



**AGREEMENT**

**BETWEEN**

**NATIONAL GRID USA SERVICE COMPANY, INC.,  
NIAGRA MOHAWK POWER CORPORATION:**

**AND**

**NORTHLINE UTILITIES LLC  
AuSable Forks, NY**

**FOR**

**ELECTRIC OVERHEAD DISTRIBUTION and SUB-TRANSMISSION  
CONSTRUCTION SERVICES**

**Secondary Contractor of Choice New York Territory**

**ASSOCIATED SAP CONTRACT № 4400007832**

Effective Date  
June 21, 2019

## AGREEMENT

**This Agreement**, made and entered into on the date when signed by the party signing last in time ("Effective Date"), by and between **National Grid USA Service Company, Inc.**, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, with its principal place of business at 40 Sylvan Road, Waltham, Massachusetts 02451 for and on behalf of its affiliate companies which may include the following entities: **Niagara Mohawk Power Corporation** (hereinafter collectively the "COMPANIES" and individually the "Company") ("Owner"), and **Northline Utilities LLC**, a New York limited liability company, having its principal place of business at 15 School Lane, Suite 200, AuSable Forks, NY 12912 ("Contractor"). (Here in after each, individually, a "Party" and, collectively, the "Parties") for the Services identified hereafter as:

### National Grid – Electric Overhead Distribution and Sub-Transmission Construction Services New York – Secondary Contractor of Choice

#### ARTICLE 1 - SCOPE OF WORK

During the term of this Agreement, the Company will issue Work Authorization Forms to the Contractor for the Contractor's performance of work on or related to the installation, construction, repair and maintenance of Company's electrical distribution system in various locations in New York (the "Work"). The Contractor hereby agrees to perform the Work and to provide equipment, apparatus, tools, labor, services, and facilities (to the extent not specified elsewhere in the Agreement as furnished by others) and to do all things necessary to perform the Work in various location within the Contractor's assigned Area of Responsibility, all in accordance with this Agreement.

The Contractor hereby agrees to perform the Work under this Agreement which shall include: 1) Electrical Construction Services and 2) Storm Restoration Work in any area of National Grid territory, as needed.

The Contractor shall be authorized to perform specific Work only upon Contractor's return to Company's designated representative of a Work Authorization Form executed by an officer of contractor or other duly authorized individual. The Work Authorization Form when fully executed shall become a Contract Document.

It is recognized by the Parties to the Agreement that there may be times when emergency Work is required to be performed at the Company's discretion. At such times, the parties agree to be bound to the terms and conditions contained in the Agreement.

The Company does not guarantee the Contractor any level or quantity of Work pursuant to this Agreement and the Contractor recognizes that there is no obligation to award any Work or any specific quantity of Work to the Contractor. Furthermore, the Company reserves the express right to award Work to third Parties or to perform Work utilizing Company crews. The Company further reserves the right to competitively bid Projects within the scope of this Agreement and may request the Contractor to prepare a bid for such Project related Work and upon the award of such Work to Contractor, to perform such Work under this Agreement.

The designation of Contractor as a provider in specified Areas of Responsibility in no way gives the Contractor exclusive rights to work performed in the designated Area of Responsibility.

## ARTICLE 2 - CONTRACT DOCUMENTS

The following documents, including all attached schedules, appendices, exhibits or other attachments thereto, are incorporated by reference as if fully set forth herein, and are hereinafter referred to collectively and individually as the "Contract Documents" or the "Agreement" listed in order of precedence:

1. Agreement
2. Schedule A - National Grid Terms & Conditions for Construction, Form 00700, Revised February 18, 2019
3. Schedule B - Overhead Electric Distribution and Sub-Transmission Construction Contract Specification
4. Schedule C - Secondary CoC Modifications and Q&A
5. Schedule D - Work Authorization Form
6. Schedule E - Pricing Workbook (Unit Library, Equipment & Labor Rates)
7. Schedule F - Contractor Safety Requirements
8. Schedule G - Contractor Environmental Requirements

In the event of conflict between the Contract Documents, the order of precedence shall be as set forth above.

## ARTICLE 3 – TERM

This Agreement shall be effective beginning on June 21, 2019, or when the Agreement is executed by all Parties, whichever occurs last in time. It shall continue in full force and effect until March 31, 2020 or in accordance with the provision of Article 18.0 of the Terms and Conditions, and as set forth below. The Company reserves the right, at its sole option, to cancel this contract at any time and for any reason.

At the option of the Company, this Agreement may be extended by for two (2) one (1) year period by written amendment signed by the Parties. The Company will communicate its intent to exercise such option by written notice to the contractor ninety (90) days or more prior to the expiration of the then current term.

Whether the Agreement is extended as provided for above or not, for Work being performed under a Work Authorization issued within the term of the Agreement, this Agreement shall continue in full force and effect in relation to such Work until the date that such Work is completed.

All warranties provided for in this Agreement shall remain in full force and effect until their stated expiration.

#### ARTICLE 4 – SCHEDULE

This Agreement shall be effective beginning on June 21, 2019. Any Work to be performed under this Agreement shall be commenced on the date specified in the relevant Work Authorization Form, and shall be completed in accordance with the schedule developed by the Company and accepted by the Contractor. The Contractor shall prepare updated schedules as may be requested by the Company.

#### ARTICLE 5 – CONTRACT PRICE

The Company will pay the Contractor for the segment of spend as stated in the Pricing Workbook.

The Contract Price shall be adjusted for additions, deletions or changes to the Work as set forth in Section 9.0 of the Terms and Conditions.

Unless otherwise indicated in the relevant Work Authorization Form, the project cost to be paid by the National Grid Companies to the Contractor paid on a unit price basis set forth in the Pricing Workbook (Unit Library and Labor Prices).

On an annual basis, the unit price will be adjusted to reflect the change in labor costs as identified in the local IBEW wage agreements. The unit price adjustment will be made in accordance with the percentage that labor represents of the total unit price as identified in your initial bid submission. The labor adjustment will only apply to the change in labor pay rates, contractual benefits, and the associated statutory costs. All other overheads and profit will remain fixed. All price adjustments will be effective 30 days after the requested adjustment has been approved.

All other components of the unit price will remain fixed for the duration of this agreement.

#### ARTICLE 6 – SALES & USE TAXES

If the work under this Agreement is performed in New York State and is classified as Capital Improvement to Real Property under the NYS Sales Tax law, the Contractor is liable for paying all applicable New York State and local sales tax and this cost is included in the Contract Price. The Company will provide a Certificate of Capital Improvement (Form ST-124).

If the Work under this Agreement is performed in Massachusetts and is “directly and exclusively” used in furnishing gas and electricity, in accordance with Massachusetts Sales Tax law, labor, materials, equipment and supplies that the Contractor acquires and uses to complete the work qualify as tax exempt under the T&D Exception. The Contractor may issue an Exempt Use Certificate (Form ST-12) or request one from the Company.

Most, if not all, of the Work in Massachusetts and Rhode Island is considered “Construction Contract” and thus the Contractor is liable for paying all applicable sales tax.

## ARTICLE 7 – PAYMENTS

Unless otherwise indicated in the relevant Work Authorization Form, the Contractor shall submit to the Company its invoice and support documentation, in a form acceptable to the Company. Invoices shall contain appropriate supporting documentation as requested and set forth more fully elsewhere in the Contract Documents and relevant Work Authorization Form

For Time and Equipment Work, each invoice shall include the actual verifiable quantity of labor and equipment expended in performing the Work, the actual verifiable quantity of materials or equipment supplied to the Project, and actual and verifiable costs for rented equipment and Subcontractors. The measurement and value of the invoiced quantities and costs shall be determined in accordance with the Pricing Workbook. Each such invoice shall include back up documentation as requested in the Specification and relevant Work Authorization Form.

All invoices shall be submitted and payments made in accordance with and subject to the Terms and Conditions.

Contractor shall submit invoices for work completed, accepted and approved by National Grid. Contractor must reference the National Grid Contract Number on all invoices.

All invoices shall reference:

- Contract Number
- Work Authorization Number or Work Request Number
- Contractor's invoice number
- Invoice date
- Description of pay items
- Change Orders
- Field Construction Supervisor's Name (as shown on WAF)

Electronic Invoicing: National Grid reserves the right to employ an electronic invoicing system with the Contractor at any time during the life of the contract, and the contractor shall be required to comply with the process and data requirements of that system.

## ARTICLE 8 – NOTICES

Commercial matters including inquiries regarding Agreement terms and conditions, modifications to this Agreement and negotiation of changes shall be address to:

National Grid  
Richard Cheung, Buyer, Procurement

No changes to this Agreement will be binding on the Company without prior written approval of National Grid Procurement.

## ARTICLE 9 – SAFETY

The Contractor assumes complete responsibility for the safe performance of the work and shall comply fully with:

ARTICLE 10 – KEY PERFORMANCE INDICATORS


The Contractor and Company will work to establish Key Performance Indicators (KPIs) associated with this agreement. Additional details on how the KPI's will be utilized is outlined and the **Electric Distribution and Sub-Transmission Contract Specification**.

ARTICLE 11 - ENTIRE AGREEMENT


This Agreement, including all Contract Documents, constitutes the entire Agreement between the Owner and the Contractor, with respect to the Work specified, and all previous representations relative thereto, either written or oral are hereby annulled and superseded. No modification of any of the provisions of this Agreement shall be binding unless in writing and signed by a duly authorized representative of each party hereto.

IN WITNESS WHEREOF, each party hereto has caused this Agreement to be executed by its duly authorized representative on the day and year set forth below.

**Northline Utilities LLC.:**

  
\_\_\_\_\_  
Signature  
PAUL QUICK  
\_\_\_\_\_  
Name  
VICE PRESIDENT  
\_\_\_\_\_  
Title  
07/08/2019  
\_\_\_\_\_  
Date

**National Grid USA Service Company  
Niagara Mohawk Power Corporation:**

  
\_\_\_\_\_  
Signature  
Matt Bieber  
\_\_\_\_\_  
Name  
Category Manager  
\_\_\_\_\_  
Title  
7/12/2019  
\_\_\_\_\_  
Date

# **SCHEDULE A**

Terms and Conditions for Construction, Form 00700, Rev. February 18, 2019



## **SCHEDULE B**

### **Contract Specification**





**Overhead Electric Distribution & Sub Transmission  
Construction Contract Specification**

# **SCHEDULE C**

## **Secondary CoC Modifications and Q&A**

### **Secondary CoC Modifications**

#### **8.5 CoC Staffing Requirements**

These are full time requirements as part of the primary CoC. The secondary CoCs will be doing intermittent work. These functions will be required while operating on our property, but are not required when not on property. At the start of being on property, NGrid will request these contacts. If NGrid does not get enough response, they hold the right to require the CoC to dedicate individuals to the roles. The price for this staffing should be included in the unit rates.

The number of positions based on manpower will not apply. This includes the Core Team modification process. If the secondary gets into a situation where they are supplying long term, sustained resources in an area, this will be addressed separately, and additional compensation may be considered.

#### **11.4 Travel – This section is replaced with the below information for Secondary CoCs.**

National Grid expects the COC workforce to be mobile. The COC's service territory is large and the COCs will need to move around their territory to complete work as it comes up. In general, National Grid agrees to pay mobilization but will require the COC to build work site travel (during construction phase) and demobilization costs into their unit pricing.

National Grid agrees to pay the mobilization to each showup or job site. When a job is starting, National Grid will pay the COC to get the people and equipment to the work location. National Grid will pay the agreed mobilization cost from the approved final estimate for the job.

The agreed mobilization will include all efforts to move equipment in a cost effective manner. The estimator will review the mobilization plan to ensure National Grid is protected from excessive distance or inefficiencies.

National Grid will not pay travel expenses once resources and equipment have been mobilized to the site.

Any travel required in completing the construction of the project is not reimbursable and should be included in the COC's unit pricing.

The COC is responsible for all demobilization costs and should build them into their unit pricing. National Grid will not pay travel expenses for demobilization. Therefore, whenever resources or equipment are returning to the COC's headquarters or central location, the COC is responsible for that cost.

If resources and equipment are being moved from Job A to Job B, then this relocation is considered mobilization to Job B, and National Grid will pay the COC for these expenses through the travel units.

National Grid will not compensate the COC for moving resources or equipment from one active job to another unless National Grid dictates that the COC relocate. If National Grid requires movement from an active construction job (Job C) to another job (Job D), then National Grid will pay for the mobilization to Job D and then mobilization back to Job C. If the COC decides to move resources or equipment amongst active job sites, then there is no reimbursement.

National Grid has established a travel unit for compensating the COC for travel. Each COC price will be a fully-loaded price per person per mile for travel. This price shall be inclusive of all equipment. National Grid will not compensate the COC separately for any equipment (including specialty); it needs to be factored into the travel unit price.

### **Q&A**

-When framing for wire runs and displacing phases, are we to use units PW6560t & PW6570t to account for this work?

All wire movements, displacements, temporary arms, hot arms, etc are included in the units. We don't pay separately for those.

- Traffic protection is listed as something that needs to be included in the unit pricing. Is this to be inclusive of police details and flaggers?

**SCHEDULE D**

**Work Authorization Form**

## **SCHEDULE E**

### **Overhead Unit Pricing Guide**

**Contractor Name:** Northline Utilities llc.

**Cost Breakdown**

Type	%
Field Labor	
Equipment	
Fuel	
Overhead	
Profit	
Total (Must total 100%)	100.00%

**Sub-T Multiplier**

Classification	Multiplier
<69kV	
@69kV	

## Unit Guide Notes

**\*Unit Guide is not all inclusive - Refer to National Grid OH Distribution, UG Distribution & Sub-Transmission Standards, Specifications & Procedures and the Electric Distribution Construction Contract Specification for further details and clarifications.**

### Included in the Units

The Units are all inclusive and shall include:

- Labor & equipment required to complete each task
- Fuel
- Estimating
- Home office, administration, supervision, & management
- Showup sites
- Safety & environmental compliance
- Travel
- Holidays
- Traffic & Pedestrian protection
- Work area protection
- Design point setups & breakdowns
- Outage notifications
- General Permitting (city, town, county, state, etc.)
- Temporary restoration
- Spoils removal
- Delays (including weather)
- Profit
- Overhead
- Miscellaneous consumable materials
- Labeling & Identifying per NG standards/EOPs

### Not Included in the Units

Materials are not included in the unit costs. National Grid will deliver the materials to the COCs showup site.  
Third party invoices (i.e. police details, etc.) are not included in the units.  
Specialized Equipment

### Definitions

Specialized Equipment - Equipment not typically used in the performance of electric line distribution work either on highway or off-road. List of specialized equipment is in Equipment Section of the Unit Guide.

### General Info

Units cover project and program work

Open wire and multiplex secondary are treated the same. Both will count as 1 for purposes of counting units.

Major voltage conversions will be completed utilizing miscellaneous (labor & equipment) units. Covers as you go conversions are included in the units

All work must be completed in compliance with local, state, city, federal, and National Grid specifications and standards.

If a COC utilizes subcontractors to complete any unitized work, the COC will be paid the unit price for the work.

If a COC utilizes subcontractors to complete non-core work (not defined in units), the COC will be paid via third party Pass Thru invoices.

### Sub transmission (SubT)

New England SubT voltages are greater than or equal 23kv up to and including 46kv.

New York SubT voltages are greater than or equal to 23kv up to and including 69kv.

SubT work will be reimbursed using the OH distribution unit library plus a difficulty factor ("Factor").

### Overtime

All units prices are based on a 40 hour work week

Overtime / premium time work must be approved by National Grid or it is non-reimbursable

Overtime / premium time work will be compensated under the miscellaneous labor units.

**Pricing Guide Effective 7/1/2019**

Unit Code	Family	Type	Unit Action	UOM	Unit Description	Note	Price
PO6030i	Pole	Install	Install	Each	Install pole up to and including 50' augering the hole	Includes backfill hole, tamp backfill, pole tags, numbering, reflectors, cover-up as required and remove excess spoils.	
PO6031i	Pole	Install	Install	Each	Install pole up to and including 50' hand digging the hole		
PO6032i	Pole	Install	Install	Each	Install pole up to and including 50' rock drilling the hole. Rock drill/ledge machine must be used.	If multiple methods are used to excavate the hole, then the last excavation technique will be used to select appropriate unit.	
PO6033i	Pole	Install	Install	Each	Install pole up to and including 50' vac excavating the hole		
PO6034i	Pole	Install	Install	Each	Install pole up to and including 50' using a back hoe to excavate the hole	Includes removal, excavation, backfilling, debris removal and all cuts.	
PO6030r	Pole	Remove	Remove	Each	Remove pole up to and including 50' all types		
PO6070i	Pole	Install	Install	Each	Install pole over 50' augering the hole	Includes backfill hole, tamp backfill, pole tags, numbering, reflectors, cover-up as required and remove excess spoils.	
PO6071i	Pole	Install	Install	Each	Install pole over 50' hand digging the hole		
PO6072i	Pole	Install	Install	Each	Install pole over 50' rock drilling the hole	If multiple methods are used to excavate the hole, then the last excavation technique will be used to select appropriate unit.	
PO6073i	Pole	Install	Install	Each	Install pole over 50' vac excavating the hole		
PO6074i	Pole	Install	Install	Each	Install pole over 50' using a back hoe to excavate the hole	Includes removal, excavation, backfilling, debris removal and all cuts.	
PO6070r	Pole	Remove	Remove	Each	Remove pole over 50' all types		
PO6090i	Pole	Barrel	Install	Each	Install barrel	Includes machine excavation w/ backhoe, backfilling & debris removal. No differentiation between Highway & Off Road (covered under pole installation unit)	
PO6090r	Pole	Barrel	Remove	Each	Remove barrel		
PO6110n	Pole	Hold Pole	None	Hours	Hold pole	Includes labor & equipment to hold pole for an hour. Not to be used with cut & kick.	
PO6120n	Pole	Cut & Kick	None	Each	Shift pole / cut and kick up to and including 50 FT wood	Includes cut and shift to set in place, re-excavation (re-auger / hand-dig) if necessary, backfill hole, tamp backfill, pole tags, numbering, reflectors, cover-up as required and remove butt and excess spoils. Not a differential unit includes pole set.	
PO6122n	Pole	Cut & Kick	None	Each	Shift pole / cut and kick over 50 FT wood	Includes cut and shift to set in place, re-excavation (re-auger / hand-dig) if necessary, backfill hole, tamp backfill, pole tags, numbering, reflectors, cover-up as required and remove butt and excess spoils. Not a differential unit includes pole set.	
PO6130n	Pole	Straighten Pole	None	Each	Straighten pole	Includes excavating / hand digging, backfill, tamp, cribbing and/or adjusting existing guy	
PO6180n	Pole	Failed Attempt	None	Each	Obstruction, Failed attempt (per failed hole or anchor).	Unit is earned when excavating a pole or anchor hole and an obstruction is encountered. Unit can be claimed when the estimated method of digging has failed; when a third party stake pole has obstruction; and when dig safe has mismarked other UG utilities. Unit cannot be claimed when moving locations at the design point; encountering obstruction requiring hand dig to dislodge; and when equipment assigned to the task breaks down.  Only one failed attempt unit can be earned per design point unless approved locations were ordered by a third party, i.e. DOT. Regardless if the same hole is used or a new hole is created, the failed attempt will be awarded in addition to the pole install unit associated with the final method of digging.  * On the second failed attempt per Work Request, the CS shall be contacted for approval and/or to authorize another form of digging for the rest of the job.	
PO6190n	Pole	Top Pole	None	Each	Top pole	Unit covers cutting the top of the pole. Used in addition to pole set and cut & kick when old pole remains (double wood with pole butt still in ground).	
PO6520i	Pole	Anchor	Install	Each	Install rock anchors	Install rock anchor. Drilling hole with compressor.	
PO6530i	Pole	Anchor	Install	Each	Install anchor with a rock drill	Includes (installation in rock, surface ledge, etc), drilling hole with rock drill and installing anchor with rod.	
PO6520r	Pole	Anchor	Remove	Each	Remove rock anchors	Removal includes removing old anchor rod and restoration.	
PO6540n	Pole	Anchor	None	Each	Deadman / Plank anchor	Includes excavation / trenching, plank, anchor with rod, backfill, tamp and remove excess spoil.	
AG6420i	Pole	Anchor	Install	Each	Install swamp anchor	Complete unit, includes all hardware, guy guard, bonding and excavation.	
AG6420r	Pole	Anchor	Remove	Each	Remove Swamp Anchor	Includes removing old anchor rod.	
AG6250i	Pole	Anchor	Install	Each	Install 8' to 10' anchor w/rod	Complete unit, includes all hardware (all helix sizes).	
AG6250r	Pole	Anchor	Remove	Each	Remove 8' to 10' anchor w/rod	Removal includes old anchor rod.	
AG6260i	Pole	Anchor	Install	Each	Install anchor, all types, hand digging the hole	Includes hand digging excavation / trenching, anchor with rod, backfill, tamp and remove excess spoil.	
AG6470i	Pole	Anchor	Install	Each	Install push brace	Push brace, wood, machine dig. Includes digging hole, setting push brace and associated hardware, backfilling, tamping, removal of excess spoil, pole tags, numbering and reflecting.	
AG6470r	Pole	Anchor	Remove	Each	Remove push brace	Includes removing push brace and associated hardware, backfilling, tamping, removal of excess spoil and restoration.	
AG6470t	Pole	Anchor	Transfer	Each	Transfer push brace	Push brace, wood, machine dig. Includes digging hole, setting push brace and associated hardware, backfilling, tamping, removal of excess spoil, pole tags, numbering and reflecting.	
PO6231n	Pole	Hard Surface	None	Per Design Point	Adder for completing work in frost (Used only in hand digging application)	Unit will be earned for breaking frost. Will be used for ground grid installation, poles, anchors and delta ground configuration.*Unit is not earned when installing just a ground rod. Can only earn 1 unit per design point.	
PO6221n	Pole	Hard Surface	None	Per Design Point	Adder for completing work in hard surface (Break hole in concrete)	Regardless of method of excavation, unit will be earned for breaking hard surface. Will be used for ground grid installation, poles, anchors and delta ground configuration.*Unit is not earned when installing just a ground rod. Can only earn 1 unit per design point. Unit includes temporary patch.	
AG6450i	Grounding	Grounding	Install	Each	Ground pole	Installation of rod, down ground, molding, bonding and all connections. Includes installation of armor guard on new poles if required.	

AG6500n	Grounding	Ground Grid	None	Per Pole	Ground grid combination	Ground grid combination. Includes 2 ground rods, 2 pole grounds, 5x6 mesh mat, excavation, molding, connections and restoration
AG6465i	Grounding	Grounding	Install	Each	Install grounds for a delta wired configuration	Install necessary grounds to adhere to National Grid standard for properly grounding a delta wired configuration. Unit can be used for installation of new grounds or maintenance to existing grounds.
AG6463i	Grounding	Grounding	Install	Each	Install Armor Guard on existing ground rod	Unit includes all the labor and equipment to install armor guard on existing ground. Installation
PF6330i	Framing	Single Arm	Install	Each	Install Single Arm	Itemize your work separately from glass and shoes. Count how many you have of each and select units accordingly.
PF6330r	Framing	Single Arm	Remove	Each	Remove Single Arm	
PF6380i	Framing	Insulator & Pin	Install	Each	Install insulator and pin	
PF6380r	Framing	Insulator & Pin	Remove	Each	Remove insulator and pin	Wire transfers are not included and are earned in separate units.
PF6610i	Framing	Dead-End	Install	Each	Install Deadend / insulator / clamp	
PF6610r	Framing	Dead-End	Remove	Each	Remove Deadend / insulator / clamp	Insulator and pin units include pole top pin, ridge pin, armless, candlestick, tangent insulator, arm
PF6620i	Framing	Two Pole Platform Structure	Install	Each	Install platform structure to house equipment between two pole structure.	Includes the rack and upper framing required to build to standard.
PF6430i	Framing	Line Breaker	Install	Each	Install line breaker / Idlers	Includes the use of temporary jumpers.
PF6430r	Framing	Line Breaker	Remove	Each	Remove line breaker / Idlers	Includes the use of temporary jumpers.
PF6470i	Framing	Alley Arm	Install	Each	Install up to 10 ft, single or double alley arm, including braces	Includes all hardware required for this pole configuration. Single & double alley arm are covered under this unit.
PF6470r	Framing	Alley Arm	Remove	Each	Remove up to 10 ft, single or double. alley arm, including braces	Includes all hardware required for this pole configuration. Single & double alley arm are covered under this unit.
PF6490i	Framing	Brackets	Install	Each	Install aerial / spacer cable bracket (all other types of brackets "E" "C" "44")	Includes all hardware, bonding, bracket and spacers required for this pole configuration.
PF6490r	Framing	Brackets	Remove	Each	Remove aerial / spacer cable bracket (all other types of brackets "E" "C" "44")	Includes all costs of removal
PF6490t	Framing	Brackets	Transfer	Each	Transfer aerial / spacer cable bracket (all other types of brackets "E" "C" "44")	Includes all hardware required for this pole configuration. Includes bonding bracket.
PF6520i	Framing	Brackets	Install	Each	Install spacer cable tangent bracket/ aerial cable bracket	Includes all hardware and bonding as required.
PF6520r	Framing	Brackets	Remove	Each	Remove spacer cable tangent bracket/ aerial cable bracket	Includes all costs of removal
PF6520t	Framing	Brackets	Transfer	Each	Transfer spacer cable tangent bracket/ aerial cable bracket	Includes all hardware and bonding as required.
PF6350i	Framing	Brackets	Install	Each	Install 3 phase terminator bracket	Includes all hardware and bonding as required.
PF6350r	Framing	Brackets	Remove	Each	Remove 3 phase terminator bracket	Includes all costs of removal
PF6240i	Framing	Pole Top Extensions	Install	Each	Install pole top extension	Pole top extension, fiberglass, steel, or wood includes, extension assembly, drilling, bonding as required.
PF6240r	Framing	Pole Top Extensions	Remove	Each	Remove pole top extension	Includes all costs of removal
PF6620r	Framing	Two Pole Platform Structure	Remove	Each	Remove platform structure housing equipment between two pole structure.	Includes the rack and upper framing.
PW6560t	Primary Wire	Transfer Wire	Transfer	Each	Transfer primary	Includes tying, untying, and installation of all temporary arms (any types) and all wire shifts required in construction.
PW6570t	Primary Wire	Transfer Wire	Transfer	Each	Transfer primary deadend	Includes tying, untying, deadending, and installation of all temporary arms (any types) and all wire shifts required in construction.
PW6600i	Primary Wire	Over 1/0 Wire	Install	Each Section	Install wire over 1/0 - per wire, per section / span	All units are per wire, per span includes all activities required to run wire, running blocks, sisal cord, bull rope, wire shifts, (all main-line and beginning & end taps are included), deadending and resagging. Dead end bells included in framing unit.
PW6600r	Primary Wire	Over 1/0 Wire	Remove	Each Section	Remove wire over 1/0 - per wire, per section / span	Covers both Energized / De-energized conditions All units are per wire, per span includes all activities required to remove wire.
PW6620i	Primary Wire	Up to 1/0 Wire	Install	Each Section	Install wire up to & including 1/0 - per wire, per section / span	Covers both Energized / De-energized conditions All units are per wire, per span includes all activities required to run wire, running blocks, sisal cord, bull rope, wire shifts, (all main-line and beginning & end taps are included)), deadending and resagging. Dead end bells included in framing unit.
PW6620r	Primary Wire	Up to 1/0 Wire	Remove	Each Section	Remove wire up to & including 1/0, - per wire, per section / span	Covers both Energized / De-energized conditions All units are per wire, per span includes all activities required to remove wire.
PW6720i	Primary Wire	Messenger	Install	Each Section	Install primary conductor messenger - per section / span	Covers both Energized / De-energized conditions All units are per span includes all activities required to run wire, running blocks, pulling rope, wire shifts, (all main-line and beginning & end taps are included), deadending and resagging. Dead end bells included in framing unit.
PW6720r	Primary Wire	Messenger	Remove	Each Section	Remove primary conductor messenger - per section / span	All units are per span includes all activities required to remove messenger.
PW6720t	Primary Wire	Messenger	Transfer	Each Section	Transfer primary conductor messenger - per section / span	Includes untying, tying, brackets, shifts and securing messenger
PW6750i	Primary Wire	Spacer Cable	Install	Each Section	Install primary conductor spacer cable - per bundle, per section / span	All units are per span includes all activities required to run wire, running blocks, pulling rope, wire shifts, (all taps are included except for side taps), deadending and resagging. Dead end bells included in framing unit.
PW6750r	Primary Wire	Spacer Cable	Remove	Each Section	Remove primary conductor spacer cable - per bundle, per section / span	All units are per span includes all activities required to remove cable.
PW6750t	Primary Wire	Spacer Cable	Transfer	Each Section	Transfer primary conductor spacer cable - per bundle, per section / span	Includes untying, tying, brackets, shifts and securing cables
PW6781i	Primary Wire	Aerial Cable	Install	Each Section	Install primary conductor aerial cable - per bundle, per section / span (pre lashed cable)	All sizes; mid-span rollers, spider line, pull rope, and sagging. Per bundle, per section. Includes position pulling equipment, rollers, spider line & pull rope; pull cable; sagging; equipment removal
PW6782i	Primary Wire	Aerial Cable	Install	Each Section	Install primary conductor aerial cable - per bundle, per section / span - Includes lashing	All sizes; includes banding and lashing to messenger, mid-span rollers, spider line, pull rope, and sagging. Per bundle, per section. Includes position pulling equipment, rollers, spider line & pull rope; pull cable; lashing/sagging; equipment removal
PW6780r	Primary Wire	Aerial Cable	Remove	Each Section	Remove primary conductor aerial cable - per bundle, per section / span	All units are per bundle, per span includes all activities required to remove cable.
PW6780t	Primary Wire	Aerial Cable	Transfer	Each Section	Transfer primary conductor aerial cable - per bundle, per section / span	Includes untying, tying, shifts and securing cables. (bracket installation separate)
PW6810n	Primary Wire	Splices	None	Each	Spacer cable - splice	Includes splice preparing conductor, sagging



PW6820n	Primary Wire	Splices	None	Each	Aerial cable - splice	Includes splice, preparing conductor, sagging	\$
PW6670i	Primary Wire	Splices	Install	Each	Install compression splice (all sizes) - includes messenger	To be used when splicing conductor (not used when running new wire, removing wire or installing / removing equipment) includes preparation of wire, automatic splice, connections, temp. jumpers and piecing up to 15 feet of wire.	\$
PW6655i	Primary Wire	Splices	Install	Per Conductor	Install automatic splice primary (all sizes)	To be used when splicing conductor (not used when running new wire, removing wire or installing / removing equipment). Includes preparation of wire, automatic splice, connections, temp. jumpers and piecing up to 15 feet of wire.	\$
PW6830i	Primary Wire	Taps	Install	Each	Install TAP ( do not use with wire removal) - each	Install or remove per tap/phase. Includes temporary jumpers (Includes taps, hot line clamps, wire & use of temporary jumpers. DO NOT use for Load Break switches, Load Break Disconnects, cutouts, automatic and new wire runs.)	\$
PW6830r	Primary Wire	Taps	Remove	Each	Remove TAP ( do not use with wire removal) - each	All units are per tap, per span includes all activities required to remove tap.	\$
SF6960i	Secondary Framing	Dead End	Install	Each	Install secondary dead end	Installation of hardware only.	\$
SF6960r	Secondary Framing	Dead End	Remove	Each	Remove secondary dead end	Includes all activities required to remove.	\$
SF6040i	Secondary Framing	1 Spool Rack / Neutral Clamp	Install	Each	Install 1 spool rack / secondary bracket	Includes all costs of installation.	\$
SF6040r	Secondary Framing	1 Spool Rack / Neutral Clamp	Remove	Each	Remove 1 spool rack / secondary bracket	Includes all costs of removal	\$
SF6100i	Secondary Framing	3 Spool Rack	Install	Each	Install 3 spool rack	Includes all costs of installation.	\$
SF6100r	Secondary Framing	3 Spool Rack	Remove	Each	Remove 3 spool rack	Includes all costs of removal	\$
SW6000i	Secondary Wire	Line Breaker	Install	Per Conductor	Install secondary line breaker	Not to be included when running new wire.	\$
SW6000r	Secondary Wire	Line Breaker	Remove	Per Conductor	Remove secondary line breaker	Includes all activities required to remove including splices. Not to be included when running new wire.	\$
SW6140t	Secondary Wire	Transfer Wire	Transfer	Each	Transfer conductor, secondary	Includes all tying, untying, splices, and wire shifts required in construction.	\$
SW6150t	Secondary Wire	Transfer Wire	Transfer	Each	Transfer conductor, secondary dead end	Includes all tying, untying, deadending, splices and wire shifts required in construction.	\$
SW6180y	Secondary Wire	Services	Install & Remove or Transfer	Each	Service (install & remove or transfer)	Unit can be used for installing & removing or transferring a service. Unit includes all connections (at pole & house), hardware, meter work, and splice (piece out), as required.	\$
SW6261i	Secondary Wire	Secondary Tap	Install	Each	Install secondary tap (per tap)	Not to be used with the installation or removal of transformers, or secondary conductors runs. One unit for neutral tap at deadend. (includes temporary jumpers) Example: Design calls for secondary (any type) For a typical pole result will be...qty 3 - 6261i and 3 - 6261r.	\$
SW6261r	Secondary Wire	Secondary Tap	Remove	Each	Remove secondary tap (per tap)	Not to be used with the installation or removal of transformers, or secondary conductors runs. One unit for neutral tap at deadend. (includes temporary jumpers) Example: Design calls for secondary (any type) For a typical pole result will be...qty 3 - 6261i and 3 - 6261r.	\$
SW6880i	Secondary Wire	Wire	Install	Each Section	Install per section / span Covers both Energized / De-energized conditions	Includes all activities required to run wire (running blocks, pulling rope, wire shifts, clamping, deadending, resagging). Includes all splices, crib cuts, connectors and taps (midspan and at the start and end). Does not include secondary attachment hardware (deadend or inline).	\$
SW6880r	Secondary Wire	Wire	Remove	Each Section	Remove per section / span Covers both Energized / De-energized conditions	All units are per span includes all activities required to remove wire.	\$
SW6890i	Secondary Wire	Splice	Install	Each	Install Automatic Secondary Splice- (multiplex = 1 wire)	Used for splicing the neutral. Not to be used when running new secondary (install only - removal included in wire or device removal).	\$
EO6280i	OH Equipment	Cutouts	Install	Each	Install cutout, all types	Includes all taps, bracketing hardware clamps, and use of temp. jumpers where applicable.	\$
EO6280r	OH Equipment	Cutouts	Remove	Each	Remove cutout, all types	Includes all costs of removal	\$
EO6340i	OH Equipment	Switch	Install	Each	Install switch, Automatic Controlled, 15KV, vacuum/oil, std/fog, without radio - per switch	Complete unit, includes all hardware and taps. Used for cap bank installation, oil filled cutouts	\$
EO6340r	OH Equipment	Switch	Remove	Each	Remove switch, Automatic Controlled, 15KV, vacuum/oil, std/fog, without radio - per switch	Includes all costs of removal	\$
EO6340t	OH Equipment	Switch	Transfer	Each	Transfer switch, Automatic Controlled, 15KV, vacuum/oil, std/fog, without radio - per switch	Complete unit, includes all hardware and taps.	\$
EO6392i	OH Equipment	Recloser	Install	Each	Install Single Phase Recloser	Complete unit, includes all hardware, taps, bonding, connections and cutout.	\$
EO6392r	OH Equipment	Recloser	Remove	Each	Remove Single Phase Recloser	Includes all costs of removal	\$
EO6392t	OH Equipment	Recloser	Transfer	Each	Transfer Single Phase Recloser	Complete unit, includes all hardware, taps, bonding, connections and cutout.	\$
EO6400i	OH Equipment	Recloser	Install	Each	Install 3 phase Pole Top Recloser / Sectionalizing Unit	Complete unit, includes all hardware, taps, bonding, connections, and control box.	\$
EO6400r	OH Equipment	Recloser	Remove	Each	Remove 3 phase Pole Top Recloser / Sectionalizing Unit	Includes all costs of removal	\$
EO6400t	OH Equipment	Recloser	Transfer	Each	Transfer 3 phase Pole Top Recloser / Sectionalizing Unit	Complete unit, includes all hardware, taps, bonding, connections, and control box.	\$
EO6430i	OH Equipment	Capacitor Bank / Voltage Regulator	Install	Each	Install 3 phase Capacitor bank only	Capacitor bank, pre-assembled 3 phase; includes rack, capacitors, control box if applicable, taps, bonding, connections and energize.	\$
EO6430r	OH Equipment	Capacitor Bank / Voltage Regulator	Remove	Each	Remove 3 phase Capacitor bank only	Includes all costs of removal	\$
EO6430t	OH Equipment	Capacitor Bank / Voltage Regulator	Transfer	Each	Transfer 3 phase Capacitor bank only	Capacitor bank, pre-assembled 3 phase; includes rack, capacitors, control box if applicable, taps, bonding, connections and energize.	\$
EO6452i	OH Equipment	Capacitor Bank / Voltage Regulator	Install	Each	Install Single Phase Capacitor	Capacitor bank brackets, taps, bond, connections and energize.	\$

EO6452r	OH Equipment	Capacitor Bank / Voltage Regulator	Remove	Each	Remove Single Phase Capacitor	Includes all costs of removal
EO6452t	OH Equipment	Capacitor Bank / Voltage Regulator	Transfer	Each	Transfer Single Phase Capacitor	Capacitor bank brackets, taps, bond, connections and energize.
EO6460l	OH Equipment	Capacitor Bank / Voltage Regulator	Install	Each	Install Voltage regulator	Voltage regulator; Includes regulator, taps, bond, connections, control box and wildlife protection.
EO6460r	OH Equipment	Capacitor Bank / Voltage Regulator	Remove	Each	Remove Voltage regulator	Includes all costs of removal
EO6460t	OH Equipment	Capacitor Bank / Voltage Regulator	Transfer	Each	Transfer Voltage regulator	Voltage regulator; Includes regulator, taps, bond, connections, control box and wildlife protection.
EO6410i	OH Equipment	Primary Metering	Install	Each	install complete primary metering unit including bracket, PT wiring, and meter box.	Per Standards
EO6410r	OH Equipment	Primary Metering	Remove	Each	Remove complete primary metering unit including bracket, PT wiring, and meter box.	Includes all costs of removal
EO6520i	OH Equipment	Switch	Install	Each	Install disconnect switch, 600A	Complete unit, includes all brackets, switch, taps, bonding and connections.
EO6520r	OH Equipment	Switch	Remove	Each	Remove disconnect switch, 600A	Includes all costs of removal
EO6550l	OH Equipment	Switch	Install	Each	Install Load Break Switch / Gang Operated	Complete unit, includes taps, bonding, connections, control, and wildlife protection. Does not include ground grid.  Pipe with lever to switch
EO6550r	OH Equipment	Switch	Remove	Each	Remove switch Load Break Switch / Gang Operated	Includes all costs of removal  Pipe with lever to switch
EO6550t	OH Equipment	Switch	Transfer	Each	Transfer Load Break Switch / Gang Operated	Complete unit, includes taps, bonding, connections, control, and wildlife protection. Does not include ground grid.  Pipe with lever to switch
EO6555i	OH Equipment	Switch	Install	Each	Install Load Break Switch / Gang Operated (non-handle, stick operated)	Complete unit, includes taps, bonding, connections, and wildlife protection.  Hook switch
EO6555r	OH Equipment	Switch	Remove	Each	Remove switch Load Break Switch / Gang Operated (non-handle, stick operated)	Includes all costs of removal  Hook switch
EO6555t	OH Equipment	Switch	Transfer	Each	Transfer Load Break Switch / Gang Operated (non-handle, stick operated)	Complete unit, includes taps, bonding, connections, and wildlife protection.  Hook switch
EO6580n	OH Equipment	Switch	None	Each	Install or Remove in-line disconnect switch	Completing an installation or removal will include all connections.
EO6590i	OH Equipment	Lightning Arrestor	Install	Each	Install lightning arrestor	Includes all taps, clamps, grounds, bonds, brackets, arrestor, connections, and wildlife protection.
EO6590r	OH Equipment	Lightning Arrestor	Remove	Each	Remove lightning arrestor	Includes all costs of removal
EO6690i	OH Equipment	Transformer	Install	Each	Install 1 OH transformer	Includes all connections, bonding, wildlife protection and customer notification.
EO6690r	OH Equipment	Transformer	Remove	Each	Remove 1 OH transformer	Includes all costs of removal
EO6690t	OH Equipment	Transformer	Transfer	Each	Transfer 1 OH transformer	Includes all connections, bonding, wildlife protection and customer notification.
EO6750i	OH Equipment	Transformer	Install	Each Set of 2	Install 2 OH transformers w/ bracket	Includes all connections, bonding, wildlife protection and customer notification.
EO6750r	OH Equipment	Transformer	Remove	Each Set of 2	Remove 2 OH transformers w/bracket	Includes all costs of removal
EO6750t	OH Equipment	Transformer	Transfer	Each Set of 2	Transfer 2 OH transformers w/ bracket	Includes all connections, bonding, wildlife protection and customer notification.
EO6810i	OH Equipment	Transformer	Install	Each Set of 3	Install 3 OH transformer w/ bracket	Includes all connections, bonding, wildlife protection and customer notification. Unit includes building a bank (wiring for 3 phase secondary) if necessary.
EO6810r	OH Equipment	Transformer	Remove	Each Set of 3	Remove 3 OH transformer w/ bracket	Includes all costs of removal
EO6810t	OH Equipment	Transformer	Transfer	Each Set of 3	Transfer 3 OH transformer w/ bracket	Includes all connections, bonding, wildlife protection and customer notification.
EO6865i	OH Equipment	Step-down Transformer	Install	Each	Install step-down transformer greater than 100 kva	Includes all connections, bonding, wildlife protection and customer notification. Any step down transformer 100kva or less, use single phase transformer installation for the appropriate transformer installation units.
EO6865r	OH Equipment	Step-down Transformer	Remove	Each	Remove step-down transformer greater than 100 kva	Includes all costs of removal
EO6900y	OH Equipment	Matting	Install & Remove	Per Set	Install & remove matting up to 48'	Unit is all inclusive of the process required for matting. Includes transportation, labor & equipment to install / remove mats, and any other costs incurred to install or remove the mats. Incidental matting (up to 5 mats or 20') is included in the units. This unit covers the installation and removal of mats for 21' - 48' (6-12 mats). One unit will be earned if 8, 10, or 12 mats are installed and removed.

r phase  
r phase

EO6901y	OH Equipment	Matting	Install & Remove	Per Set	Install & remove matting incremental over 48'	<p>Unit is all inclusive of the process required for matting. Includes transportation, labor &amp; equipment to install / remove mats, and any other costs incurred to install or remove the mats.</p> <p>This unit is earned when the distance of matting exceeds 48'. The distance exceeding 48' should be divided by 48 and rounded up to the nearest whole number to determine the number of units earned.</p> <p>Example: 150' of matting required. Contractor would earn  1- EO59000n  3- EO5901n (150-48=102 102/48 = 2.125 Round to 3 whole units)</p>
FO6490i	Fiber Optic	Tangential Trunion	Install	Per Pole	Fiber optic constr, tangential trunion, per pole	Includes installation of trunion, 5/8th in double arming bolt, nut, and 3 washers. In addition to the trunion, rope will be strung through trunion and tied to the pole.
FO6490r	Fiber Optic	Tangential Trunion	Remove	Per Pole	Fiber optic constr, tangential trunion, per pole	Includes all costs for removal
FO6490t	Fiber Optic	Tangential Trunion	Transfer	Per Pole	Fiber optic constr, tangential trunion, per pole	Includes all costs for transfer
FO6520i	Fiber Optic	Double Dead End	Install	Per Pole	Fiber optic constr, double dead end, per pole	Includes all costs for installation
FO6520r	Fiber Optic	Double Dead End	Remove	Per Pole	Fiber optic constr, double dead end, per pole	Includes all costs for removal
FO6520t	Fiber Optic	Double Dead End	Transfer	Per Pole	Fiber optic constr, double dead end, per pole	Includes all costs for transfer
FO6550i	Fiber Optic	Double Dead End	Install	Per Pole	Fiber optic constr, double dead end, aerial coil, per pole	Includes all costs for installation
FO6550r	Fiber Optic	Double Dead End	Remove	Per Pole	Fiber optic constr, double dead end, aerial coil, per pole	Includes all costs for removal
FO6550t	Fiber Optic	Double Dead End	Transfer	Per Pole	Fiber optic constr, double dead end, aerial coil, per pole	Includes all costs for transfer
FO6580i	Fiber Optic	Double Dead End	Install	Per Pole	Fiber optic constr, double dead end, aerial splice, per pole	Includes all costs for installation
FO6580r	Fiber Optic	Double Dead End	Remove	Per Pole	Fiber optic constr, double dead end, aerial splice, per pole	Includes all costs for removal
FO6580t	Fiber Optic	Double Dead End	Transfer	Per Pole	Fiber optic constr, double dead end, aerial splice, per pole	Includes all costs for transfer
FO6610i	Fiber Optic	Double Dead End	Install	Per Pole	Fiber optic constr, dead end riser, per pole	Includes all costs for installation
FO6610r	Fiber Optic	Double Dead End	Remove	Per Pole	Fiber optic constr, dead end riser, per pole	Includes all costs for removal
RO6910i	Risers	Primary Riser	Install	Each Riser	Install riser, up to and including #2 wire, per phase	Complete installation includes all hardware, securement of cable up pole, installation & attach to bracket, bonding, and connections, galvanized steel conduit 8' above ground with either u-guard or schedule 40 PVC including transition piece. Terminators, arrestors and cutouts are separate units. Pulling the cable is not included in this unit.
RO6910r	Risers	Primary Riser	Remove	Each Riser	Remove riser, up to and including #2 wire, per phase	Removal includes all hardware, cable up pole, galvanized steel conduit 8' above ground and either u-guard or schedule 40 PVC, bonding, connections, terminators, arrestors, and cutouts.
RO6910t	Risers	Primary Riser	Transfer	Each Riser	Transfer riser, up to and including #2 wire, per phase	Complete transfer includes all hardware, securement of cable up pole, installation & attach to bracket, bonding, and connections, galvanized steel conduit 8' above ground with either u-guard or schedule 40 PVC. Terminators, arrestors and cutouts are separate units. Pulling the cable is not included in this unit.
RO6150i	Risers	Primary Riser	Install	Each Riser	Install riser, larger than #2 wire, per phase	Complete installation includes all hardware, securement of cable up pole, installation & attach to bracket, bonding, and connections, galvanized steel conduit 8' above ground with either u-guard or schedule 40 PVC including transition piece. Terminators, arrestors and cutouts are separate units. Pulling the cable is not included in this unit.
RO6150r	Risers	Primary Riser	Remove	Each Riser	Remove riser, larger than #2 wire, per phase	Removal includes all hardware, cable up pole, galvanized steel conduit 8' above ground and either u-guard or schedule 40 PVC, bonding, connections, terminators, arrestors, and cutouts.
RO6150t	Risers	Primary Riser	Transfer	Each Riser	Transfer larger, bigger than #2 wire, per phase	Complete transfer includes all hardware, securement of cable up pole, installation & attach to bracket, bonding, and connections, galvanized steel conduit 8' above ground with either u-guard or schedule 40 PVC. Terminators, arrestors and cutouts are separate units. Pulling the cable is not included in this unit.
RO6202i	Risers	Terminator	Install	Each	Install Cold Shrink Terminator 350MCM & below	Per Standard
RO6202r	Risers	Terminator	Remove	Each	Remove Cold Shrink Terminator 350MCM & below	Includes all costs of removal
RO6210r	Risers	Terminator	Remove	Each	Remove 15 KV pothead/terminator	Includes all costs of removal
RO6210t	Risers	Terminator	Transfer	Each	Transfer 15 KV pothead/terminator	Includes all costs of transfer
RO6212i	Risers	Terminator	Install	Each	Install Cold Shrink Terminator 400MCM to and including 650MCM	Per Standard
RO6212r	Risers	Terminator	Remove	Each	Remove Cold Shrink Terminator 400MCM to and including 650MCM	Includes all costs of removal
RO6214i	Risers	Terminator	Install	Each	Install Cold Shrink Terminator 750MCM to and including 1000MCM	Per Standard
RO6214r	Risers	Terminator	Remove	Each	Remove Cold Shrink Terminator 750MCM to and including 1000MCM	Includes all costs of removal
RO6240i	Risers	Secondary Riser	Install	Per Set	<p>Install secondary riser, per set</p> <p>Set up to 4 wires</p>	Complete installation includes all hardware, securement of cable up pole, installation & attach to bracket, bonding, and connections, galvanized steel conduit 8' above ground with either u-guard or schedule 40 PVC. Includes all secondary / service connections.
RO6240r	Risers	Secondary Riser	Remove	Per Set	<p>Remove secondary riser, per set</p> <p>Set up to 4 wires</p>	Removal includes all hardware, cable up pole, galvanized steel conduit 8' above ground and either u-guard or schedule 40 PVC, bonding, connections, terminators, arrestors, and cutouts.

RO6240t	Risers	Secondary Riser	Transfer	Per Set	Transfer secondary riser, per set Set up to 4 wires	Complete transfer includes all hardware, securement of cable up pole, installation & attach to bracket, bonding, and connections, galvanized steel conduit 8' above ground with either u-guard or schedule 40 PVC. Includes all secondary / service connections.
RO6480r	Risers	Environmentally Sensitive Risers	Remove	Each Riser	Remove environmentally sensitive risers	As per environmental state regulations.
MO6640n	Miscellaneous OH	Flagging	None	Hour	Flagging	1 man / hour - used for flagging. Not used for incidental flagging. (approval required)
MO6650i	Miscellaneous OH	Streetlights	Install	Each	Install flood light/street light all wattages	Complete unit - includes all connections, grounding and bonding, and installation of flex conduit per standards
MO6650r	Miscellaneous OH	Streetlights	Remove	Each	Remove flood light/street light all wattages	Includes all costs for removal
MO6650t	Miscellaneous OH	Streetlights	Transfer	Each	Transfer flood light/street light all wattages	Complete unit - includes all connections, grounding and bonding, and installation of flex conduit per standards. Includes rewiring.
MO6660m	Miscellaneous OH	Streetlights	Maint	Per head	Replace streetlight head (less than 5)	Unit includes the labor and equipment to replace a streetlight head. Unit includes removal of old head and installation of the new head. Installation includes all components of the streetlight including but not limited to the bulb & eye. Units are tiered and selection of the correct unit is dependent on the number of streetlight heads on a particular job (Work Authorization). On one job = Work Authorization
MO6661m	Miscellaneous OH	Streetlights	Maint	Per head	Replace streetlight head (6 - 10)	Unit includes the labor and equipment to replace a streetlight head. Unit includes removal of old head and installation of the new head. Installation includes all components of the streetlight including but not limited to the bulb & eye. Units are tiered and selection of the correct unit is dependent on the number of streetlight heads on a particular job (Work Authorization). On one job = Work Authorization
MO6662m	Miscellaneous OH	Streetlights	Maint	Per head	Replace streetlight head (11 +)	Unit includes the labor and equipment to replace a streetlight head. Unit includes removal of old head and installation of the new head. Installation includes all components of the streetlight including but not limited to the bulb & eye. Units are tiered and selection of the correct unit is dependent on the number of streetlight heads on a particular job (Work Authorization). On one job = Work Authorization
MO6665m	Miscellaneous OH	Streetlights	Maint	Per streetlight	Replace eye & bulb (less than 5)	Unit includes the labor and equipment to remove old eye & bulb and install new eye & bulb. Unit will be paid if one or both tasks is completed. Units are tiered and selection of the correct unit is dependent on the number of streetlight heads on a particular job (Work Authorization). On one job = Work Authorization
MO6666m	Miscellaneous OH	Streetlights	Maint	Per streetlight	Replace eye & bulb (6-10)	Unit includes the labor and equipment to remove old eye & bulb and install new eye & bulb. Unit will be paid if one or both tasks is completed. Units are tiered and selection of the correct unit is dependent on the number of streetlight heads on a particular job (Work Authorization). On one job = Work Authorization
MO6667m	Miscellaneous OH	Streetlights	Maint	Per streetlight	Replace eye & bulb (11+)	Unit includes the labor and equipment to remove old eye & bulb and install new eye & bulb. Unit will be paid if one or both tasks is completed. Units are tiered and selection of the correct unit is dependent on the number of streetlight heads on a particular job (Work Authorization). On one job = Work Authorization
MO6690i	Miscellaneous OH	Fault Circuit Indicator	Install	Each	Install fault circuit indicator	One unit per phase; includes eye/port
MO6690r	Miscellaneous OH	Fault Circuit Indicator	Remove	Each	Remove fault circuit indicator	One unit per phase
MO6695n	Miscellaneous OH	Grounding	None	Per Phase	Test de-energize and ground per phase.	To be used for any type of grounding under the Clearance and Control Guidelines. Unit includes installation and removal per phase per location.
MO6710n	Miscellaneous OH	Labor	None	Hours	Miscellaneous labor	1 man / hour no equipment (approval required)
MO6720n	Miscellaneous OH	Hot Stick	None	Per Structure / Per Circuit	Hot stick for tangent	Differential unit for working tangent hot per circuit per structure
MO6721n	Miscellaneous OH	Hot Stick	None	Per Structure	Hot stick for the deadend	Differential unit for working deadend hot per circuit per structure
MO6730n	Miscellaneous OH	Labor	None	Hours	Switching (requires switching order)	1 man / hr - used only when switching under a switching order (TOA)
MO6780n	Miscellaneous OH	Labor	None	Hours	1 man crew straight time - includes equipment	All inclusive unit including man power and equipment. Used for tasks where units are not applicable (approval required). Does not include GF
MO6781n	Miscellaneous OH	Labor	None	Hours	1 person incremental overtime (.5X)	Incremental overtime, only to be used with units (approval required). Incremental is the difference in cost between the straight time billing rate and overtime billing rates. Does not include GF
MO6782n	Miscellaneous OH	Labor	None	Hours	1 person Incremental premium time (1X)	Incremental premium, only to be used with units (approval required). Incremental is the difference in cost between the straight time billing rate and Premium billing rates. Does not include GF
MZ6010n	Miscellaneous OH	Labor	None	Each	Compensation unit for Sub-T work	Multiplier for Sub-T work
MOT1	Miscellaneous OH	Travel	Mobilization	Per employee per mile	Mobilization of 1 man with equipment to a job site	Unit includes all equipment and is only applicable for mobilization. Unit includes both standard and specialty equipment. Demobilization is included in the units.
IM6440m	Grounding	Grounding	Maint	Per Pole	Repair down ground	Used for maintenance, repair existing down ground and install molding
IM6446i	Grounding	Grounding	Install	Per Pole	Install down ground molding	Used for maintenance when down ground already exist. Includes all types of molding.
IM6430m	Poles	Poles	Maint	Per Pole	Repair/plug Woodpecker holes	
IM6481i	Grounding	Bonding	Install	Per Design Point	Communication Bonding	Unit includes all the labor and equipment required to bond all equipment at a specific location. Unit covers however many bonds are required at the specific design point in order to meet National Grid standards.
IM6482i	Grounding	Bonding	Install	Each	Bond Equipment	Used to bond any type of equipment. Risers, Transformers, Capacitors, Regulators, Reclosers, Sectionalizers, Streetlight (if all that is required is the bond), Loadbreaks (incl handles)/all types. Not to be used with units for installation of equipment.

IM6483i	Bonding	Bonding	Install	Each	Bond spacer cable bracket or messenger to system neutral	Includes all activities to properly bond existing spacer cable bracket or messenger to system neutral
IM6800i	Primary Wire	Primary Wire	Install	Each	Install messenger covering	install per standards
IM6840m	Primary Wire	Primary Wire	Maint	Each	repair exposed/ damaged spacer cable conductor	unit includes proper method of re-insulating exposed bare conductor on spacer cable. This could be a splice, connector or skinned area.
IM6755m	Primary Wire	Spacer	Maint	Each	Install or replace primary wire spacer	Includes all activities to install spacer or replace existing on existing spacer cable configuration. No spacer removal unit allowed.
IM6120i	Primary Wire	Primary Wire	Install	Each	Re-tie phase to insulator	unit includes all activities to re-tie phase to insulator. This would also include spacer cable if a phase is out of it's crab/holder/spreader.
IM6130i	Secondary Wire	Sagging	Install	Per Span	Re-sag existing conductors	Unit includes all activities to re-sag conductors and splicing. One per insulator
IM6790i	Primary Wire	Sagging	Install	Per Phase	Re-sag existing conductors	Unit includes all activities to re-sag conductors and splicing.
IM6555m	Framing	Crossarm	Maint	Each	Replace steel crossarm braces with wood crossarm braces	Used on repair only, not to be used w/ framing units
IM6550n	Framing	Primary Dead End	None	Each	Primary deadend	Used when replacing deadend insulators only (includes transfer of wire). Not to be used w/ framing unit.
IM6850i	OH Equipment	Transformer	Install	Each	Ground 3 transformer bank	Unit includes the labor and equipment to ground all three transformers in a bank. Unit is only applicable on maintenance work.
IM6870i	OH Equipment	Animal Guard	Install	Each	Install animal guard only	Not to be used with new construction units.
IM6870r	OH Equipment	Animal Guard	Remove	Each	Remove animal guard only	Not to be used with new construction units.
IM6485i	Risers	U Guard	Install	Each Riser	Install U guard on riser	Includes U guard, transition piece and sealing.
IM6721n	Miscellaneous OH	Minimum Charge	None	Each	Design Point Minimum Charge	Only applicable for program work. See specifications for further details.
IM6668i	Streetlights	Streetlights	Install	Each	Install flex conduit (Lock Tight)	Unit includes the labor and equipment to fully install flex conduit to streetlight. Includes all wiring, bonding, etc to complete the task. No other bonding units can be taken in conjunction with this streetlight unit. Bring a streetlight up to standard, bond street light
IM6669i	Poles	Poles	Install	Per Pole	Stencil pole	Unit includes the reflector. Only for I&M task & project work where pole install is not required. Not to be used for pole installations.
AG6310y	Guying	Down Guy	Install, Remove & Maintenance	Each	Install, remove, and maintenance of down guy all types with strain insulator	Complete unit. Includes all required hardware with fiber rod, guy guard, bonding, and connections at the pole/anchor.
AG6320y	Guying	Head Guy	Install, Remove, Transfer, & Maintenance	Each	Install, remove, transfer and maintenance of head or span guy all types with strain insulator	Complete unit. Includes all required hardware with fiber rod, guy guard, bonding, and connections at the pole/anchor. Includes all work at both pole locations and bringing guy to standard.
AG6330y	Guying	Sidewalk Guy	Install, Remove, & Maintenance	Each	Install, remove, and maintenance of sidewalk guy all types with strain insulator	Complete unit. Includes all required hardware with fiber rod, guy guard, bonding, and connections at the pole/anchor.

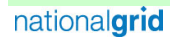
### Equipment

Unit Code	Family	Type	UOM	Unit Description	Specialty Equipment	Price (\$)	Minimum Duration (Hrs)
EQP_60T_PRESS	Equipment	Tool	Hour	60T Press/Head/Dies			
EQP_AC100_TOW_BH	Equipment	Excavation	Hour	Air Compressors - tow behind			
EQP_AIR_DRILL_SELF	Equipment	Excavation	Hour	Air Track Drill self-Contained			
EQP_AIR_DRILL_WAGON	Equipment	Excavation	Hour	Air Track Drill Wagon type			
EQP_ARROW_BDS	Equipment	Traffic Control	Hour	Arrow Board - Tow behind	X		
EQP_ATV_PULL_BH	Equipment	Off Road Transportation	Hour	ATV / UTV with trailer			
EQP_BHOE_CASE580	Equipment	Excavation	Hour	Backhoe - Small			
EQP_BHOE_CASE580EXT	Equipment	Excavation	Hour	Backhoe - Large			
EQP_BHOE_HOE_RAM	Equipment	Excavation	Hour	Backhoe Hoe Ram			
EQP_BHOE_LG_446B	Equipment	Excavation	Hour	Backhoe with Truck & Trailer			
EQP_BLZ_EXPLORER	Equipment	Passenger Vehicles	Hour	Any Sport Utility Vehicle (SUV)			
EQP_BOMB_TRAIL_DUMP	Equipment	Off Road Transportation	Hour	Bombadier with trailer - 2 yard dump body			80
EQP_BOMB_TRAIL_RACK	Equipment	Off Road Transportation	Hour	Bombadier with trailer - 2 yard rack body			80
EQP_BOOM_TRK_35TON_6X8	Equipment	Cranes	Hour	Crane Truck - 35 ton boom 6X8	X		160
EQP_BUCK100	Equipment	Buckets	Hour	Bucket Truck 90' - 100' MH	X		
EQP_BUCK100_BARE	Equipment	Buckets	Hour	Bucket Truck 90' - 100' MH (4x4)	X		
EQP_BUCK35_40	Equipment	Buckets	Hour	Bucket Truck 35' - 40'			
EQP_BUCK35_40MH	Equipment	Buckets	Hour	Bucket Truck 35' - 40' MH			
EQP_BUCK41_50	Equipment	Buckets	Hour	Bucket Truck 41' - 55'			
EQP_BUCK41_55MH	Equipment	Buckets	Hour	Bucket Truck 41' - 55' MH			
EQP_BUCK41_55MH4&4	Equipment	Buckets	Hour	Bucket Truck 41' - 55' MH (4x4)			
EQP_BUCK55_MH_FLEX	Equipment	Buckets	Hour	Track Flex 45 MH Bucket	X		80
EQP_BUCK65	Equipment	Buckets	Hour	Bucket Truck 65' MH	X		
EQP_BUCK65 (4x4)	Equipment	Buckets	Hour	Bucket Truck 65' MH (4x4)	X		
EQP_BUCK75	Equipment	Buckets	Hour	Bucket Truck 75' MH	X		
EQP_BUCK75_AWD_4x4	Equipment	Buckets	Hour	Bucket Truck 75' MH (4x4)	X		
EQP_BUCK80	Equipment	Buckets	Hour	Bucket Truck 80' MH	X		
EQP_BUCK80_MTL_HDL	Equipment	Buckets	Hour	Bucket Truck 80' MH (4x4)	X		
EQP_BUCKSQUIRT	Equipment	Buckets	Hour	Bucket Truck 25' - 34'			
EQP_BULLDOZER_D4	Equipment	Excavation	Hour	Bulldozer - D4	X		80
EQP_BULLDOZER_D5	Equipment	Excavation	Hour	Bulldozer - D5	X		80
EQP_BULLDOZER_D6	Equipment	Excavation	Hour	Bulldozer - D6	X		80
EQP_BULLDOZER_D8	Equipment	Excavation	Hour	Bulldozer - D8	X		160
EQP_CBL_PUL	Equipment	Cable	Hour	Compact cable puller (Mule)			
EQP_CBL_PULL_WINCH	Equipment	Cable	Hour	Underground - Cable Pulling Truck - w/ 1500' - 2000' Winch			80
EQP_CBL_SPLICE_VAN	Equipment	Cable	Hour	Underground - Cable Splicing Van			
EQP_COMPACTOR	Equipment	Excavation	Hour	Compactor - hand vibrating			
EQP_CRANE_12	Equipment	Cranes	Hour	Crane Truck - 12 ton	X		160
EQP_CRANE_18T_TRACK	Equipment	Cranes	Hour	Crane Truck - 18 ton	X		160
EQP_CRANE_20	Equipment	Cranes	Hour	Crane Truck - 20 ton	X		160
EQP_CRANE_22T	Equipment	Cranes	Hour	Crane Truck 22 ton Manitex w/ Basket	X		160
EQP_CRANE_25	Equipment	Cranes	Hour	Crane Truck - 25 ton 4x6	X		160
EQP_CRANE_30	Equipment	Cranes	Hour	Crane Truck - 30 ton 4x6	X		160
EQP_CRANE_30T	Equipment	Cranes	Hour	Crane Truck 30 ton Manitex w/ Basket	X		160
EQP_CRANE_30T_TRACK	Equipment	Cranes	Hour	Crane 30 ton track (Mantis)	X		160
EQP_CRANE_40T_TRACK	Equipment	Cranes	Hour	Crane 40 ton track (Mantis)	X		160
EQP_DIGDR_4X4	Equipment	Diggers	Hour	Digger Derrick Truck (4X4)			
EQP_DIGDR_ALTEC_D2045	Equipment	Excavation	Hour	Rock Drill Bore Machine 18"			
EQP_DIGDR_ALTEC2055	Equipment	Diggers	Hour	Digger Derrick (6 X 4)			
EQP_DIGDR_ALTECD945	Equipment	Diggers	Hour	Digger Derrick D945 or D947 or equal			
EQP_DIGDR_MINI	Equipment	Diggers	Hour	Digger Derrick - walk behind (i.e. Backyard Machine)			
EQP_DUMP_10	Equipment	Trucks	Hour	Dump Truck - 10 yard			
EQP_DUMP_3	Equipment	Trucks	Hour	Dump Truck - 3 yard			

EQP_DUMP_5	Equipment	Trucks	Hour	Dump Truck - 5 yard			
EQP_EXCAV_AD	Equipment	Excavation	Hour	Excavator Attachment, Air Drill	X		160
EQP_EXCAV_RUB_16000	Equipment	Excavation	Hour	Excavator, rubber track 16000 lbs 18'-30' bucket	X		160
EQP_EXCAV_RUB_8000	Equipment	Excavation	Hour	Excavator, rubber track 8000 lbs 18'-24' bucket	X		160
EQP_EXCAV_STL_14000	Equipment	Excavation	Hour	Excavator, steel track 14000 lbs 18'-30' bucket	X		160
EQP_EXCAV_STL_34000	Equipment	Excavation	Hour	Excavator, steel track 34000 lbs 18'-42' bucket	X		160
EQP_EXCAV_STL_60000	Equipment	Excavation	Hour	Excavator, steel track 60000 lbs 18'-42' bucket	X		160
EQP_FLAT_BED_W_4T_KN_B	Equipment	Cranes	Hour	Flat Bed w/ 4 Ton Knuckle Boom			
EQP_FORK_2000	Equipment	Lifts	Hour	Fork Lifts- 2000 lb Gas/Diesel/Propane			
EQP_FORK_4000	Equipment	Lifts	Hour	Fork Lifts- 4000 lb Gas/Diesel/Propane			
EQP_FORK_6000	Equipment	Lifts	Hour	Fork Lifts- 6000 lb Gas/Diesel/Propane			
EQP_HAY_BLOWER	Equipment	Restoration	Hour	Hay Blower			
EQP_INTEN	Equipment	Traffic Control	Hour	Intenuator Crash Truck for Work Area Protection	X		
EQP_LEDGE_HAM_20_IN	Equipment	Excavation	Hour	Ledge Hammer - 20"			
EQP_LOW_TRAIL_25_35	Equipment	Trailers	Hour	Trailer - Lowboy 25T to 35 T			
EQP_LOW_TRAIL_40_45	Equipment	Trailers	Hour	Trailer - Lowboy 40T to 45 T			
EQP_MECH_SER_TRK	Equipment	Trucks	Hour	Mechanic / Service Truck			
EQP_PICK_1	Equipment	Passenger Vehicles	Hour	Pick up Truck 4X4 1 ton			
EQP_PICK_1/2_2X4	Equipment	Passenger Vehicles	Hour	Pick-up Truck 1/2 ton 2X4			
EQP_PICK_1/2_4X4	Equipment	Passenger Vehicles	Hour	Pick up Truck 1/2 ton 4X4			
EQP_PICK_3/4	Equipment	Passenger Vehicles	Hour	Pick up Truck 4X4 3/4 ton			
EQP_PICK_CCAB_1	Equipment	Passenger Vehicles	Hour	Pick-up Truck 4X4 Crew Cabs 1 ton			
EQP_PICK_CCAB_3/4	Equipment	Passenger Vehicles	Hour	Pick-up Truck 4X4 Crew Cabs 3/4 ton			
EQP_PIPE_BENDER	Equipment	Tools	Hour	Pipe Bender			
EQP_PNEU_HAM_1000	Equipment	Tools	Hour	Pneumatic Hammer 1000 ft lb			
EQP_PNEU_HAM_500	Equipment	Tools	Hour	Pneumatic Hammer 500 ft lb			
EQP_PUMP	Equipment	Tools	Hour	Trash Pump for Dewatering MHs (4" or larger)			
EQP_RACK_TRUCK_2TON	Equipment	Trucks	Hour	Rack Body Truck 2 Ton			
EQP_ROCK_LG_VRM145	Equipment	Excavation	Hour	Rock Cutter - Large - Vermeer CC-145	X		
EQP_ROCK_SM_VRM120	Equipment	Excavation	Hour	Rock Cutter - Small - Vermeer -120	X		
EQP_SCISOR_25	Equipment	Man Lifts	Hour	Scissor Lifts, 25' Gas 4WD	X		
EQP_SCISOR_40	Equipment	Man Lifts	Hour	Scissor Lifts, 40' Gas 4WD	X		
EQP_SCISOR_50	Equipment	Man Lifts	Hour	Scissor Lifts, 50' Gas 4WD	X		
EQP_SINGLE_PULLER	Equipment	Wire	Hour	Wire Puller - OH 1 Drum V-Groove 10k LB			
EQP_SKID_STEERS	Equipment	Excavation	Hour	Skid Steers	X		80
EQP_SKIDR_W_POLE_GRPL	Equipment	Excavation	Hour	Skidder, with pole grapple	X		80
EQP_SPIDER_3_PHASE	Equipment	Wire	Hour	Spider System 3 phase			
EQP_STATIC_CART	Equipment	Wire	Hour	Wire Trailer - 1 Reel Wire Trailer			
EQP_SUPER_VEHICLE	Equipment	Passenger Vehicles	Hour	Supervisor Vehicle			
EQP_TENSIONERS	Equipment	Wire	Hour	Wire tensioner - Trailer type (bull wheel or other)			
EQP_TRACK_DUMP	Equipment	Off Road Transportation	Hour	Track Machine - Dump	X		160
EQP_TRACK_FLEX_Bucket100	Equipment	Buckets	Hour	Track Flex Bucket 100'	X		160
EQP_TRACK55_MTL_HDL	Equipment	Buckets	Hour	Track Machine - 55' Material Handler	X		160
EQP_TRACK70_MTL_HDL	Equipment	Buckets	Hour	Track Machine - =>70' Material Handler	X		160
EQP_TRACTOR_4X6T	Equipment	Transportation	Hour	Road Tractor 4x6T Over the Road			
EQP_TRACTOR_SINGLE	Equipment	Transportation	Hour	Tractor - single axle			
EQP_TRAIL_2_ARBOR_W_C	Equipment	Trailers	Hour	Wire Trailer - 2 reel wire trailer			
EQP_TRAIL_3_ARBOR_W_BR	Equipment	Trailers	Hour	Wire Trailer - 3 reel wire trailer			
EQP_TRAIL_FLT_EQP	Equipment	Trailers	Hour	Trailer - Flatbed/Equipment - 45'-48'			
EQP_TRAIL_GEN	Equipment	Trailers	Hour	Trailer - Generator (25KVA)			
EQP_TRAIL_HOTSTICK	Equipment	Trailers	Hour	Trailer - Hotstick	X		
EQP_TRAIL_OFFICE	Equipment	Trailers	Hour	Trailer - Office - 8x24			
EQP_TRAIL_POLE	Equipment	Trailers	Hour	Trailer - Pole			
EQP_TRAIL_SEMI	Equipment	Trailers	Hour	Trailer - Semi			
EQP_TRAIL_UTILITY	Equipment	Trailers	Hour	Trailer - Material / Utility			
EQP_TRAIL_VEN	Equipment	Trailers	Hour	Trailer - Ventilator (Heat / AC)			
EQP_TRENCH_LG_VRM	Equipment	Excavation	Hour	Trenchers - Large - Vermeer T755		NA	
EQP_TRENCH_MD_VRM	Equipment	Excavation	Hour	Trenchers - Medium - Vermeer 8550		NA	

EQP_TRENCH_SM_VRM42	Equipment	Excavation	Hour	Trenchers - Small - Vermeer LM-42 Trencher / Plow		NA	
EQP_TRK_2X4_TEX270DIG	Equipment	Diggers	Hour	Pressure Digger - Truck 2x4 w/ Texoma 270 Digger or equivalent			160
EQP_TRK_4X6_TEX700DIG	Equipment	Diggers	Hour	Pressure Digger - Truck 4x6 w/ Texoma 700 Digger or equivalent			160
EQP_TRK_6X6_TEX330DIG	Equipment	Diggers	Hour	Pressure Digger - Truck 6x6 w/ Texoma 330 Digger or equivalent			160
EQP_TRK_6X6_TEX600DIG	Equipment	Diggers	Hour	Pressure Digger - Truck 6x6 w/ Texoma 600 Digger or equivalent			160
EQP_TRK_BOX	Equipment	Trucks	Hour	Truck - Box			
EQP_TRK_FLRACK_LG	Equipment	Trucks	Hour	Truck - Flat Rack - Large			
EQP_TRK_FLRACK_SM	Equipment	Trucks	Hour	Truck - Flat Rack - Small			
EQP_TRKDIGDKFLEX_45_845	Equipment	Diggers	Hour	Track Flex Digger Derrick 45' 845	X		140
EQP_TRKDIGDKFLEX_RANGER	Equipment	Diggers	Hour	Track Mini Flex (Ranger or equil)			140
EQP_TRKDIGDKFLEX3060_4060	Equipment	Diggers	Hour	Track Flex 3060/4060 Digger Derrick	X		140
EQP_UG_CBLTRAILER	Equipment	Cable	Hour	UG Cable Trailer - self pay out / in (Hogg Davis or equivalent)			
EQP_UG_CBLTRUCK	Equipment	Cable	Hour	UG Cable Truck - Self loading (i.e. Champion RL 1240)	X		140
EQP_UG_PULLER>20K	Equipment	Cable	Hour	UG Cable Puller >20,000lb tension weight	X		160
EQP_UG_PULLER20K	Equipment	Cable	Hour	UG Cable Puller <=20,000lbs Pulling Capacity			
EQP_VAC_SYS_500GL	Equipment	Excavation	Hour	Vac System - 500 gallon			
EQP_VAC_TRK_BADGER	Equipment	Excavation	Hour	Vac Truck - equal to Badger Hydrovac	X		
EQP_VAN_TRAIL_40	Equipment	Trailers	Hour	Van Storage Trailer 40'			
EQP_WATER_TANK	Equipment	Trucks	Hour	Water Tanks, Trailer or Truck			
EQP_WATER_WAGON	Equipment	Trucks	Hour	Water Wagon			
EQP_WELD_225	Equipment	Welders	Hour	Welding Machine - 225 Amp			
EQP_WELD_400	Equipment	Welders	Hour	Welding Machine - 400 Amp			
EQP_WIRE_PULLER_1D3K	Equipment	Wire	Hour	Wire Puller - OH 1 Drum 3000 lb			
EQP_WIRE_PULLER_1D6K	Equipment	Wire	Hour	Wire Puller - OH 1 Drum 6000 lb			
EQP_WIRE_PULLER_4D	Equipment	Wire	Hour	Wire Puller - OH 4 drum			
EQP_WIRE_TRAILER	Equipment	Trailers	Hour	Wire Stands - Stand Alone (2 stands to 96")			





**Labor Pricing**  
**IBEW 1249**  
**Effective 05/05/19 -**  
**5/4/2020**

Labor Pricing IBEW 1249 Effective 05/05/19 - 5/4/2020			Comparable IBEW Classification	Base Hourly Wage (BHW) (W-2 Salary)															FICA		Fed & State Unemployment		Worker's Compensation		Insurance (General Liability)		Welfare (1249 Insurance Fund)		Pension (+NLMCC)		Vacation		NEBF, Safety, NEAT, NEIF & NELCAF		Small tool allowance, etc(1)		Profit		Overhead		Straight Time - Billable Rate		Overtime Rate		Premium T	
Union		Classification		Straight Time															Overtime		Premium Time																									
				A.	B.	C.	D.	E.	F.	G.	H.	I.	Ia	J	K			(ST + OT)	(ST + PT)																											
				\$	%	%	%	%	\$	\$	%	%	%	%	%	\$	\$																													
Local 1249	1	GENERAL FOREMAN																																												
Local 1249	2	FOREMAN																																												
Local 1249	3	WORKING FOREMAN																																												
Local 1249	4	JOURNEYMAN LINEMAN*																																												
Local 1249	5	APPRENTICE SEVENTH PERIOD																																												
Local 1249	6	APPRENTICE SIXTH PERIOD																																												
Local 1249	7	APPRENTICE FIFTH PERIOD																																												
Local 1249	8	APPRENTICE FOURTH PERIOD																																												
Local 1249	9	APPRENTICE THIRD PERIOD																																												
Local 1249	10	APPRENTICE SECOND PERIOD																																												
Local 1249	11	APPRENTICE FIRST PERIOD																																												
Local 1249	12	GR DIGGING MACHINE OPERATOR																																												
Local 1249	16	CHIEF EQUIPMENT MECHANIC																																												
Local 1249	17	EQUIPMENT MECHANIC FIRST CLASS																																												
Local 1249	18	EQUIPMENT MECHANIC HELPER																																												
Local 1249	19	GROUNDMAN TRUCK DRIVER TT CDL A																																												
Local 1249	20	GROUNDMAN TRUCK DRIVER EO CDL B																																												
Local 1249	21	GROUNDMAN																																												
Local 1249	22	FLAGMAN																																												

\*Journeyman Lineman includes Technician, Welder & Cable Splicer.

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## **SCHEDULE F**

### **SAFETY REQUIREMENTS**

Including but not limited to:

- Files entitled
  - N-1402 Contractor Safety Requirements Rev. No. 11

## **SCHEDULE G**

### **ENVIRONMENTAL REQUIREMENTS**

Including but not limited to:

- Files entitled
  - Contracted Services – Environmental Procedure No. 6 – Appendix B – Rev. No. 5
  - Contracted Services – Environmental Procedure No. 6 – Appendix C – Rev. No. 5

***Additional to be provided by Owner's Representative as appropriate to the Work***