground secondary system is available to the property to be served. If the point of delivery on any building is more than fifty (50) feet in length from the available secondary system (seventy [70] feet for low density subdivisions), then the Applicant may be required to make additional payment for the excess length.~~
- ~~6.3.5 LOCATION OF METER AND SOCKET & SERVICE ENTRANCE FACILITIES. The Applicant shall install a meter socket and suitable service entrance facilities at the point designated by the Company in accordance with the Company's specifications. Service conductors shall be installed, where possible, in a direct line to the point of delivery.~~
- ~~6.3.6 DEVELOPMENT OF SUBDIVISIONS. The above charges are based on reasonably full and timely use of the land being developed. Where the Company is required to construct underground electric facilities through a section or sections of the subdivision or development where, in the opinion of the Company, service will not be required for at least two years, the Company may require a deposit from the Applicant before construction is commenced. This deposit, to guarantee performance, will be based on the estimated total cost of such facilities rather than the differential cost. The amount of the deposit, without interest, in excess of any charges for underground service will be returned to the applicant on a pro-rata basis at quarterly intervals on the basis of installations to new customers. Any portion of such deposit remaining unrefunded, after five years from the date the Company is first ready to render service from the extension, will be retained by the Company.~~

6.4 UNDERGROUND SERVICE LATERALS FROM OVERHEAD ELECTRIC DISTRIBUTION SYSTEMS

- 6.4.1 New Underground Service Laterals
 When requested by the Applicant, the Company will install underground service laterals from overhead systems to newly constructed residential buildings containing less than five separate dwelling units.
- 6.4.2 Contribution by Applicant
 The Applicant shall pay the Company the following differential cost between an overhead service and an underground service lateral, as follows, for buildings that do not exceed four units, townhouses, and mobile homes:

	Applicant's Contribution
a) <u>per service lateral (includes service riser installation)</u>	\$717.70

Additional charges specified in Paragraphs 6.2.10 and 6.2.11 may also apply. Underground service or secondary extensions beyond the boundaries of the property being served will be subject to additional differential costs as determined by individual cost estimates.

- 6.4.3 Contribution Adjustments
Credit will be allowed to the Applicant's contribution in Section 6.4.2 where, by mutual agreement, the Applicant provides trenching and backfilling for the Company's facilities or the Applicant installs Company-provided conduit per Company specifications. For buildings that do not exceed four units, townhouses, and mobile homes, this credit is:



PAGE	EFFECTIVE DATE
	March 29, 2019

		Credit To Applicant's Contribution
<u>Trenching and backfilling, plus</u>		
Installing conduit (2" PVC)	- per foot	\$4.82
Installing conduit (Larger than 2" PVC)	- per foot	\$7.20
Purchasing conduit (2" PVC)	- per foot	\$0.45
Purchasing conduit (Larger than 2" PVC)	- per foot	\$1.20

6.5 UNDERGROUND SERVICE LATERALS REPLACING EXISTING RESIDENTIAL OVERHEAD AND UNDERGROUND SERVICES

6.5.1 Applicability
 When requested by the Applicant, the Company will install underground service laterals from existing systems as replacements for existing overhead and underground services to existing residential buildings containing less than five individual dwelling units.

6.5.2 Rearrangement of Service Entrance
 The Applicant shall be responsible for any necessary rearranging of his existing electric service entrance facilities to accommodate the proposed underground service lateral in accordance with the Company's specifications.

6.5.3 Trenching and Conduit Installation
 The Applicant shall also provide, at no cost to the Company, a suitable trench, perform the backfilling and any landscape, pavement or other similar repairs and install Company provided conduit according to Company specifications. When requested by the Applicant and approved by the Company, the Company may supply the trench and conduit and the Applicant shall pay for this work based on a specific cost estimate. Should paving, grass, landscaping or sprinkler systems need repair or replacement during construction, the Applicant shall be responsible for restoring the paving, grass, landscaping or sprinkler systems to the original condition.

6.5.4 Contribution by Applicant

a) <u>The charge per service lateral replacing an existing Company-owned overhead service for any density shall be:</u>	<u>Applicant's Contribution</u>
1. <u>Where the Company provides an underground service lateral</u>	<u>\$717.70</u>
b) <u>The charge per service lateral replacing an existing Company-owned underground service for any density shall be:</u>	
1. <u>Where the service is from an overhead system:</u>	<u>\$811.96</u>
2. <u>Where the service is from an underground system:</u>	<u>\$1,021.14</u>
c) <u>The charge per service lateral replacing an existing Customer-owned underground service lateral from an overhead system for any density shall be:</u>	<u>\$301.06</u>
d) <u>The charge per service lateral replacing an existing Customer-owned underground service lateral from an underground system for any density shall be:</u>	<u>\$136.69</u>



PAGE	EFFECTIVE DATE
	March 29, 2019

The above charges include conversion of the service lateral from the last Company pole to the meter location. Removal of any other facilities such as poles, down guys, spans of secondary, etc. will be charged based on specific cost estimates for the requested additional work.

6.66.4 UNDERGROUND DISTRIBUTION TO MULTIPLE-OCCUPANCY RESIDENTIAL BUILDINGS

- 6.6.1 Availability
After receipt of proper application and compliance by the Applicant with applicable Company rules and procedures, the Company will install underground distribution facilities within that tract of land upon which multiple-occupancy residential buildings containing five (5) or more separate dwelling units will be constructed.
- 6.6.2 Contribution by Applicant
When feeder mains on tracts of land upon which multiple-occupancy buildings will be constructed are deemed necessary by the Company to provide and/or maintain adequate service, an underground installation is requested by the Applicant, or required by a governmental agency having the authority so to do, the Applicant shall contribute the differential costs provided in Section 6.3.2.b) and 6.3.3.c). Service for new multiple-occupancy residential buildings will be constructed underground within the property to be served to the point of delivery at or near the building by the Company at no charge to the Applicant (other than feeder mains), provided the Company is free to construct its service extension or extensions in the most economical manner and reasonably full use is made of the tract of land upon which the multiple-occupancy buildings will be constructed. ~~The Applicant must pay a cost differential for any non-residential service such as a pool or office building if such service is not ganged with other single-phase residential services.~~ Other conditions will require special arrangements.
- 6.6.3 Responsibility of Applicant
The Applicant shall, at no cost to the Company:
- a) Furnish details and specifications of the proposed building or complex of buildings. The Company will use these in the design of the electric distribution facilities required to render service.
 - b) Where the Company determines that transformers are to be located outside the building, the Applicant shall provide in accordance with Company specifications:
 - 1) The space for padmounted equipment at or near the building, and protective devices for such equipment, if required.
 - 2) The service entrance conductors and raceway from the Applicant's service equipment to the point of delivery designated by the Company at or near the building.
 - 3) Conduits underneath all buildings when required for the Company's supply cables. Such conduits shall extend five feet beyond the edge of the buildings for joining to the Company's facilities.
 - c) Provide proper easements, including the right of ingress and egress for the installation, operation and maintenance of the Company's facilities.
 - d) Ensure that the metering enclosures are appropriately marked with the same alphabetic or numeric designation used to identify the service address. Such markings shall be of a permanent nature.
- 6.6.4 Responsibility of the Company
The Company will:
- a) Provide the Applicant with the Company's plans to supply the proposed building or complex of buildings, and specifications for the facilities to be provided by the Applicant.



PAGE	EFFECTIVE DATE
	March 29, 2019

- b) Furnish and install the primary or secondary conductors from existing or proposed facilities adjoining the property to the point of delivery, together with the ducts, if required, outside the building.
- c) Furnish and install the necessary transformers and associated equipment located outside the building.
- d) Be solely responsible for the installation, operation and maintenance of all of its facilities.

6.6.5 Service Voltages
The Company will supply service at one of the several secondary voltages available as mutually agreed upon between the Applicant and the Company.

6.6.6 Meter Sockets and Service Entrance Facilities
The Applicant shall install service entrance facilities including meter sockets or suitable facilities for installation of the Company's meters at a location suitable to the Company. Meter sockets of facilities for installation of the Company's meters shall be a type and manufacture approved by the Company.

6.5 OTHER UNDERGROUND DISTRIBUTION FACILITIES
6.7 INSTALLATION OF UNDERGROUND ELECTRIC DISTRIBUTION FACILITIES FOR NEW CONSTRUCTION

This section of the tariff applies to either requests for new or upgraded facilities, or requests to convert overhead electric distribution facilities. Nothing herein shall alter the charges or provisions outlined in sections 6.3, 6.4, 6.5, or 6.6 of this tariff.

6.7.1 Definitions
Applicant – Any person, corporation, or entity capable of complying with the requirements of this tariff that has made a written request for underground electric distribution facilities in accordance with this tariff.

Conversion – Any installation of underground electric distribution facilities where the underground facilities will be substituted for existing overhead electric distribution facilities, including relocations.

Distribution System
Electric service facilities consisting of primary and secondary conductors, service drops, service laterals, conduits, transformers, and necessary accessories and appurtenances for the furnishing of electric power at utilization voltage.

6.7.2 Application
This tariff section applies to all requests for underground electric distribution facilities where the facilities requested will constitute new construction, other than those requests covered by sections 6.3, 6.4, .5, 6.6, 6.8 and 6.9 of this tariff. Any Applicant may submit a request as follows. Requests shall be in writing and must specify in detail the proposed facilities that the Applicant desires to be installed as underground electric distribution facilities in lieu of overhead electric distribution facilities. Upon receipt of a written request the Company will determine the non-refundable deposit amount necessary to secure a binding cost estimate and notify the applicant of said amount. Where system integrity would be compromised by the delay of a system improvement due to the time allowances specified below, said time allowances shall be reduced such that all terms and conditions of this tariff must be met 30 days prior to the date that construction must begin to allow the underground facility to be completed and operable to avert a system compromise.

6.7.3 Contribution-In-Aid-of-Construction (CIAC)
Upon the payment of a non-refundable deposit by an Applicant, the Company shall prepare a binding cost estimate specifying the contribution-in-aid-of-construction (CIAC) required for the installation of the requested underground distribution facilities in addition to any CIAC required for facilities extension, where the installation of such facilities is feasible, and provide said estimate to the Applicant upon completion of the estimate along with an Agreement for Underground Electric Construction by the Utility. The CIAC may be subject to increase or refund if the project scope is enlarged or reduced at the request of the Applicant, or the CIAC is found to have a material error prior to the commencement of construction. The binding cost estimate provided to an Applicant shall be considered expired if the Applicant does not enter into an Agreement for Underground



PAGE	EFFECTIVE DATE
	March 29, 2019

Electric Construction by the Utility and pay the CIAC amount specified for the installation of the requested underground electric distribution facilities within 180 days of delivery of the binding cost estimate to the Applicant by the Company.

The charge to be paid by the Applicant for underground facilities pursuant to the contractual agreement shall be determined as follows:

- CIAC =
- + Construction costs for the underground distribution facilities, including the underground service lateral(s) to the meter(s) of the customer(s)
 - + The net present value of the operating cost over the expected life of the underground facilities;
 - The estimated construction cost to build new overhead facilities including the service drop(s) to the meter(s) of the customer(s)
 - The net present value of the operating cost over the expected life of the overhead facilities.

~~6.7.4 CONTRIBUTION BY APPLICANT. Prior to the installation of underground facilities covered by this subpart, the Applicant and the Company must enter into a contractual agreement setting forth the terms and conditions of the installation.~~

~~The cost of construction of the underground distribution facilities including the construction cost of the underground service lateral(s) to the meter(s) of the customer(s) and the net present value of the operating cost over the expected life of the underground facilities;~~

~~plus (if applicable) the estimated remaining book value of any existing facilities to be removed as part of the conversion of existing overhead facilities to underground, less the estimated net salvage value of the facilities to be removed;~~

~~minus the estimated construction cost to build new overhead facilities including the service drop(s) to the meter(s) of the customer(s) and the net present value of the operating cost over the expected life of the overhead facilities.~~

~~If the installation of the underground facilities is made pursuant to a contractual agreement based on a binding cost estimate received by the Applicant no more than 180 days prior to the date of the contractual agreement, the provisions of section 6.5.3 shall limit and modify the contribution to be paid by the Applicant for underground facilities.~~

6.7.4 Non-Refundable Deposits
A deposit must be paid to the Company, along with a completed copy of Application for Underground Cost Estimate in Standard Contract Forms to initiate the estimating process. The deposit will not be refundable, however, it will be applied in the calculation of the CIAC required for the installation of underground distribution facilities. The deposit and the preparation of a binding cost estimate are a prerequisite to the execution of an Agreement for Underground Electric Construction by the Utility. If the request for underground electric distribution facilities involves less than 250 proposed trench feet then no deposit will be required for a binding cost estimate, provided, however, that all other requirements of this tariff shall still apply. Otherwise, the non-refundable deposit for a binding cost estimate, which approximates the engineering costs for underground facilities associated with preparing the requested estimate, shall be calculated as follows:

Conversion	
Urban Commercial	\$5,227 per overhead primary mile
Urban Residential	\$8,510 per overhead primary mile
Rural Residential	\$6,905 per overhead primary mile
210 Lot Subdivision	\$6,550 per overhead primary mile
176 Lot Subdivision	\$11,452 per overhead primary mile



PAGE	EFFECTIVE DATE
	March 29, 2019

~~BINDING COST ESTIMATES~~

~~An Applicant, upon payment of a non-refundable deposit and completion of the Application for Underground Cost Estimate set forth in Section VII of this tariff, under Standard Contract Forms, at Sheet No. 7.43, may obtain an estimate of the charges for underground distribution facilities, which estimate the Company would be bound to honor as provided below.~~

~~An Applicant desiring the Company to proceed with construction of the underground facilities described in a binding cost estimate may enter into a contract with the Company based on said estimate on or before the 180th day following Applicant's receipt of the estimate. So long as the contract is entered into by such date, the contract shall provide that the charges the Applicant is obligated to pay for installation of the underground facilities will not exceed 110 percent of the amount set forth in the binding estimate. So long as said contract is entered into by the date specified above, it shall further provide that the total charges the Applicant is obligated to pay for installation of underground facilities determined as set forth in section 6.5.4 below shall be reduced by the amount of the posted deposit associated with the binding cost estimate.~~

6.7.5 Non-Binding Cost Estimates

An Applicant may obtain a non-binding estimate of the charges the Applicant would be obligated to pay in order for the Company to provide underground distribution facilities. This non-binding estimate will be provided to the Applicant without any charge or fee upon completion of the Application for Underground Cost Estimate set forth in ~~Section VII of this tariff, Standard Contract Forms, at Sheet No. 7.43.~~

6.7.6 Underground Distribution Facilities Installation Agreement

~~Any Applicant seeking the installation of underground distribution facilities shall execute the Application for Underground Cost Estimate in Standard Contract Forms. The Agreement must be executed and the CIAC paid by the Applicant within 180 days of the delivery of the binding cost estimate to the Applicant. Failure to execute the Agreement and pay the CIAC specified in the agreement within the 180-day time limit, or termination of the Agreement, shall result in the expiration of the binding cost estimate. Any subsequent request for underground facilities will require the payment of a new deposit and the presentation of a new binding cost estimate. For good cause the Company may extend the 180-day time limit. Upon execution of the Application for Underground Cost Estimate in Standard Contract Forms, payment in full of the CIAC specified in the binding cost estimate, and compliance with the requirements of this tariff, the Company shall proceed to install the facilities identified in a timely manner.~~

6.7.7 Easements

~~Before the initiation of any project to provide underground electric distribution facilities pursuant to an Agreement for Underground Electric Construction by the Utility, the Applicant shall provide to the Company and record, at no cost to the Company, all easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, specified as necessary by the Company to accommodate the requested underground facilities along with an opinion of title that the easements are valid. Failure to provide the easements in the manner set forth above within 180 days after delivery of the binding cost estimate to the Applicant shall result in the expiration of the binding cost estimate, the return of any CIAC paid, and the termination of any Agreement for Underground Electric Construction by the Utility entered into between the Applicant and the Company. Before the Company will commence construction, those rights of way and easements, contained within the boundaries of a development for which the underground electric distribution facilities are to be installed for new service, shall be staked to show property corners, transformer locations, and survey control points, graded to within six inches of final grade, with soil stabilized, and also staked to show the final grade along the easement.~~

6.7.8 Early Notification and Coordination

~~In order for the Company to provide service when requested, it is necessary that the Applicant notify the Company during the early stages of major project planning. In matters requiring new service extensions close coordination is necessary throughout the planning and construction stages by the Company, the architect, the builder, the subcontractors and the consulting engineer to avoid delays and additional expense. Particular attention must be given to the scheduling of the construction of paved areas and the various subgrade installations of the several utilities. Failure of the Applicant to provide such notification and coordination shall result in the Applicant being responsible for any additional costs incurred by the Company as a result of said failure.~~



PAGE	EFFECTIVE DATE
	March 29, 2019

- 6.7.9 Changes to Plans, Layout or Grade
The Applicant shall pay for any additional costs incurred by the Company due to changes in the development layout or final grade made by the Applicant subsequent to the development layout or final grade information supplied to the Company for the preparation of the binding cost estimate.
- 6.7.10 Location of Distribution Facilities
Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. Where construction is for the purpose of new service the Applicant shall provide accessible locations for meters when the design of a building or its appurtenances limit perpetual accessibility for reading, testing, or making necessary repairs and adjustments.
- 6.7.11 Other Terms and Conditions
The Applicant agrees to the following:
- a) The Applicant shall be responsible for all restoration of, repair of, or compensation for, property affected, damaged, or destroyed, to accommodate the installation of underground distribution facilities;
 - b) The Applicant shall indemnify the Company from any claim, suit, or other proceeding, which seeks the restoration of, or repair of, or compensation for, property affected, damaged, or destroyed, to accommodate the installation of underground distribution facilities arising from or brought as a result of the installation of underground distribution facilities;
 - c) The Applicant shall clear easements provided to the Company of trees, tree stumps and other obstructions that conflict with construction or installation of underground distribution facilities in a timely manner consistent with the Company's construction schedule.
- 6.7.12 Type of System Provided
An underground distribution system will be provided in accordance with the Company's current design and construction standards.
- 6.7.13 Design and Ownership
The Company will design, install, own, and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service. The Applicant may, subject to a contractual agreement with the Company, construct and install all or a portion of the underground distribution facilities provided that:
- a) such work meets the Company's construction standards;
 - b) the Company will own and maintain the completed distribution facilities;
 - c) the construction and installation of underground distribution facilities by the Applicant is not expected to cause the general body of ratepayers to incur greater costs;
 - d) the Applicant agrees to pay Company's current applicable hourly rate for engineering personnel for all time spent reviewing and inspecting the Applicants work done; and
 - e) the Applicant agrees to rectify any deficiencies found by the Company prior to the connection of any customers to the underground electric distribution system or the connection of the underground electric distribution facilities to the Company's distribution system. Furthermore, the deficiencies must be corrected in a timely manner or the Company shall perform the construction using overhead facilities and the Applicant will be responsible for paying the cost of installing the overhead facilities and the cost of their removal before the corrected underground facilities will be connected.
- 6.7.14 Meter Sockets and Service Entrance Facilities
The Applicant shall install service entrance facilities including meter sockets or suitable facilities for installation of the Company's meters at a location suitable to the Company. Meter sockets or facilities for installation of the Company's meters shall be of a type and manufacture approved by the Company.



PAGE	EFFECTIVE DATE
	March 29, 2019

6.8 INSTALLATION OF UNDERGROUND ELECTRIC DISTRIBUTION FACILITIES FOR THE CONVERSION OF OVERHEAD ELECTRIC DISTRIBUTION FACILITIES

6.8.1 Definitions

Applicant – Any person, corporation, or entity capable of complying with the requirements of this tariff that has made a written request for underground electric distribution facilities in accordance with this tariff.

Conversion – Any installation of underground electric distribution facilities where the underground facilities will be substituted for existing overhead electric distribution facilities, including relocations.

Distribution System

Electric service facilities consisting of primary and secondary conductors, service drops, service laterals, conduits, transformers, and necessary accessories and appurtenances for the furnishing of electric power at utilization voltage.

6.8.2 Application

This tariff section applies to all requests for underground electric distribution facilities where the facilities requested will be substituted for existing overhead electric distribution facilities. Any person, corporation, or entity capable of complying with the requirements of this tariff may submit a request as follows. Requests shall be in writing and must specify in detail the overhead electric distribution facilities to be converted or the area to be served by underground electric distribution facilities in lieu of presently existing overhead electric distribution facilities serving said area. Upon receipt of a written request, the Company will determine the feasibility of converting the existing facilities, any necessary revisions to this written request, and the non-refundable deposit amount necessary to secure a binding cost estimate and notify the applicant of said amount. In addition, in order for the Company to take action pursuant to a request for conversion:

- 1) the conversion area must be at least two contiguous city blocks or 1000 feet in length;
- 2) all electric services to the real property on both sides of the existing overhead primary lines must be part of the conversion; and
- 3) all other existing overhead utility facilities (e.g. telephone, CATV, etc.) must also be converted to underground facilities.

6.8.3 Contribution-In-Aid-of-Construction (CIAC)

Upon the payment of a non-refundable deposit by an Applicant, the Company shall prepare a binding cost estimate specifying the contribution in aid of construction (CIAC) required for the installation of the requested underground distribution facilities, where the installation of such facilities is feasible, and provide said estimate to the Applicant upon completion of the estimate along with an Application for Underground Service in an Overhead Area. The CIAC amount to be collected pursuant to a binding cost estimate from an Applicant shall not be increased by more than 10 percent of the binding cost estimate to account for actual costs incurred in excess of the binding cost estimate. However, the CIAC may be subject to increase or refund if the project scope is enlarged or reduced at the request of the Applicant, or the CIAC is found to have a material error prior to the commencement of construction. The binding cost estimate provided to an Applicant shall be considered expired if the Applicant does not enter into either an Application for Underground Service in an Overhead Area and pay the CIAC amount specified for the installation of the requested underground electric distribution facilities within 180 days of delivery of the binding cost estimate to the Applicant by the Company.

The CIAC to be paid by an Applicant under this section of the tariff shall be the result of the following formula:

$$\begin{aligned}
 & \underline{\hspace{2cm}} \text{ CIAC} = \\
 & \underline{\hspace{2cm}} + \text{ The estimated cost to install the requested underground facilities;} \\
 & \underline{\hspace{2cm}} + \text{ The estimated cost to remove the existing overhead facilities;} \\
 & \underline{\hspace{2cm}} + \text{ The net book value of the existing overhead facilities;} \\
 & \underline{\hspace{2cm}} - \text{ The estimated cost that would be incurred to installed new overhead facilities, in lieu of} \\
 & \quad \text{underground, to replace the existing overhead facilities} \\
 & \underline{\hspace{2cm}} - \text{ The estimated salvage value of the existing overhead facilities to be removed} \\
 & \underline{\hspace{2cm}} - \text{ The 30-year net present value of the estimated underground versus overhead operational costs} \\
 & \quad \text{differential;}
 \end{aligned}$$



PAGE	EFFECTIVE DATE
	March 29, 2019

6.8.4 Non-Refundable Deposits

A deposit must be paid to the Company, along with a completed copy of Application for Underground Cost Estimate in Standard Contract Forms to initiate the estimating process. The deposit will not be refundable, however, it will be applied in the calculation of the CIAC required for the installation of underground distribution facilities. The deposit and the preparation of a binding cost estimate are a prerequisite to the execution of an Agreement for Underground Electric Construction by the Utility. If the request for underground electric distribution facilities involves less than 250 proposed trench feet then no deposit will be required for a binding cost estimate, provided, however, that all other requirements of this tariff shall still apply. Otherwise, the non-refundable deposit for a binding cost estimate, which approximates the engineering costs for underground facilities associated with preparing the requested estimate, shall be calculated as follows:

Conversion

Urban Commercial	\$5,227 per overhead primary mile
Urban Residential	\$8,510 per overhead primary mile
Rural Residential	\$6,905 per overhead primary mile
210 Lot Subdivision	\$6,550 per overhead primary mile
176 Lot Subdivision	\$11,452 per overhead primary mile

6.8.5 Non-Binding Cost Estimates

An Applicant may obtain a non-binding estimate of the charges the Applicant would be obligated to pay in order for the Company to provide underground distribution facilities. This non-binding estimate will be provided to the Applicant without any charge or fee upon completion of the Application for Underground Cost Estimate set forth in ~~Section VII of this tariff~~, Standard Contract Forms, ~~at Sheet No. 7.43~~.

6.8.6 Underground Facilities Conversion Agreement

Any Applicant seeking the installation of underground distribution facilities pursuant to a written request hereunder shall execute the Agreement for Underground Construction Standards set forth in Section VII of this tariff, under Standard Contract Forms, at Sheet no. 7.25. Failure to execute said agreement within 180 days after the delivery by Gulf Power Company of a binding cost estimate shall result in forfeiture of the deposit made. Any subsequent request for underground facilities will require the payment of a new deposit and the presentation of a new binding cost estimate. For good cause Gulf may extend the 180-day time limit. Upon execution of the Agreement for Underground Construction Standards, payment in full of the differential cost specified in the binding cost estimate, and compliance with the requirements of this tariff, Gulf shall proceed to install the facilities identified in a timely manner.

6.8.7 Simultaneous Conversion of Other Pole Licensees

As a condition precedent to the conversion of any overhead distribution facilities, the Company may require that the Applicant obtain executed agreements with all affected pole licensees (e.g. telephone, cable TV, etc.) for the simultaneous conversion of those pole licensees' facilities and provide Gulf with a copy of the Agreement(s). Such agreements shall specifically acknowledge that the affected pole licensee will coordinate the conversion with Gulf and other licensees in a timely manner so as to not create unnecessary delays. Failure to present to Gulf Power Company executed copies of any necessary agreements with affected pole licensees within 180 days after delivery of the binding cost agreement to the Applicant shall result in forfeiture of the deposit paid for the binding cost estimate, the return of any differential cost paid for the binding cost estimate, the return of any differential cost paid less any actual cost incurred, and the termination of any Agreement For Underground Construction Standards entered into between the Applicant and Gulf Power Company.

6.8.8 Easements

Before the initiation of any project to provide underground electric distribution facilities pursuant to an Agreement for Underground Electric Construction by the Utility the Applicant shall provide to the Company and record, at no cost to the Company, all easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, specified as necessary by the Company to accommodate the requested underground facilities along with an opinion of title that the easements are valid. Failure to provide the easements in the manner set forth above within 180 days after delivery of the binding cost estimate to the Applicant shall result in the expiration of the binding



Section No. IV

~~Twelfth~~^{Eleventh} Revised Sheet No. 4.28.1

Canceling ~~Tenth~~^{Eleventh} Revised Sheet No. 4.28.1

PAGE	EFFECTIVE DATE
	March 29, 2019

cost estimate, the return of any CIAC paid, and the termination of any Agreement for Underground Electric Construction by the Utility entered into between the Applicant and the Company. Before the Company will commence construction, those rights of way and easements, contained within the boundaries of a development for which the underground electric distribution facilities are to be installed for new service, shall be staked to show property corners, transformer locations, and survey control points, graded to within six inches of final grade, with soil stabilized, and also staked to show the final grade along the easement.

6.8.9 Affected Customer Services

The Applicant shall be responsible for the costs associated with any modifications to the service facilities of customers affected by the conversion of Company distribution facilities which are made necessary as a result of the conversion. The Applicant shall be responsible for arranging the conversion of affected residential overhead customer service facilities by providing, at no cost to the Company:

- a) any necessary rearranging of the customer's existing electric service entrance facilities to accommodate an underground service lateral through the use of a licensed electrical contractor, in accordance with all local ordinances, codes, and Company specifications; and
- b) a suitable trench, install Company provided conduit according to Company specifications to a point designated by the Company, and perform the backfilling and any landscape, pavement or other similar repairs

The Company shall be responsible for the installation of the service lateral cable, the cost of which shall be included in the Applicant's binding cost estimate. In the event a customer does not allow the Applicant to convert the customer's affected overhead services, or the Applicant fails to comply with the above requirements in a timely manner consistent with the Company's conversion construction schedule, then the Applicant shall pay the Company, in addition to the CIAC specified in the binding cost estimate, the costs associated with maintaining service to said customer through an overhead service drop. The cost for maintaining an overhead service drop from an underground system shall be:

- a) the sum of \$717.70 for residential dwellings containing less than five individual units; or,
- b) the estimated cost to maintain service for residential dwellings containing five or more units.

For existing residential underground service laterals affected by a conversion the Applicant shall be responsible for the trenching, backfilling and any landscape, pavement or other similar repairs and installation of Company provided conduit, according to Company specifications, necessary to bring existing underground service laterals of affected customers to a Company designated pedestal or transformer. The Company will install the necessary cable, the cost of which shall be included in the binding cost estimate. However, in the event that a customer owned service lateral fails on connection to the underground distribution system the customer will be responsible for the replacement of their service lateral or compliance with section 6.5 of the Company's tariff.

The Applicant's responsibilities for modifications to the service facilities of non-residential customers affected by the conversion of the Company's distribution facilities which are made necessary as a result of the conversion will be specified in an attachment to any Application for Underground Service in an Overhead Area.

6.8.10 Other Terms and Conditions

The Applicant agrees to the following:

- a) The Applicant shall be responsible for all restoration of, repair of, or compensation for, property affected, damaged, or destroyed, to accommodate the installation of underground distribution facilities and the remove of the Company's overhead distribution facilities;
- b) The Applicant shall indemnify the Company from any claim, suit, or other proceeding, which seeks the restoration of, or repair of, or compensation for, property affected, damaged, or destroyed, to remove existing facilities or to accommodate the installation of underground distribution facilities arising from or brought as a result of the installation of underground



PAGE	EFFECTIVE DATE
	March 29, 2019

distribution facilities:

- c) The Applicant shall clear easements provided to the Company of trees, tree stumps and other obstructions that conflict with construction or installation of underground distribution facilities in a timely manner consistent with the Company's construction schedule.

6.8.11 Type of System Provided

An underground distribution system will be provided in accordance with the Company's current design and construction standards.

6.8.12 Design and Ownership

The Company will design, install, own, and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service. The Applicant may, subject to a contractual agreement with the Company, construct and install all or a portion of the underground distribution facilities provided that:

- a) such work meets the Company's construction standards;
- b) the Company will own and maintain the completed distribution facilities;
- c) the construction and installation of underground distribution facilities by the Applicant is not expected to cause the general body of ratepayers to incur greater costs;
- d) the Applicant agrees to pay Company's current applicable hourly rate for engineering personnel for all time spent reviewing and inspecting the Applicants work done; and
- e) the Applicant agrees to rectify any deficiencies found by the Company prior to the connection of any customers to the underground electric distribution system or the connection of the underground electric distribution facilities to the Company's distribution system.

6.8.13 Relocation

Where underground electric facilities are requested as part of, or for the purpose of, relocation, the requirements of this tariff shall apply. As applicable, the company's Application for Underground Service in an Overhead Area (form 10, under Standard Contract forms) shall be executed as an addendum to the relocation agreement between the Company and the Applicant. In the event of any conflict between the relocation agreement and this tariff, the tariff shall control. Furthermore, where the regulations of the Federal or State Department of Transportation (DOT) prevent pre-payment of deposits and other conversion costs, the Federal or State DOT may pay the CIAC after the work has been performed.

**FINAL TARIFF
URD**



PAGE	EFFECTIVE DATE
2 of 4	

(Continued from Index, Sheet No. 4.1)

- Part IV Billing and Metering Regulations
 - 4.1 Each Metering Point Billed as Separate Customer
 - 4.2 Two or More Premises Not to be Served Through One Meter
 - 4.3 Deleted
 - 4.4 No Charge for Required Metering Equipment
 - 4.4.1 Net Metering of Customer-Owned Renewable Generation
 - 4.5 Estimation of Bills Required by Meter Damage or Failure
 - 4.6 Meter Reading and Billing Intervals
 - 4.7 Power Factor Requirement
 - 4.8 Prorated Bills
 - 4.9 Requirements of Customer for Discontinuing Service
 - 4.10 Installation of Check Meters
 - 4.11 Refusal or Discontinuance of Service
 - 4.12 Investigation of Unauthorized Use
 - 4.13 Restoration of Service (After Violation of Rules)
 - 4.14 Testing of Meters and Resulting Adjustments
 - 4.14.1 Fast Meter
 - 4.14.2 Slow, Non-Registering, or Partially Registering Meter
 - 4.14.3 Creeping Meter
 - 4.14.4 Improper Metering Due to Electrical Contractor Error
 - 4.15 Returned Item Charge
- Part V Contract and Enforcement Regulations
 - 5.1 Cutoff Regulations
 - 5.2 Extension of Time for Payment of Bill
 - 5.3 Restoration Charge
 - 5.4 Premise Visit Charge
 - 5.5 Faulty Wiring on Customer's Premises
 - 5.6 Medically Essential Service
- Part VI Underground Distribution Facilities
 - 6.1 Definitions
 - 6.2 General
 - 6.2.1 Application
 - 6.2.2 Early Notification and Coordination
 - 6.2.3 Changes to Plans
 - 6.2.4 Underground Installations Not Covered
 - 6.2.5 Type of System Provided
 - 6.2.6 Design and Ownership
 - 6.2.7 Rights of Way and Easements
 - 6.2.8 Contributions and Credits
 - 6.2.9 Location of Distribution Facilities



Section No. IV
Tenth Revised Sheet No. 4.2
Canceling Ninth Revised Sheet No. 4.2

PAGE	EFFECTIVE DATE
2 of 4	

(Continued from Index, Sheet No. 4.2)

- 6.2.10 Special Conditions
- 6.2.11 Point of Delivery
- 6.2.12 Location of Meter Socket & Service Entrance Facilities
- 6.2.13 Relocation or Removal of Existing Facilities
- 6.2.14 Development of Subdivisions
- 6.2.15 Service Lateral Conductor
- 6.2.16 Damage to Company's Equipment



Section No. IV
Sixth Revised Sheet No. 4.2A
Canceling Fifth Revised Sheet No. 4.2A

PAGE	EFFECTIVE DATE
------	----------------

INDEX (Continued)

Part VI

- 6.3 Underground Distribution Facilities for New Residential Subdivisions
 - 6.3.1 Availability
 - 6.3.2 Contribution by Applicant
 - 6.3.3 Contribution Adjustments

- 6.4 Underground Distribution to Multiple-Occupancy Residential Buildings
 - 6.4.1 New Underground Service Laterals
 - 6.4.2 Contribution By Applicant
 - 6.4.3 Contribution Adjustments

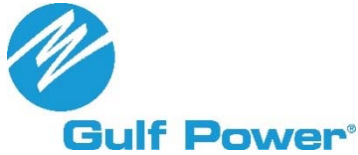
- 6.5 Underground Service Laterals Replacing Existing Residential Overhead and Underground Services
 - 6.5.1 Applicability
 - 6.5.2 Rearrangement of Service Entrance
 - 6.5.3 Trenching and Conduit Installation
 - 6.5.4 Contribution by Applicant

- 6.6 Underground Distribution to Multiple-Occupancy Residential Buildings
 - 6.6.1 Availability
 - 6.6.2 Contribution by Applicant
 - 6.6.3 Responsibility of Applicant
 - 6.6.4 Responsibility of the Company
 - 6.6.5 Service Voltages
 - 6.6.6 Meter Sockets and Service Entrance Facilities

- 6.7 Installation of Underground Electric Distribution Facilities for New Construction
 - 6.7.1 Definitions
 - 6.7.2 Application
 - 6.7.3 Contribution-In-Aid-of-Construction (CIAC)
 - 6.7.4 Non-Refundable Deposits
 - 6.7.5 Non-Binding Cost Estimates
 - 6.7.6 Underground Distribution Facilities
 - 6.7.7 Easements
 - 6.7.8 Early Notification and Coordination
 - 6.7.9 Changes to Plans, Layout or Grade
 - 6.7.10 Location of Distribution Facilities
 - 6.7.11 Other Terms and Conditions
 - 6.7.12 Type of System Provided
 - 6.7.13 Design and Ownership
 - 6.7.14 Meter Sockets and Service

- 6.8 Installation of Underground Electric Distribution Facilities For the Conversion of Overhead Electric Distribution Facilities
 - 6.8.1 Definitions
 - 6.8.2 Application
 - 6.8.3 Contribution-In-Aid-of-Construction (CIAC)

ISSUED BY: Tiffany Cohen



Section No. IV
Sixth Revised Sheet No. 4.2A
Canceling Fifth Revised Sheet No. 4.2A

PAGE	EFFECTIVE DATE
------	----------------

Part VI (Continued)

- 6.8.4 Non-Refundable Deposits
- 6.8.5 Non-Binding Cost Estimates
- 6.8.6 Underground Facilities Conversion Agreement
- 6.8.7 Simultaneous Conversion of Other Pole Licensees
- 6.8.8 Easements
- 6.8.9 Affected Customer Services
- 6.8.10 Other Terms and Conditions
- 6.8.11 Type of System Provided
- 6.8.12 Design and Ownership
- 6.8.13 Relocation

Part VII Standards for Cogeneration and Small Power Production Facilities

- 7.0 General
 - 7.0.1 Purpose
 - 7.0.2 Responsibility
 - 7.0.3 Requirements
 - 7.0.4 Application for Interconnection
- 7.1 Personnel Safety
 - 7.1.1 General
 - 7.1.2 Discount Switch
 - 7.1.3 Responsibility and Liability
 - 7.1.4 Insurance
- 7.2 Protection and Operation
 - 7.2.1 General
 - 7.2.2 Loss of Source
 - 7.2.3 Coordination and Synchronization
 - 7.2.4 Electrical Characteristics
 - 7.2.5 Exceptions
- 7.3 Quality of Service
 - 7.3.1 General
 - 7.3.2 Frequency
 - 7.3.3 Voltage
 - 7.3.4 Harmonics
 - 7.3.5 Power Factor
 - 7.3.6 DC Generators

ISSUED BY: Tiffany Cohen



PAGE	EFFECTIVE DATE
------	----------------

**SECTION VI
UNDERGROUND DISTRIBUTION FACILITIES**

6.1 The following words and terms, when used in these Rules, shall have the meaning indicated:

APPLICANT - Any person, partnership, association, corporation, or governmental agency controlling or responsible for the development of a new subdivision or dwelling unit, commercial project or individual enterprise and applying for the construction of underground electric distribution facilities.

BACKBONE – The distribution system, excluding feeder and that portion of the service lateral which is on the lot being served by that service lateral.

BUILDING - Any structure, within a subdivision, designed for residential occupancy and containing less than five (5) individual dwelling units, excluding a townhouse unit.

CABLE IN CONDUIT SYSTEM – Underground residential distribution systems where all underground primary, secondary, service, and street light conductors are installed in direct buried conduit. Other facilities associated with cable in conduit, such as transformers, may be above ground.

COMMISSION - The Florida Public Service Commission.

COMPANY – Gulf Power Company

DISTRIBUTION SYSTEM - Electric service facilities consisting of primary and secondary conductors, service laterals, conduits, transformers, and necessary accessories and appurtenances for the furnishing of electric power at utilization voltage.

DWELLING UNIT – A single unit providing complete, independent living facilities for one or more persons including permanent provisions for living, sleeping, eating, cooking, and sanitation.

FEEDER MAIN - A three-phase primary installation, including switches, which serves as a source for primary laterals and loops through suitable overcurrent devices.

FINAL GRADE - The ultimate elevation of the ground, paved or unpaved, which will prevail in a subdivision or tract of land.

MOBILE HOME (TRAILER) - A vehicle or conveyance, permanently equipped to travel upon the public highways, that is used either temporarily or permanently as a residence or living quarters.

MULTIPLE-OCCUPANCY BUILDING - A structure erected and framed of component structural parts and designed to contain five or more individual dwelling units.

OVERHEAD SYSTEM - Distribution system consisting of primary, secondary and service conductors and aerial transformers supported by poles.

PRIMARY LATERAL - That part of the electric distribution system whose function is to conduct electricity at the primary level from the feeder main to the transformers. It usually consists of a single-phase conductor or insulated cable, with conduit, together with necessary accessory equipment for supporting, terminating and disconnecting from the primary mains by a fusible element.

SERVICE LATERAL - The entire length of underground service conductors and conduit between the distribution source, including any risers at a pole or other structure or from transformers, from which only one point of service will result, and the first point of connection to the Service Entrance Conductors in a terminal or meter box outside the building wall.

SERVICE ENTRANCE CONDUCTORS – The Customer’s conductors from point of connection at the service drop or service lateral to the service equipment.

SUBDIVISION - The tract of land which is divided into five (5) or more building lots or upon which five or more separate dwelling units are to be located, or the land on which is to be constructed new multiple-occupancy buildings.



PAGE	EFFECTIVE DATE
------	----------------

TRENCH MILE - The length of trench in miles required for underground primary cables.

TOWNHOUSE - A one-family dwelling unit of a group such that units are separated only by fire walls. Each townhouse unit shall be constructed upon a separate lot and serviced with separate utilities and shall otherwise be independent of one another.

6.2 GENERAL

6.2.1 Application

Underground electric distribution facilities may be offered in lieu of overhead facilities in accordance with these Rules and Regulations.

- (a) New Residential Subdivisions (SECTION 6.3)
- (b) New Service Laterals from Overhead Systems (SECTION 6.4)
- (c) Replacement of Existing Overhead and Underground Service Laterals (SECTION 6.5)
- (d) New Multiple-Occupancy Buildings (SECTION 6.6)
- (e) Installation of Underground Electric Distribution Facilities for New Construction (SECTION 6.7)
- (f) Installation of Underground Electric Distribution Facilities for Conversion of Overhead Electric Distribution Facilities (SECTION 6.8)
- (g) Installation of Underground Electric Distribution Facilities to Small Commercial/Industrial Customers (SECTION 6.9)

6.2.2 Early Notification and Coordination

In order for the Company to provide service when required, it is necessary that the Applicant notify the Company during the early stages of planning major projects. It is the Applicant's responsibility to insure that close cooperation is maintained with the Company throughout the planning and construction stages by the architect, the builder, and the consulting engineers to avoid delays and additional expense. Particular attention must be given to the scheduling of the construction of paved areas and the various subgrade installations of the several utilities. Failure of the Applicant to provide such notification and coordination shall result in the Applicant paying any additional costs incurred by the Company.

Any Applicant seeking the installation of underground distribution facilities pursuant to a written request hereunder shall execute the Agreement for Underground Construction Standards under Standard Contract Forms. Failure to execute said agreement within 180 days after the delivery by Gulf Power Company of a binding cost estimate shall result in forfeiture of the deposit made. Any subsequent request for underground facilities will require the payment of a new deposit and the presentation of a new binding cost estimate. For good cause Gulf may extend the 180-day time limit. Upon execution of the Agreement for Underground Construction Standards, payment in full of the differential cost specified in the binding cost estimate, and compliance with the requirements of this tariff, Gulf shall proceed to install the facilities identified in a timely manner.

As a condition precedent to the conversion of any overhead distribution facilities, the Company may require that the Applicant obtain executed agreements with all affected pole licensees (e.g. telephone, cable TV, etc.) for the simultaneous conversion of those pole licensees' facilities and provide Gulf with a copy of the Agreement(s). Such agreements shall specifically acknowledge that the affected pole licensee will coordinate the conversion with Gulf and other licensees in a timely manner so as to not create unnecessary delays. Failure to present to Gulf Power Company executed copies of any necessary agreements with affected pole licensees within 180 days after delivery of the binding cost agreement to the Applicant shall result in forfeiture of the deposit paid for the binding cost estimate, the return of any differential cost paid for the binding cost estimate, the return of any differential cost paid less any actual cost incurred, and the termination of any Agreement For Underground Construction Standards entered into between the Applicant and Gulf Power Company.

6.2.3 Changes to Plans

The Applicant shall pay for all additional costs imposed on the Company by the Applicant including, but not limited to, engineering design, administration and relocation expenses, due to changes made subsequent to the agreement in the subdivision layout or final grade.



**Section No. IV
Eighth Revised Sheet No. 4.24
Canceling Seventh Revised Sheet No. 4.24**

PAGE	EFFECTIVE DATE
------	----------------

6.2.4 Underground Installations Not Covered

Where the Applicant requests or government ordinance mandates underground electric facilities including, but not limited to, three phase primary feeder mains, transformers, pedestal mounted terminals, switching equipment, meter cabinets, service laterals, or other electrical facilities not specifically covered by these Rules and Regulations, or in areas where the terrain, loads, and/or equipment are not typical, and where overhead facilities would otherwise normally be provided, the Applicant shall pay the Company the differential installed cost between the underground facilities and the equivalent overhead facilities as calculated by the Company. The Applicant shall also provide the necessary rights of way and easements as given in Section 6.2.7.

6.2.5 Type of System Provided

The costs quoted in these rules are for underground residential distribution service laterals, secondary and primary conductors of standard Company design with cable in conduit and above-grade appurtenances. Unless otherwise stated, service provided will be 120/240 volt, single phase. If other types of facilities other than standard Company design are requested by the Applicant or required by governmental authority, the Applicant will pay the additional costs, as calculated by the Company, if any. All service laterals and secondary and single phase primary conductors shall be underground. Appurtenances such as transformers, pedestal-mounted terminals, switching equipment, and meter cabinets may be placed above ground. Feeder mains required within a subdivision may be overhead if the Applicant and the Company determine that the additional cost of underground is not justified for that particular location, unless otherwise required by governmental authority, in which case the differential cost will be borne by the Applicant or governmental authority.

6.2.6 Design and Ownership

The Company will design, install, own, and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under the provisions of these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service.

6.2.7 Rights of Way and Easements

The Company shall construct, own, operate, and maintain distribution facilities only along easements, public streets, roads, and highways which the Company has legal right to occupy. The Applicant shall record and furnish satisfactory rights of way and easements, including legal descriptions or such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to the Company prior to the Company initiating construction.

Before the Company will start construction, these rights of way and easements must be cleared by the Applicant of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners, survey control points, and at transformer locations, graded to within six (6) inches of final grade, with soil stabilized, at no cost to the Company. In addition, the Applicant shall provide stakes showing final grade along the easement. Such clearing and grading must be maintained by the Applicant during construction by the utility. Should paving, grass, landscaping, or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching, backfilling, and restoring the paving, grass, landscaping, and sprinkler systems to their original condition.

6.2.8 Contributions and Credits

The Applicant shall pay the required contribution upon receipt of written notification from the Company. No utility construction shall commence prior to completion of a written agreement and payment in full of the entire contribution. Where, by mutual agreement, the Applicant performs any of the work normally performed by the Company, the Applicant shall receive a credit for such work in accordance with the credit amounts contained herein, provided that

- a) The work is in accordance with Company specifications.
- b) The credits shall not exceed the total differential costs.
- c) The Applicant agrees to pay the Company costs associated with estimating the work to be performed by the Applicant, representing the cost of time to review and inspect the Applicant's work.
- d) The credit will be granted after the work has been inspected by the Company and, in the case of Applicant-installed conduit, after the applicable conductors have been installed.
- e) The Company will assume ownership and maintain the completed distribution facilities, once they are determined to meet Company specifications and/or installation of cable in Applicant-installed conduit.



**Section No. IV
Seventeenth Revised Sheet No. 4.25
Canceling Sixteenth Revised Sheet No. 4.25**

PAGE	EFFECTIVE DATE
------	----------------

- f) The Applicant agrees to rectify any deficiencies found by the Company prior to the connection of any customers to the underground electric distribution system or the connection of the underground electric distribution facilities to the Company's distribution system. Furthermore, the deficiencies must be corrected in a timely manner or the Company shall construct the system improvement using overhead facilities and the Applicant will have to pay the cost of such improvement and the cost of its removal before the corrected underground facilities will be connected.

Before commencing any work on the Company's behalf, the Applicant should submit Agreement for Underground Construction Standards (Form 9a, under Standard Contract forms) to the Company.

6.2.9 Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. The Applicant shall provide accessible locations for meters when the design of a dwelling unit or its appurtenances limits perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

6.2.10 Special Conditions

The costs quoted in these rules are based on conditions which permit employment of rapid construction techniques. The Applicant shall be responsible for necessary additional hand digging expenses other than what is normally provided by the Company. The Applicant is responsible for clearing, compacting, boulder and large rock removal, stump removal, paving, and addressing other special conditions. Should paving, grass, landscaping or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching and backfilling and be responsible for restoration of property damaged to accommodate the installation of underground facilities.

6.2.11 Point of Delivery

The point of delivery to the building shall be determined by the Company and normally will be at the point of the building nearest the point at which the underground secondary system is available to the property to be served. When a location for a point of delivery different from that designated by the Company is requested by the Applicant, and approved by the Company, the Applicant shall pay the estimated full cost of service lateral length, including labor and materials, required in excess of that which would have been needed to reach the Company's designated point of service. The additional cost per trench foot is \$13.29. Where an existing trench with existing conduit is utilized, the additional cost per trench foot is \$6.24. Where the Applicant provides the trenching and installs Company provided conduit according to Company specifications and backfilling, the cost per additional trench foot is \$6.24. Any re-designation requested by the Applicant shall conform to good safety and construction practices as determined by the Company. Service laterals shall be installed, where possible, in a direct line to the point of delivery.

6.2.12 Location of Meter Socket & Service Entrance Facilities

The Applicant shall install a meter enclosure and downpipe to accommodate the Company's service lateral conductors at the point designated by the Company. These facilities will be installed in accordance with the Company's specifications and all applicable codes.

6.2.13 Relocation or Removal of Existing Facilities

If the Company is required to relocate or remove existing facilities in the implementation of these Rules, all costs thereof shall be borne exclusively by the Applicant, as follows:

- a) For removal of existing facilities, these costs will include the costs of removal, the in-place value (less salvage) of the facilities so removed and any additional costs due to existing landscaping, pavement or unusual conditions.
- b) For relocation of existing facilities, these costs will include the costs of relocation of reusable equipment, costs of removal of equipment that cannot be reused, costs of installation of new equipment, and any additional costs due to existing landscaping, pavement or unusual conditions.

6.2.14 Development of Subdivisions

The above charges are based on reasonably full and timely use of the land being developed. Where the Company is required to construct underground electric facilities through a section or sections of the subdivision or development where, in the opinion of the Company, service will not be required for at least two years, the Company may require a deposit from the Applicant before

ISSUED BY: Tiffany Cohen



PAGE	EFFECTIVE DATE
------	----------------

construction is commenced. This deposit, to guarantee performance, will be based on the estimated total cost of such facilities rather than the differential cost. The amount of the deposit, without interest, in excess of any charges for underground service will be returned to the applicant on a pro-rata basis at quarterly intervals on the basis of installations to new customers. Any portion of such deposit remaining unrefunded, after five years from the date the Company is first ready to render service from the extension, will be retained by the Company.

6.2.15 Service Lateral Conductor

All residential Tariff charges are based on a single service conductor installed in a single 2" conduit, limited to a maximum size of 4/0 triplex. All parallel services, or any single services requiring service conductor larger than 4/0 triplex, require additional charges determined by specific cost estimate.

6.2.16 Damage to Company's Equipment

The Applicant shall be responsible to ensure that the Company's distribution facilities once installed, are not damaged, destroyed, or otherwise disturbed during the construction of the project. This responsibility shall extend not only to those in his employ, but also to his subcontractors. Should damage occur, the Applicant shall be responsible for the full cost of repairs.

6.3 UNDERGROUND DISTRIBUTION FACILITIES FOR NEW RESIDENTIAL SUBDIVISIONS

6.3.1 Availability

After receipt of proper application and compliance by the Applicant with applicable Company rules and procedures, the Company will install underground distribution facilities to provide single phase service to new residential subdivisions of five (5) or more building lots.

6.3.2 Contribution by Applicant

- a) The Applicant shall pay the Company the average differential cost for single phase residential underground distribution service based on the number of service laterals required or the number of dwelling units, as follows:

	<u>Applicant's Contribution</u>
1. Where density is 6.0 or more dwelling units per acre: Buildings that do not exceed four units, townhouses, and mobile homes – per service lateral.	\$ 0.00
2. Where density is 0.5 or greater, but less than 6.0 dwelling units per acre: Buildings that do not exceed four units, townhouses, and mobile homes – per service lateral	\$ 0.00

Where the density is less than 0.5 dwelling units per acre, or the Distribution System is of non-standard design, individual cost estimates will be used to determine the differential cost as specified in Paragraph 6.2.5.

Additional charges specified in Paragraphs 6.2.10 and 6.2.11 may also apply.

- b) The above costs are based upon arrangements that will permit serving the local underground distribution system within the subdivision from overhead feeder mains. If feeder mains within the subdivision are deemed necessary by the Company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the Company the average differential cost between such underground feeder mains within the subdivision and equivalent overhead feeder mains, as determined by the Company in accordance with Paragraph 6.2.5.



**Section No. IV
Ninth Revised Sheet No. 4.26.1
Canceling Eighth Revised Sheet No. 4.26.1**

PAGE	EFFECTIVE DATE
------	----------------

- c) Where primary laterals are needed to cross open areas such as golf courses, parks, other recreation areas and water retention areas, the Applicant shall pay the average differential costs for these facilities as follows:

Cost per foot of primary lateral trench within the subdivision

1) Single Phase - per foot	\$2.15
2) Two Phase - per foot	\$3.00
3) Three Phase - per foot	\$4.65

- d) For requests for service where underground facilities to the lot line are existing and a differential charge was previously paid for these facilities, the cost to install an underground service lateral to the meter is as follows:

Density less than 6.0 dwelling units per acre:	\$666.57
Density 6.0 or greater dwelling units per acre:	\$647.09

6.3.3 Contribution Adjustments

- a) Credits will be allowed to the Applicant's contribution in Section 6.3.2. where, by mutual agreement, the Applicant provides all trenching and backfilling for the Company's distribution system, excluding feeder, and installs Company-provided conduit:

	Credit to Applicant's Contribution	
	<u>Backbone</u>	<u>Service</u>
1. Where density is 6.0 or more dwelling units per acre:		
Buildings not exceeding four units, townhouses, and mobile homes - per service lateral.	\$166.66	\$240.90
2. Where density is 0.5 or greater, but less than 6.0 dwelling units per acre:		
Buildings not exceeding four units, townhouses, and mobile homes, per service lateral	\$303.99	\$337.25

- b) Credits will be allowed to the Applicant's contribution in Section 6.3.2. where, by mutual agreement, the Applicant purchases Company-specified conduit excluding feeder. This credit is:

1. Where density is 6.0 or more dwelling units per acre:		
Buildings not exceeding four units, townhouses, and mobile homes - per service lateral.	<u>Backbone</u>	<u>Service</u>
	\$29.53	\$15.26
2. Where density is 0.5 or greater, but less than 6.0 dwelling units per acre - per service lateral.	\$69.39	\$37.89

Credits will be allowed to the Applicant's contribution in Section 6.3.2, where, by mutual agreement, the Applicant in accordance with Company instructions:

- c) provides a portion of trenching and backfilling for the Company's facilities (per foot of trench), plus:
 installs a portion of Company-provided PVC conduit (per foot of conduit) for 2" PVC: \$4.82
 for larger than 2" PVC: \$7.20
- d) purchases a portion of Company-specified PVC conduit (per foot of conduit) for 2" PVC: \$0.45
 for larger than 2" PVC: \$1.20

ISSUED BY: Tiffany Cohen



**Section No. IV
Ninth Revised Sheet No. 4.26.2
Canceling Eighth Revised Sheet No. 4.26.2**

PAGE	EFFECTIVE DATE
------	----------------

- e) installs a Company-provided primary splice box (per box): \$75.61
- f) installs a Company-provided concrete pad for a pad-mounted transformer (per pad): \$306.33

6.4 UNDERGROUND SERVICE LATERALS FROM OVERHEAD ELECTRIC DISTRIBUTION SYSTEMS

6.4.1. New Underground Service Laterals

When requested by the Applicant, the Company will install underground service laterals from overhead systems to newly constructed residential buildings containing less than five separate dwelling units.

6.4.2. Contribution by Applicant

The Applicant shall pay the Company the following differential cost between an overhead service and an underground service lateral, as follows, for buildings that do not exceed four units, townhouses, and mobile homes:

	<u>Applicant's Contribution</u>
a) per service lateral (includes service riser installation)	\$717.70

Additional charges specified in Paragraphs 6.2.10 and 6.2.11 may also apply. Underground service or secondary extensions beyond the boundaries of the property being served will be subject to additional differential costs as determined by individual cost estimates.

6.4.3. Contribution Adjustments

Credit will be allowed to the Applicant's contribution in Section 6.4.2 where, by mutual agreement, the Applicant provides trenching and backfilling for the Company's facilities or the Applicant installs Company-provided conduit per Company specifications. For buildings that do not exceed four units, townhouses, and mobile homes, this credit is:

	<u>Credit To Applicant's Contribution</u>
Trenching and backfilling, plus	
Installing conduit (2" PVC) - per foot	\$4.82
Installing conduit (Larger than 2" PVC) - per foot	\$7.20
Purchasing conduit (2" PVC) - per foot	\$0.45
Purchasing conduit (Larger than 2" PVC) - per foot	\$1.20

6.5 UNDERGROUND SERVICE LATERALS REPLACING EXISTING RESIDENTIAL OVERHEAD AND UNDERGROUND SERVICES

6.5.1. Applicability

When requested by the Applicant, the Company will install underground service laterals from existing systems as replacements for existing overhead and underground services to existing residential buildings containing less than five individual dwelling units.



PAGE	EFFECTIVE DATE
------	----------------

6.5.2 Rearrangement of Service Entrance

The Applicant shall be responsible for any necessary rearranging of his existing electric service entrance facilities to accommodate the proposed underground service lateral in accordance with the Company's specifications.

6.5.3 Trenching and Conduit Installation

The Applicant shall also provide, at no cost to the Company, a suitable trench, perform the backfilling and any landscape, pavement or other similar repairs and install Company provided conduit according to Company specifications. When requested by the Applicant and approved by the Company, the Company may supply the trench and conduit and the Applicant shall pay for this work based on a specific cost estimate. Should paving, grass, landscaping or sprinkler systems need repair or replacement during construction, the Applicant shall be responsible for restoring the paving, grass, landscaping or sprinkler systems to the original condition.

6.5.4 Contribution by Applicant

a) The charge per service lateral replacing an existing Company-owned overhead service for any density shall be:	<u>Applicant's Contribution</u>
1. Where the Company provides an underground service lateral	\$717.70
b) The charge per service lateral replacing an existing Company-owned overhead service for any density shall be:	
1. Where the service is from an overhead system:	\$811.96
2. Where the service is from an underground system:	\$1,021.14
c) The charge per service lateral replacing an existing Customer-owned underground service lateral from an overhead system for any density shall be:	\$301.06
d) The charge per service lateral replacing an existing Customer-owned underground service lateral from an underground system for any density shall be:	\$136.69

The above charges include conversion of the service lateral from the last Company pole to the meter location. Removal of any other facilities such as poles, down guys, spans of secondary, etc. will be charged based on specific cost estimates for the requested additional work.

6.6 UNDERGROUND DISTRIBUTION TO MULTIPLE-OCCUPANCY RESIDENTIAL BUILDINGS

6.6.1 Availability

After receipt of proper application and compliance by the Applicant with applicable Company rules and procedures, the Company will install underground distribution facilities within that tract of land upon which multiple-occupancy residential buildings containing five (5) or more separate dwelling units will be constructed.

6.6.2 Contribution by Applicant

When feeder mains on tracts of land upon which multiple-occupancy buildings will be constructed are deemed necessary by the Company to provide and/or maintain adequate service, an underground installation is requested by the Applicant, or required by a governmental agency having the authority so to do, the Applicant shall contribute the differential costs provided in Section 6.3.2.b) and 6.3.3.c). Service for new multiple-occupancy residential buildings will be constructed underground within the property to be



**Section No. IV
Tenth Revised Sheet No. 4.27
Canceling Ninth Revised Sheet No. 4.27**

PAGE	EFFECTIVE DATE
------	----------------

served to the point of delivery at or near the building by the Company at no charge to the Applicant (other than feeder mains), provided the Company is free to construct its service extension or extensions in the most economical manner and reasonably full use is made of the tract of land upon which the multiple-occupancy buildings will be constructed. Other conditions will require special arrangements.

6.6.3 Responsibility of Applicant

The Applicant shall, at no cost to the Company:

- a) Furnish details and specifications of the proposed building or complex of buildings. The Company will use these in the design of the electric distribution facilities required to render service.
- b) Where the Company determines that transformers are to be located outside the building, the Applicant shall provide in accordance with Company specifications:
 - 1) The space for padmounted equipment at or near the building, and protective devices for such equipment, if required.
 - 2) The service entrance conductors and raceway from the Applicant's service equipment to the point of delivery designated by the Company at or near the building.
 - 3) Conduits underneath all buildings when required for the Company's supply cables. Such conduits shall extend five feet beyond the edge of the buildings for joining to the Company's facilities.
- c) Provide proper easements, including the right of ingress and egress for the installation, operation and maintenance of the Company's facilities.
- d) Ensure that the metering enclosures are appropriately marked with the same alphabetic or numeric designation used to identify the service address. Such markings shall be of a permanent nature.

6.6.4 Responsibility of the Company

The Company will:

- a) Provide the Applicant with the Company's plans to supply the proposed building or complex of buildings, and specifications for the facilities to be provided by the Applicant.
- b) Furnish and install the primary or secondary conductors from existing or proposed facilities adjoining the property to the point of delivery, together with the ducts, if required, outside the building.
- c) Furnish and install the necessary transformers and associated equipment located outside the building.
- d) Be solely responsible for the installation, operation and maintenance of all of its facilities.

6.6.5 Service Voltages

The Company will supply service at one of the several secondary voltages available as mutually agreed upon between the Applicant and the Company.

6.6.6 Meter Sockets and Service Entrance Facilities

The Applicant shall install service entrance facilities including meter sockets or suitable facilities for installation of the Company's meters at a location suitable to the Company. Meter sockets of facilities for installation of the Company's meters shall be a type and manufacture approved by the Company.



PAGE	EFFECTIVE DATE
------	----------------

6.7 INSTALLATION OF UNDERGROUND ELECTRIC DISTRIBUTION FACILITIES FOR NEW CONSTRUCTION

This section of the tariff applies to either requests for new or upgraded facilities, or requests to convert overhead electric distribution facilities. Nothing herein shall alter the charges or provisions outlined in sections 6.3, 6.4, 6.5, or 6.6 of this tariff.

6.7.1 Definitions

Applicant – Any person, corporation, or entity capable of complying with the requirements of this tariff that has made a written request for underground electric distribution facilities in accordance with this tariff.

Conversion – Any installation of underground electric distribution facilities where the underground facilities will be substituted for existing overhead electric distribution facilities, including relocations.

DistributionSystem

Electric service facilities consisting of primary and secondary conductors, service drops, service laterals, conduits, transformers, and necessary accessories and appurtenances for the furnishing of electric power at utilization voltage.

6.7.2 Application

This tariff section applies to all requests for underground electric distribution facilities where the facilities requested will constitute new construction, other than those requests covered by sections 6.3, 6.4, .5, 6.6, and 6.8 of this tariff. Any Applicant may submit a request as follows. Requests shall be in writing and must specify in detail the proposed facilities that the Applicant desires to be installed as underground electric distribution facilities in lieu of overhead electric distribution facilities. Upon receipt of a written request the Company will determine the non-refundable deposit amount necessary to secure a binding cost estimate and notify the applicant of said amount. Where system integrity would be compromised by the delay of a system improvement due to the time allowances specified below, said time allowances shall be reduced such that all terms and conditions of this tariff must be met 30 days prior to the date that construction must begin to allow the underground facility to be completed and operable to avert a system compromise.

6.7.3 Contribution-In-Aid-of-Construction (CIAC)

Upon the payment of a non-refundable deposit by an Applicant, the Company shall prepare a binding cost estimate specifying the contribution-in-aid-of-construction (CIAC) required for the installation of the requested underground distribution facilities in addition to any CIAC required for facilities extension, where the installation of such facilities is feasible, and provide said estimate to the Applicant upon completion of the estimate along with an Agreement for Underground Electric Construction by the Utility. The CIAC may be subject to increase or refund if the project scope is enlarged or reduced at the request of the Applicant, or the CIAC is found to have a material error prior to the commencement of construction. The binding cost estimate provided to an Applicant shall be considered expired if the Applicant does not enter into an Agreement for Underground Electric Construction by the Utility and pay the CIAC amount specified for the installation of the requested underground electric distribution facilities within 180 days of delivery of the binding cost estimate to the Applicant by the Company.

The charge to be paid by the Applicant for underground facilities pursuant to the contractual agreement shall be determined as follows:

CIAC =

- + Construction costs for the underground distribution facilities, including the underground service lateral(s) to the meter(s) of the customer(s)
- + The net present value of the operating cost over the expected life of the underground facilities;
- The estimated construction cost to build new overhead facilities including the service drop(s) to the meter(s) of the customer(s)
- The net present value of the operating cost over the expected life of the overhead facilities.

6.7.4 Non-Refundable Deposits

A deposit must be paid to the Company, along with a completed copy of Application for Underground Cost Estimate in Standard Contract Forms to initiate the estimating process. The deposit will not be refundable, however, it will be applied in the calculation of the CIAC required for the installation of underground distribution facilities. The deposit and the preparation of a binding cost estimate are a prerequisite to the execution of an Agreement for Underground Electric Construction by the Utility.



**Section No. IV
Tenth Revised Sheet No. 4.27.1
Canceling Ninth Revised Sheet No. 4.27.1**

PAGE	EFFECTIVE DATE
------	----------------

If the request for underground electric distribution facilities involves less than 250 proposed trench feet then no deposit will be required for a binding cost estimate, provided, however, that all other requirements of this tariff shall still apply. Otherwise, the non-refundable deposit for a binding cost estimate, which approximates the engineering costs for underground facilities associated with preparing the requested estimate, shall be calculated as follows:

<u>Conversion</u>	
Urban Commercial	\$5,227 per overhead primary mile
Urban Residential	\$8,510 per overhead primary mile
Rural Residential	\$6,905 per overhead primary mile
210 Lot Subdivision	\$6,550 per overhead primary mile
176 Lot Subdivision	\$11,452 per overhead primary mile

6.7.5 Non-Binding Cost Estimates

An Applicant may obtain a non-binding estimate of the charges the Applicant would be obligated to pay in order for the Company to provide underground distribution facilities. This non-binding estimate will be provided to the Applicant without any charge or fee upon completion of the Application for Underground Cost Estimate set forth in Standard Contract Forms.

6.7.6 Underground Distribution Facilities Installation Agreement

Any Applicant seeking the installation of underground distribution facilities shall execute the Application for Underground Cost Estimate in Standard Contract Forms. The Agreement must be executed and the CIAC paid by the Applicant within 180 days of the delivery of the binding cost estimate to the Applicant. Failure to execute the Agreement and pay the CIAC specified in the agreement within the 180-day time limit, or termination of the Agreement, shall result in the expiration of the binding cost estimate. Any subsequent request for underground facilities will require the payment of a new deposit and the presentation of a new binding cost estimate. For good cause the Company may extend the 180-day time limit. Upon execution of the Application for Underground Cost Estimate in Standard Contract Forms, payment in full of the CIAC specified in the binding cost estimate, and compliance with the requirements of this tariff, the Company shall proceed to install the facilities identified in a timely manner.

6.7.7 Easements

Before the initiation of any project to provide underground electric distribution facilities pursuant to an Agreement for Underground Electric Construction by the Utility, the Applicant shall provide to the Company and record, at no cost to the Company, all easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, specified as necessary by the Company to accommodate the requested underground facilities along with an opinion of title that the easements are valid. Failure to provide the easements in the manner set forth above within 180 days after delivery of the binding cost estimate to the Applicant shall result in the expiration of the binding cost estimate, the return of any CIAC paid, and the termination of any Agreement for Underground Electric Construction by the Utility entered into between the Applicant and the Company. Before the Company will commence construction, those rights of way and easements, contained within the boundaries of a development for which the underground electric distribution facilities are to be installed for new service, shall be staked to show property corners, transformer locations, and survey control points, graded to within six inches of final grade, with soil stabilized, and also staked to show the final grade along the easement.

6.7.8 Early Notification and Coordination

In order for the Company to provide service when requested, it is necessary that the Applicant notify the Company during the early stages of major project planning. In matters requiring new service extensions close coordination is necessary throughout the planning and construction stages by the Company, the architect, the builder, the subcontractors and the consulting engineer to avoid delays and additional expense. Particular attention must be given to the scheduling of the construction of paved areas and the various subgrade installations of the several utilities. Failure of the Applicant to provide such notification and coordination shall result in the Applicant being responsible for any additional costs incurred by the Company as a result of said failure.



**Section No. IV
Tenth Revised Sheet No. 4.27.2
Canceling Ninth Revised Sheet No. 4.27.2**

PAGE	EFFECTIVE DATE
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6.7.9 Changes to Plans, Layout or Grade

The Applicant shall pay for any additional costs incurred by the Company due to changes in the development layout or final grade made by the Applicant subsequent to the development layout or final grade information supplied to the Company for the preparation of the binding cost estimate.

6.7.10 Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. Where construction is for the purpose of new service the Applicant shall provide accessible locations for meters when the design of a building or its appurtenances limit perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

6.7.11 Other Terms and Conditions

The Applicant agrees to the following:

- a) The Applicant shall be responsible for all restoration of, repair of, or compensation for, property affected, damaged, or destroyed, to accommodate the installation of underground distribution facilities;
- b) The Applicant shall indemnify the Company from any claim, suit, or other proceeding, which seeks the restoration of, or repair of, or compensation for, property affected, damaged, or destroyed, to accommodate the installation of underground distribution facilities arising from or brought as a result of the installation of underground distribution facilities;
- c) The Applicant shall clear easements provided to the Company of trees, tree stumps and other obstructions that conflict with construction or installation of underground distribution facilities in a timely manner consistent with the Company's construction schedule.

6.7.12 Type of System Provided

An underground distribution system will be provided in accordance with the Company's current design and construction standards.

6.7.13 Design and Ownership

The Company will design, install, own, and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service. The Applicant may, subject to a contractual agreement with the Company, construct and install all or a portion of the underground distribution facilities provided that:

- a) such work meets the Company's construction standards;
- b) the Company will own and maintain the completed distribution facilities;
- c) the construction and installation of underground distribution facilities by the Applicant is not expected to cause the general body of ratepayers to incur greater costs;
- d) the Applicant agrees to pay Company's current applicable hourly rate for engineering personnel for all time spent reviewing and inspecting the Applicants work done; and
- e) the Applicant agrees to rectify any deficiencies found by the Company prior to the connection of any customers to the underground electric distribution system or the connection of the underground electric distribution facilities to the Company's distribution system. Furthermore, the deficiencies must be corrected in a timely manner or the Company shall perform the construction using overhead facilities and the Applicant will be responsible for paying the cost of installing the overhead facilities and the cost of their removal before the corrected underground facilities will be connected.

6.7.14 Meter Sockets and Service Entrance Facilities

The Applicant shall install service entrance facilities including meter sockets or suitable facilities for installation of the Company's meters at a location suitable to the Company. Meter sockets or facilities for installation of the Company's meters shall be of a type and manufacture approved by the Company.

ISSUED BY: Tiffany Cohen



PAGE	EFFECTIVE DATE
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6.8 INSTALLATION OF UNDERGROUND ELECTRIC DISTRIBUTION FACILITIES FOR THE CONVERSION OF OVERHEAD ELECTRIC DISTRIBUTION FACILITIES

6.8.1 Definitions

Applicant – Any person, corporation, or entity capable of complying with the requirements of this tariff that has made a written request for underground electric distribution facilities in accordance with this tariff.

Conversion – Any installation of underground electric distribution facilities where the underground facilities will be substituted for existing overhead electric distribution facilities, including relocations.

Distribution System

Electric service facilities consisting of primary and secondary conductors, service drops, service laterals, conduits, transformers, and necessary accessories and appurtenances for the furnishing of electric power at utilization voltage.

6.8.2 Application

This tariff section applies to all requests for underground electric distribution facilities where the facilities requested will be substituted for existing overhead electric distribution facilities. Any person, corporation, or entity capable of complying with the requirements of this tariff may submit a request as follows. Requests shall be in writing and must specify in detail the overhead electric distribution facilities to be converted or the area to be served by underground electric distribution facilities in lieu of presently existing overhead electric distribution facilities serving said area. Upon receipt of a written request, the Company will determine the feasibility of converting the existing facilities, any necessary revisions to this written request, and the non-refundable deposit amount necessary to secure a binding cost estimate and notify the applicant of said amount. In addition, in order for the Company to take action pursuant to a request for conversion:

- (1) the conversion area must be at least two contiguous city blocks or 1,000 feet in length;
- (2) all electric services on both sides of the existing overhead primary lines must be part of the conversion; and
- (3) all other existing overhead utility facilities (e.g. telephone, CATV, etc.) must also be converted to underground facilities.

6.8.3 Contribution-In-Aid-of-Construction (CIAC)

Upon the payment of a non-refundable deposit by an Applicant, the Company shall prepare a binding cost estimate specifying the contribution in aid of construction (CIAC) required for the installation of the requested underground distribution facilities, where the installation of such facilities is feasible, and provide said estimate to the Applicant upon completion of the estimate along with an Application for Underground Service in an Overhead Area. The CIAC amount to be collected pursuant to a binding cost estimate from an Applicant shall not be increased by more than 10 percent of the binding cost estimate to account for actual costs incurred in excess of the binding cost estimate. However, the CIAC may be subject to increase or refund if the project scope is enlarged or reduced at the request of the Applicant, or the CIAC is found to have a material error prior to the commencement of construction. The binding cost estimate provided to an Applicant shall be considered expired if the Applicant does not enter into an Application for Underground Service in an Overhead Area. and pay the CIAC amount specified for the installation of the requested underground electric distribution facilities within 180 days of delivery of the binding cost estimate to the Applicant by the Company.

The CIAC to be paid by an Applicant under this section of the tariff shall be the result of the following formula:

$$\begin{aligned} \text{CIAC} = & \\ & + \text{The estimated cost to install the requested underground facilities;} \\ & + \text{The estimated cost to remove the existing overhead facilities;} \\ & + \text{The net book value of the existing overhead facilities;} \\ & - \text{The estimated cost that would be incurred to install new overhead facilities, in lieu of underground,} \\ & \quad \text{to replace the existing overhead facilities} \\ & - \text{The estimated salvage value of the existing overhead facilities to be removed} \\ & + \text{The 30-year net present value of the estimated underground versus overhead operational costs} \\ & \quad \text{differential} \end{aligned}$$



PAGE	EFFECTIVE DATE
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6.8.4 Non-Refundable Deposits

A deposit must be paid to the Company, along with a completed copy of Application for Underground Cost Estimate in Standard Contract Forms to initiate the estimating process. The deposit will not be refundable, however, it will be applied in the calculation of the CIAC required for the installation of underground distribution facilities. The deposit and the preparation of a binding cost estimate are a prerequisite to the execution of an Agreement for Underground Electric Construction by the Utility. If the request for underground electric distribution facilities involves less than 250 proposed trench feet then no deposit will be required for a binding cost estimate, provided, however, that all other requirements of this tariff shall still apply. Otherwise, the non-refundable deposit for a binding cost estimate, which approximates the engineering costs for underground facilities associated with preparing the requested estimate, shall be calculated as follows:

Conversion	
Urban Commercial	\$5,227 per overhead primary mile
Urban Residential	\$8,510 per overhead primary mile
Rural Residential	\$6,905 per overhead primary mile
210 Lot Subdivision	\$6,550 per overhead primary mile
176 Lot Subdivision	\$11,452 per overhead primary mile

6.8.5 Non-Binding Cost Estimates

Any person, corporation, or entity may request a non-binding cost estimate free of charge. The non-binding cost estimate shall be an order of magnitude estimate to assist the requestor in determining whether to go forward with a binding cost estimate. An Underground Facilities Conversion Agreement may not be executed on the basis of a non-binding cost estimate.

6.8.6 Underground Facilities Conversion Agreement

Any Applicant seeking the installation of underground distribution facilities pursuant to a written request hereunder shall execute the Agreement for Underground Construction Standards set forth in Standard Contract Forms. Failure to execute said agreement within 180 days after the delivery by the Company of a binding cost estimate shall result in forfeiture of the deposit made. Any subsequent request for underground facilities will require the payment of a new deposit and the presentation of a new binding cost estimate. For good cause Gulf may extend the 180-day time limit. Upon execution of the Agreement for Underground Construction Standards, payment in full of the differential cost specified in the binding cost estimate, and compliance with the requirements of this tariff, the Company shall proceed to install the facilities identified in a timely manner. However, new service extensions, maintenance and reliability projects, and service restorations shall take precedence over facilities conversions.

6.8.7 Simultaneous Conversion of Other Pole Licensees

As a condition precedent to the conversion of any overhead distribution facilities, the Company may require that the Applicant obtain executed agreements with all affected pole licensees (e.g. telephone, cable TV, etc.) for the simultaneous conversion of those pole licensees' facilities and provide Gulf with a copy of the Agreement(s). Such agreements shall specifically acknowledge that the affected pole licensee will coordinate the conversion with Gulf and other licensees in a timely manner so as to not create unnecessary delays. Failure to present to Gulf Power Company executed copies of any necessary agreements with affected pole licensees within 180 days after delivery of the binding cost agreement to the Applicant shall result in forfeiture of the deposit paid for the binding cost estimate, the return of any differential cost paid for the binding cost estimate, the return of any differential cost paid less any actual cost incurred, and the termination of any Agreement For Underground Construction Standards entered into between the Applicant and Gulf Power Company.

6.8.8 Easements

Before the initiation of any project to provide underground electric distribution facilities pursuant to an Agreement for Underground Electric Construction by the Utility, the Applicant shall provide to the Company and record, at no cost to the Company, all easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, specified as necessary by the Company to accommodate the requested underground facilities along with an opinion of title that the easements are valid. Failure to provide the easements in the manner set forth



PAGE	EFFECTIVE DATE
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above within 180 days after delivery of the binding cost estimate to the Applicant shall result in the expiration of the binding cost estimate, the return of any CIAC paid, and the termination of any Agreement for Underground Electric Construction by the Utility entered into between the Applicant and the Company. Before the Company will commence construction, those rights of way and easements, contained within the boundaries of a development for which the underground electric distribution facilities are to be installed for new service, shall be staked to show property corners, transformer locations, and survey control points, graded to within six inches of final grade, with soil stabilized, and also staked to show the final grade along the easement.

6.8.9 Affected Customer Services

The Applicant shall be responsible for the costs associated with any modifications to the service facilities of customers affected by the conversion of the Company's distribution facilities which are made necessary as a result of the conversion. The Applicant shall be responsible for arranging the conversion of affected residential overhead customer service facilities by providing, at no cost to the Company:

- a) any necessary rearranging of the customer's existing electric service entrance facilities to accommodate an underground service lateral through the use of a licensed electrical contractor, in accordance with all local ordinances, codes, and Company specifications; and
- b) a suitable trench, install Company provided conduit according to Company specifications to a point designated by the Company, and perform the backfilling and any landscape, pavement or other similar repairs

The Company shall be responsible for the installation of the service lateral cable, the cost of which shall be included in the Applicant's binding cost estimate. In the event a customer does not allow the Applicant to convert the customer's affected overhead services, or the Applicant fails to comply with the above requirements in a timely manner consistent with the Company's conversion construction schedule, then the Applicant shall pay the Company, in addition to the CIAC specified in the binding cost estimate, the costs associated with maintaining service to said customer through an overhead service drop. The cost for maintaining an overhead service drop from an underground system shall be:

- a) the sum of \$717.70 for residential dwellings containing less than five individual units; or,
- b) the estimated cost to maintain service for residential dwellings containing five or more units.

For existing residential underground service laterals affected by a conversion the Applicant shall be responsible for the trenching, backfilling and any landscape, pavement or other similar repairs and installation of Company provided conduit, according to Company specifications, necessary to bring existing underground service laterals of affected customers to a Company designated pedestal or transformer. The Company will install the necessary cable, the cost of which shall be included in the binding cost estimate. However, in the event that a customer owned service lateral fails on connection to the underground distribution system the customer will be responsible for the replacement of their service lateral or compliance with section 6.5 of the Company's tariff.

The Applicant's responsibilities for modifications to the service facilities of non-residential customers affected by the conversion of the Company's distribution facilities which are made necessary as a result of the conversion will be specified in an attachment to any Application for Underground Service in an Overhead Area.

6.8.10 Other Terms and Conditions

The Applicant agrees to the following:

- a) The Applicant shall be responsible for all restoration of, repair of, or compensation for, property affected, damaged, or destroyed, to accommodate the installation of underground distribution facilities and the remove of the Company's overhead distribution facilities;



**Section No. IV
Twelfth Revised Sheet No. 4.28.1
Canceling Eleventh Revised Sheet No. 4.28.1**

PAGE	EFFECTIVE DATE
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- b) The Applicant shall indemnify the Company from any claim, suit, or other proceeding, which seeks the restoration of, or repair of, or compensation for, property affected, damaged, or destroyed, to remove existing facilities or to accommodate the installation of underground distribution facilities arising from or brought as a result of the installation of underground distribution facilities;
- c) The Applicant shall clear easements provided to the Company of trees, tree stumps and other obstructions that conflict with construction or installation of underground distribution facilities in a timely manner consistent with the Company's construction schedule.

6.8.11 Type of System Provided

An underground distribution system will be provided in accordance with the Company's current design and construction standards.

6.8.12 Design and Ownership

The Company will design, install, own, and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service. The Applicant may, subject to a contractual agreement with the Company, construct and install all or a portion of the underground distribution facilities provided that:

- a) such work meets the Company's construction standards;
- b) the Company will own and maintain the completed distribution facilities;
- c) the construction and installation of underground distribution facilities by the Applicant is not expected to cause the general body of ratepayers to incur greater costs;
- d) the Applicant agrees to pay Company's current applicable hourly rate for engineering personnel for all time spent reviewing and inspecting the Applicants work done; and
- e) the Applicant agrees to rectify any deficiencies found by the Company prior to the connection of any customers to the underground electric distribution system or the connection of the underground electric distribution facilities to the Company's distribution system.

6.8.13 Relocation

Where underground electric facilities are requested as part of, or for the purpose of, relocation, the requirements of this tariff shall apply. As applicable, the company's Application for Underground Service in an Overhead Area (form 10, under Standard Contract forms) shall be executed as an addendum to the relocation agreement between the Company and the Applicant. In the event of any conflict between the relocation agreement and this tariff, the tariff shall control. Furthermore, where the regulations of the Federal or State Department of Transportation (DOT) prevent pre-payment of deposits and other conversion costs, the Federal or State DOT may pay the CIAC after the work has been performed.

APPENDIX URD 2

APPENDIX URD NO. 2

Explanation of Proposed Revisions

This Appendix summarizes proposed revisions to the Rules and Regulations included in Section 4 (and applicable forms) of Gulf's Rules and Regulations for Electric Service. The basis for Gulf's proposed tariff charges for underground installations can be found in Appendix No. 3.

In 2020, Gulf has reformatted its URD tariff to expand customer options and has incorporated new design/construction standards.

- 1) Provided standard charges for common facilities, such as new or upgraded services.
- 2) Provided standard credits for customer work (trenching, installing conduit, etc.) to allow more flexibility and opportunity to reduce CIAC (contribution-in-aid-of-construction) costs by performing portions of undergrounding work.
- 3) Upgraded transformers from mild steel to stainless steel, in line with new standards.
- 4) Upgraded pole sizes on overhead job designs as needed to meet EWL (extreme wind loading) construction design requirements, in line with Gulf's new standard overhead construction requirements as part of its storm hardening initiatives.
- 5) Added ALS (TripSavers) to overhead subdivision job designs as the protective device, instead of a standard fuse cutout, in line with Gulf's new protection standards.
- 6) Upgraded overhead primary materials to higher BIL materials (previously used in coastal areas) in line with improved construction standards.
- 7) Reduced the minimum number of buildings per acre required to qualify for Low Density subdivision per lot pricing from 1.5 to 0.5, with the intention of promoting the undergrounding of new facilities.

APPENDIX URD 3

**APPENDIX URD NO. 3
BASIS FOR UNDERGROUND RESIDENTIAL
DISTRIBUTION DIFFERENTIAL**

New Underground Subdivision with Overhead Feeder Mains.

The average differential costs for Underground Residential Distribution (URD) stated in the Gulf Power Tariff were derived from cost estimates of underground facilities and their equivalent overhead designs. The high density subdivision used for these estimates was developed by the group of Florida Electric Utilities in response to Florida Public Service Commission Orders No. 6031 and 6031-B. The low density subdivision was also developed by the group of Florida Electric Utilities and was approved by Florida Public Service Commission Order No. PSC-96-0026-FOF-EI. They represent average conditions in Florida Subdivisions. Densities range from 0.5 to 6.0 lots per acre for low density subdivisions. The low density subdivision contains 210 lots; the high density subdivision 176 lots. Differential cost estimates were made from engineering layouts of underground and overhead facilities. These Included primary laterals, transformers, secondary lines and services, but not three phase feeders. These estimates employed standard Company design and estimating practices and the system-wide unit cost for labor and material which were in use at the end of 2019.

The post-operational cost differentials for low density and high density reflect the net present value of operational costs, including average historical storm restoration, as contemplated by Rule 25-6.078(4), F.A.C. Gulf continues to provide combined operational costs differential including non-storm and storm costs and apply them at the same rate to projects of various sizes.

<u>Low Density</u>	<u>Cost Differential</u>	
Pre-Operational Cost	\$559.80	
Non-Storm Operational Cost / Lot	\$816.00	
Storm Operational Cost / Lot	(\$9,480)	
Post-Operational Cost	\$0.00	Note 1
<u>High Density</u>		
Pre-Operational Cost	\$345.76	
Non-Storm Operational Cost / Lot	\$599.00	
Storm Operational Cost / Lot	(\$9,376)	
Post-Operational Cost	\$0.00	Note 1

Note 1: Where the "Post-Operational" Costs are negative the differentials have been set to \$0.

6.4 Underground Service Laterals from Overhead Electric Distribution Systems

Service lateral costs are included in the differential costs previously stated. The costs of service laterals were estimated separately to determine the differential cost between a standard overhead service and a similar length underground service from an overhead line. This differential cost was calculated by added the service lateral cost to the pole-conduit terminal cost.

Service Lateral Differential Cost	\$553.33
Riser Cost	\$164.37
Total Cost	\$717.70
Service Lateral Differential Cost from an Existing UG Source	\$553.33

6.5 Underground Service Laterals Replacing Existing Residential Overhead and Underground Services

Costs were also estimated for replacing existing services with underground service laterals. These costs were based on the applicant providing the trench because of the wide variations in the cost of excavating established, landscaped areas. Additional costs are associated with removal and premature retirement of existing services. Accordingly, adjustments were made to the cost of a new service lateral by adding the costs involved with the retirement of an existing service drop and subtracting trenching costs. The costs were estimated to be:

A. Cost per service lateral to replace Company-owned overhead service:

Underground Service Lateral Cost	\$717.70
Less Trenching Credit	(\$79.39)
Less Conduit Installation Credit	(\$337.25)
Remaining Value of Existing Service	\$286.03
Removal Cost of Existing Service	\$61.56
Salvage	\$163.31
Total Cost	\$811.96

B. Cost per service lateral to replace Company-owned underground service:

Underground Service Lateral Cost	\$553.33
Less Trenching Credit	(\$79.39)
Less Conduit Installation Credit	(\$337.25)
Remaining Value of Existing Service	\$721.14
Removal Cost of Existing Service	\$161.31
Salvage	\$0
Total Cost	\$1,021.14

C. Cost per service lateral to replace Customer-owned overhead service:

Underground Service Lateral Cost	\$553.33
Pole-conduit cost	\$164.43
Less Trenching Credit	(\$79.39)
Less Conduit Installation Credit	(\$337.25)
Total Cost	\$301.06

D. Cost per service lateral to replace Customer-owned underground service:

Underground Service Lateral Cost	\$553.33
Less Trenching Credit	(\$79.39)
Less Conduit Installation Credit	(\$337.25)
Total Cost	\$136.69

APPENDIX URD 4

LOW DENSITY

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
Low Density 210 Lot Subdivision
Cost per Service Lateral

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$1,105.70	\$1,402.85	\$297.15
MATERIAL	\$1,414.82	\$1,677.47	\$262.65
TOTAL (1)	\$2,520.52	\$3,080.32	\$559.80

(1) Does not include storm or operational costs

OVERHEAD MATERIAL AND LABOR
Low Density 210 Lot Subdivision

ITEM	MATERIAL (1)	LABOR(4)	TOTAL
SERVICE(2)	\$142.56	\$63.10	\$205.66
PRIMARY	\$242.89	\$170.41	\$413.30
SECONDARY	\$11.59	\$8.86	\$20.45
INITIAL TREE TRIM	\$0.00	\$186.39	\$186.39
POLES	\$137.04	\$179.69	\$316.73
TRANSFORMERS	\$342.19	\$147.43	\$489.62
SUBTOTAL WITHOUT STORES	\$876.27	\$755.88	\$1,632.15
STORES (3)	\$90.93	-----	\$90.93
SUBTOTAL WITH STORES	\$967.20	\$755.88	\$1,723.08
ENGINEERING (5)	\$447.62	\$349.82	\$797.44
TOTAL(6)	\$1,414.82	\$1,105.70	\$2,520.52

(1) INCLUDES SALES TAX

(2) INCLUDES METERS

(3) 11.4% OF ALL MATERIAL

(4) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(5) 46.28% OF ALL MATERIAL AND LABOR

(6) DOES NOT INCLUDE STORM OR OPERATIONAL COSTS

UNDERGROUND MATERIAL AND LABOR

Low Density 210 Lot Subdivision

<u>ITEM</u>	<u>MATERIAL (1)</u>	<u>LABOR(4)</u>	<u>TOTAL</u>
SERVICE(2)	\$170.44	\$186.88	\$357.32
PRIMARY	\$376.45	\$160.87	\$537.32
SECONDARY	\$57.33	\$23.45	\$80.78
TRANSFORMERS	\$425.18	\$105.30	\$530.48
TRENCHING	\$0.00	\$482.52	\$482.52
SUBTOTAL WITHOUT STORES	\$1,029.40	\$959.02	\$1,988.42
STORES(3)	\$117.35	-----	\$117.35
SUBTOTAL WITH STORES	\$1,146.75	\$959.02	\$2,105.77
ENGINEERING(5)	\$530.72	\$443.83	\$974.55
TOTAL(6)	\$1,677.47	\$1,402.85	\$3,080.32

(1) INCLUDES SALES TAX

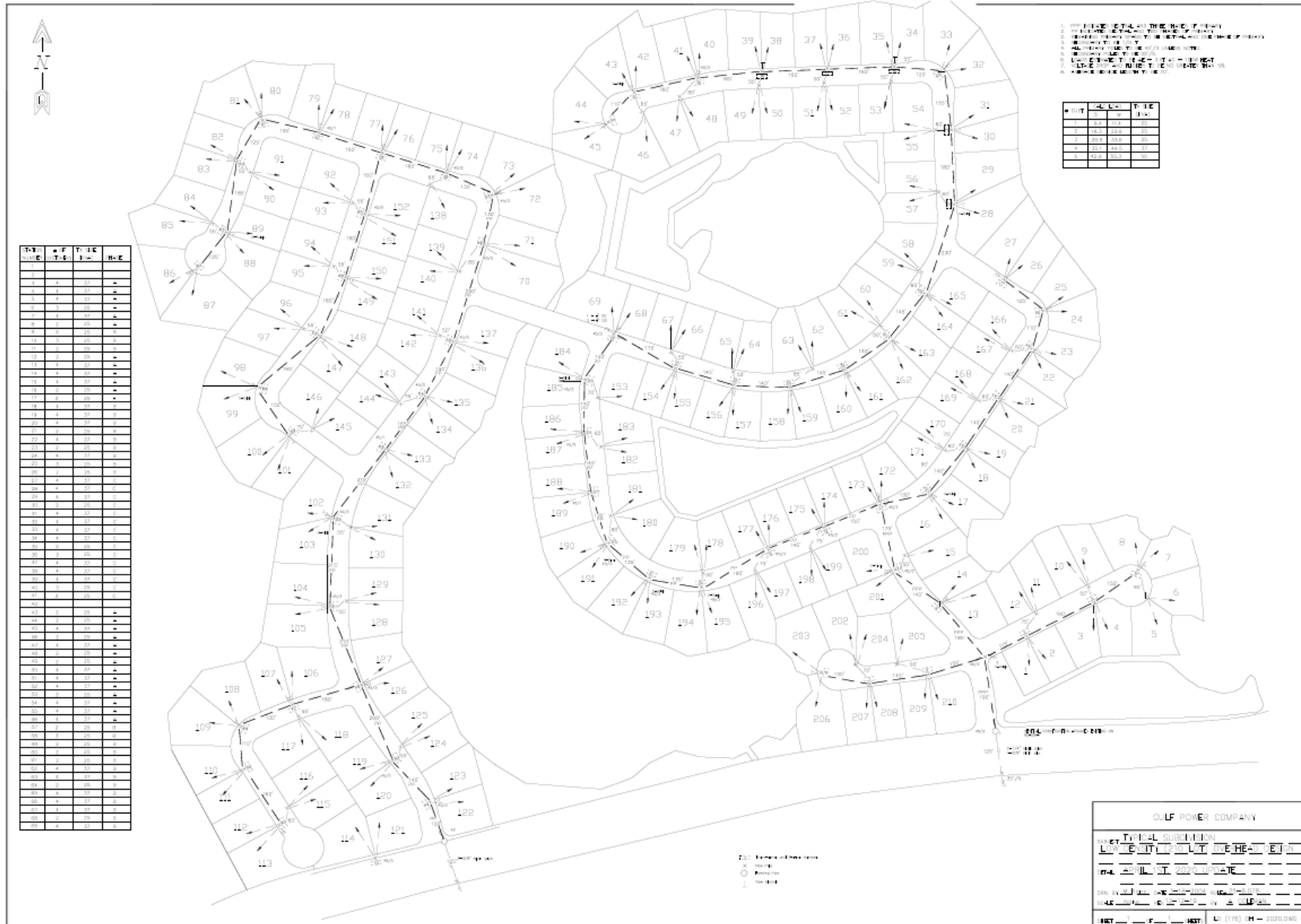
(2) INCLUDES METERS

(3) 11.4% OF ALL MATERIAL

(4) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(5) 46.28% OF ALL MATERIAL AND LABOR

(6) DOES NOT INCLUDE STORM OR OPERATIONAL COSTS



1. THIS DRAWING IS THE FINAL DESIGN.
2. NO CHANGES WILL BE MADE TO THIS DESIGN.
3. THE DESIGNER IS NOT RESPONSIBLE FOR THE WORK OF OTHERS.
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211	1	1	1/1/20

GULF POWER COMPANY

SUBSTATION

LOW VOLT BUS BAR CONNECTION

REV. 1.0 2020/04/01

DATE: 2020/04/01

BY: [Signature]

CHECKED: [Signature]

SCALE: 1:1

SHEET: 1 OF 1

PROJECT: [Project Name]

DRAWING NO: [Drawing No]

DATE: 2020/04/01

GULF

4/1/2020

2020 OH LOW DENSITY LAYOUT

WR Number: 9204296

NUMBER OF LOTS = 210
 MECA STORES LOG% = 7.00%
 ACTUAL STORES LOG% = 11.40%
 ACTUAL EO = 46.82%

<u>CLASSIFICATION</u>	<u>MATERIAL</u>	<u>MATERIAL COST/LOT</u>	<u>TOTAL LABOR</u>	<u>LABOR COST/LOT</u>	<u>LABOR & MATERIAL</u>
Meters.....	-	-	\$2,990.50	-	-
Meter Cost (Material).....	\$16,516.50	\$78.65	-	-	-
Services.....	\$14,360.58	-	\$10,260.13	-	-
SUBTOTAL W/OUT STORES LDG.....	\$29,937.60	\$142.56	\$13,250.63	\$63.10	\$205.66
Primary & Primary Materials.....	\$36,972.85	-	\$34,493.78	-	-
Protective Devices.....	\$17,604.55	-	\$1,291.54	-	-
SUBTOTAL W/OUT STORES LDG.....	\$51,006.91	\$242.89	\$35,785.32	\$170.41	\$413.30
Secondary.....	\$2,603.59	-	\$1,860.17	-	-
SUBTOTAL W/OUT STORES LDG.....	\$2,433.26	\$11.59	\$1,860.17	\$8.86	\$20.45
Tree Trim (Labor).....	-	-	\$39,141.93	\$186.39	-
Poles.....	\$23,111.36	-	\$23,976.48	-	-
Guys & Anchors.....	\$7,680.56	-	\$13,758.11	-	-
SUBTOTAL W/OUT STORES LDG.....	\$28,777.50	\$137.04	\$37,734.59	\$179.69	\$316.73
Transformers.....	\$69,865.74	-	\$16,267.02	-	-
Grounds.....	\$7,023.51	-	\$14,692.86	-	-
SUBTOTAL W/OUT STORES LDG.....	\$71,859.11	\$342.19	\$30,959.88	\$147.43	\$489.62
SUB-TOTAL	\$184,014.38	\$876.27	\$158,732.52	\$755.88	\$1,632.15
MATERIAL SUBTOTAL MINUS METER MATERIAL	-	\$797.62	-	-	-
STORES LDG. %	-	11.40%	-	-	-
TOTAL STORES LDG \$	-	\$90.93	-	-	\$90.93
SUBTOTAL	-	\$967.20	-	\$755.88	\$1,723.08
EO	-	\$447.62	-	\$349.82	\$797.44
TOTAL	-	\$1,414.82	-	\$1,105.70	\$2,520.52

GULF

4/1/2020

2020 UG LOW DENSITY LAYOUT

WR Number: 9044956

NUMBER OF LOTS = 210
 MECA STORES LOG% = 7.00%
 ACTUAL STORES LOG% = 11.40%
 ACTUAL EO = 46.82%

<u>CLASSIFICATION</u>	<u>MATERIAL</u>	<u>MATERIAL COST/LOT</u>	<u>TOTAL LABOR</u>	<u>LABOR COST/LOT</u>	<u>LABOR & MATERIAL</u>
Meters.....	-	-	\$2,990.50	-	-
Meter Cost (Material).....	\$16,516.50	\$78.65	-	-	-
Services.....	\$20,626.17	-	\$36,254.86	-	-
SUBTOTAL W/OUT STORES LDG.....	\$35,793.29	\$170.44	\$39,245.36	\$186.88	\$357.32
Duct.....	\$31,297.83	-	-	-	-
Primary and Primary Materials	\$48,409.61	-	\$23,560.55	-	-
Grounds	\$4,881.25	-	\$10,211.15	-	-
SUBTOTAL W/OUT STORES LDG.....	\$79,054.85	\$376.45	\$33,781.70	\$160.87	\$537.32
Secondary.....	\$12,881.86	-	\$4,924.27	-	-
SUBTOTAL W/OUT STORES LDG.....	\$12,039.12	\$57.33	\$4,924.27	\$23.45	\$80.78
Transformers.....	\$87,315.31	-	\$15,066.44	-	-
Transformer Pads	\$8,222.69	-	\$7,046.54	-	-
SUBTOTAL W/OUT STORES LDG.....	\$89,287.85	\$425.18	\$22,112.98	\$105.30	\$530.48
Trenching & Installing Duct	-	-	\$101,328.91	\$482.52	-
SUB-TOTAL	\$216,175.11	\$1,029.40	\$201,393.22	\$959.02	\$1,988.42
MATERIAL SUBTOTAL MINUS METER MATERIAL	-	\$950.75	-	-	-
STORES LDG. %	-	11.40%	-	-	-
TOTAL STORES LDG \$	-	\$117.35	-	-	\$117.35
SUBTOTAL	-	\$1,146.75	-	\$959.02	\$2,105.77
EO	-	\$530.72	-	\$443.83	\$974.55
TOTAL	-	\$1,677.47	-	\$1,402.85	\$3,080.32

OPERATIONAL COSTS DIFFERENTIAL – LOW DENSITY

	<u>30-Year NPV (\$ per pole-line mile)</u>			
<u>Low Density</u>	<u>O&M</u>	<u>Capital</u>	<u>Total</u>	<u>Cost per lot</u>
Cost Differential (Non-Storm)	(\$20,939)	\$93,357	\$72,418	\$816
Avoided Storm Restoration Costs	(\$281,735)		(\$281,735)	(\$3,173)
Pre-Operational Cost ¹				\$559.80
Post-Operational Cost ¹				\$0.00

Note 1: Where the costs are negative, the differentials have been set to \$0.

HIGH DENSITY

OVERHEAD VS. UNDERGROUND SUMMARY SHEET**High Density 176 Lot Subdivision****Cost per Service Lateral**

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$855.85	\$1,055.21	\$199.36
MATERIAL	\$1,219.62	\$1,366.02	\$146.40
TOTAL (1)	\$2,075.47	\$2,421.23	\$345.76

(1) Does not include storm or operational costs

OVERHEAD MATERIAL AND LABOR
High Density 176 Lot Subdivision

ITEM	MATERIAL (1)	LABOR(4)	TOTAL
SERVICE(2)	\$124.30	\$49.14	\$173.44
PRIMARY	\$151.53	\$129.29	\$280.82
SECONDARY	\$12.93	\$9.88	\$22.81
POLES	\$0.00	\$117.21	\$117.21
INITIAL TREE TRIM	\$120.80	\$162.09	\$282.89
TRANSFORMERS	\$338.89	\$117.46	\$456.35
SUBTOTAL WITHOUT STORES	\$748.45	\$467.86	\$1,333.52
STORES (3)	\$85.32	-----	\$85.32
SUBTOTAL WITH STORES	\$833.77	\$467.86	\$1,418.84
ENGINEERING (5)	\$385.87	\$270.77	\$656.64
TOTAL(6)	\$1,219.64	\$738.63	\$2,075.48

(1) INCLUDES SALES TAX

(2) INCLUDES METERS

(3) 11.4% OF ALL MATERIAL

(4) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(5) 46.28% OF ALL MATERIAL AND LABOR

(6) DOES NOT INCLUDE STORM OR OPERATIONAL COSTS

UNDERGROUND MATERIAL AND LABOR
High Density 176 Lot Subdivision

ITEM	MATERIAL (1)	LABOR(4)	TOTAL
SERVICE(2)	\$148.55	\$102.12	\$250.67
PRIMARY	\$255.24	\$120.60	\$375.84
SECONDARY	\$74.94	\$31.10	\$106.04
TRANSFORMERS	\$359.55	\$62.82	\$422.37
TRENCHING	-----	\$404.72	\$404.72
SUBTOTAL WITHOUT STORES	\$838.28	\$721.36	\$1,559.64
STORES(3)	\$95.56	-----	\$95.56
SUBTOTAL WITH STORES	\$933.84	\$721.36	\$1,655.20
ENGINEERING(5)	\$432.18	\$333.85	\$766.03
TOTAL(6)	\$1,366.02	\$1,055.21	\$2,421.23

(1) INCLUDES SALES TAX

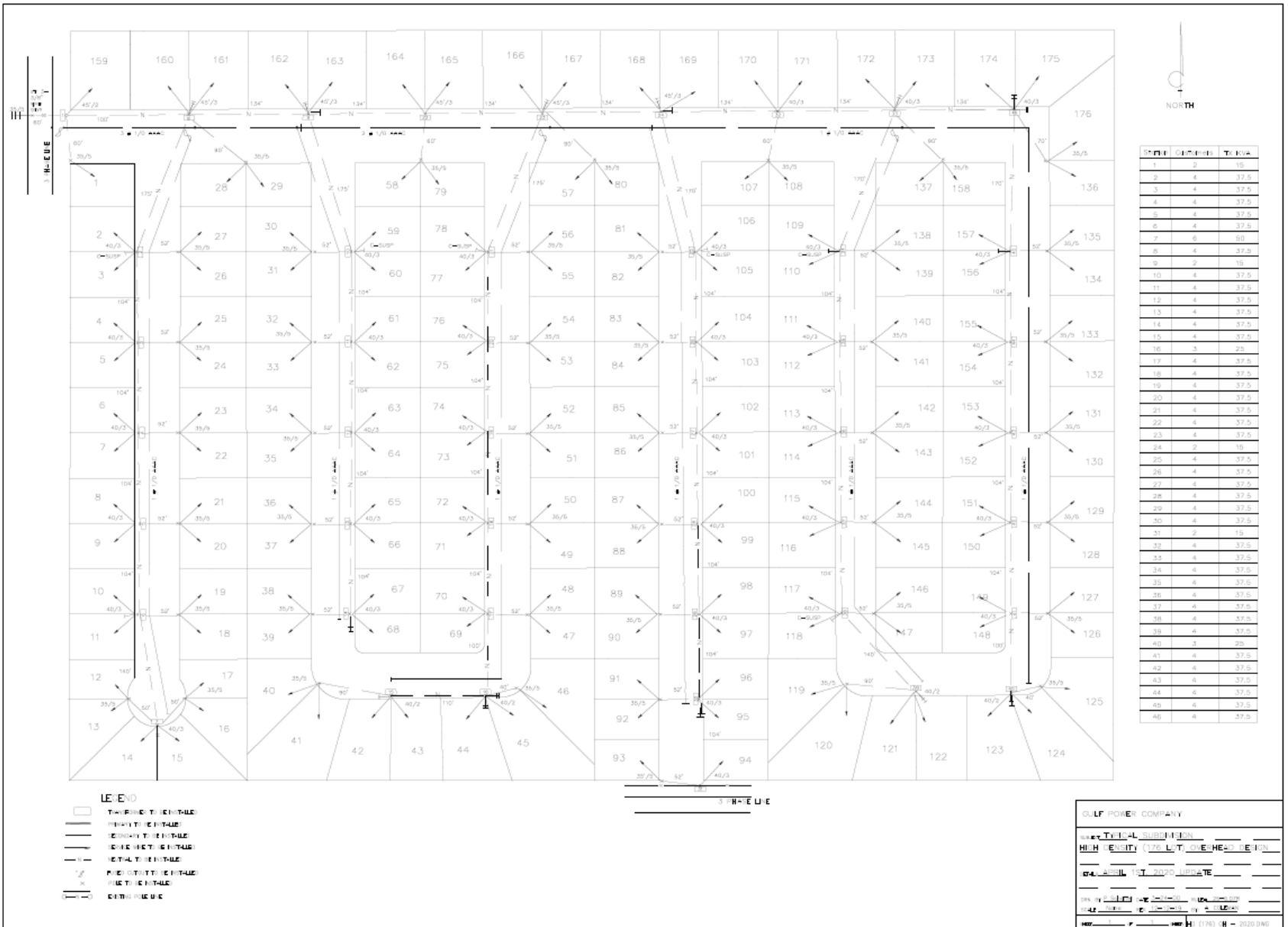
(2) INCLUDES METERS

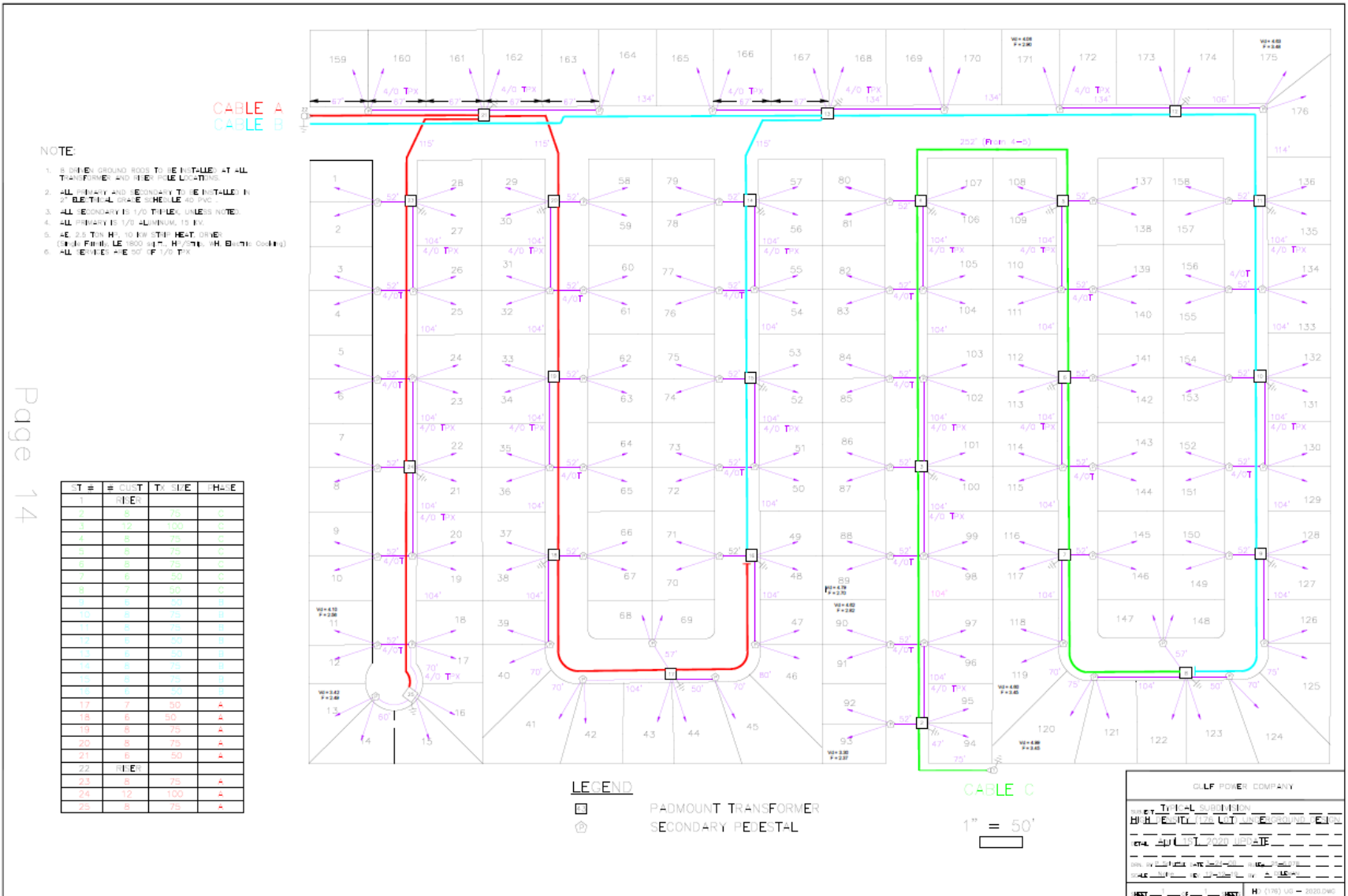
(3) 11.4% OF ALL MATERIAL

(4) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(5) 46.28% OF ALL MATERIAL AND LABOR

(6) DOES NOT INCLUDE STORM OR OPERATIONAL COSTS





NOTE

1. 8 INCHES GROUND RODS TO BE INSTALLED AT ALL TRANSFORMER AND RISER POLE LOCATIONS.
2. ALL PRIMARY AND SECONDARY TO BE INSTALLED IN 2" RIGID PVC CONDUIT UNLESS NOTED OTHERWISE.
3. ALL SECONDARY IS 1/2" THINLIES UNLESS NOTED.
4. ALL PRIMARY IS 1/2" ALUMINUM 15 BK.
5. 4E 2.5 TON HV 10 KW STAIR HEAT DRIVER (DRIVE FROM LE 1900 @ 115' H/250' @ H 2500 @ 115').
6. ALL VENTILATION IS 50' IF 1/2" TPK.

Page 14

RT #	#	COUNT	TYPE	SIZE	HAZ
1	1	1	1	1	1
2	1	1	1	1	1
3	1	1	1	1	1
4	1	1	1	1	1
5	1	1	1	1	1
6	1	1	1	1	1
7	1	1	1	1	1
8	1	1	1	1	1
9	1	1	1	1	1
10	1	1	1	1	1
11	1	1	1	1	1
12	1	1	1	1	1
13	1	1	1	1	1
14	1	1	1	1	1
15	1	1	1	1	1
16	1	1	1	1	1
17	7	30			A
18	6	30			A
19	6	75			A
20	6	75			A
21	6	90			A
22	1	1	1	1	1
23	6	75			A
24	12	150			A
25	6	75			A

LEGEND

- PADMOUNT TRANSFORMER
- ⊗ SECONDARY PEDESTAL

CABLE C

1" = 50'

GULF POWER COMPANY	
PROJECT	TRAIL SUBSTATION
DATE	4/1/2020
SCALE	1" = 50'
BY	...
CHECKED	...
DATE	...
PROJECT	TRAIL SUBSTATION
DATE	4/1/2020
SCALE	1" = 50'
BY	...
CHECKED	...
DATE	...

GULF

4/1/2020

2020 OH HIGH DENSITY LAYOUT

WR Number: 9042338

NUMBER OF LOTS = 176
 MECA STORES LOG% = 7.00%
 ACTUAL STORES LOG% = 11.40%
 ACTUAL EO = 46.82%

<u>CLASSIFICATION</u>	<u>MATERIAL</u>	<u>MATERIAL COST/LOT</u>	<u>TOTAL LABOR</u>	<u>LABOR COST/LOT</u>	<u>LABOR & MATERIAL</u>
Meters.....	-	-	\$2,506.33	-	-
Meter Cost (Material).....	\$13,842.40	\$78.65	-	-	-
Services.....	\$8,596.81	-	\$6,142.12	-	-
SUBTOTAL W/OUT STORES LDG.....	\$21,876.80	\$124.30	\$8,648.45	\$49.14	\$173.44
Primary & Primary Materials.....	\$18,027.98	-	\$21,992.21	-	-
Protective Devices.....	\$10,508.32	-	\$763.17	-	-
SUBTOTAL W/OUT STORES LDG.....	\$26,669.44	\$151.53	\$22,755.38	\$129.29	\$280.82
Secondary.....	\$2,434.46	-	\$1,739.24	-	-
SUBTOTAL W/OUT STORES LDG.....	\$2,275.20	\$12.93	\$1,739.24	\$9.88	\$22.81
Tree Trim (Labor).....	-	-	\$20,628.86	\$117.21	-
Poles.....	\$16,358.80	-	\$18,928.80	-	-
Guys & Anchors.....	\$6,389.76	-	\$9,599.64	-	-
SUBTOTAL W/OUT STORES LDG.....	\$21,260.34	\$120.80	\$28,528.44	\$162.09	\$282.89
Transformers.....	\$59,239.00	-	\$11,091.15	-	-
Grounds.....	\$4,580.55	-	\$9,582.30	-	-
SUBTOTAL W/OUT STORES LDG.....	\$59,644.44	\$338.89	\$20,673.45	\$117.46	\$456.35
SUB-TOTAL.....	\$131,726.22	\$748.45	\$102,973.82	\$585.07	\$1,333.52
MATERIAL SUBTOTAL MINUS METER MATERIAL.....	-	\$748.45	-	-	-
STORES LDG. %.....	-	11.40%	-	-	-
TOTAL STORES LDG \$.....	-	\$85.32	-	-	\$85.32
SUBTOTAL.....	-	\$833.77	-	\$585.07	\$1,481.84
EO.....	-	\$385.87	-	\$270.77	\$656.64
TOTAL.....	-	\$1,219.64	-	\$855.84	\$2,075.48

GULF

4/1/2020

2020 UG HIGH DENSITY LAYOUT

WR Number: 9201628

NUMBER OF LOTS = 176
 MECA STORES LOG% = 7.00%
 ACTUAL STORES LOG% = 11.40%
 ACTUAL EO = 46.82%

<u>CLASSIFICATION</u>	<u>MATERIAL</u>	<u>MATERIAL COST/LOT</u>	<u>TOTAL LABOR</u>	<u>LABOR COST/LOT</u>	<u>LABOR & MATERIAL</u>
Meters.....	-	-	\$2,506.33	-	-
Meter Cost (Material).....	\$13,842.40	\$78.65	-	-	-
Services.....	\$13,162.93	-	\$15,466.43	-	-
SUBTOTAL W/OUT STORES LDG.....	\$26,144.20	\$148.55	\$17,972.76	\$102.12	\$250.67
Duct.....	\$17,962.20	-	\$799.25	-	-
Primary and Primary Materials	\$27,763.89	-	\$15,527.96	-	-
Grounds	\$2,341.15	-	\$4,897.64	-	-
SUBTOTAL W/OUT STORES LDG.....	\$44,922.65	\$255.24	\$21,224.85	\$120.60	\$375.84
Secondary.....	\$14,112.57	-	\$5,474.00	-	-
SUBTOTAL W/OUT STORES LDG.....	\$13,189.32	\$74.94	\$5,474.00	\$31.10	\$106.04
Transformers.....	\$63,598.34	-	\$7,533.21	-	-
Transformer Pads	\$4,111.35	-	\$3,523.27	-	-
SUBTOTAL W/OUT STORES LDG.....	\$63,280.08	\$359.55	\$11,056.48	\$62.82	\$422.37
Trenching & Installing Duct	-	-	\$71,230.77	\$404.72	-
SUB-TOTAL	\$147,536.25	\$838.28	\$126,958.86	\$721.36	\$1,559.64
MATERIAL SUBTOTAL MINUS METER MATERIAL	-	\$759.63	-	-	-
STORES LDG. %	-	11.40%	-	-	-
TOTAL STORES LDG \$	-	\$95.56	-	-	\$95.56
SUBTOTAL	-	\$933.84	-	\$721.36	\$1,655.20
EO	-	\$432.18	-	\$333.85	\$766.03
TOTAL	-	\$1,366.02	-	\$1,055.21	\$2,421.23

OPERATIONAL COSTS DIFFERENTIAL – HIGH DENSITY

	<u>30-Year NPV (\$ per pole-line mile)</u>			
<u>Low Density</u>	<u>O&M</u>	<u>Capital</u>	<u>Total</u>	<u>Cost per lot</u>
Cost Differential (Non-Storm)	(\$20,998)	\$93,087	\$72,089	\$599
Avoided Storm Restoration Costs	(\$381,993)		(\$381,993)	(\$3,173)
Pre-Operational Cost ¹				\$345.76
Post-Operational Cost ¹				\$0.00

Note 1: Where the costs are negative, the differentials have been set to \$0.

LATERAL COST

AVERAGE UNDERGROUND LATERAL COST

<u>1 Phase Underground</u> \$/Ft.....\$8.24	<u>1 Phase Overhead</u> \$/Ft.....\$6.09	<u>Difference</u> \$/Ft.....\$2.15
<u>2 Phase Underground</u> \$/Ft.....\$11.57	<u>2 Phase Overhead</u> \$/Ft.....\$8.57	<u>Difference</u> \$/Ft.....\$3.00
<u>3 Phase Underground</u> \$/Ft.....\$15.45	<u>3 Phase Overhead</u> \$/Ft.....\$10.80	<u>Difference</u> \$/Ft.....\$4.65

LATERAL COST DETAILS

Lateral Length = 1,000 Feet

1 Phase UG Lateral Cost =	\$8,242.25
1 Phase UG Lateral Cost Per Foot =	\$8.24
1 Phase Overhead Lateral Cost =	\$6,094.16
1 Phase Overhead Lateral Cost Per Foot =	\$6.09
1 Phase Lateral Differential Cost =	\$2.15
2 Phase UG Lateral Cost =	\$11,573.71
2 Phase UG Lateral Cost Per foot =	\$11.57
2 Phase OH Lateral Cost =	\$8,568.07
2 Phase OH Lateral Cost Per foot =	\$8.57
2 Phase Lateral Differential Cost =	\$3.00
3 Phase UG Lateral Cost =	\$15,447.61
3 Phase UG Lateral Cost Per foot =	\$15.45
3 Phase OH Lateral Cost =	\$10,801.93
3 Phase OH Lateral Cost Per foot =	\$10.80
3 Phase Lateral Differential Cost =	\$4.65

MODEL SUBDIVISION CONDUIT & TRENCHING CREDITS

URD BASIS ADDENDUM TO APPENDIX NO. 3

Low Density

<u>Type</u>	<u>Man-hours</u>		<u>Man-hour Rate</u>		<u>Total Cost</u>
Pri/Sec =	658.52 MH	X	\$96.94 per MH	=	\$63,836.93
					<u>210 Lots</u>
					\$303.99 per Lot

Svc =	0.0497 MH/FT	X	\$96.94 per MH	X 70 FT =	\$337.25 per Lot
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High Density

<u>Type</u>	<u>Man-hours</u>		<u>Man-hour Rate</u>		<u>Total Cost</u>
Pri/Sec =	302.58 MH	X	\$96.94 per MH	=	\$29,332.11
					<u>176 Lots</u>
					\$166.66 per Lot

Svc =	0.0497 MH	X	\$96.94 per MH	X 50 FT =	\$240.90 per Lot
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MODEL SUBDIVISION CONDUIT PURCHASE CREDITS

Low Density

	<u>Cost per Foot</u>		<u>Total Feet</u>		<u>Total Cost</u>
Pri/Sec,2" =	\$0.45 /Ft	X	32,380 Ft	=	\$14,571
					<u>210 Lots</u>
					\$69.39 per Lot

Svc,2" =	\$0.45 /Ft	X	17,680 Ft	=	\$7,956
					<u>210 Lots</u>
					\$37.89 per Lot

High Density

	<u>Cost per Foot</u>		<u>Total Feet</u>		<u>Total Cost</u>
Pri/Sec,2" =	\$0.45 /Ft	X	11,548 Ft	=	\$5,196.60
					<u>176 Lots</u>
					\$29.53 per Lot

Svc,2" =	\$0.45 /Ft	X	8,192 Ft	=	\$3,686.40
					<u>176 Lots</u>
					\$15.26 per Lot

SERVICE LATERAL COSTS WITHIN A MODEL SUBDIVISION

SERVICE LATERAL DIFFERENTIAL – LOW DENSITY

	<u>Underground</u>	<u>Overhead</u>
Material	\$351.40	\$85.98
Labor	\$486.00	\$326.00
Stores Loading	\$40.06	\$9.80
EO	<u>\$406.09</u>	<u>\$195.20</u>
Total	\$1,283.55	\$616.98

UNDERGROUND: \$1,283.55
 OVERHEAD: (\$616.98)
 DIFFERENTIAL: **\$666.57**

SERVICE LATERAL DIFFERENTIAL – HIGH DENSITY

	<u>Underground</u>	<u>Overhead</u>
Material	\$303.74	\$68.22
Labor	\$424.00	\$244.00
Stores Loading	\$34.63	\$7.78
EO	<u>\$352.82</u>	<u>\$148.10</u>
Total	\$1,115.19	\$468.10

UNDERGROUND: \$1,115.19
 OVERHEAD: (\$468.10)
 DIFFERENTIAL: **\$647.09**

BACKUP CALCULATIONS FOR VARIOUS CREDITS AND COSTS

6.5.4 Replace Existing Service

2" PVC 0.0497 MH/FT X \$96.94 /MH X. 70 Ft. = \$337.25 /Lot

6.4.3 UG Service from OH Lines

2"PVC 0.0497 MH/FT X \$96.94 /MH = \$4.82 /Ft.

LARGER THAN 2" PVC 0.0743 MH/FT X \$96.94 /MH = \$7.20 /Ft.

6.3.3 c Credit for Installation of Conduit and Trenching

2" PVC 0.0497 MH/FT X \$96.94 /MH = \$4.82 /Ft.

LARGER THAN 2" PVC 0.0743 MH/FT X \$96.94 /MH = \$7.20 /Ft.

6.3.3 d Credit for Purchasing Company-specified Conduit

2" PVC \$0.45 /Ft.

LARGER THAN 2" PVC \$1.20 /Ft.

6.2.11 Extensions of Service Beyond Point of Delivery

CABLE MATERIAL \$1.03 /Ft. X 1.1140 Stores Loading = \$1.15 /Ft.
 \$1.15 /Ft. X 1.4628 EO = \$1.68 /Ft.

CABLE PULL \$96.94 /MH X 0.027 MH = \$2.62 /Ft.
 \$2.62 /Ft. X 01.4628 EO = \$3.83 /Ft.

CONDUIT MATERIAL \$0.45 /Ft. X 1.1140 Stores Loading = \$0.50 /Ft.
 \$0.50 /Ft. X 1.4628 EO = \$0.73 /Ft.

CONDUIT & TRENCH LABOR \$96.94 /MH X 0.0497 MH = \$4.82 /Ft.
 \$4.82 /Ft. X 1.4628 EO = \$7.05 /Ft.

TOTAL \$13.29 /Ft.

When Customer Provides Trench and Conduit Installation

Cable Material	+	Pull Labor	+	Conduit Material	=	Adjusted Total
\$1.68	+	\$3.83	+	\$0.73	=	\$6.24 / Ft.

6.3.3 e Primary Splice Box Installation Credit = \$96.94 /MH X 0.78 MH = \$75.61/ Box

6.3.3 f Concrete Pad for Pad Mounted Transformer = \$96.94 /MH X 3.16 MH = \$306.33/ Pad

APPENDIX UCD 1

**LEGISLATIVE TARIFF
UCD**



PAGE	EFFECTIVE DATE
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6.9 UNDERGROUND DISTRIBUTION FACILITIES TO SMALL COMMERCIAL/INDUSTRIAL CUSTOMERS

6.9.1 Application

This tariff section applies to all requests for Underground Service Facilities made by small commercial/industrial Applicants for new service as is specified below:

- a) Must be a new commercial/industrial installation served by transformer sizes of 100 KVA or less for single or two phase and 300 KVA or less for three phase; and
- b) Must be installed on the Applicant's property beginning at a point along the Applicant's property line and terminating at the Company's designated point of delivery.

The application of this tariff is in addition to and supplements the Company's other rules regarding extensions of facilities for service. An additional contribution-in-aid-of-construction may be required by those rules for extensions or installations of facilities necessary to accommodate a request for Underground Service Facilities made under this section.

6.9.2 Early Notification and Coordination

In order for the Company to provide service when required, it is necessary that the Applicant notify the Company during the early stages of planning major projects. It is the Applicant's responsibility to insure that close cooperation is maintained with the Company throughout the planning and construction stages by the architect, the builder, and the consulting engineers to avoid delays and additional expense. Particular attention must be given to the scheduling of the construction of paved areas and the various subgrade installations of the several utilities. Failure of the Applicant to provide such notification and coordination shall result in the Applicant paying any additional costs incurred by the Company.

Any Applicant seeking the installation of underground distribution facilities pursuant to a written request hereunder shall execute the Agreement for Underground Construction Standards under Standard Contract Forms. Failure to execute said agreement within 180 days after the delivery by Gulf Power Company of a binding cost estimate shall result in forfeiture of the deposit made. Any subsequent request for underground facilities will require the payment of a new deposit and the presentation of a new binding cost estimate. For good cause Gulf may extend the 180-day time limit. Upon execution of the Agreement for Underground Construction Standards, payment in full of the differential cost specified in the binding cost estimate, and compliance with the requirements of this tariff, Gulf shall proceed to install the facilities identified in a timely manner.

As a condition precedent to the conversion of any overhead distribution facilities, the Company may require that the Applicant obtain executed agreements with all affected pole licensees (e.g. telephone, cable TV, etc.) for the simultaneous conversion of those pole licensees' facilities and provide Gulf with a copy of the Agreement(s). Such agreements shall specifically acknowledge that the affected pole licensee will coordinate the conversion with Gulf and other licensees in a timely manner so as to not create unnecessary delays. Failure to present to Gulf Power Company executed copies of any necessary agreements with affected pole licensees within 180 days after delivery of the binding cost agreement to the Applicant shall result in forfeiture of the deposit paid for the binding cost estimate, the return of any differential cost paid for the binding cost estimate, the return of any differential cost paid less any actual cost incurred, and the termination of any Agreement For Underground Construction Standards entered into between the Applicant and Gulf Power Company.

6.9.3 Changes to Plans

The Applicant shall pay for all additional costs imposed on the Company by the Applicant including, but not limited to, engineering design, administration and relocation expenses, due to changes made subsequent to the agreement in the subdivision layout or final grade.

6.9.4 Type of System Provided

The costs quoted in these rules are for underground distribution primary/secondary conductors in direct buried conduit with above-grade appurtenances of standard Company design, excluding throwover service. Throwover service availability and its cost are determined by the Company on an individual basis. Unless otherwise stated, service will be provided at single or two-phase 120/240 volts or, where available, three phase 120/208 volts or 277/480 volts.

6.9.5 Design and Ownership

The Company will design, install, own and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under the provisions of these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service.



PAGE	EFFECTIVE DATE
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6.9.6 Rights of Way and Easements

The Applicant shall record and furnish satisfactory rights of way and easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to the Company prior to the Company initiating construction. Before the Company will start construction, these rights of way and easements must be cleared by the Applicant of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners and survey control points, and graded to within six inches of final grade, with soil stabilized. In addition, the Applicant shall provide stakes showing final grade along the easement. Such clearing and grading must be maintained by the Applicant during construction by the utility. Should paving, grass, landscaping, or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching, backfilling, and restoring the paving, grass, landscaping, and sprinkler systems to their original condition.

6.9.7 Contribution and Credits

The Applicant shall pay the required contribution upon receipt of written notification from the Company. No utility construction shall commence prior to execution of the Agreement for Underground Construction Standards (Form 9a, under Standard Contract forms) and payment in full of the entire contribution. Where, by mutual agreement, the Applicant performs any of the work normally performed by the Company, the Applicant shall receive a credit for such work in accordance with the credit amounts contained herein, provided that the work is in accordance with Company specifications. Such credits shall not exceed the total differential costs. The credit will be granted after the work has been inspected by the Company and, in the case of Applicant-installed conduit, after the Company pulls all applicable conductors.

6.9.8 Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. The Applicant shall provide accessible locations for meters and transformers when the design of a commercial/industrial building or its appurtenances limit perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

6.9.9 Special Conditions

The costs quoted in these rules are based on conditions which permit employment of rapid construction techniques. The Applicant shall be responsible for necessary additional hand digging expenses other than what is normally provided by the Company. The Applicant is responsible for clearing, compacting, stump removal, paving, and addressing other special conditions. Should paving, grass, landscaping or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching and backfilling and be responsible for restoration of property damaged to accommodate the installation of underground facilities.

6.9.10 Point of Delivery

The point of delivery shall be determined by the Company, but normally will be at or near the part of the building nearest the point at which the Company's electric supply is available to the property. When a location for a point of delivery different from that designated by the Company is requested by the Applicant and approved by the Company, the Applicant shall pay the estimated full cost of the primary/secondary lateral length, including labor and materials, required in excess of that which would have been needed to reach the Company's designated point of delivery. Any redesignation requested by the Applicant shall conform to good safety and construction practices as determined by the Company. Laterals shall be installed, where possible, in a direct line to the point of delivery.

6.9.11 Location of Meter and Raceway

The Applicant shall install a meter trough at the point designated by the Company and a raceway to accept the service lateral conductors if needed. Both will be installed in accordance with the Company's specifications.

6.9.12 Contribution by Applicant

The Applicant shall pay the Company the average differential cost between installing overhead and underground distribution facilities based on the following:



PAGE	EFFECTIVE DATE
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- a) Primary lateral, riser (if from overhead termination point), pad mounted transformer and trench with cable-in-conduit not to exceed 150 feet in radials and 300 feet in loops.

	<u>Applicant's Contribution</u>	
	<u>From Overhead Termination Point</u>	<u>From Existing Underground Termination Point</u>
1) Single phase radial	\$ 3,479.01	\$ 1,137.00
2) Two phase radial	\$ 5,300.88	\$ 624.84
3) Three phase radial (150 KVA)	\$ 7,003.08	\$ 2,616.19
4) Three phase radial (300 KVA)	\$ 12,246.92	\$ 7,254.20
5) Single phase loop	\$ 2,445.18	\$ 107.74
6) Two phase loop	\$ 6,250.97	\$ 859.15
7) Three phase loop (150 KVA)	\$ 7,331.65	\$ 2,944.76
8) Three phase loop (300 KVA)	\$ 11,127.56	\$ 6,134.85

- b) Secondary riser and lateral, excluding pedestal or junction box, with connection to Applicant's service cables no greater than 20 feet from Company riser pole.

1) Small single phase	\$ 164.36
2) Large single phase	\$ 585.17
3) Small three phase	\$ 371.58
4) Large three phase	\$ 742.83

- c) Company service cable installed in customer provided and customer installed 2" PVC (for main line switch size limited to 60 amps for 120V, 2 wire service, or 125 amps for 120/240v, 3 wire service) where customer's meter can is at least 5 feet and no more than 100 feet from the Company's pole.

	<u>120v 60 amp 2 wire service</u>	<u>120/240v 125 amp 3 wire service</u>
1) Installed on a wood pole - accessible locations	\$ 1,180.11	\$ 2,437.50
2) Installed on a wood pole - inaccessible locations	\$ 1,593.17	\$ 2,325.58
3) Installed on a concrete pole - accessible locations	\$ 1,265.21	\$ 2,538.62

- d) Pedestal and Padmounted Secondary Junction Box, excluding connections.

1) Pedestal	
a. Small - per pedestal	\$ 595.79
b. Intermediate - per pedestal	\$ 679.13
c. Large - per pedestal	\$ 1,608.78

2) Pad Mounted Secondary Junction Box – per box	\$ 2,911.47
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3) Pad Mounted Secondary Junction Cabinet, used when electrical loads exceed the capacity of the secondary junction box (above) or when the number of the service conductors exceed the capacity of the pad mounted transformer. This charge is only applicable if the majority of the customer's service conductor diameter is less than 500 MCM.

Per cabinet (includes connecting up to 12 sets of conductor) \$6,860.84

Additional secondary conductors and service tap costs beyond first set will be determined on a case-by-case basis.



PAGE	EFFECTIVE DATE
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e) Primary splice box including splices and cable pulling set-up.

1) Single Phase - per box	\$ 2,687.55
2) Two Phase - per box	\$ 5,911.53
3) Three Phase - per box	\$ 6,942.49

f) Additional installation charge for underground primary laterals including trench and cable-in-conduit which exceed the limits set in 6.9.12 a).

1) Single Phase - per foot	\$ 2.15
2) Two Phase - per foot	\$ 3.00
3) Three Phase - per foot	\$ 4.65

g) Additional installation charge for underground primary laterals including trench and cable-in-conduit extended beyond the Company designated point of delivery to a remote point of delivery.

1) Single Phase - per foot	\$ 8.24
2) Two Phase - per foot	\$ 11.57
3) Three Phase - per foot	\$ 15.45

h) The above costs are based upon arrangements that will permit serving the local underground distribution system within the commercial/industrial development from overhead feeder mains. If feeder mains within the commercial/industrial development are deemed necessary by the company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the company the average differential cost between such underground feeder mains within the commercial/industrial development and equivalent overhead feeder mains, as determined by the Company in accordance with Paragraph 6.6.2.

i) The Company will provide one standby/assistance appointment at no additional charge to the Applicant adding new or additional load to assist with installation of the Applicant's conductors and conduit(s) into a padmounted transformer, pedestal (not to exceed four hours in duration) during normal hours of operation. Additional appointments will be provided upon request, at the Applicant's expense.

6.9.13 Contribution Adjustments

Credits will be allowed to the Applicant's contribution listed in Section 6.9.12, where, by mutual agreement, the Applicant in accordance with Company instructions:

	<u>Credit to the Applicant's Contribution</u>
a) 1) Provides trenching and backfilling, and installs company-provided 2" conduit, credit per foot of primary trench:	\$ 4.82
2) Provides trenching and backfilling, and installs company-provided conduit larger than 2", credit per foot of primary trench:	\$ 7.20
b) 1) Purchases Company-specified conduit, credit per foot of 2" conduit:	\$ 0.45
2) Purchases Company-specified conduit, credit per foot of larger than 2" conduit:	\$ 1.20
c) 1) Installs a Company-provided primary splice box, credit per splice box:	\$ 278.22
2) Installs a Company-provided pedestal, credit per pedestal:	\$ 75.61
d) 1) Installs a Company-provided concrete pad for a pad-mounted transformer, credit per pad:	\$ 306.33

**FINAL TARIFF
UCD**



PAGE	EFFECTIVE DATE
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6.9 UNDERGROUND DISTRIBUTION FACILITIES TO SMALL COMMERCIAL/INDUSTRIAL CUSTOMERS

6.9.1 Application

This tariff section applies to all requests for Underground Service Facilities made by small commercial/industrial Applicants for new service as is specified below:

- a) Must be a new commercial/industrial installation served by transformer sizes of 100 KVA or less for single or two phase and 300 KVA or less for three phase; and
- b) Must be installed on the Applicant's property beginning at a point along the Applicant's property line and terminating at the Company's designated point of delivery.

The application of this tariff is in addition to and supplements the Company's other rules regarding extensions of facilities for service. An additional contribution-in-aid-of-construction may be required by those rules for extensions or installations of facilities necessary to accommodate a request for Underground Service Facilities made under this section.

6.9.2 Early Notification and Coordination

In order for the Company to provide service when required, it is necessary that the Applicant notify the Company during the early stages of planning major projects. It is the Applicant's responsibility to insure that close cooperation is maintained with the Company throughout the planning and construction stages by the architect, the builder, and the consulting engineers to avoid delays and additional expense. Particular attention must be given to the scheduling of the construction of paved areas and the various subgrade installations of the several utilities. Failure of the Applicant to provide such notification and coordination shall result in the Applicant paying any additional costs incurred by the Company.

Any Applicant seeking the installation of underground distribution facilities pursuant to a written request hereunder shall execute the Agreement for Underground Construction Standards under Standard Contract Forms. Failure to execute said agreement within 180 days after the delivery by Gulf Power Company of a binding cost estimate shall result in forfeiture of the deposit made. Any subsequent request for underground facilities will require the payment of a new deposit and the presentation of a new binding cost estimate. For good cause Gulf may extend the 180-day time limit. Upon execution of the Agreement for Underground Construction Standards, payment in full of the differential cost specified in the binding cost estimate, and compliance with the requirements of this tariff, Gulf shall proceed to install the facilities identified in a timely manner.

As a condition precedent to the conversion of any overhead distribution facilities, the Company may require that the Applicant obtain executed agreements with all affected pole licensees (e.g. telephone, cable TV, etc.) for the simultaneous conversion of those pole licensees' facilities and provide Gulf with a copy of the Agreement(s). Such agreements shall specifically acknowledge that the affected pole licensee will coordinate the conversion with Gulf and other licensees in a timely manner so as to not create unnecessary delays. Failure to present to Gulf Power Company executed copies of any necessary agreements with affected pole licensees within 180 days after delivery of the binding cost agreement to the Applicant shall result in forfeiture of the deposit paid for the binding cost estimate, the return of any differential cost paid for the binding cost estimate, the return of any differential cost paid less any actual cost incurred, and the termination of any Agreement For Underground Construction Standards entered into between the Applicant and Gulf Power Company.

6.9.3 Changes to Plans

The Applicant shall pay for all additional costs imposed on the Company by the Applicant including, but not limited to, engineering design, administration and relocation expenses, due to changes made subsequent to the agreement in the subdivision layout or final grade.

6.9.4 Type of System Provided

The costs quoted in these rules are for underground distribution primary/secondary conductors in direct buried conduit with above-grade appurtenances of standard Company design, excluding throwover service. Throwover service availability and its cost are determined by the Company on an individual basis. Unless otherwise stated, service will be provided at single or two-phase 120/240 volts or, where available, three phase 120/208 volts or 277/480 volts.

6.9.5 Design and Ownership

The Company will design, install, own and maintain the electric distribution facilities up to the designated point of delivery except as otherwise noted. Any payment made by the Applicant under the provisions of these Rules will not convey to the Applicant any rights of ownership or right to specify Company facilities utilized to provide service.



PAGE	EFFECTIVE DATE
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6.9.6 Rights of Way and Easements

The Applicant shall record and furnish satisfactory rights of way and easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to the Company prior to the Company initiating construction. Before the Company will start construction, these rights of way and easements must be cleared by the Applicant of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners and survey control points, and graded to within six inches of final grade, with soil stabilized. In addition, the Applicant shall provide stakes showing final grade along the easement. Such clearing and grading must be maintained by the Applicant during construction by the utility. Should paving, grass, landscaping, or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching, backfilling, and restoring the paving, grass, landscaping, and sprinkler systems to their original condition.

6.9.7 Contribution and Credits

The Applicant shall pay the required contribution upon receipt of written notification from the Company. No utility construction shall commence prior to execution of the Agreement for Underground Construction Standards (Form 9a, under Standard Contract forms) and payment in full of the entire contribution. Where, by mutual agreement, the Applicant performs any of the work normally performed by the Company, the Applicant shall receive a credit for such work in accordance with the credit amounts contained herein, provided that the work is in accordance with Company specifications. Such credits shall not exceed the total differential costs. The credit will be granted after the work has been inspected by the Company and, in the case of Applicant-installed conduit, after the Company pulls all applicable conductors.

6.9.8 Location of Distribution Facilities

Underground distribution facilities will be located, as determined by the Company, to maximize their accessibility for maintenance and operation. The Applicant shall provide accessible locations for meters and transformers when the design of a commercial/industrial building or its appurtenances limit perpetual accessibility for reading, testing, or making necessary repairs and adjustments.

6.9.9 Special Conditions

The costs quoted in these rules are based on conditions which permit employment of rapid construction techniques. The Applicant shall be responsible for necessary additional hand digging expenses other than what is normally provided by the Company. The Applicant is responsible for clearing, compacting, stump removal, paving, and addressing other special conditions. Should paving, grass, landscaping or sprinkler systems be installed prior to the construction of the underground distribution facilities, the Applicant shall pay the added costs of trenching and backfilling and be responsible for restoration of property damaged to accommodate the installation of underground facilities.

6.9.10 Point of Delivery

The point of delivery shall be determined by the Company, but normally will be at or near the part of the building nearest the point at which the Company's electric supply is available to the property. When a location for a point of delivery different from that designated by the Company is requested by the Applicant and approved by the Company, the Applicant shall pay the estimated full cost of the primary/secondary lateral length, including labor and materials, required in excess of that which would have been needed to reach the Company's designated point of delivery. Any redesignation requested by the Applicant shall conform to good safety and construction practices as determined by the Company. Laterals shall be installed, where possible, in a direct line to the point of delivery.

6.9.11 Location of Meter and Raceway

The Applicant shall install a meter trough at the point designated by the Company and a raceway to accept the service lateral conductors if needed. Both will be installed in accordance with the Company's specifications.



PAGE	EFFECTIVE DATE
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6.9.12 Contribution by Applicant

The Applicant shall pay the Company the average differential cost between installing overhead and underground distribution facilities based on the following:

- a) Primary lateral, riser (if from overhead termination point), pad mounted transformer and trench with cable-in-conduit not to exceed 150 feet in radials and 300 feet in loops.

	<u>Applicant's Contribution</u>	
	<u>From Overhead Termination Point</u>	<u>From Existing Underground Termination Point</u>
1) Single phase radial	\$ 3,479.01	\$ 1,137.00
2) Two phase radial	\$ 5,300.88	\$ 624.84
3) Three phase radial (150 KVA)	\$ 7,003.08	\$ 2,616.19
4) Three phase radial (300 KVA)	\$ 12,246.92	\$ 7,254.20
5) Single phase loop	\$ 2,445.18	\$ 107.74
6) Two phase loop	\$ 6,250.97	\$ 859.15
7) Three phase loop (150 KVA)	\$ 7,331.65	\$ 2,944.76
8) Three phase loop (300 KVA)	\$ 11,127.56	\$ 6,134.85

- b) Secondary riser and lateral, excluding pedestal or junction box, with connection to Applicant's service cables no greater than 20 feet from Company riser pole.

1) Small single phase	\$ 164.36
2) Large single phase	\$ 585.17
3) Small three phase	\$ 371.58
4) Large three phase	\$ 742.83

- c) Company service cable installed in customer provided and customer installed 2" PVC (for main line switch size limited to 60 amps for 120V, 2 wire service, or 125 amps for 120/240v, 3 wire service) where customer's meter can is at least 5 feet and no more than 100 feet from the Company's pole.

	<u>120v 60 amp 2 wire service</u>	<u>120/240v 125 amp 3 wire service</u>
1) Installed on a wood pole - accessible locations	\$ 1,180.11	\$ 2,437.50
2) Installed on a wood pole - inaccessible locations	\$ 1,593.17	\$ 2,325.58
3) Installed on a concrete pole - accessible locations	\$ 1,265.21	\$ 2,538.62

- d) Pedestal and Padmounted Secondary Junction Box, excluding connections.

1) Pedestal	
a. Small - per pedestal	\$ 595.79
b. Intermediate - per pedestal	\$ 679.13
c. Large - per pedestal	\$ 1,608.78
2) Pad Mounted Secondary Junction Box – per box	\$ 2,911.47

3) Pad Mounted Secondary Junction Cabinet, used when electrical loads exceed the capacity of the secondary junction box (above) or when the number of the service conductors exceed the capacity of the pad mounted transformer. This charge is only applicable if the majority of the customer's service conductor diameter is less than 500 MCM.

Per cabinet (includes connecting up to 12 sets of conductor) \$ 6,860.84



PAGE	EFFECTIVE DATE
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Additional secondary conductors and service tap costs beyond first set will be determined on a case-by-case basis.

- e) Primary splice box including splices and cable pulling set-up.
 - 1) Single Phase - per box \$ 2,687.55
 - 2) Two Phase - per box \$ 5,911.53
 - 3) Three Phase - per box \$ 6,942.49

- f) Additional installation charge for underground primary laterals including trench and cable-in-conduit which exceed the limits set in 6.9.12 a).
 - 1) Single Phase - per foot \$ 2.15
 - 2) Two Phase - per foot \$ 3.00
 - 3) Three Phase - per foot \$ 4.65

- g) Additional installation charge for underground primary laterals including trench and cable-in-conduit extended beyond the Company designated point of delivery to a remote point of delivery.
 - 1) Single Phase - per foot \$ 8.24
 - 2) Two Phase - per foot \$ 11.57
 - 3) Three Phase - per foot \$ 15.45

- h) The above costs are based upon arrangements that will permit serving the local underground distribution system within the commercial/industrial development from overhead feeder mains. If feeder mains within the commercial/industrial development are deemed necessary by the company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the company the average differential cost between such underground feeder mains within the commercial/industrial development and equivalent overhead feeder mains, as determined by the Company in accordance with Paragraph 6.6.2.

- i) The Company will provide one standby/assistance appointment at no additional charge to the Applicant adding new or additional load to assist with installation of the Applicant's conductors and conduit(s) into a padmounted transformer, pedestal (not to exceed four hours in duration) during normal hours of operation. Additional appointments will be provided upon request, at the Applicant's expense.

6.9.13 Contribution Adjustments

Credits will be allowed to the Applicant's contribution listed in Section 6.9.12, where, by mutual agreement, the Applicant in accordance with Company instructions:

	<u>Credit to the Applicant's Contribution</u>
a) 1) Provides trenching and backfilling, and installs company-provided 2" conduit, credit per foot of primary trench:	\$ 4.82
2) Provides trenching and backfilling, and installs company-provided conduit larger than 2", credit per foot of primary trench:	\$ 7.20
b) 1) Purchases Company-specified conduit, credit per foot of 2" conduit:	\$ 0.45
2) Purchases Company-specified conduit, credit per foot of larger than 2" conduit:	\$ 1.20
c) 1) Installs a Company-provided primary splice box, credit per splice box:	\$ 278.22
2) Installs a Company-provided pedestal, credit per pedestal:	\$ 75.61
d) 1) Installs a Company-provided concrete pad for a pad-mounted transformer, credit per pad:	\$ 306.33

APPENDIX UCD 2

Appendix UCD No. 2 Explanations of Proposed Initial Tariffs

This appendix is to summarize the proposed addition of Section 6.9 to section 4 of Gulf's Rules and Regulations for Electric Service. The basis for Gulf's proposed tariffs for underground commercial installations can be found in Appendix No. 3.

The following modifications to section 6 have been proposed:

- 1.) Gulf is proposing to add an entirely new UCD tariff customized for its small commercial and industrial customers to promote undergrounding new or existing facilities by providing standardized charges and credits for customer contribution.

APPENDIX UCD 3

2020 UCD Tariff Basis Design Criteria and Assumptions

I. General

12.47 kV System Voltage
 Overhead Distribution using Wood Poles
 Underground Distribution using Cable-in-Conduit with above-grade appurtenances.

II. Overhead Design -Modified Vertical Framing

A. Primary lateral, transformer, and service

Design	WR	EX	Primary Length	Primary Conductor	Primary Poles	Service Length	Service Conductor	Transformer	Voltage
1 Phase Radial	9214454	II	150'	(2) 1/0 AAAC	40/3	100'	1/0 AL TPX	50 KVA	120/240
1 Phase Loop	9214611	XIV	300'	(2) 1/0 AAAC	40/3	50'	1/0 AL TPX	50 KVA	120/240
2 Phase Radial	9214492	V	150'	(3) 1/0 AAAC	45/3	70'	1/0 AL QPX	50 KVA	120/240
2 Phase Loop	9214620	XVII	300'	(3) 1/0 AAAC	45/3	40'	1/0 AL QPX	50 KVA	120/240
3 Phase (150KVA) Radial	9214549	XI	150'	(4) 1/0 AAAC	50/2	40'	(2) 4/0 QPX	(3) 50 KVA	120/208
3 Phase (150KVA) Loop	9214627	XX	300'	(4) 1/0 AAAC	2 - 45/3	40'	(2) 4/0 QPX	(3) 50 KVA	120/208
3 Phase (300KVA) Radial	9214595	VIII	150'	(4) 1/0 AAAC	50/1	40'	(2) 4/0 QPX	(3) 100 KVA	120/208
3 Phase (300KVA) Loop	9214632	XXIII	300'	(4)1/0 AAAC	45/3, 45/2	40'	(2) 4/0 QPX	(3) 100 KVA	120/208

B. Secondary/Service Laterals

Design	WR	EX	Service Length	Service Conductor
1 Phase - Small	9214635	L	50'	1/0 AL TPX
1 Phase - Large	9214638	LIII	50'	1/0 AL QPX
3 Phase - Small	9214641	LVI	50'	1/0 AL QPX
3 Phase - Large	9214638	LIX	50'	4/0 AL QPX

C. Pedestals and Pad Mounted Secondary Junction Box

No Overhead used

D. Primary Splice Box

No Overhead Used

E. Additional Charge for Underground Primary Lateral Exceeding Basic Length

Design	WR	EX	Primary Length	Primary Conductor	Poles
1 Phase	9214664	LXXI	1,000'	(2) 1/0 AAAC	(4) 40/5
2 Phase	9214667	LXXIV	1,000'	(3) 1/0 AAAC	(4) 45/3
3 Phase	9214671	LXXVII	1,000'	(4) 1/0 AAAC	(4) 45/3

F. Additional Charge for Underground Primary Lateral to a Remote Point of Delivery

No Overhead Used

III. Underground Design Criteria

A.1 Primary lateral, riser, padmounted transformer and trench with Cable in Conduit

Design	WR	EX	Trench Length	Primary Conductor	Conduit Size	Riser Length	Riser Size	Transformer	Voltage
1 Phase Radial	9214483	III	150'	4/0 AL TPX	2"	30'	2"	50 KVA	120/240
1 Phase Loop	9214615	XV	300'	4/0 AL TPX	2"	30'	2"	50 KVA	120/240
2 Phase Radial	9214535	VI	150'	4/0 AL QPX	3"	30'	2"	50 KVA	120/240
2 Phase Loop	9214624	XVIII	150'	4/0 AL QPX	3"	30'	2"	50 KVA	120/240
3 Phase (150KVA) Radial	9214551	XII	150'	4/0 AL QPX	3"	40'	4"	(3) 150 KVA	120/208
3 Phase (150KVA) Loop	9214629	XXI	300'	4/0 AL QPX	3"	40'	4"	(3) 150 KVA	120/208
3 Phase (300KVA) Radial	9214599	IX	150'	4/0 AL QPX	3"	40'	4"	(3) 300 KVA	120/208
3 Phase (300KVA) Loop	9214633	XXIV	300'	4/0 AL QPX	3"	40'	4"	(3) 300 KVA	120/208

A.2 Primary lateral, UG source, padmounted transformer and trench with Cable in Conduit

Design	WR	EX	Trench Length	Primary Conductor	Conduit Size	Transformer	Voltage
1 Phase Radial	9214486	XXX	150'	4/0 AL TPX	2"	50 KVA	120/240
1 Phase Loop	9214619	XXVII	300'	4/0 AL TPX	2"	50 KVA	120/240
2 Phase Radial	9214539	XXXVI	150'	4/0 AL QPX	3"	50 KVA	120/240
2 Phase Loop	9214625	XXXIII	150'	4/0 AL QPX	3"	50 KVA	120/240
3 Phase (150KVA) Radial	9214554	XLV	150'	4/0 AL QPX	3"	(3) 150 KVA	120/208
3 Phase (150KVA) Loop	9214630	XXXIX	300'	4/0 AL QPX	3"	(3) 150 KVA	120/208
3 Phase (300KVA) Radial	9214601	XLVIII	150'	4/0 AL QPX	3"	(3) 300 KVA	120/208
3 Phase (300KVA) Loop	9214634	XLII	300'	4/0 AL QPX	3"	(3) 300 KVA	120/208

B. Secondary/Service lateral and riser with multiple connectors.

Design	WR	EX	Trench Length	Primary Conductor	Conduit Size	Riser Length	Riser Size
1 Phase – Small	9214636	LI	50'	4/0 AL TPX	2"	30'	2"
1 Phase – Large	9214640	LIV	50'	500 AL TPX	3"	30'	4"
3 Phase – Small	9214642	LVII	50'	4/0 AL QPX	2"	30'	2"
3 Phase – Large	9214643	LX	50'	500 AL QPX	3"	30'	4"

C. Handholes and Padmounted Secondary Junction Box and Cabinet

Design	WR	EX	Description
Small Pedestal	9214646	LXI	Small Size (4) Pedestal
Intermediate Pedestal	9214640	LIV	Intermediate Size (6) Pedestal
Large Pedestal	9214648	LXIII	Large 3-Phase Pedestal (1000)
Secondary Junction Box	9214650	LXIV	Cabinet on 4x4 pad
Secondary Junction Cabinet	9214653	LXV	Large 3-Phase Cabinet with Base

D. Primary Splice Box

Design	WR	EX	Description
1 Phase Switch Cabinet	9214657	LXVII	Single Phase switch cabinet with cable pulling
2 Phase Switch Cabinet	9214658	LXVIII	Large Cabinet with 4-way feed through with cable pulling
2 Phase Switch Cabinet	9214661	LXIX	Large Cabinet with 4-way feed through with cable pulling

E. Additional Charge for Underground Primary Lateral Exceeding Basic Length

Design	WR	EX	Primary Length	Primary Conductor	Pull Labor
1 Phase	9214666	LXXII	1,000'	1/0 AL PRI	Included
2 Phase	9214669	LXXV	1,000'	1/0 AL PRI	Included
3 Phase	9214673	LXXVIII	1,000'	1/0 AL PRI	Included

F. Additional charge for Underground Primary Lateral to a Remote Point of Delivery

Design	WR	EX	Primary Length	Primary Conductor	Pull Labor
1 Phase	9214666	LXXII	1,000'	1/0 AL PRI	Included
2 Phase	9214669	LXXV	1,000'	1/0 AL PRI	Included
3 Phase	9214673	LXXVIII	1,000'	1/0 AL PRI	Included

GULF

Basis for Underground Commercial Distribution Differential

New Underground Commercial Development with Overhead Feeder Mains.

The average differential costs for Underground Commercial Distribution stated in the Gulf rules and Regulations were derived from cost estimates of underground commercial facilities and their equivalent overhead designs. These estimates employed the standard Company design and estimating practices and the system-wide unit costs, which were in use at the end of 2019. Design criteria include the following:

Primary Voltage	12.47 kV
Phases, Secondary Voltage	Single Phase, 120/240 V Three phase, 120/240 V Three phase, 120/208 V Three phase, 277/480 V
Underground Design	All cable-in-conduit
Overhead Design	Wood Poles, Extreme Windload (130 MPH)

APPENDIX UCD 4

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
SINGLE PHASE 150' RADIAL FROM OVERHEAD WITH 50KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$2,898.00	\$5,018.69	\$2,120.69
MATERIAL	\$3,286.68	\$4,645.00	\$1,358.32
TOTAL	\$6,184.68	\$9,663.69	\$3,479.01

**OVERHEAD MATERIAL AND LABOR
SINGLE PHASE 150' RADIAL FROM OVERHEAD WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$87.69	\$69.80	\$157.49
PRIMARY	\$547.70	\$1,454.54	\$2,002.24
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$210.37	\$210.32	\$420.69
TRANSFORMERS	\$1,171.15	\$246.47	\$1,417.62
SUBTOTAL WITHOUT STORES	\$2,016.91	\$1,981.13	\$3,998.04
STORES (2)	\$229.93	\$0.00	\$229.93
SUBTOTAL WITH STORES	\$2,246.84	\$1,981.13	\$4,227.97
ENGINEERING (4)	\$1,039.84	\$916.87	\$1,956.71
TOTAL	\$3,286.68	\$2,898.00	\$6,184.68

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
SINGLE PHASE 150' RADIAL FROM OVERHEAD WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$253.65	\$245.47	\$499.12
PRIMARY	\$1,048.32	\$1,805.79	\$2,854.11
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$1,548.50	\$697.24	\$2,245.74
TRENCHING	\$0.00	\$682.38	\$682.38
SUBTOTAL WITHOUT STORES	\$2,850.47	\$3,430.88	\$6,281.35
STORES (2)	\$324.95	\$0.00	\$324.95
SUBTOTAL WITH STORES	\$3,175.42	\$3,430.88	\$6,606.30
ENGINEERING (4)	\$1,469.58	\$1,587.81	\$3,057.39
TOTAL	\$4,645.00	\$5,018.69	\$9,663.69

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.1 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
TWO PHASE 150' RADIAL FROM OVERHEAD WITH 50KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$4,527.42	\$8,178.65	\$3,651.23
MATERIAL	\$6,847.45	\$8,497.10	\$1,649.65
TOTAL	\$11,374.87	\$16,675.75	\$5,300.88

OVERHEAD MATERIAL AND LABOR
TWO PHASE 150' RADIAL FROM OVERHEAD WITH 50KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$178.98	\$97.72	\$276.70
PRIMARY	\$1,340.72	\$2,294.06	\$3,634.78
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$322.82	\$210.32	\$533.14
TRANSFORMERS	\$2,359.51	\$492.94	\$2,852.45
SUBTOTAL WITHOUT STORES	\$4,202.03	\$3,095.04	\$7,297.07
STORES (2)	\$479.03	\$0.00	\$479.03
SUBTOTAL WITH STORES	\$4,681.06	\$3,095.04	\$7,776.10
ENGINEERING (4)	\$2,166.39	\$1,432.38	\$3,598.77
TOTAL	\$6,847.45	\$4,527.42	\$11,374.87

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
TWO PHASE 150' RADIAL FROM OVERHEAD WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$389.61	\$277.21	\$666.82
PRIMARY	\$1,727.72	\$2,819.35	\$4,547.07
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$3,097.02	\$1,394.48	\$4,491.50
TRENCHING	\$0.00	\$1,100.05	\$1,100.05
SUBTOTAL WITHOUT STORES	\$5,214.35	\$5,591.09	\$10,805.44
STORES (2)	\$594.44	\$0.00	\$594.44
SUBTOTAL WITH STORES	\$5,808.79	\$5,591.09	\$11,399.88
ENGINEERING (4)	\$2,688.31	\$2,587.56	\$5,275.87
TOTAL	\$8,497.10	\$8,178.65	\$16,675.75

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.1 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
THREE PHASE 150' RADIAL FROM OVERHEAD WITH 300KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$5,434.23	\$9,101.26	\$3,667.03
MATERIAL	\$10,570.66	\$19,150.55	\$8,579.89
TOTAL	\$16,004.89	\$28,251.81	\$12,246.92

OVERHEAD MATERIAL AND LABOR
THREE PHASE 150' RADIAL FROM OVERHEAD WITH 300KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$286.54	\$84.14	\$370.68
PRIMARY	\$1,605.63	\$2,261.53	\$3,867.16
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$414.62	\$265.09	\$679.71
TRANSFORMERS	\$4,180.03	\$1,104.19	\$5,284.22
SUBTOTAL WITHOUT STORES	\$6,486.82	\$3,714.95	\$10,201.77
STORES (2)	\$739.50	\$0.00	\$739.50
SUBTOTAL WITH STORES	\$7,226.32	\$3,714.95	\$10,941.27
ENGINEERING (4)	\$3,344.34	\$1,719.28	\$5,063.62
TOTAL	\$10,570.66	\$5,434.23	\$16,004.89

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
THREE PHASE 150' RADIAL FROM OVERHEAD WITH 300KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$779.21	\$554.43	\$1,333.64
PRIMARY	\$2,578.64	\$3,823.70	\$6,402.34
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$8,394.13	\$801.85	\$9,195.98
TRENCHING	\$0.00	\$1,041.83	\$1,041.83
SUBTOTAL WITHOUT STORES	\$11,751.98	\$6,221.81	\$17,973.79
STORES (2)	\$1,339.73	\$0.00	\$1,339.73
SUBTOTAL WITH STORES	\$13,091.71	\$6,221.81	\$19,313.52
ENGINEERING (4)	\$6,058.84	\$2,879.45	\$8,938.29
TOTAL	\$19,150.55	\$9,101.26	\$28,251.81

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.1 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
THREE PHASE 150' RADIAL FROM OVERHEAD WITH 150KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$6,116.89	\$8,024.13	\$1,907.24
MATERIAL	\$9,736.92	\$14,832.76	\$5,095.84
TOTAL	\$15,853.81	\$22,856.89	\$7,003.08

OVERHEAD MATERIAL AND LABOR
THREE PHASE 150' RADIAL FROM OVERHEAD WITH 150KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$191.02	\$56.23	\$247.25
PRIMARY	\$1,801.61	\$3,120.90	\$4,922.51
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$396.90	\$265.09	\$661.99
TRANSFORMERS	\$3,585.66	\$739.41	\$4,325.07
SUBTOTAL WITHOUT STORES	\$5,975.19	\$4,181.63	\$10,156.82
STORES (2)	\$681.17	\$0.00	\$681.17
SUBTOTAL WITH STORES	\$6,656.36	\$4,181.63	\$10,837.99
ENGINEERING (4)	\$3,080.56	\$1,935.26	\$5,015.82
TOTAL	\$9,736.92	\$6,116.89	\$15,853.81

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
THREE PHASE 150' RADIAL FROM OVERHEAD WITH 150KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$389.61	\$277.21	\$666.82
PRIMARY	\$2,487.27	\$3,645.76	\$6,133.03
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$6,225.44	\$801.85	\$7,027.29
TRENCHING	\$0.00	\$760.64	\$760.64
SUBTOTAL WITHOUT STORES	\$9,102.32	\$5,485.46	\$14,587.78
STORES (2)	\$1,037.66	\$0.00	\$1,037.66
SUBTOTAL WITH STORES	\$10,139.98	\$5,485.46	\$15,625.44
ENGINEERING (4)	\$4,692.78	\$2,538.67	\$7,231.45
TOTAL	\$14,832.76	\$8,024.13	\$22,856.89

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.1 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
SINGLE PHASE 300' LOOP FROM OVERHEAD WITH 50KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$4,542.55	\$5,972.92	\$1,430.37
MATERIAL	\$4,223.26	\$5,238.07	\$1,014.81
TOTAL	\$8,765.81	\$11,210.99	\$2,445.18

OVERHEAD MATERIAL AND LABOR
SINGLE PHASE 300' LOOP FROM OVERHEAD WITH 50KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$79.77	\$38.29	\$118.06
PRIMARY	\$776.55	\$2,170.73	\$2,947.28
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$558.39	\$649.89	\$1,208.28
TRANSFORMERS	\$1,176.95	\$246.47	\$1,423.42
SUBTOTAL WITHOUT STORES	\$2,591.66	\$3,105.38	\$5,697.04
STORES (2)	\$295.45	\$0.00	\$295.45
SUBTOTAL WITH STORES	\$2,887.11	\$3,105.38	\$5,992.49
ENGINEERING (4)	\$1,336.15	\$1,437.17	\$2,773.32
TOTAL	\$4,223.26	\$4,542.55	\$8,765.81

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
SINGLE PHASE 300' LOOP FROM OVERHEAD WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$253.65	\$245.47	\$499.12
PRIMARY	\$1,412.26	\$2,048.69	\$3,460.95
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$1,548.50	\$697.24	\$2,245.74
TRENCHING	\$0.00	\$1,091.81	\$1,091.81
SUBTOTAL WITHOUT STORES	\$3,214.41	\$4,083.21	\$7,297.62
STORES (2)	\$366.44	\$0.00	\$366.44
SUBTOTAL WITH STORES	\$3,580.85	\$4,083.21	\$7,664.06
ENGINEERING (4)	\$1,657.22	\$1,889.71	\$3,546.93
TOTAL	\$5,238.07	\$5,972.92	\$11,210.99

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.1 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
TWO PHASE 300' LOOP FROM OVERHEAD WITH 50KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$6,161.45	\$10,087.12	\$3,925.67
MATERIAL	\$7,357.88	\$9,683.18	\$2,325.30
TOTAL	\$13,519.33	\$19,770.30	\$6,250.97

**OVERHEAD MATERIAL AND LABOR
TWO PHASE 300' LOOP FROM OVERHEAD WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$92.13	\$30.63	\$122.76
PRIMARY	\$1,560.13	\$3,230.02	\$4,790.15
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$518.04	\$458.50	\$976.54
TRANSFORMERS	\$2,344.96	\$492.94	\$2,837.90
SUBTOTAL WITHOUT STORES	\$4,515.26	\$4,212.09	\$8,727.35
STORES (2)	\$514.74	\$0.00	\$514.74
SUBTOTAL WITH STORES	\$5,030.00	\$4,212.09	\$9,242.09
ENGINEERING (4)	\$2,327.88	\$1,949.36	\$4,277.24
TOTAL	\$7,357.88	\$6,161.45	\$13,519.33

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
TWO PHASE 300' LOOP FROM OVERHEAD WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$389.61	\$277.21	\$666.82
PRIMARY	\$2,455.58	\$3,305.17	\$5,760.75
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$3,097.02	\$1,394.48	\$4,491.50
TRENCHING	\$0.00	\$1,918.90	\$1,918.90
SUBTOTAL WITHOUT STORES	\$5,942.21	\$6,895.76	\$12,837.97
STORES (2)	\$677.41	\$0.00	\$677.41
SUBTOTAL WITH STORES	\$6,619.62	\$6,895.76	\$13,515.38
ENGINEERING (4)	\$3,063.56	\$3,191.36	\$6,254.92
TOTAL	\$9,683.18	\$10,087.12	\$19,770.30

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.1 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
THREE PHASE 300' LOOP FROM OVERHEAD WITH 150KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$8,215.35	\$9,791.43	\$1,576.08
MATERIAL	\$10,856.37	\$16,611.94	\$5,755.57
TOTAL	\$19,071.72	\$26,403.37	\$7,331.65

OVERHEAD MATERIAL AND LABOR
THREE PHASE 300' LOOP FROM OVERHEAD WITH 150KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$184.26	\$61.27	\$245.53
PRIMARY	\$2,424.51	\$4,357.00	\$6,781.51
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$518.04	\$458.50	\$976.54
TRANSFORMERS	\$3,535.34	\$739.41	\$4,274.75
SUBTOTAL WITHOUT STORES	\$6,662.15	\$5,616.18	\$12,278.33
STORES (2)	\$759.49	\$0.00	\$759.49
SUBTOTAL WITH STORES	\$7,421.64	\$5,616.18	\$13,037.82
ENGINEERING (4)	\$3,434.73	\$2,599.17	\$6,033.90
TOTAL	\$10,856.37	\$8,215.35	\$19,071.72

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
THREE PHASE 300' LOOP FROM OVERHEAD WITH 150KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$389.61	\$277.21	\$666.82
PRIMARY	\$3,579.08	\$4,374.47	\$7,953.55
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$6,225.44	\$801.85	\$7,027.29
TRENCHING	\$0.00	\$1,240.09	\$1,240.09
SUBTOTAL WITHOUT STORES	\$10,194.13	\$6,693.62	\$16,887.75
STORES (2)	\$1,162.13	\$0.00	\$1,162.13
SUBTOTAL WITH STORES	\$11,356.26	\$6,693.62	\$18,049.88
ENGINEERING (4)	\$5,255.68	\$3,097.81	\$8,353.49
TOTAL	\$16,611.94	\$9,791.43	\$26,403.37

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.1 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
THREE PHASE 300' LOOP FROM OVERHEAD WITH 300KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$8,590.97	\$10,868.56	\$2,277.59
MATERIAL	\$12,079.74	\$20,929.71	\$8,849.97
TOTAL	\$20,670.71	\$31,798.27	\$11,127.56

OVERHEAD MATERIAL AND LABOR
THREE PHASE 300' LOOP FROM OVERHEAD WITH 300KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$184.26	\$61.27	\$245.53
PRIMARY	\$2,466.76	\$4,267.93	\$6,734.69
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$581.84	\$439.57	\$1,021.41
TRANSFORMERS	\$4,180.03	\$1,104.19	\$5,284.22
SUBTOTAL WITHOUT STORES	\$7,412.89	\$5,872.96	\$13,285.85
STORES (2)	\$845.07	\$0.00	\$845.07
SUBTOTAL WITH STORES	\$8,257.96	\$5,872.96	\$14,130.92
ENGINEERING (4)	\$3,821.78	\$2,718.01	\$6,539.79
TOTAL	\$12,079.74	\$8,590.97	\$20,670.71

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
THREE PHASE 300' LOOP FROM OVERHEAD WITH 300KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$779.21	\$554.43	\$1,333.64
PRIMARY	\$3,670.45	\$4,552.41	\$8,222.86
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$8,394.13	\$801.85	\$9,195.98
TRENCHING	\$0.00	\$1,521.28	\$1,521.28
SUBTOTAL WITHOUT STORES	\$12,843.79	\$7,429.97	\$20,273.76
STORES (2)	\$1,464.19	\$0.00	\$1,464.19
SUBTOTAL WITH STORES	\$14,307.98	\$7,429.97	\$21,737.95
ENGINEERING (4)	\$6,621.73	\$3,438.59	\$10,060.32
TOTAL	\$20,929.71	\$10,868.56	\$31,798.27

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.1 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
SINGLE PHASE 300' LOOP FROM UNDERGROUND WITH 50KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$4,542.55	\$4,216.17	(\$326.38)
MATERIAL	\$4,223.26	\$4,657.38	\$434.12
TOTAL	\$8,765.81	\$8,873.55	\$107.74

OVERHEAD MATERIAL AND LABOR
SINGLE PHASE 300' LOOP FROM UNDERGROUND WITH 50KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$79.77	\$38.29	\$118.06
PRIMARY	\$776.55	\$2,170.73	\$2,947.28
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$558.39	\$649.89	\$1,208.28
TRANSFORMERS	\$1,176.95	\$246.47	\$1,423.42
SUBTOTAL WITHOUT STORES	\$2,591.66	\$3,105.38	\$5,697.04
STORES (2)	\$295.45	\$0.00	\$295.45
SUBTOTAL WITH STORES	\$2,887.11	\$3,105.38	\$5,992.49
ENGINEERING (4)	\$1,336.15	\$1,437.17	\$2,773.32
TOTAL	\$4,223.26	\$4,542.55	\$8,765.81

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
SINGLE PHASE 300' LOOP FROM UNDERGROUND WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$253.65	\$245.47	\$499.12
PRIMARY	\$1,055.91	\$1,064.26	\$2,120.17
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$1,548.50	\$480.72	\$2,029.22
TRENCHING	\$0.00	\$1,091.81	\$1,091.81
SUBTOTAL WITHOUT STORES	\$2,858.06	\$2,882.26	\$5,740.32
STORES (2)	\$325.82	\$0.00	\$325.82
SUBTOTAL WITH STORES	\$3,183.88	\$2,882.26	\$6,066.14
ENGINEERING (4)	\$1,473.50	\$1,333.91	\$2,807.41
TOTAL	\$4,657.38	\$4,216.17	\$8,873.55

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.2 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
SINGLE PHASE 150' RADIAL FROM UNDERGROUND WITH 50KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$2,898.00	\$3,257.36	\$359.36
MATERIAL	\$3,286.68	\$4,064.32	\$777.64
TOTAL	\$6,184.68	\$7,321.68	\$1,137.00

OVERHEAD MATERIAL AND LABOR
SINGLE PHASE 150' RADIAL FROM UNDERGROUND WITH 50KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$87.69	\$69.80	\$157.49
PRIMARY	\$547.70	\$1,454.54	\$2,002.24
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$210.37	\$210.32	\$420.69
TRANSFORMERS	\$1,171.15	\$246.47	\$1,417.62
SUBTOTAL WITHOUT STORES	\$2,016.91	\$1,981.13	\$3,998.04
STORES (2)	\$229.93	\$0.00	\$229.93
SUBTOTAL WITH STORES	\$2,246.84	\$1,981.13	\$4,227.97
ENGINEERING (4)	\$1,039.84	\$916.87	\$1,956.71
TOTAL	\$3,286.68	\$2,898.00	\$6,184.68

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
SINGLE PHASE 150' RADIAL FROM UNDERGROUND WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$253.65	\$245.47	\$499.12
PRIMARY	\$691.97	\$818.23	\$1,510.20
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$1,548.50	\$480.72	\$2,029.22
TRENCHING	\$0.00	\$682.38	\$682.38
SUBTOTAL WITHOUT STORES	\$2,494.12	\$2,226.80	\$4,720.92
STORES (2)	\$284.33	\$0.00	\$284.33
SUBTOTAL WITH STORES	\$2,778.45	\$2,226.80	\$5,005.25
ENGINEERING (4)	\$1,285.87	\$1,030.56	\$2,316.43
TOTAL	\$4,064.32	\$3,257.36	\$7,321.68

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.2 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
TWO PHASE 300' LOOP FROM UNDERGROUND WITH 50KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$6,161.45	\$5,552.79	(\$608.66)
MATERIAL	\$7,357.88	\$8,825.69	\$1,467.81
TOTAL	\$13,519.33	\$14,378.48	\$859.15

OVERHEAD MATERIAL AND LABOR
TWO PHASE 300' LOOP FROM UNDERGROUND WITH 50KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$92.13	\$30.63	\$122.76
PRIMARY	\$1,560.13	\$3,230.02	\$4,790.15
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$518.04	\$458.50	\$976.54
TRANSFORMERS	\$2,344.96	\$492.94	\$2,837.90
SUBTOTAL WITHOUT STORES	\$4,515.26	\$4,212.09	\$8,727.35
STORES (2)	\$514.74	\$0.00	\$514.74
SUBTOTAL WITH STORES	\$5,030.00	\$4,212.09	\$9,242.09
ENGINEERING (4)	\$2,327.88	\$1,949.36	\$4,277.24
TOTAL	\$7,357.88	\$6,161.45	\$13,519.33

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
TWO PHASE 300' LOOP FROM UNDERGROUND WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$409.98	\$303.58	\$713.56
PRIMARY	\$1,909.00	\$1,590.76	\$3,499.76
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$3,097.02	\$961.43	\$4,058.45
TRENCHING	\$0.00	\$940.23	\$940.23
SUBTOTAL WITHOUT STORES	\$5,416.00	\$3,796.00	\$9,212.00
STORES (2)	\$617.42	\$0.00	\$617.42
SUBTOTAL WITH STORES	\$6,033.42	\$3,796.00	\$9,829.42
ENGINEERING (4)	\$2,792.27	\$1,756.79	\$4,549.06
TOTAL	\$8,825.69	\$5,552.79	\$14,378.48

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.2 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
TWO PHASE 150' RADIAL FROM UNDERGROUND WITH 50KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$4,527.42	\$4,360.11	(\$167.31)
MATERIAL	\$6,847.45	\$7,639.60	\$792.15
TOTAL	\$11,374.87	\$11,999.71	\$624.84

OVERHEAD MATERIAL AND LABOR
TWO PHASE 150' RADIAL FROM UNDERGROUND WITH 50KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$178.98	\$97.72	\$276.70
PRIMARY	\$1,340.72	\$2,294.06	\$3,634.78
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$322.82	\$210.32	\$533.14
TRANSFORMERS	\$2,359.51	\$492.94	\$2,852.45
SUBTOTAL WITHOUT STORES	\$4,202.03	\$3,095.04	\$7,297.07
STORES (2)	\$479.03	\$0.00	\$479.03
SUBTOTAL WITH STORES	\$4,681.06	\$3,095.04	\$7,776.10
ENGINEERING (4)	\$2,166.39	\$1,432.38	\$3,598.77
TOTAL	\$6,847.45	\$4,527.42	\$11,374.87

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
TWO PHASE 150' RADIAL FROM UNDERGROUND WITH 50KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$409.98	\$303.58	\$713.56
PRIMARY	\$1,181.14	\$1,104.94	\$2,286.08
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$3,097.02	\$961.43	\$4,058.45
TRENCHING	\$0.00	\$610.71	\$610.71
SUBTOTAL WITHOUT STORES	\$4,688.14	\$2,980.66	\$7,668.80
STORES (2)	\$534.45	\$0.00	\$534.45
SUBTOTAL WITH STORES	\$5,222.59	\$2,980.66	\$8,203.25
ENGINEERING (4)	\$2,417.01	\$1,379.45	\$3,796.46
TOTAL	\$7,639.60	\$4,360.11	\$11,999.71

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.2 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
THREE PHASE 300' LOOP FROM UNDERGROUND WITH 150KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$8,215.35	\$6,566.28	(\$1,649.07)
MATERIAL	\$10,856.37	\$15,450.20	\$4,593.83
TOTAL	\$19,071.72	\$22,016.48	\$2,944.76

OVERHEAD MATERIAL AND LABOR
THREE PHASE 300' LOOP FROM UNDERGROUND WITH 150KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$184.26	\$61.27	\$245.53
PRIMARY	\$2,424.51	\$4,357.00	\$6,781.51
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$518.04	\$458.50	\$976.54
TRANSFORMERS	\$3,535.34	\$739.41	\$4,274.75
SUBTOTAL WITHOUT STORES	\$6,662.15	\$5,616.18	\$12,278.33
STORES (2)	\$759.49	\$0.00	\$759.49
SUBTOTAL WITH STORES	\$7,421.64	\$5,616.18	\$13,037.82
ENGINEERING (4)	\$3,434.73	\$2,599.17	\$6,033.90
TOTAL	\$10,856.37	\$8,215.35	\$19,071.72

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
THREE PHASE 300' LOOP FROM UNDERGROUND WITH 150KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$389.61	\$277.21	\$666.82
PRIMARY	\$2,866.16	\$2,169.69	\$5,035.85
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$6,225.44	\$801.85	\$7,027.29
TRENCHING	\$0.00	\$1,240.09	\$1,240.09
SUBTOTAL WITHOUT STORES	\$9,481.21	\$4,488.84	\$13,970.05
STORES (2)	\$1,080.86	\$0.00	\$1,080.86
SUBTOTAL WITH STORES	\$10,562.07	\$4,488.84	\$15,050.91
ENGINEERING (4)	\$4,888.13	\$2,077.44	\$6,965.57
TOTAL	\$15,450.20	\$6,566.28	\$22,016.48

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.2 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
THREE PHASE 300' LOOP FROM UNDERGROUND WITH 300KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$8,590.97	\$7,383.12	(\$1,207.85)
MATERIAL	\$12,079.74	\$19,422.44	\$7,342.70
TOTAL	\$20,670.71	\$26,805.56	\$6,134.85

OVERHEAD MATERIAL AND LABOR
THREE PHASE 300' LOOP FROM UNDERGROUND WITH 300KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$184.26	\$61.27	\$245.53
PRIMARY	\$2,466.76	\$4,267.93	\$6,734.69
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$581.84	\$439.57	\$1,021.41
TRANSFORMERS	\$4,180.03	\$1,104.19	\$5,284.22
SUBTOTAL WITHOUT STORES	\$7,412.89	\$5,872.96	\$13,285.85
STORES (2)	\$845.07	\$0.00	\$845.07
SUBTOTAL WITH STORES	\$8,257.96	\$5,872.96	\$14,130.92
ENGINEERING (4)	\$3,821.78	\$2,718.01	\$6,539.79
TOTAL	\$12,079.74	\$8,590.97	\$20,670.71

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
THREE PHASE 300' LOOP FROM UNDERGROUND WITH 300KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$779.21	\$554.43	\$1,333.64
PRIMARY	\$2,866.16	\$2,169.69	\$5,035.85
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$8,273.46	\$801.85	\$9,075.31
TRENCHING	\$0.00	\$1,521.28	\$1,521.28
SUBTOTAL WITHOUT STORES	\$11,918.83	\$5,047.25	\$16,966.08
STORES (2)	\$1,358.75	\$0.00	\$1,358.75
SUBTOTAL WITH STORES	\$13,277.58	\$5,047.25	\$18,324.83
ENGINEERING (4)	\$6,144.86	\$2,335.87	\$8,480.73
TOTAL	\$19,422.44	\$7,383.12	\$26,805.56

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.2 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
THREE PHASE 150' RADIAL FROM UNDERGROUND WITH 150KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$6,116.89	\$4,798.98	(\$1,317.91)
MATERIAL	\$9,736.92	\$13,671.02	\$3,934.10
TOTAL	\$15,853.81	\$18,470.00	\$2,616.19

OVERHEAD MATERIAL AND LABOR
THREE PHASE 150' RADIAL FROM UNDERGROUND WITH 150KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$191.02	\$56.23	\$247.25
PRIMARY	\$1,801.61	\$3,120.90	\$4,922.51
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$396.90	\$265.09	\$661.99
TRANSFORMERS	\$3,585.66	\$739.41	\$4,325.07
SUBTOTAL WITHOUT STORES	\$5,975.19	\$4,181.63	\$10,156.82
STORES (2)	\$681.17	\$0.00	\$681.17
SUBTOTAL WITH STORES	\$6,656.36	\$4,181.63	\$10,837.99
ENGINEERING (4)	\$3,080.56	\$1,935.26	\$5,015.82
TOTAL	\$9,736.92	\$6,116.89	\$15,853.81

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

UNDERGROUND MATERIAL AND LABOR
THREE PHASE 150' RADIAL FROM UNDERGROUND WITH 150KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$389.61	\$277.21	\$666.82
PRIMARY	\$1,774.35	\$1,440.98	\$3,215.33
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$6,225.44	\$801.85	\$7,027.29
TRENCHING	\$0.00	\$760.64	\$760.64
SUBTOTAL WITHOUT STORES	\$8,389.40	\$3,280.68	\$11,670.08
STORES (2)	\$956.39	\$0.00	\$956.39
SUBTOTAL WITH STORES	\$9,345.79	\$3,280.68	\$12,626.47
ENGINEERING (4)	\$4,325.23	\$1,518.30	\$5,843.53
TOTAL	\$13,671.02	\$4,798.98	\$18,470.00

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.2 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
THREE PHASE 150' RADIAL FROM UNDERGROUND WITH 300KVA

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$5,434.23	\$5,615.82	\$181.59
MATERIAL	\$10,570.66	\$17,643.27	\$7,072.61
TOTAL	\$16,004.89	\$23,259.09	\$7,254.20

OVERHEAD MATERIAL AND LABOR
THREE PHASE 150' RADIAL FROM UNDERGROUND WITH 300KVA

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$286.54	\$84.14	\$370.68
PRIMARY	\$1,605.63	\$2,261.53	\$3,867.16
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$414.62	\$265.09	\$679.71
TRANSFORMERS	\$4,180.03	\$1,104.19	\$5,284.22
SUBTOTAL WITHOUT STORES	\$6,486.82	\$3,714.95	\$10,201.77
STORES (2)	\$739.50	\$0.00	\$739.50
SUBTOTAL WITH STORES	\$7,226.32	\$3,714.95	\$10,941.27
ENGINEERING (4)	\$3,344.34	\$1,719.28	\$5,063.62
TOTAL	\$10,570.66	\$5,434.23	\$16,004.89

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIA FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
THREE PHASE 150' RADIAL FROM UNDERGROUND WITH 300KVA**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$779.21	\$554.43	\$1,333.64
PRIMARY	\$1,774.35	\$1,440.98	\$3,215.33
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$8,273.46	\$801.85	\$9,075.31
TRENCHING	\$0.00	\$1,041.83	\$1,041.83
SUBTOTAL WITHOUT STORES	\$10,827.02	\$3,839.09	\$14,666.11
STORES (2)	\$1,234.28	\$0.00	\$1,234.28
SUBTOTAL WITH STORES	\$12,061.30	\$3,839.09	\$15,900.39
ENGINEERING (4)	\$5,581.97	\$1,776.73	\$7,358.70
TOTAL	\$17,643.27	\$5,615.82	\$23,259.09

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIA.2 FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
SMALL SINGLE PHASE SERVICE

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$51.05	\$123.95	\$72.90
MATERIAL	\$71.46	\$162.92	\$91.46
TOTAL	\$122.51	\$286.87	\$164.36

**OVERHEAD MATERIAL AND LABOR
SMALL SINGLE PHASE SERVICE**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$43.85	\$34.90	\$78.75
PRIMARY	\$0.00	\$0.00	\$0.00
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$43.85	\$34.90	\$78.75
STORES (2)	\$5.00	\$0.00	\$5.00
SUBTOTAL WITH STORES	\$48.85	\$34.90	\$83.75
ENGINEERING (4)	\$22.61	\$16.15	\$38.76
TOTAL	\$71.46	\$51.05	\$122.51

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIB FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
SMALL SINGLE PHASE SERVICE**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$136.68	\$115.84	\$252.52
PRIMARY	\$0.00	\$0.00	\$0.00
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$136.68	\$115.84	\$252.52
STORES (2)	\$15.58	\$0.00	\$15.58
SUBTOTAL WITH STORES	\$152.26	\$115.84	\$268.10
ENGINEERING (4)	\$10.66	\$8.11	\$18.77
TOTAL	\$162.92	\$123.95	\$286.87

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIB FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
LARGE SINGLE PHASE SERVICE

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$51.05	\$207.54	\$156.49
MATERIAL	\$129.98	\$558.66	\$428.68
TOTAL	\$181.03	\$766.20	\$585.17

**OVERHEAD MATERIAL AND LABOR
LARGE SINGLE PHASE SERVICE**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$79.77	\$34.90	\$114.67
PRIMARY	\$0.00	\$0.00	\$0.00
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$79.77	\$34.90	\$114.67
STORES (2)	\$9.09	\$0.00	\$9.09
SUBTOTAL WITH STORES	\$88.86	\$34.90	\$123.76
ENGINEERING (4)	\$41.12	\$16.15	\$57.27
TOTAL	\$129.98	\$51.05	\$181.03

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIB FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
LARGE SINGLE PHASE SERVICE**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$468.68	\$193.96	\$662.64
PRIMARY	\$0.00	\$0.00	\$0.00
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$468.68	\$193.96	\$662.64
STORES (2)	\$53.43	\$0.00	\$53.43
SUBTOTAL WITH STORES	\$522.11	\$193.96	\$716.07
ENGINEERING (4)	\$36.55	\$13.58	\$50.13
TOTAL	\$558.66	\$207.54	\$766.20

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIB FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
SMALL THREE PHASE SERVICE

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$51.05	\$169.67	\$118.62
MATERIAL	\$104.17	\$357.13	\$252.96
TOTAL	\$155.22	\$526.80	\$371.58

**OVERHEAD MATERIAL AND LABOR
LARGE SINGLE PHASE SERVICE**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$63.92	\$34.90	\$98.82
PRIMARY	\$0.00	\$0.00	\$0.00
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$63.92	\$34.90	\$98.82
STORES (2)	\$7.29	\$0.00	\$7.29
SUBTOTAL WITH STORES	\$71.21	\$34.90	\$106.11
ENGINEERING (4)	\$32.96	\$16.15	\$49.11
TOTAL	\$104.17	\$51.05	\$155.22

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIB FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
SMALL THREE PHASE SERVICE**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$299.61	\$158.57	\$458.18
PRIMARY	\$0.00	\$0.00	\$0.00
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$299.61	\$158.57	\$458.18
STORES (2)	\$34.16	\$0.00	\$34.16
SUBTOTAL WITH STORES	\$333.77	\$158.57	\$492.34
ENGINEERING (4)	\$23.36	\$11.10	\$34.46
TOTAL	\$357.13	\$169.67	\$526.80

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIB FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
LARGE THREE PHASE SERVICE

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$51.05	\$229.13	\$178.08
MATERIAL	\$129.98	\$694.73	\$564.75
TOTAL	\$181.03	\$923.86	\$742.83

**OVERHEAD MATERIAL AND LABOR
LARGE THREE PHASE SERVICE**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$79.77	\$34.90	\$114.67
PRIMARY	\$0.00	\$0.00	\$0.00
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$79.77	\$34.90	\$114.67
STORES (2)	\$9.09	\$0.00	\$9.09
SUBTOTAL WITH STORES	\$88.86	\$34.90	\$123.76
ENGINEERING (4)	\$41.12	\$16.15	\$57.27
TOTAL	\$129.98	\$51.05	\$181.03

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIB FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
SMALL LARGE PHASE SERVICE**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$582.84	\$214.14	\$796.98
PRIMARY	\$0.00	\$0.00	\$0.00
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$582.84	\$214.14	\$796.98
STORES (2)	\$66.44	\$0.00	\$66.44
SUBTOTAL WITH STORES	\$649.28	\$214.14	\$863.42
ENGINEERING (4)	\$45.45	\$14.99	\$60.44
TOTAL	\$694.73	\$229.13	\$923.86

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIB FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
SMALL PEDESTAL**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$50.93	\$108.60	\$159.53
PRIMARY	\$11.61	\$83.37	\$94.98
SECONDARY	\$155.81	\$88.92	\$244.73
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$32.68	\$32.68
SUBTOTAL WITHOUT STORES	\$218.35	\$313.57	\$531.92
STORES (2)	\$24.89	\$0.00	\$24.89
SUBTOTAL WITH STORES	\$243.24	\$313.57	\$556.81
ENGINEERING (4)	\$17.03	\$21.95	\$38.98
TOTAL	\$260.27	\$335.52	\$595.79

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIC FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
INTERMEDIATE PEDESTAL**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$88.25	\$126.38	\$214.63
PRIMARY	\$11.61	\$83.37	\$94.98
SECONDARY	\$184.25	\$75.77	\$260.02
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$32.68	\$32.68
SUBTOTAL WITHOUT STORES	\$284.11	\$318.20	\$602.31
STORES (2)	\$32.39	\$0.00	\$32.39
SUBTOTAL WITH STORES	\$316.50	\$318.20	\$634.70
ENGINEERING (4)	\$22.16	\$22.27	\$44.43
TOTAL	\$338.66	\$340.47	\$679.13

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIC FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
LARGE PEDESTAL**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$123.73	\$143.59	\$267.32
PRIMARY	\$0.00	\$83.37	\$83.37
SECONDARY	\$906.03	\$88.92	\$994.95
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$40.50	\$40.50
SUBTOTAL WITHOUT STORES	\$1,029.76	\$356.38	\$1,386.14
STORES (2)	\$117.39	\$0.00	\$117.39
SUBTOTAL WITH STORES	\$1,147.15	\$356.38	\$1,503.53
ENGINEERING (4)	\$80.30	\$24.95	\$105.25
TOTAL	\$1,227.45	\$381.33	\$1,608.78

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIC FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
PADMOUNTED SECONDARY JUNCTION BOX**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$0.00	\$0.00
PRIMARY	\$0.00	\$83.37	\$83.37
SECONDARY	\$1,947.42	\$468.20	\$2,415.62
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$1,947.42	\$551.57	\$2,498.99
STORES (2)	\$222.01	\$0.00	\$222.01
SUBTOTAL WITH STORES	\$2,169.43	\$551.57	\$2,721.00
ENGINEERING (4)	\$151.86	\$38.61	\$190.47
TOTAL	\$2,321.29	\$590.18	\$2,911.47

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIC FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
PADMOUNTED SECONDARY JUNCTION CABINET**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$0.00	\$0.00
PRIMARY	\$0.00	\$83.37	\$83.37
SECONDARY	\$5,386.00	\$328.63	\$5,714.63
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$5,386.00	\$412.00	\$5,798.00
STORES (2)	\$614.00	\$0.00	\$614.00
SUBTOTAL WITH STORES	\$6,000.00	\$412.00	\$6,412.00
ENGINEERING (4)	\$420.00	\$28.84	\$448.84
TOTAL	\$6,420.00	\$440.84	\$6,860.84

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIC FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
PADMOUNTED SECONDARY JUNCTION BOX
SECONDARY CONDUCTORS AND SERVICE TAPS**

To be calculated by the Company as needed.

**UNDERGROUND MATERIAL AND LABOR
SINGLE PHASE PRIMARY 48" SPLICE BOX
WITH SPLICES AND PULL LABOR**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$138.40	\$138.40
PRIMARY	\$654.45	\$1,578.91	\$2,233.36
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$65.36	\$65.36
SUBTOTAL WITHOUT STORES	\$654.45	\$1,782.67	\$2,437.12
STORES (2)	\$74.61	\$0.00	\$74.61
SUBTOTAL WITH STORES	\$729.06	\$1,782.67	\$2,511.73
ENGINEERING (4)	\$51.03	\$124.79	\$175.82
TOTAL	\$780.09	\$1,907.46	\$2,687.55

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIID FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
TWO PHASE PRIMARY 48" SPLICE BOX
WITH SPLICES AND PULL LABOR**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$276.80	\$276.80
PRIMARY	\$2,604.80	\$2,230.72	\$4,835.52
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$115.53	\$115.53
SUBTOTAL WITHOUT STORES	\$2,604.80	\$2,623.05	\$5,227.85
STORES (2)	\$296.95	\$0.00	\$296.95
SUBTOTAL WITH STORES	\$2,901.75	\$2,623.05	\$5,524.80
ENGINEERING (4)	\$203.12	\$183.61	\$386.73
TOTAL	\$3,104.87	\$2,806.66	\$5,911.53

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIID FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
THREE PHASE PRIMARY 48" SPLICE BOX
WITH SPLICES AND PULL LABOR**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$415.20	\$415.20
PRIMARY	\$2,874.61	\$2,737.86	\$5,612.47
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$132.93	\$132.93
SUBTOTAL WITHOUT STORES	\$2,874.61	\$3,285.99	\$6,160.60
STORES (2)	\$327.71	\$0.00	\$327.71
SUBTOTAL WITH STORES	\$3,202.32	\$3,285.99	\$6,488.31
ENGINEERING (4)	\$224.16	\$230.02	\$454.18
TOTAL	\$3,426.48	\$3,516.01	\$6,942.49

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIID FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
COST PER FOOT
SINGLE PHASE PRIMARY LATERAL TRENCH

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$3,886.43	\$4,610.62	\$724.19
MATERIAL	\$2,207.73	\$3,631.63	\$1,423.90
TOTAL	\$6,094.16	\$8,242.25	\$2,148.09
PER FOOT COST	\$6.09	\$8.24	\$2.15

**OVERHEAD MATERIAL AND LABOR
COST PER FOOT
SINGLE PHASE PRIMARY LATERAL TRENCH**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$0.00	\$0.00
PRIMARY	\$804.16	\$1,815.56	\$2,619.72
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$550.64	\$841.28	\$1,391.92
TRANSFORMERS	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$1,354.80	\$2,656.84	\$4,011.64
STORES (2)	\$154.45	\$0.00	\$154.45
SUBTOTAL WITH STORES	\$1,509.25	\$2,656.84	\$4,166.09
ENGINEERING (4)	\$698.48	\$1,229.59	\$1,928.07
TOTAL	\$2,207.73	\$3,886.43	\$6,094.16

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIE FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
COST PER FOOT
SINGLE PHASE PRIMARY LATERAL TRENCH**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$0.00	\$0.00
PRIMARY	\$3,046.72	\$2,208.78	\$5,255.50
SECONDARY	\$0.00	\$139.57	\$139.57
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$1,960.64	\$1,960.64
SUBTOTAL WITHOUT STORES	\$3,046.72	\$4,308.99	\$7,355.71
STORES (2)	\$347.33	\$0.00	\$347.33
SUBTOTAL WITH STORES	\$3,394.05	\$4,308.99	\$7,703.04
ENGINEERING (4)	\$237.58	\$301.63	\$539.21
TOTAL	\$3,631.63	\$4,610.62	\$8,242.25

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION III E FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
COST PER FOOT
TWO PHASE PRIMARY LATERAL TRENCH

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$4,973.17	\$6,257.91	\$1,284.74
MATERIAL	\$3,594.90	\$5,315.80	\$1,720.90
TOTAL	\$8,568.07	\$11,573.71	\$3,005.64
PER FOOT COST	\$8.57	\$11.57	\$3.00

**OVERHEAD MATERIAL AND LABOR
COST PER FOOT
TWO PHASE PRIMARY LATERAL TRENCH**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$0.00	\$0.00
PRIMARY	\$1,169.98	\$2,558.48	\$3,728.46
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$1,036.08	\$841.28	\$1,877.36
TRANSFORMERS	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$2,206.06	\$3,399.76	\$5,605.82
STORES (2)	\$251.49	\$0.00	\$251.49
SUBTOTAL WITH STORES	\$2,457.55	\$3,399.76	\$5,857.31
ENGINEERING (4)	\$1,137.35	\$1,573.41	\$2,710.76
TOTAL	\$3,594.90	\$4,973.17	\$8,568.07

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIE FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
COST PER FOOT
TWO PHASE PRIMARY LATERAL TRENCH**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$0.00	\$0.00
PRIMARY	\$4,459.64	\$3,372.56	\$7,832.20
SECONDARY	\$0.00	\$279.15	\$279.15
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$2,196.80	\$2,196.80
SUBTOTAL WITHOUT STORES	\$4,459.64	\$5,848.51	\$10,308.15
STORES (2)	\$508.40	\$0.00	\$508.40
SUBTOTAL WITH STORES	\$4,968.04	\$5,848.51	\$10,816.55
ENGINEERING (4)	\$347.76	\$409.40	\$757.16
TOTAL	\$5,315.80	\$6,257.91	\$11,573.71

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIIIE FOR DESIGN CRITERIA AND ASSUMPTIONS

OVERHEAD VS. UNDERGROUND SUMMARY SHEET
COST PER FOOT
THREE PHASE PRIMARY LATERAL TRENCH

<u>ITEM</u>	<u>OVERHEAD</u>	<u>UNDERGROUND</u>	<u>DIFFERENTIAL</u>
LABOR	\$6,988.66	\$7,489.30	\$500.64
MATERIAL	\$3,813.27	\$7,958.31	\$4,145.04
TOTAL	\$10,801.93	\$15,447.61	\$4,645.68
PER FOOT COST	\$10.80	\$15.45	\$4.65

**OVERHEAD MATERIAL AND LABOR
COST PER FOOT
THREE PHASE PRIMARY LATERAL TRENCH**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$0.00	\$0.00
PRIMARY	\$1,303.98	\$3,860.58	\$5,164.56
SECONDARY	\$0.00	\$0.00	\$0.00
POLES	\$1,036.08	\$917.01	\$1,953.09
TRANSFORMERS	\$0.00	\$0.00	\$0.00
SUBTOTAL WITHOUT STORES	\$2,340.06	\$4,777.59	\$7,117.65
STORES (2)	\$266.77	\$0.00	\$266.77
SUBTOTAL WITH STORES	\$2,606.83	\$4,777.59	\$7,384.42
ENGINEERING (4)	\$1,206.44	\$2,211.07	\$3,417.51
TOTAL	\$3,813.27	\$6,988.66	\$10,801.93

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION IIE FOR DESIGN CRITERIA AND ASSUMPTIONS

**UNDERGROUND MATERIAL AND LABOR
COST PER FOOT
THREE PHASE PRIMARY LATERAL TRENCH**

ITEM	MATERIAL (1)	LABOR(3)	TOTAL
SERVICE	\$0.00	\$0.00	\$0.00
PRIMARY	\$6,676.54	\$4,549.92	\$11,226.46
SECONDARY	\$0.00	\$0.00	\$0.00
TRANSFORMERS	\$0.00	\$0.00	\$0.00
TRENCHING	\$0.00	\$2,449.43	\$2,449.43
SUBTOTAL WITHOUT STORES	\$6,676.54	\$6,999.35	\$13,675.89
STORES (2)	\$761.13	\$0.00	\$761.13
SUBTOTAL WITH STORES	\$7,437.67	\$6,999.35	\$14,437.02
ENGINEERING (4)	\$520.64	\$489.95	\$1,010.59
TOTAL	\$7,958.31	\$7,489.30	\$15,447.61

(1) INCLUDES SALES TAX

(2) 11.4% OF ALL MATERIAL

(3) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(4) 46.28% OF ALL MATERIAL AND LABOR

SEE APPENDIX 3, SECTION III E FOR DESIGN CRITERIA AND ASSUMPTIONS

SMALL COMMERCIAL SERVICES (1)

WOOD POLE, ACCESSIBLE

ITEM	120 VOLT, 2-WIRE SERVICE			120/240 VOLT, 3-WIRE SERVICE		
	OH	UG	DIFF	OH	UG	DIFF
MATERIAL (2)	\$35.20	\$220.07	\$184.87	\$99.93	\$497.00	\$397.07
LABOR (4)	\$162.81	\$763.61	\$600.80	\$162.81	\$1,386.80	\$1,223.99
STORES	\$4.01	\$25.09	\$21.08	\$11.39	\$56.66	\$45.27
ENGINEERING (5)	\$93.50	\$466.86	\$373.36	\$126.87	\$898.04	\$771.17
TOTAL	\$295.52	\$1,475.63	\$1,180.11	\$401.00	\$2,838.50	\$2,437.50

WOOD POLE, INACCESSIBLE

ITEM	120 VOLT, 2-WIRE SERVICE			120/240 VOLT, 3-WIRE SERVICE		
	OH	UG	DIFF	OH	UG	DIFF
MATERIAL (2)	\$35.20	\$220.07	\$184.87	\$99.93	\$497.00	\$397.07
LABOR (4)	\$239.32	\$1,122.50	\$883.18	\$239.32	\$1,386.80	\$1,147.48
STORES	\$4.01	\$25.09	\$21.08	\$11.39	\$56.66	\$45.27
ENGINEERING (5)	\$128.91	\$632.95	\$504.04	\$162.28	\$898.04	\$735.76
TOTAL	\$407.44	\$2,000.61	\$1,593.17	\$512.92	\$2,838.50	\$2,325.58

CONCRETE POLE, ACCESSIBLE

ITEM	120 VOLT, 2-WIRE SERVICE			120/240 VOLT, 3-WIRE SERVICE		
	OH	UG	DIFF	OH	UG	DIFF
MATERIAL (2)	\$35.20	\$253.81	\$218.61	\$99.93	\$530.74	\$430.81
LABOR (4)	\$162.81	\$784.21	\$621.40	\$162.81	\$1,418.34	\$1,255.53
STORES	\$4.01	\$28.93	\$24.92	\$11.39	\$60.50	\$49.11
ENGINEERING (5)	\$93.50	\$493.78	\$400.28	\$126.87	\$930.04	\$803.17
TOTAL	\$295.52	\$1,560.73	\$1,265.21	\$401.00	\$2,939.62	\$2,538.62

(1) CONDITIONS FOR UG SERVICE TO A NON-RESIDENTIAL METER CAN INCLUDE;

- a. CUSTOMER'S MAIN LINE SWITCH IS LESS THAN OR EQUAL TO 125 AMPS (120/240 VOLT 3-WIRE SERVICE)
- b. THE METER CAN IS AT LEAST 5, BUT NOT MORE THAN 100' FROM THE POLE.

(2) INCLUDES SALES TAX

(3) 11.4% OF ALL MATERIAL

(4) INCLUDES PAYROLL, TAXES, INSURANCE, P&W, AND TRANSPORTATION

(5) 46.28% OF ALL MATERIAL AND LABOR

* THESE COSTS INCLUDE CABLE, CONDUIT, AND PULL BOXES.

SEE APPENDIX 3, PAGE 4, FOR DESIGN CRITERIA AND ASSUMPTIONS

CREDITS

INSTALLATION OR TRENCHING CREDITS	MAN-HOUR RATE		MAN-HOURS		CREDIT	UNIT
TRENCH & INSTALL LATERAL CONDUIT, 2"	\$96.94	/MH x	0.050	MH =	\$4.82	/FT
TRENCH & INSTALL LATERAL CONDUIT, >2"	\$96.94	/MH x	0.074	MH =	\$7.20	/FT
TRENCH & INSTALL SEC/SERV CONDUIT	\$96.94	/MH x	0.05	MH =	\$4.82	/FT
LARGE PEDESTAL (48"), PRIMARY SPLICE BOX	\$96.94	/MH x	2.87	MH =	\$278.22	/EA
SMALL PEDESTAL (30" OR SMALLED)	\$96.94	/MH x	0.78	MH =	\$75.61	/EA
CONCRETE TRANSFORMER PAD	\$96.94	/MH x	3.16	MH =	\$306.33	/EA

PVC PURCHASING CREDITS	CREDIT	UNIT
2" SCHEDULE 40 PVC	\$0.45	/FT
LARGER THAN 2" SCHEDULE 40 PVC	\$1.20	/FT