



AGREEMENT

BETWEEN

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

AND

**O'CONNELL ELECTRIC COMPANY, INC
Victor, NY**

FOR

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

Contractor of Choice New York Territory

ASSOCIATED SAP CONTRACT № 4400005915

Effective Date
April 1, 2016

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 **O’Connell Electric Company, Inc.**, a New York corporation, having its principal place of business at 830 Phillips Road, Victor, NY 14564 (“Contractor”). (Here in after each, individually, a “Party” and, collectively, the “Parties”) for the Services identified hereafter as:

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

SAP Contract № 4400005915 to be superceded by limit order PO

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 October 2015
3. Schedule B - Electric Underground Construction and Sub-Transmission Contract Specification "Specifications")
4. Schedule C - Work Authorization Form
5. Schedule D - Pricing Workbook (Unit Library, Equipment & Labor Rates)
6. Schedule E - Contractor Safety Requirements
7. Schedule F - Contractor Environmental Requirements
8. Schedule G – Insurance Requirements and Certificate
9. Schedule H – Security and Background Check 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 April 1, 2016, 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, 2017 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 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 April 1, 2016 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
Nick Orcutt, Buyer, Global 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:

National Grid Safety Procedure N-1402 dated 9/11/2013
Terms and Conditions for Construction, Form 00700, Revised Oct., 2015
All items included within Ariba RFP "Unit Price RFP – UG Electric Distribution"

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.

~~XXXXXXXXXX~~
O'Connell Electric Company, Inc.

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



Signature

Victor E. Salerno

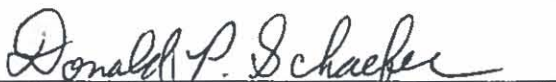
Name

Chief Executive Officer

Title

June 1, 2016

Date



Signature

Donald P. Schaefer

Name

Category Manager

Title

June 2, 2016

Date

SCHEDULE A

Terms and Conditions for Construction, Form 00700, Rev. April 11, 2016

2% 10 Net 30 Payment Terms

national**grid**

**TERMS AND
CONDITIONS
FOR
CONSTRUCTION**

Form 00700 (Rev. April 11, 2016)

SCHEDULE B

CONTRACT SPECIFICATION

Also Reference all documents included in Ariba RFP

SCHEDULE C

Work Authorization Form and Field Change Form

- To be used only for Scope Changes & Additions

SCHEDULE D

Underground Unit Pricing Guide

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**

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
- Manhole entry

- Dewatering
- 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

Not Included in the Units

- Materials are not included in the unit costs. National Grid will deliver the materials to the COCs staging site. If National Grid requires the COC to pick up materials, the COC will be compensated for time and equipment required.
- Specialty permits such as environmental or building permits will be obtained by National Grid
- Third party invoices (i.e. police details, etc) are not included in the units
- Specialized Equipment

Definitions

Manhole Entry - Includes but is not limited to setup, cage, entry, dewatering, atmospheric testing, heat gun (IR gun) and all visual checks and required reporting (i.e. - presence of oil leaks or asbestos). Physical checks - proper grounding and presence of ground ring, and any additional work required before beginning planned work. Update any paperwork (for example duct views). All entries to complete the unit task are included in the unit.

Off-Road - Defined as work associated with design points (i.e. backyards, right-aways, rear property or other locations) not accessible with wheeled distribution equipment. The use of up to 5 fiberglass mats at a design point will be considered typical and included in the units. When more than 5 mats are required, COC will contact CS to determine a matting plan or alternative access.

Specialized Equipment - Equipment not typically used in the performance of electric UG or line distribution work. List of Specialized Equipment is in Equipment Section of the Unit Guide.

General Info

Units cover project and program work

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

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

All cable identification will be done per National Grid EOPs and labeling will be done per National Grid standard

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 part Pass Through invoice:

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.

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.

Unit Code	Family	Type	Unit Action	UOM	URD / MH DUCT	Standards/EOPs	Unit Description		Note
MN1	Maintenance	Handhole	Label	Per Structure	URD / MH Duct	STD# 33 UG-EOP# 1	Add missing nomenclature (labeling) to handhole	Handhole - missing nomenclature (labeling)	Re-labeling according to National Grid specifications. Labeling of the structure only.
MN2	Maintenance	Handhole	Repair	Per Structure	URD	STD# 45 UG-EOP# 1	Secure loose handhole lid	Handhole - Unsecured / Loose	Bolts that hold down the lid break. Repair includes breaking off old ones and putting new ones in to secure the lid down
MN3	Maintenance	Manhole / Vault	Install	Per Rod	MH Duct	STD# 33 UG-EOP# 11 UG-EOP# 1 UG-EOP# 6	Install ground rod in manhole / vault	Manholes - Ground rods missing	Unit includes all locates to ensure area is clear of all other utilities. Unit includes drilling through the manhole floor or side to install ground rod. Once installed, ground rod needs to be bonded to ground ring.
MN4	Maintenance	Manhole / Vault	Repair	Per Wall	MH Duct	STD# 33 UG-EOP# 11 UG-EOP# 1 UG-EOP# 6	Mortar conduit seals in manhole / vault	Manholes - Conduit Seals broken	Remortar around the conduits, where they come into the vault or manhole. Making a mortar repair around the conduit end.
MN5	Maintenance	Manhole	Label	Per Structure	MH Duct	STD# 33 UG-EOP# 11 UG-EOP# 1 UG-EOP# 6	Add missing nomenclature (labeling) to manhole or vault	Manholes / Vaults - Missing / Improper nomenclature (labeling)	Re-labeling according to National Grid specifications. Labeling of the structure only. Includes chimney and throat.
MN6	Maintenance	Vault	Label	Per Structure	MH Duct	STD# 33 UG-EOP# 14 UG-EOP# 4 UG-EOP# 6	Add missing nomenclature (labeling) to vault	Vaults - Missing/Improper nomenclature	Re-labeling according to National Grid specifications. Labeling of the structure only.
MN7	Maintenance	Manhole / Vault	Repair	Per Circuit	MH Duct	STD# 33 UG-EOP# 11 UG-EOP# 1 UG-EOP# 6	Re-rack cables in manhole	Manholes - Rerack	Unit includes the re-racking of cables. Includes repairing the racks or placing cable on splicer boards or insulators. Includes re-grounding the rack as necessary. Includes the arm, doesn't include the station
MN8	Maintenance	Manhole / Vault	Install	Per Structure	MH Duct	STD# 33 UG-EOP# 11 UG-EOP# 1 UG-EOP# 6	Drill holes in manhole cover roof	Manholes - No holes in Manhole Cover	Using a magnet based drill or cutting dye to cut new holes into the manhole cover.
MN9	Maintenance	Switchgear	Install	Per Barrier	MH Duct	STD# 38 UG-EOP# 11 UG-EOP# 1	Install switchgear barrier	Switchgear - barrier broken / damaged / unsecured	Unit includes the removal of existing barrier if needed and installation of new barrier. Work would require an outage.
MN10	Maintenance	Switchgear	Replace	Per Fuse	MH Duct	STD# 38 UG-EOP# 11 UG-EOP# 1	Replace broken\ blown fuse in switchgear	Switchgear - Blown fuse	Remove old fuse and replace with appropriate size fuse
MN11	Maintenance	Switchgear	Replace	Per Structure	MH Duct	STD# 38 UG-EOP# 11 UG-EOP# 1	Replace heater in switchgear	Switchgear - Heater broken	Make repairs to heater or install new heater. Installation of new heater includes ensuring they are fused and wired appropriately. The disconnect must be labeled properly that they are for the heaters in the switch gear. Outage must be taken in install new heater. Fuse disconnect on outside wall of transformer or switch gear
MN12	Maintenance	Switchgear	Label	Per Structure	URD / MH Duct	STD# 38 UG-EOP# 11 UG-EOP# 1	Add missing nomenclature (labeling) to switchgear	Switchgear - Missing nomenclature	Re-labeling according to National Grid specifications.
MN13	Maintenance	Transformer	Label	Per Structure	URD / MH DUCT	STD# 40 EOP# 11 EOP# 6 EOP# 1	Add missing nomenclature (labeling) to transformer	Transformer - Missing nomenclature	Re-labeling according to National Grid specifications.
MN14	Maintenance	Splice	Repair	Per Cable	MH Duct	EOP# 1 EOP# 5	Repair splice using National Grid Cable Repair Kit	Splice - Leaking - Repair Kit	Use National Grid cable repair kit or solder repair around cable. If NRA is needed, notification is required.
MN15	Maintenance	Cable	Label	Per Circuit, Per Manhole	URD / MH DUCT	STD# 35	Label cables		Unit includes appropriate work methods for identifying the cable and the labeling of each cable per standard.
MN16	Maintenance	Fire Prevention	Repair	Per Circuit	URD / MH DUCT	STD# 35	Install fire tape		Installation of fire tape. All 3 phases need to be fire taped as one. If asbestos is present, it must be abated before fire taping using a National Grid approved vendor.
MN17	Maintenance	Anodes	Repair	Per Structure	MH Duct	STD# 33	Install or replace all anodes in structure		Include all connections. Unit includes labor and equipment required to crimp it in.
MN18	Maintenance	Design Pt Minimum	Repair	Per Structure	URD / MH DUCT		Design Point Minimum Charge	Design Point Minimum Charge	Unit covers the contractors cost to breakdown, setup the work zone, complete pre-construction tasks, and complete minimum amount of work. Design Point Minimum unit is earned when the sum of the units completed on the job does not exceed the Design Point Minimum amount. This unit isn't applicable for Survey pre construction for I&M or project work.
MN19	Maintenance	Fire Prevention	Install	Per Duct	URD / MH DUCT	STD# 35	Foaming the ducts		Unit includes applying foam to the duct.
MN20	Maintenance	Ground Ring	Install	Per Ground Ring	MH Duct		Install ground ring		Install ground ring in manhole or vault. Includes all connections and hardware installation.
MN21	Maintenance	Cable Rack	Install	Per station	MH Duct		Install cable racks		Unit includes the installation of the station, arms, insulators, hardware, and bonding to the ground grid. This unit cannot be taken in conjunction with the install arm unit. Installation of the arm is included in the cable rack installation.

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MN22	Maintenance	Cable Rack	Remove	Per station	MH Duct		Remove cable racks		Unit includes the removal of the station, arms, insulators, hardware, and bonding to the ground grid. This unit cannot be taken in conjunction with the remove arm unit. Removal of the arm is included in the cable rack removal.
MN23	Maintenance	Cable Rack	Install	Per Arm	MH Duct		Install cable arm		Unit includes the installation of the arm, hardware, and insulator.
MN24	Maintenance	Cable Rack	Remove	Per Arm	MH Duct		Remove cable arm		Unit includes the removal of the arm, hardware, and insulator.
MN25	Maintenance	Bonding	Bond	Per Bond	MH Duct		Bond equipment or material		Unit is for bonding any racks, cables, ladder, etc. that would be bonded to the ground ring. Unit is per bond regardless of the material or equipment being bonded.
DE1	Device	Switch	Install	Each	MH Duct	STD# 38 UG-EOP# 7	Install VFI Switchgear (Single Phase)		Unit includes installation of the switch, grounding, installing bolts & anchors, tying to ground ring and all cable connections
DE2	Device	Switch	Remove	Each	MH Duct	STD# 38 UG-EOP# 7	Remove VFI Switchgear (Single Phase)		Removal includes identifying the cable by National Grid's EOPs, unbolting, and hoisting it out of the hole. Transport to National Grid directed facility is included.
DE3	Device	Switch	Install	Each	MH Duct	STD# 38 UG-EOP# 7	Install VFI Switchgear (3 Phase)		Unit includes installation of the switch, grounding, installing bolts & anchors, tying to ground ring and all cable connections
DE4	Device	Switch	Remove	Each	MH Duct	STD# 38 UG-EOP# 7	Remove VFI Switchgear (3 Phase)		Removal includes identifying the cable by National Grid's EOPs, unbolting, and hoisting it out of the hole. Transport to National Grid directed facility is included.
DE5	Device	Switch	Remove	Each	MH Duct	STD# 38 UG-EOP# 15	Remove Oil Fused Cutout Switch (OFC)		Removal includes identifying the cable by National Grid's EOPs, unbolting, and hoisting it out of the hole. Capping of the cable and ensurance of not spilling during removal is included. Containment and transport of OFC to National Grid directed facility is included.
DE6	Device	Switch	Install	Each	URD	STD# 38 UG-EOP# 16A UG-EOP# 16B	Install Switchgear (pad mount)		Unit includes the setting of a switchgear on a pad. Unit includes the installation of all cable connections, grounding and labeling to standards, and ensuring cable feeds are labeled. Outside of the switchgear needs to be labeled with cable name (feeder #) and the switch #. Fused appropriately at the J switch.
DE7	Device	Switch	Remove	Each	URD	STD# 38 UG-EOP# 16A UG-EOP# 16B	Remove Switchgear (pad mount)		Unit includes disconnecting of cable, grounding, disassembling and ensuring all cable labels are left in place for reinstall. Unit also includes transport to National Grid directed facility.
DE8	Device	Switch	Remove	Each	MH Duct	STD# 38	Remove Secondary Switch - De-energized		Removal includes checking and maintaining phasing, identifying the cable, unbolting, and hoisting it out of the hole. If switch has oil, includes proper containment and transport to National Grid facility for proper disposal.
DE9	Device	Switch	Remove	Each	MH Duct	STD# 38	Remove Secondary Switch - Live		Removal includes checking and maintaining phasing, identifying the cable, unbolting, and hoisting it out of the hole. If switch has oil, includes proper containment and transport to National Grid facility for proper disposal.
DE10	Device	Switching Module	Install	Each	URD	STD# 38 STD# 45	Install switching Module or Fused Switchpad (Switch Cabinet)		Installation includes ensuring proper bolting and grounding, verifying phasing is correct, and making all electrical connections. Both cable and outside cabinet labeling per standards is included.
DE11	Device	Switching Module	Remove	Each	URD	STD# 38 STD# 45	Remove Switching Module or Fused Switchpad (Switch Cabinet)		Removal includes elbows being stood off and cabinet removal. Keeping all label tags in place, cabinet needs to be removed from site and recycled. Transport to National Grid directed facility is included.
DE12	Device	Enclosure	Remove	Each	URD	STD# 38 STD# 45	Remove Enclosure		Removal includes elbows being stood off and ground unbolted from cabinet. Keep all label tags in place, cabinet needs to be removed from site and recycled. Contractors responsibility to dispose of the cabinet.
DE13	Device	Submersible Transformer	Install	Each	URD / MH Duct	STD# 40	Install Submersible Transformer		Unit includes transportation, rigging, placement, primary and secondary connections, bonding, and labeling. If used in a 3 phase bank, necessary internal connections are included in the unit.
DE14	Device	Submersible Transformer	Remove	Each	URD / MH Duct	STD# 40	Remove Submersible Transformer		Unit includes verifying de-energized and grounded, removing connections, removing bonding, and removing the unit. If leaking, unit includes placement in a transformer bag or other containment to ensure no leaking and transport to National Grid designated location for disposal. All cable tags need to be left in place.
DE15	Device	Submersible Switches	Install	Each	MH Duct	STD# 38	Install Submersible Switches		Unit includes the transport and setting of a switchgear in manhole. Unit includes making primary connections, bonding, and labeling.

DE16	Device	Submersible Switches	Remove	Each	MH Duct	STD# 38	Remove Submersible Switches	Unit includes verifying de-energized and grounded, removing connections, removing bonding, and removing the unit. If leaking, needs to be placed in a transformer bag or other containment to ensure no leaking. Bring to National Grid designated location for disposal. All cable tags need to be left in place.
DE17	Device	Padmount Transformer	Install	Each	URD	STD# 40	Install Single Phase Padmount Transformer	Includes all sizes. If specialty equipment is required, that will be in addition to this unit.
DE18	Device	Padmount Transformer	Remove	Each	URD	STD# 40	Remove Single Phase Padmount Transformer	
DE19	Device	Padmount Transformer	Install	Each	URD	STD# 40	Install 3 Phase Padmount Transformer	
DE20	Device	Padmount Transformer	Remove	Each	URD	STD# 40	Remove 3 Phase Padmount Transformer	
SP1	Splice	Trifurcating	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Trifurcating Splice, 1/0 to 500 mcm (includes 1/0, 4/0, 350mcm, 500mcm), up to 15kV	Unit includes cable and phase identifying per National Grid EOPs, racking the cable, splicing, bonding, labeling of cable, and installation of the fire tape per manufacturer specification and National Grid Specifications
SP2	Splice	Trifurcating	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Trifurcating Splice, over 500mcm up to 1000mcm (does not include 500mcm), up to 15kV	
SP3	Splice	Trifurcating	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Trifurcating splice, over 1000mcm up to 2000mcm (does not include 1000mcm, up to 15kV	
SP4	Splice	Trifurcating	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Trifurcating Splice, 1/0 to 500mcm (includes 1/0, 4/0, 350mcm, 500mcm), greater than 15kV	
SP5	Splice	Trifurcating	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Trifurcating Splice, over 500mcm up to 1000mcm (does not include 500mcm), greater than 15kV	
SP6	Splice	Trifurcating	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Trifurcating Splice, over 1000mcm up to 2000mcm (does not include 1000mcm, greater than 15kV	Phasing identification may required from a remote location.
SP7	Splice	Trifurcating	Remove	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Remove Trifurcating splice	
SP8	Splice	Cold Shrink	Install	Per Splice	URD	STD# 36 UG-EOP# 5	Cold Shrink Splice, up to including #2, up to 15kV	Unit includes identifying the cable by National Grid's EOPs, removing the splice, and labeling phasing per National Grid standards. If oil filled or lead, includes proper containment and transport to National Grid facility for proper disposal.
SP9	Splice	Cold Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Cold Shrink Splice, 1/0 to 500mcm (includes 1/0, 4/0, 350mcm, 500mcm), Up to 15kV	
SP10	Splice	Cold Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Cold Shrink Splice, over 500mcm up to 1000mcm (does not include 500mcm), up to 15kV	
SP11	Splice	Cold Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Cold Shrink Splice, over 1000mcm up to 2000mcm (does not include 1000mcm), up to 15kV	
SP12	Splice	Cold Shrink	Install	Per Splice	URD	STD# 36 UG-EOP# 5	Cold Shrink Splice, up to including #2, greater than 15kV	
SP13	Splice	Cold Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Cold Shrink Splice, 1/0 to 500mcm (includes 1/0, 4/0, 350mcm, 500mcm), greater than 15kV	
SP14	Splice	Cold Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Cold Shrink Splice, over 500mcm up to 1000mcm (does not include 500mcm), greater than 15kV	
SP15	Splice	Cold Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Cold Shrink Splice, over 1000mcm up to 2000mcm (does not include 1000mcm), greater than 15kV	
SP16	Splice	Heat Shrink	Install	Per Splice	URD	STD# 36 UG-EOP# 5	Heat Shrink Splice, up to including #2, up to 15kV	
SP17	Splice	Heat Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Heat Shrink Splice, 1/0 to 500mcm (includes 1/0, 4/0, 350mcm, 500mcm), up to 15kV	
SP18	Splice	Heat Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Heat Shrink Splice, over 500mcm up to 1000mcm (does not include 500mcm), up to 15kV	Unit includes cable and phase identifying per National Grid EOPs, racking the cable, splicing, bonding, labeling of cable, and installation of the fire tape per manufacturer specification and National Grid Specifications
SP19	Splice	Heat Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Heat Shrink Splice, over 1000mcm up to 2000mcm (does not include 1000mcm), up to 15kV	
SP20	Splice	Heat Shrink	Install	Per Splice	URD	STD# 36 UG-EOP# 5	Heat Shrink Splice, up to including #2, greater than 15kV	
SP21	Splice	Heat Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Heat Shrink Splice, 1/0 to 500mcm (includes 1/0, 4/0, 350mcm, 500mcm), greater than 15kV	
SP22	Splice	Heat Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Heat Shrink Splice, over 500mcm up to 1000mcm (does not include 500 mcm), greater than 15kV	

SP23	Splice	Heat Shrink	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Heat Shrink Splice, over 1000mcm up to 2000mcm (does not include 1000mcm), greater than 15kV		
SP24	Splice	Heat / Cold Shrink	Remove	Per Splice	URD / MH Duct	STD# 36 UG-EOP# 5	Removal of a cold or heat shrink splice		Unit includes identifying the cable by National Grid's EOPs, removing the splice, and labeling phasing per National Grid standards.
SP25	Splice	Y - Splice	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Y Splice (Premolded) Up to and including 15kV		Unit includes cable and phase identifying per National Grid EOPs, racking the cable, splicing, bonding, labeling of cable, and installation of the fire tape per manufacturer specification and National Grid Specifications. All bonding
SP26	Splice	Y - Splice	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	Y Splice (Premolded) Greater than 15kV		Unit includes cable and phase identifying per National Grid EOPs, racking the cable, splicing, bonding, labeling of cable, and installation of the fire tape per manufacturer specification and National Grid Specifications. All bonding
SP27	Splice	H - Splice	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	H Splice (Premolded) Up to and including 15kV		Unit includes cable and phase identifying per National Grid EOPs, racking the cable, splicing, bonding, labeling of cable, and installation of the fire tape per manufacturer specification and National Grid Specifications. All bonding
SP28	Splice	H - Splice	Install	Per Splice	MH Duct	STD# 36 UG-EOP# 5	H Splice (Premolded) Greater than 15kV		Unit includes cable and phase identifying per National Grid EOPs, racking the cable, splicing, bonding, labeling of cable, and installation of the fire tape per manufacturer specification and National Grid Specifications. All bonding
SP29	Splice	T-Body Splice	Install	Per T-Body	MH Duct	STD# 36 UG-EOP# 5	T-Body Splice (Premolded) Up to and including 15kV		Unit includes cable and phase identifying per National Grid EOPs, racking the cable, splicing, bonding, labeling of cable, and installation of the fire tape per manufacturer specification and National Grid Specifications. All bonding
SP30	Splice	T-Body Splice	Install	Per T-Body	MH Duct	STD# 36 UG-EOP# 5	T-Body Splice (Premolded) Greater than 15kV		Unit includes cable and phase identifying per National Grid EOPs, racking the cable, splicing, bonding, labeling of cable, and installation of the fire tape per manufacturer specification and National Grid Specifications. All bonding
SP31	Splice	Secondary Splice	Install	Each	URD / MH Duct	STD# 36 UG-EOP# 5	Crab (up to 8 position) All sizes of conductor		Includes all racking of cables, identifying per National Grid EOPs, labeling per National Grid standards, and extension of leads as needed.
SP32	Splice	Secondary Splice	Install	Each	URD / MH Duct	STD# 36 UG-EOP# 5	Crab (10 and greater positions) All sizes of conductor		Number of positions is dictated by the number of
SP33	Splice	Secondary Splice	Remove	Each	URD / MH Duct	STD# 36 UG-EOP# 5	Crab (up to 8 position) All sizes of conductor		Includes all racking of cables, identifying per National Grid EOPs, labeling per National Grid standards, and extension of leads as needed.
SP34	Splice	Secondary Splice	Remove	Each	URD / MH Duct	STD# 36 UG-EOP# 5	Crab (10 and greater positions) All sizes of conductor		Number of positions is dictated by the number of
SP35	Splice	Secondary Splice	Install	Each	URD / MH Duct	STD# 36 UG-EOP# 5	Straight Splice All sizes		Unit includes identifying cables per National Grid EOP, splicing, and labeling of cable per National Grid standards. All splices shall be completed according to manufacture specifications.
RI1	Risers	Primary or Secondary Riser	Install	Per Conduit	URD / MH DUCT	STD# 48	Install riser and sweep, up to and including 4"		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 with transition piece. Terminators, arrestors and cutouts are separate units.
RI2	Risers	Primary or Secondary Riser	Remove	Per Conduit	URD / MH DUCT	STD# 48	Remove riser and sweep, up to and including 4"		Pulling the cable is not included in this unit. Unit also includes the bonding of any spare conduits.
RI3	Risers	Primary or Secondary Riser	Transfer	Per Conduit	URD / MH DUCT	STD# 48	Transfer riser and sweep, up to and including 4"		
RI4	Risers	Primary or Secondary Riser	Install	Per Conduit	URD / MH DUCT	STD# 48	Install riser and sweep, greater than 4"		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 with transition piece. Terminators, arrestors and cutouts are separate units.
RI5	Risers	Primary or Secondary Riser	Remove	Per Conduit	URD / MH DUCT	STD# 48	Remove riser and sweep, greater than 4"		Pulling the cable is not included in this unit. Unit also includes the bonding of any spare conduits.
RI6	Risers	Primary or Secondary Riser	Transfer	Per Conduit	URD / MH DUCT	STD# 48	Transfer riser and sweep, greater than 4"		
TE1	Terminator	Cold Shrink	Install	Each	URD	STD# 37	Install cold shrink termination, up to including #2, up to 15kV		Unit includes bonding, structural connections, and attachment brackets. Built to manufacturers specification and National Grid standard
TE2	Terminator	Cold Shrink	Install	Each	MH Duct	STD# 37	Install cold shrink termination, 1/0 to 500mcm (including 500mcm), Up to 15kV		
TE3	Terminator	Cold Shrink	Install	Each	MH Duct	STD# 37	Install cold shrink termination, 500mcm to 1000mcm (does not include 500mcm), up to 15kV		
TE4	Terminator	Cold Shrink	Install	Each	MH Duct	STD# 37	Install cold shrink termination, 1000mcm to 2000mcm (does not include 1000mcm), up to 15kV		
TE5	Terminator	Cold Shrink	Install	Each	URD	STD# 37	Install cold shrink termination, up to including #2, greater than 15kV		
TE6	Terminator	Cold Shrink	Install	Each	MH Duct	STD# 37	Install cold shrink termination, 1/0 to 500mcm (including 500mcm), greater than 15kV		
TE7	Terminator	Cold Shrink	Install	Each	MH Duct	STD# 37	Install cold shrink termination, 500mcm to 1000mcm (does not include 500mcm), greater than 15kV		
TE8	Terminator	Cold Shrink	Install	Each	MH Duct	STD# 37	Install cold shrink termination, 1000mcm to 2000mcm (does not include 1000mcm), greater than 15kV		
TE9	Terminator	Heat Shrink	Install	Each	URD	STD# 37	Install heat shrink termination, up to including #2, up to 15kV		
TE10	Terminator	Heat Shrink	Install	Each	MH Duct	STD# 37	Install heat shrink termination, 1/0 to 500mcm (including 500mcm), up to 15kV		
TE11	Terminator	Heat Shrink	Install	Each	MH Duct	STD# 37	Install heat shrink termination, 500mcm to 1000mcm (does not include 500mcm), up to 15kV		

TE12	Terminator	Heat Shrink	Install	Each	MH Duct	STD# 37	Install heat shrink termination, 1000mcm to 2000mcm (does not include 1000mcm), up to 15kV	Unit includes bonding, structural connections, and attachment brackets. Built to manufacturers specification and National Grid standard
TE13	Terminator	Heat Shrink	Install	Each	URD	STD# 37	Install heat shrink termination, up to including #2, greater than 15kV	
TE14	Terminator	Heat Shrink	Install	Each	MH Duct	STD# 37	Install heat shrink termination, 1/0 to 500mcm (including 500mcm), greater than 15kV	
TE15	Terminator	Heat Shrink	Install	Each	MH Duct	STD# 37	Install heat shrink termination, 500mcm to 1000mcm (does not include 500mcm), greater than 15kV	
TE16	Terminator	Heat Shrink	Install	Each	MH Duct	STD# 37	Install heat shrink termination, 1000mcm to 2000mcm (does not include 1000mcm), greater than 15kV	
TE17	Terminator	Heat / Cold Shrink	Remove	Each			Remove heat or cold shrink termination	Identifying per National Grid EOPs, cutting, and removing. Can be used for removal of potheads.
TE18	Terminator	Premolded	Install	Each	URD	STD# 37	Install Loadbreak Elbow All Sizes	Unit includes bonding, structural connections, and attachment brackets. Built to manufacturers specification and National Grid standard
TE19	Terminator	Premolded	Remove	Each	URD	STD# 37	Remove Loadbreak Elbow All Sizes	Unit includes bonding, structural connections, and attachment brackets. Built to manufacturers specification and National Grid standard
TE20	Terminator	Premolded	Install	Each	URD / MH DUCT	STD# 37 STD# 36 UG-EOP# 5	Install Non-Loadbreak or T Body Elbow, All Sizes	Unit includes identifying per National Grid EOPs, labeling per National Grid standards, bonding, structural connections, and attachment brackets. Built to manufacturers specification and National Grid standard
TE21	Terminator	Premolded	Remove	Each	URD / MH DUCT	STD# 37 STD# 36 UG-EOP# 5	Remove Non-Loadbreak or T Body Elbow, All Sizes	Unit includes identifying per National Grid EOPs, labeling per National Grid standards, bonding, structural connections, and attachment brackets. Built to manufacturers specification and National Grid standard
CP1	Cable Pulling	In Conduit	Install	Circuit Ft. Per pull	URD	STD# 35 UG-EOP# 2	Pulling conductor size up to #2 in conduit	Includes all labor, equipment and tools required to pull the specified conductor through conduit. Rigging must comply with the National Grid cable pulling policy. Pulling requires soap or lubricant on installation.
CP2	Cable Pulling	In Conduit	Install	Circuit Ft. Per pull	MH Duct	STD# 35 UG-EOP# 2	Pulling conductor size #1/0 - 500 mcm in conduit (includes 1/0, 4/0, 350mcm, 500mcm)	
CP3	Cable Pulling	In Conduit	Install	Circuit Ft. Per pull	MH Duct	STD# 35 UG-EOP# 2	Pulling conductor size greater than 500mcm up to 1000mcm in conduit (does not include 500mcm)	
CP4	Cable Pulling	In Conduit	Install	Circuit Ft. Per pull	MH Duct	STD# 35 UG-EOP# 2	Pulling conductor size greater than 1000mcm up to 2000mcm (does not include 1000mcm)	
CP5	Cable Pulling	In Conduit	Install	Circuit Ft. Per pull	MH Duct	STD# 35 UG-EOP# 2	Pulling supervisory cable in conduit	Unit includes the labor, equipment, and tools required to remove conductor from conduit and all recycling activities.
CP6	Cable Pulling	In Conduit	Remove	Circuit Ft. Per pull	URD	STD# 35 UG-EOP# 2	Remove cable from conduit, size up to #2	
CP7	Cable Pulling	In Conduit	Remove	Circuit Ft. Per pull	MH Duct	STD# 35 UG-EOP# 2	Remove cable from conduit, size #1/0 - 500mcm (includes 1/0, 4/0, 350mcm, 500mcm)	
CP8	Cable Pulling	In Conduit	Remove	Circuit Ft. Per pull	MH Duct	STD# 35 UG-EOP# 2	Remove cable from conduit, size greater than 500mcm up to 1000mcm (does not include 500mcm)	
CP9	Cable Pulling	In Conduit	Remove	Circuit Ft. Per pull	MH Duct	STD# 35 UG-EOP# 2	Remove cable from conduit, size greater than 1000mcm up to 2000mcm (does not include 1000mcm)	
CP10	Cable Pulling	In Conduit	Install	Per Circuit per manhole	MH Duct		Rack cable when pulling straight through a manhole	Unit awarded when cable is pulled straight through a manhole. Includes pulling slack in either direction and racking cable.
CP11	Cable Pulling	Direct Buried	Install	Circuit Ft. Per pull	URD	STD# 35 UG-EOP# 2	Laying cable in a prepared trench, size up to #2	Includes all labor, equipment and tools required to lay the cable in the trench. Once installed cables must be properly bedded to prevent damage during backfilling process. If cable is greater than #2 and additional utilities are in the trench, a bare #2 conductor shall be installed also - use WP8 for compensation
CP12	Cable Pulling	Direct Buried	Install	Circuit Ft. Per pull	URD	STD# 35 UG-EOP# 2	Laying cable in a prepared trench, size 1/0 - 500mcm (includes 1/0, 4/0, 350mcm, 500mcm)	
CP13	Cable Pulling	Direct Buried	Install	Circuit Ft. Per pull	URD	STD# 35 UG-EOP# 2	Laying cable in a prepared trench, size greater than 500mcm up to 1000mcm (does not include 500mcm)	
CP14	Cable Pulling	Direct Buried	Install	Circuit Ft. Per pull	URD	STD# 35 UG-EOP# 2	Laying cable in a prepared trench, size greater than 1000mcm up to 2000mcm (does not include 1000mcm)	
CP15	Cable Pulling	Direct Buried	Install	Circuit Ft. Per pull	URD	STD# 35 UG-EOP# 2	Laying supervisory cable in a prepared trench	
CP16	Cable Pulling	Rod & Rope	Clean	Circuit Ft. Per pull	URD / MH DUCT	STD# 35 UG-EOP# 2	Applying compressed air and hand rodding to clear duct	

CP17	Cable Pulling	Rod & Rope	Clean	Circuit Ft. Per pull	URD / MH DUCT	STD# 35 UG-EOP# 2	Brushing mandrel	Once a line can be pulled through the entire duct, this unit covers the proofing of the duct with a mandrel. Unit covers all mandreling until the duct mandrels successfully.
MU1	Misc. UG	Survey	Survey	Per Manhole	RD / MH DUCT	NG-EOP UG010 NG-EOP UG006	Survey for I&M or project work	Unit is earned one time per structure per day. Includes but is not limited to setup, cage, entry, dewatering, atmospheric testing, heat gun (IR gun) and all visual checks and required reporting (i.e. - presence of oil leaks or asbestos). Physical checks - proper grounding and presence of ground ring, and any additional work required before beginning planned work. Update any paperwork (for example duct views) If entry is required in association with a unit, unit is not awarded. Unit is earned when entering a manhole for non-unit work related tasks (survey) only.
MU2	Misc. UG	Digging	NONE	1 hour	RD / MH DUCT	N/A	Hourly rate to hand dig	
MU3	Misc. UG	Digging	NONE	1 hour	RD / MH DUCT	N/A	Hourly rate to machine dig (any equipment smaller than backhoe)	National Grid anticipates the majority of civil work to be completed by other vendors. These units are available for when the UG COC is required to dig (for example proper installation of foundations or trench prep)
MU4	Misc. UG	Digging	NONE	1 hour	RD / MH DUCT	N/A	Hourly rate to machine dig (backhoe or larger)	
MU5	Misc. UG	Manhole Prep	Dewatering	Per Structure / Per Day	RD / MH DUCT	N/A	Excessive Dewatering	If more than the dewatering included in the units is required to clear the manhole for work. If 45 minutes with a 2" pump does not cover the time required to lower the water level, it will be considered excessive dewatering. This unit will be paid to compensate the contractor for removing the water. This unit is earned per structure per day. See spec for further details.
MU8	Misc. UG	Travel	Mobilization	Per employee per mile	N/A	N/A	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.
MU9	Misc. UG	Labor	NONE	Per hour	URD / MH DUCT	N/A	1 man crew straight time (1X)	Unit is inclusive of equipment. Used for tasks where units are not applicable (approval required) or in cases of National Grid causes delays (for examples switching or assisting with cable testing)
MU10	Misc. UG	Labor	NONE	Per hour	URD / MH DUCT	N/A	1 man crew overtime (1.5X)	All inclusive unit including man power and equipment. Used for tasks where units are not applicable (approval required) or in cases of National Grid caused delays. Contractor can earn these units when waiting for a National Grid caused delays for examples switching or assisting with cable testing.
MU11	Misc. UG	Labor	NONE	Per hour	URD / MH DUCT	N/A	1 man crew premium time (2X)	All inclusive unit including man power and equipment. Used for tasks where units are not applicable (approval required) or in cases of National Grid caused delays. Contractor can earn these units when waiting for a National Grid caused delays for examples switching or assisting with cable testing.
MU12	Misc. UG	Labor	NONE	Per hour	URD / MH DUCT	N/A	OT Adder (.5X)	Unit is earned when a COC is completing work on units during a time they are entitled to OT. Approval from the National Grid CS is required to work OT.
MU13	Misc. UG	Labor	NONE	Per hour	URD / MH DUCT	N/A	Premium Adder (1X)	Unit is earned when a COC is completing work on units during a time they are entitled to premium pay. Approval from the National Grid CS is required to work during premium times.
MU14	Misc. UG	Grounding	Grounding	Per ground	URD / MH DUCT	N/A	Test de-energize and ground per phase. Test De-energized and ground per phase	To be used for any type of grounding under the Clearance and Control Guidelines. Unit includes installation and removal.
MU15	Misc. UG	Labor	Flagging	Per hour	URD / MH DUCT	N/A	1 flagger per hour	Used for when a designated flagger is required for either roadway or sidewalk or workzone protection. Not used for incidental flagging. (approval required)

Distribution Construction Underground Equipment List

Type	UOM	Unit Description	Notes	Speciality Equipment	Price (Per Hour)	Minimum Duration (Hrs)
Cable Pulling	Hour	UG Cable Pulling Truck 1500' - 2000'	Includes a Winch			
Cable Pulling	Hour	UG Cable Puller <=20,000lbs Pulling Capacity				
Cable Pulling	Hour	UG Cable Puller >20,000lbs tension weight				
Cable Pulling	Hour	UG Cable Trailer - Self loading				
Cable Pulling	Hour	UG Cable Trailer - self pay out / in				
Cable Pulling	Hour	UG Cable Trailer - Chariot type				24
Cable Pulling	Hour	Jam Skid				
Cable Pulling	Hour	Pulling blocks/wheels				
Cable Pulling	Hour	Fiberglass rodder				
Cable Pulling	Hour	Winch Truck		X		
Cable Pulling	Hour	Tow behind Air Compressor 125cfm		X		
Cable Pulling	Hour	Dump Truck		X		
Traffic Control	Hour	Tow behind arrow board				24
UG Cable	Hour	Cable Splicing Truck/Van	Equipped with road traffic equipment			
UG Cable	Hour	Portable Puller (Green Lee)				
UG Cable	Hour	Water Rodder		X		48
UG Cable	Hour	Power Rodder/Camera equipped		X		48
UG Cable	Hour	Pumps 2" dewater manholes & vaults				
UG Cable	Hour	Pumps 4-5" dewater manholes & vaults				24
UG Cable	Hour	Boom/crane truck - Knuckle boom/Stake body <=10,000lbs				24
UG Cable	Hour	Boom/crane truck - Knuckle boom/Stake body >10,000lbs				24
UG Cable	Hour	Boom/crane truck - Straight boom <=10,000lbs				
UG Cable	Hour	Boom/crane truck - Straight boom >10,000lbs				
UG Cable	Hour	Camera	Camera System to send down a duct			
Passenger Vehicles	Hour	Any Sport Utility Vehicle (SUV)				
Passenger Vehicles	Hour	Pick up Truck 4X4 1 ton				
Passenger Vehicles	Hour	Pick-up Truck 1/2 ton 2X4				
Passenger Vehicles	Hour	Pick up Truck 1/2 ton 4X4				
Passenger Vehicles	Hour	Pick up Truck 4X4 3/4 ton				
Passenger Vehicles	Hour	Pick-up Truck 4X4 Crew Cabs 1 ton				
Passenger Vehicles	Hour	Pick-up Truck 4X4 Crew Cabs 3/4 ton				
Passenger Vehicles	Hour	Supervisor Vehicle				
Buckets	Hour	Bucket Truck 25' - 55'				
Buckets	Hour	Bucket Truck 25' - 55' MH				
Buckets	Hour	Bucket Truck 65' or greater		X		
Buckets	Hour	Bucket Truck 65' or greater MH		X		
Service Vehicles	Hour	Mechanic / Service Truck				

SCHEDULE F

ENVIRONMENTAL REQUIREMENTS

(AS INCLUDED WITHIN FILES FOR RFP)

Including but not limited to:

- Files entitled
 - EP6_AppC Rev 5 (5-28-11).pdf

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

SCHEDULE G

INSURANCE REQUIREMENTS & CERTIFICATE

SCHEDULE H

**SECURITY
BACKGROUND CHECK REQUIREMENTS**