



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Consider resolution awarding bid to CE Power for Keslinger Road and Delnor Substation Maintenance												
Presenter & Title:	Hal Wright, Superintendent of Electrical Services												
Date:	August 28, 2017												
Please Check Appropriate Box:													
<input checked="" type="checkbox"/>	Committee of the Whole Meeting		Special Committee of the Whole Meeting										
<input checked="" type="checkbox"/>	City Council Meeting		Special City Council Meeting										
<input type="checkbox"/>	Public Hearing		Other -										
Associated Strategic Plan Goal/Objective: Vision 5, Goal L to maintain high-quality public services that serve and protect our residents and businesses.													
Estimated Cost: \$52,330.00		Budgeted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No										
If "Other Funding," please explain how the item will be funded:													
Executive Summary:													
<p>Electric Division Staff is implementing the second year of an ongoing preventive maintenance program for the City of Geneva's substations. The goal is to maintain and inspect the Division's substations and power transformers on a five year rotation to achieve high reliability and to attain data for staff to make future capital planning and maintenance decisions.</p> <p>Sealed bids were solicited and opened on August 14, 2017. 5 bids were received and evaluated based on experience, availability and price.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding-right: 20px;">CE Power</td> <td>\$52,330.00</td> </tr> <tr> <td>L&S Electric</td> <td>\$62,010.00</td> </tr> <tr> <td>Electric Power Systems</td> <td>\$82,578.00</td> </tr> <tr> <td>Energis</td> <td>\$86,000.00</td> </tr> <tr> <td>GE Power Systems</td> <td>\$125,000.00</td> </tr> </table>				CE Power	\$52,330.00	L&S Electric	\$62,010.00	Electric Power Systems	\$82,578.00	Energis	\$86,000.00	GE Power Systems	\$125,000.00
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GE Power Systems	\$125,000.00												
Attachments: (please list)													
<ul style="list-style-type: none"> • Resolution • Memo • CE Power Bid 													
Recommendation / Suggested Action: (how item should be listed on agenda)													
Award bid to CE Power in the amount \$52,330.00 for Keslinger Road and Delnor substation maintenance.													

RESOLUTION NO. 2017-92
RESOLUTION AUTHORIZING EXECUTION OF
Keslinger Road and Delnor Substation Maintenance Contract with CE Power

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:

SECTION 1: That the City Administrator is hereby authorized to execute, on behalf of the City of Geneva, Keslinger Road and Delnor Substation Maintenance contract with CE Power, in the form attached hereto.

SECTION 2: This Resolution shall become effective from and after its passage as in accordance with law.

PASSED by the City Council of the City of Geneva, Kane County, Illinois, this 5th day of September, 2017

AYES: __ NAYS: __ ABSENT: __ ABSTAINING: __ HOLDING OFFICE: __

Approved by me this 5th day of September, 2017.

Mayor

ATTEST:

City Clerk



**PUBLIC WORKS DEPARTMENT
MEMORANDUM**

August 28, 2017

Memo To: Mayor Burns, Committee of the Whole

From: Hal Wright, Superintendent of Electrical Services

Re: Recommendation for South Street and Western Avenue Substation Maintenance

Electric Division Staff is in the second year of an ongoing preventive maintenance program for the City of Geneva's substations. The purpose of this program is to reduce the likelihood of sustained outages due to equipment failure and also gain a baseline of the health of the power transformers. This data will be used for eventual equipment replacement, capital planning and future maintenance needs. This was identified as Goal #6 in the Electric Division budget.

During this project the Keslinger Road Substation standby battery's will be replaced due their its time in service – 27 years. Also, an option was solicited to repaint the oil cooling fins on the power transformer at the Keslinger Road Substation.

Sealed bids were solicited and opened on August 14, 2017. The following bids were received:

	Spec'd Maintenance	Painting Option	Lump Sum
CE Power	\$52,330.00	\$16,502.00	\$68,832.00
L&S Electric	\$62,010.00		\$62,010.00
Electric Power Systems	\$81,978.00	\$600.00	\$82,578.00
Energis	\$86,000.00		\$86,000.00
GE Power Systems	\$125,000.00		\$125,000.00

All bids were complete and conformed to the bid requirements. CE Power included the option of painting the oil cooling fins while L&S Electric declined to bid the option. Due to budget consideration, staff considered the bids without including the Painting Option. Staff evaluated bids based on experience of the bidder, availability and price.

Staff Recommendation:

It is the staff's recommendation to award this bid to CE Power for the amount of \$52,330.00, without the optional repainting of the oil cooling fins at Keslinger Road Substation.

Cc: Stephanie Dawkins, City Administrator
Rich Babica, Director of Public Works
Aaron Holton, Manager of Electric Operations
Jennifer Hilkemann, Manager of Distribution Construction & Maintenance
Kirk Landberg, Purchasing & Inventory Coordinator

Original

BIDDING DOCUMENTS
Keslinger Road and Delnor Substation Maintenance

July 2017



Prepared By:

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ELECTRIC DIVISION
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CONTACT PERSON:

AARON HOLTON, MANAGER OF ELECTRIC OPERATIONS

TABLE OF CONTENTS

NOTICE TO BIDDERS.....	1
INSTRUCTIONS TO BIDDERS	2
2. <u>Work on Energized Lines.</u>	2
3. <u>Materials.</u>	2
4. <u>Obtaining Documents.</u>	2
5. <u>Manner of Submitting Proposals.</u>	3
6. <u>Familiarity with Conditions.</u>	3
7. <u>Bidder's Qualifications.</u>	3
8. <u>Alternate Designs.</u>	4
9. <u>The Time for Completion of Construction.</u>	4
10. <u>Bid Bond.</u>	5
11. <u>Contractor's Bond.</u>	5
12. <u>Failure to Furnish Contractor's Bond.</u>	5
13. <u>Contract is Entire Agreement.</u>	5
14. <u>Minor Irregularities.</u>	5
15. <u>Rejection of Bids.</u>	5
16. <u>Definition of Terms.</u>	6
17. <u>The Owner Represents:</u>	6
AFFIDAVIT OF EXPERIENCE.....	8
CERTIFICATION FOR BID	9
CERTIFICATION OF DRUG FREE WORKPLACE	10
CERTIFICATION FOR CONTRACT	11
CERTIFICATE OF COMPLIANCE WITH SECTION 11.42.1-1 OF THE ILLINOIS MUNICIPAL CODE....	12
BID BOND.....	13
CONTRACTOR'S PROPOSAL.....	13
ARTICLE I--GENERAL	14
Section 1 . <u>Offer to Construct.</u>	14
Section 2. <u>Owner-Furnished Materials.</u>	14
Section 3. <u>Purchase of Materials Not Furnished by Owner.</u>	15
Section 4. <u>Award of Contract.</u>	15
Section 5. <u>Proposal on a Unit Basis.</u>	16
Section 6. <u>Familiarity with Conditions.</u>	16
Section 7. <u>License.</u>	16
Section 8. <u>Proposal Made in Good Faith.</u>	16
Section 9. <u>Financial Resouces.</u>	17
Section 10. <u>Taxes.</u>	17
Section 11. <u>Changes in Quantities.</u>	17
Section 12. <u>Description of Contract.</u>	17
LIST OF OWNER FURNISHED MATERIALS	18
ARTICLE II--CONSTRUCTION.....	20
Section 1 . <u>Time and Manner of Construction.</u>	20
Section 2. <u>Protection and Restoration of Property.</u>	21
Section 3. <u>The Bidder.</u>	23
Section 4. <u>Changes in Construction.</u>	23
Section 5. <u>Construction Not in Proposal.</u>	24
Section 6. <u>Supervision and Inspection.</u>	24
Section 7. <u>Defective Materials and Workmanship.</u>	26
Section 8. - <u>Traffic Control and Road Conditions.</u>	26
ARTICLE III--PAYMENTS AND RELEASE OF LIENS	27
Section 1. <u>Payments to Contractor.</u>	27
Section 2. <u>Release of Liens and Certificate of Contractor.</u>	29
Section 3. <u>Payments to Materialmen and Sub-Contractors.</u>	29
WAIVER AND RELEASE OF LIEN.....	30
CERTIFICATE OF CONTRACTOR	31

ARTICLE IV--PARTICULAR UNDERTAKINGS OF THE BIDDER.....	32
<u>Section 1 . Protection to Persons and Property.</u>	32
<u>Section 2. Insurance</u>	34
<u>Section 3. Indemnification.</u>	35
<u>Section 4. Release of Liability.</u>	36
<u>Section 5. Delivery of Possession and Control to Owner.</u>	36
<u>Section 6. Assessment of Guarantees.</u>	36
<u>Section 7. Energizing the Project.</u>	36
ARTICLE V--REMEDIES	38
<u>Section 1. Completion on Contractor's Default.</u>	38
<u>Section 2. Liquidated Damages.</u>	38
<u>Section 3. Cumulative Remedies.</u>	38
ARTICLE VI--MISCELLANEOUS	39
<u>Section 1 . Definitions.</u>	39
<u>Section 2. Patent Infringement.</u>	41
<u>Section 3. Permits for Explosives.</u>	41
<u>Section 4. Compliance with Statutes and Regulations.</u>	41
<u>Section 5. Equal Opportunity Provisions.</u>	41
<u>Section 6. Franchises and Rights-of-way.</u>	43
<u>Section 7. Nonassignment of Contract.</u>	43
<u>Section 8. Extension to Successors and Assigns.</u>	44
<u>Section 9. Contractor.</u>	44
<u>Section 10. Addenda.</u>	44
<u>Section 11 . Prevailing Wage.</u>	44
PREVAILING WAGES FOR KANE COUNTY	46
PROPOSED SUB-CONTRACTORS	56
PROPOSAL SIGNATURE BY BIDDER	57
ACCEPTANCE.....	58
CONTRACTOR'S BOND	59
SPECIFICATIONS.....	62

FY 2017-18 Keslinger Road and Delnor Substation Preventive Maintenance

NOTICE TO BIDDERS

Duplicate sealed Proposals submitted in a sealed envelope with the words "Keslinger Road and Delnor Substation Maintenance" clearly marked on it, will be received by the City of Geneva, Illinois on or before ten o'clock a.m., local time, **August 14, 2017**, at the office of the City Administrator, 22 South First Street, Geneva, IL 60134, at which time they will be publicly opened and read for the construction, including the supply of necessary labor, materials and equipment of all related work thereto for the Project known as "Keslinger Road And Delnor Substation Substation Maintenance Contract". Any Proposal received subsequent to the time specified will be promptly returned to the Bidder unopened.

Description of Project: The project will consist of:

A maintenance cycle on the Power Transformer and Load Tap Changer at each substation. All relay settings and schemes will be tested and verified along with proper operation and timing of the associated circuit breakers. The standby substation service battery at Delnor substation will be fully load tested. The standby substation battery at Keslinger sub will be replaced as specified and the current battery recycled per IEPA regulations. An optional project, based on budget, will be the cleaning and painting of the oil cooler fins at Keslinger sub.

There will be a pre-Bid meeting on Wednesday, August 2, 2017 at 10:00 a.m. at Geneva Public Works, 1800 South Street, Geneva, IL 60134. All Bidders are required to attend or to request copies of meeting minutes.

This work shall be done in accordance with the Specifications as prepared by the City of Geneva Electric Utility. Copies of the plans, Specifications, and drawings together with all necessary forms and other documents for Bidders may be obtained via the web. Contact the City of Geneva Public Works Department for instructions on how to do so. The plans, Specifications, and construction drawings may be examined at the Public Works Department located at 1800 South Street, Geneva, IL. 60134.

The Contractor and Sub-Contractors shall pay not less than the prevailing rate of wages as found by the Department of Labor or as determined by the Court of Appeal, to all laborers, workmen and mechanics performing work under the Contract. A signed certification stating the above as well as the fact that the Bidder is not barred from Bidding as a result of a violation of either Section 33E-3 or 33E-4 of Chapter 38, Illinois Revised Statutes, 1987 (as amended) must be submitted with the sealed Bid.

Each Bid must be accompanied by a Bid bond signed by a Surety company authorized to do business in Illinois, or by a cashier's check or certified check in the amount of ten (10) percent of the base Bid. Any Bid not accompanied by a required Bid deposit will be rejected.

The City of Geneva, IL reserves the right to reject any or all Bids and waive technicalities.

The City of Geneva, Illinois
Stephanie Dawkins
City Administrator
June 29, 2017

Published in the "Kane County Chronicle": July 20, 2017

FY 2017-18 Keslinger Road and Delnor Substation Maintenance**INSTRUCTIONS TO BIDDERS**

1. Description of Project: The project will consist of:

A maintenance cycle on the Power Transformer, Load Tap Changer and Standby Substation Service Battery at each substation. In addition all relay settings and schemes will be tested and verified along with proper operation and timing of the associated circuit breakers. Work on Delnor substation will be completed in the Fall of 2017, while work at Keslinger substation will be completed in the Spring of 2018, as to minimize the reliability exposure of the City of Geneva distribution system.

There will be a pre-Bid meeting on Wednesday, August 2 2016 at 10:00 a.m. at Geneva Public Works, 1800 South Street, Geneva, IL 60134. All Bidders are required to attend or to request copies of meeting minutes.

The project is located in the City of Geneva, in the State of Illinois all as more fully described in the Plans, Specifications, Drawings and Contractor's Proposal therefore hereinafter referred to.

2. Work on or around Energized Lines.

Any work done in vaults, all switching of high voltage cables, all splicing and terminating shall be performed by qualified personnel with proven experience in the type of work to be performed. The Bidder shall provide documentation that all employees working on high voltage cables are journeyman lineman and can demonstrate experience with overhead and underground 15 kV cable, terminations, etc. Lineman employed by the Contractor on this project shall be expected to be familiar with the operation and use of the tools of the trade, including but not limited to, Shotguns, Hot Stick Phasing Sets, and Grounding of Underground Cables. Contractor shall make sure each journeyman lineman has all necessary tools and equipment for use onsite. All such work shall be performed to meet at least the safety rules and regulations prescribed by the City of Geneva ("hereafter referred to as the "Owner") for its own employees including the use of rubber gloves, sleeves, hot sticks and associated protective equipment, a copy of which rules and regulations may be examined at the office of the Owner. Adherence to the latest revision any and all applicable OSHA and IDOL standards is required.

3. Materials.

At or prior to the commencement of construction, the Owner shall make available to the Contractor all materials which the Owner has on hand, and from time to time as such additional deliveries of materials, if any, are received by the Owner, the Owner shall make such materials available to the Contractor: Provided, however, that the Contractor or his authorized representative will give to the Owner a receipt in such form as the Owner shall approve for all materials furnished by the Owner to the Contractor. Upon completion of the Project the Contractor will return to the Owner all materials furnished by the Owner in excess of those required for the construction as determined from the Final Inventory approved by the Owner. The Contractor shall reimburse the Owner at the Owner's invoice cost, for loss and/or damage of materials furnished by the Owner to the Contractor while such materials are under the Contractor's care.

4. Obtaining Documents.

The Plans and Specifications for Testing together with all necessary forms and other documents for Bidders may be obtained via the web. The plans, Specifications, and drawings may be examined at the office of the Owner, 1800 South Street, Geneva, IL 60134.

5. Manner of Submitting Proposals.

Proposals and all supporting instruments must be submitted in duplicate on the forms furnished by the Owner and must be delivered in a sealed envelope addressed to the Owner. Only Proposals that are made on the regular Proposal forms will be considered. The Proposal forms must not be separated from the complete set of documents. The Proposal shall be Executed properly, and Bids shall be made for all items indicated in the Proposal form, except that when alternate Bids are asked, a Bid on more than one alternative for each item is not required, unless the special provisions provide otherwise. The Bidder shall indicate, in U.S. Dollars, a unit price for each of the separate items called for in the Proposal; he shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the Proposal shall be the summation of said products. All unit prices shall be conditioned on furnishing a bond Executed by a corporate Surety company satisfactory to the Owner. The name and address of the Bidder, its license number (if a license is required by the State), and the date and hour of the opening of Bids must appear on the envelope in which the Proposal is submitted. Proposals must be filled in ink, computer generated or typewritten. No alterations or interlineations will be permitted, unless made before submission. Any such modifications shall be initialed and dated.

If the Proposal is made by an individual, his name and post office address shall be shown. If made by a firm or partnership, the name and post office addresses of the president, secretary, and treasurer, and the seal of the corporation shall be affixed and attested by the secretary.

6. Familiarity with Conditions.

Prior to the submission of the Proposal the Bidder shall make and shall be deemed to have made a careful examination of the site of the Project and of the Plans and Specifications for Testing, and forms of Contractor's Proposal and Contractor's Bond on file with the City Clerk of the Owner, and shall become informed as to the location and nature of the proposed construction, the transportation facilities, the kind and character of soil and terrain to be encountered, the kind of facilities required before and during the construction of the Project, general local conditions and all other matters that may affect the cost and the time of completion of the Project. The City does not guarantee the existence, non-existence, or locations of any surface or sub-surface structures, nor the character of any sub-surface material which may be shown on the plans. The inclusion of such structures or materials is based on the best data available but should not be regarded as conclusive. The Owner assumes no responsibility whatsoever in respect to the sufficiency or accuracy of the information, and there is no guaranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the work, or that unanticipated developments may not occur.

If any Bidder is in doubt as to the true meaning of any part of the Specifications, or other Contract documents, he may submit to the Superintendent of the Electric Utility a written request for an interpretation thereof; said Bidder will be responsible for its prompt delivery. The Superintendent of the Electric Division will give an interpretation of the matter in question by issuing an "Addenda" and sending same to each person receiving a set of Contract documents.

Bidders will be required to comply with all applicable statutes, regulations, Federal and State laws, local laws and ordinances, etc., including those pertaining to the licensing of Contractors, and the so-called "Kickback Statute" (48 Stat.948) and regulations issued pursuant thereto. Bidder will also be required to comply with rules and regulations of the City of Geneva, IL, in which city these improvements are located.

7. Bidder's Qualifications.

A Bidder may be required to file with the Owner the Bidder's Qualifications on forms supplied by the Owner, at least ten (10) days in advance of the scheduled Bid opening if the Owner does not

have any knowledge of the Bidder completing a similar construction project. A Bid will not be considered from a Bidder required to submit Bidder's Qualifications who has not been notified by the Owner prior to the Bid opening that such Bidder's Qualifications are satisfactory to the Owner. Questions, if any, concerning the sufficiency of such prior work performed by a prospective Bidder or the necessity for filing Bidder's Qualifications forms shall be raised by the Bidder at least five (5) days prior to the time herein specified for filing the Bidder's Qualifications; questions related to completed Bidder's Qualifications forms shall be resolved prior to the scheduled Bid opening.

Any one or more of the following causes may be considered as sufficient for the disqualification of a Bidder and the rejection of his Proposal:

- (a) More than one Proposal for the same work from an individual, firm, partnership, or corporation under the same or different names.
- (b) Evidence of collusion among Bidders.
- (c) Unbalanced Proposals in which the prices for some items are substantially out of proportion to the prices for other items.
- (d) Failure to submit a unit price for each item of work listed in the Proposal.
- (e) Lack of competency as revealed by financial statement or experience questionnaire, if such are required by the Special Provisions.
- (f) Unsatisfactory performance record as shown by past work judged from the standpoint of workmanship and progress.
- (g) Owner reserves the right to make changes to Accepted Bidders List at any point in time.

The Bidder, if a corporation, shall show the name of the State in which the corporation is chartered. Each Bidder shall furnish the Awarding Authority, upon request, with satisfactory evidence of his competency to perform the work contemplated. When requested, he shall submit to the Owner a financial statement prepared by a Certified Public Accountant showing his financial condition at the end of his past fiscal year. The accountant who prepares the statement shall certify that he holds a valid, current certificate as a Certified Public Accountant, issued in accordance with the laws of the state in which he is licensed. The Bidder, if requested, shall also answer and submit questionnaires relating to his experience and available equipment for performing construction work similar to that for which he is offering a Proposal.

Before an award is made, the Bidder may, at the option of the awarding authority, be required to furnish a statement showing the value of all uncompleted work the Bidder has "in process"; awarded (by Owner or others) but completed at the time of such request.

8. Alternate Designs.

The Owner reserves the right to confine its consideration of the several Bids to one type of design regardless of alternate types of design which may be specified in the Plans and Specifications for Construction and offered in the Proposals.

9. The Time for Completion of Construction of the Project shall be as specified by the Owner in the Proposal.

10. Bid Bond.

Each Proposal must be accompanied by a Bid Bond in the form attached or a certified check issued by a bank that is a member of the Federal Deposit Insurance Corporation, payable to the order of the Owner, in an amount equal to ten percent (10%) of the maximum Bid price. Each Bidder agrees, provided its Proposal is one of the three low Proposals, that, by filing its Proposal together with such Bid Bond or check in consideration of the Owner's receiving and considering such Proposal, said Proposal shall be firm and binding upon each such Bidder and such Bid Bond or check shall be held by the Owner until a Proposal is accepted and a satisfactory Contractor's bond is furnished by the successful Bidder, or for a period not to exceed sixty (60) days from the date hereinbefore set for the opening of Proposals, whichever period shall be the shorter. If such Proposal is not one of the three low Proposals, the Bid Bond or check will be returned in each instance within a period of ten (10) days to the Bidder furnishing same.

11. Contractor's Bond.

The successful Bidder will be required to compute three additional counterparts of the Proposal and to furnish a Contractor's Bond (Performance and Payment) in triplicate in the form attached hereto with sureties listed by the United States Treasury Department as Acceptable Sureties, in a penal sum not less than the Contract price.

12. Failure to Furnish Contractor's Bond.

Should the successful Bidder fail or refuse to compute such counterparts or to furnish a Contractor's Bond within ten (10) days after written notification of the acceptance of the Proposal by the Owner, the Bidder will be considered to have abandoned the Proposal. In such event, the Owner shall be entitled (a) to enforce the Bid Bond in accordance with its terms, or (b) if a certified check has been delivered with the Proposal, to retain from the proceeds of the certified check the difference (not exceeding the amount of the certified check) between the amount of the Proposal and such larger amount for which the Owner may in good faith contract with another party to construct the Project. The term "successful Bidder" shall be deemed to include any Bidder whose Proposal is accepted after another Bidder has previously refused or has been unable to PETute the counterparts or to furnish a satisfactory Contractor's Bond.

13. Contract is Entire Agreement.

The Contract to be effected by the acceptance of the Proposal shall be deemed to include the entire agreement between the parties thereto, and the Bidder shall not claim any modification thereof resulting from any representation or promise made at any time by any officer, agent or employee of the Owner or by any other person.

14. Minor Irregularities.

The Owner reserves the right to waive minor irregularities or minor errors in any Proposal, if it appears to the Owner that such irregularities or errors were made through inadvertence. Any such irregularities or errors so waived must be corrected on the Proposal in which they occur prior to the acceptance thereof by the Owner.

15. Rejection of Bids.

The Owner reserves the right to reject any or all Proposals, and to accept the Proposal which in its opinion is in the best interest of the Owner. The attention of Bidders is specially called to the desirability of a proper balance between prices for labor and materials and between the total prices for the respective Construction Units. Lack of such balance may be considered as a reason for rejecting a Proposal.

16. Definition of Terms.

The terms used throughout this Contract shall be as defined in Article VI, Section 1, of the Contractor's Proposal.

17. The Owner Represents:

a. If by provisions of the Contractor's Proposal the Owner shall have undertaken to furnish any materials for the construction of the Project, such materials are on hand at locations specified or if such materials are not on hand they will be made available by the Owner to the successful Bidder at the locations specified before the time such materials are required for construction.

b. All funds necessary for prompt payment for the construction of the Project will be available.

If the Owner shall fail to comply with any of the undertakings contained in the foregoing representations or if any of such representations shall be incorrect, the Contractor will be entitled to an extension of time of completion for a period equal to the delay, if any, caused by the failure of the Owner to comply with such undertakings or by any such incorrect representation, provided the Contractor shall have promptly notified the Owner in writing of its desire to extend the time of completion in advance with the foregoing; provided, however, that such extension, if any, of the time of completion shall be the sole remedy of the Contractor for the Owner's failure, because of conditions beyond the control and without the fault of the Owner, to furnish materials in accordance with subparagraph a. hereof.

18. Freedom of Information:

Contractor acknowledges that the Freedom of Information Act, 5 ILCS 140/1 et seq. (the "Act") places an obligation on the City to produce certain records that may be in the possession of the Contractor. Contractor shall comply with the record retention and documentation requirements of the Local Records Act 50 ILCS 205/1 et seq. and the Act and shall maintain all records relating to this Agreement in compliance with the Local Records Retention Act and the Act (complying in all respects as if the Contractor was, in fact, the City). Upon notice from the City, Contractor shall review its records promptly and produce to the City within two business days of said notice from the City the required documents which are responsive to a request under the Act. If additional time is necessary to comply with the request, the Contractor may request the City to extend the time do so, and the City will, if time and a basis for extension under the Act permits, consider such extensions. In the event Contractor fails to produce the requested records or fails to produce the requested records within the time period required above and the City is assessed a fine, fee or penalty for failure to timely comply with the Act due to Contractor's actions, Contractor shall reimburse the City for all fines, fee or penalties, including reasonable attorney's fees, paid by the City.

19. Tax Exempt Status

The City of Geneva is exempt from paying Illinois Use Tax, Illinois Retailers Occupation Tax, Federal Excise Tax, and Municipal Retailer's Occupation Tax. The City of Geneva will supply a Sales Tax Exemption form for the use of the successful bidder for purchase of goods related to this contract upon request. Bidders should prepare their bid responses assuming eligible goods, as identified on this form, will be free of sales tax liability. A sample form has been included in this proposal.

The City of Geneva reserves the right in its sole discretion to determine whether a supplier may utilize the City's tax exemption for purchases of goods.

Abuse of the City's tax exempt status to avoid sales tax liability on other contractor purchases shall not be tolerated and may disqualify the contractor from being awarded future City contracts or business. Additionally, the City reserves the right to pursue other remedies against the contractor to the full extent of the law and State regulations.

AFFIDAVIT OF EXPERIENCE

STATE OF Ohio
COUNTY OF Butler

_____ being duly sworn, that he is
_____, of CE Power Engineered Services LLC
(Sole owner, member of firm, (Individual, firm or
corporate official) corporate name)

which has done work for the following parties of the general kind and approximate magnitude under this Contract:

<u>Name of Owner</u>	<u>Job Description</u>	<u>\$ Amount</u>
<u>Pratt Paper</u>	<u>15 MVA Transformer Turnkey & Maintenance</u>	<u>\$3,696,136</u>
<u>Louisville Gas & Electric</u>	<u>Substation Maintenance & Construction</u>	<u>\$3,000,000</u>
<u>Resolute Forest Products</u>	<u>Substation Maintenance</u>	<u>\$95,850</u>

and that CE Power Engineered Services LLC owns or has available
(he, said firm, said corporation)
for immediate use on the proposed work the following plant and equipment:

<u>Machine</u>	<u>Year Built</u>	<u>Machine</u>	<u>Year Built</u>
<u>Not Applicable (Labor)</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

and that Duncan Wright will be assigned to work
(Name of Superintendent)
under this Contract, and that his experience in this kind of work is as follows:

<u>Name of Job</u>	<u>Engineer or Owner</u>
<u>NIPSCO</u>	<u>Substation Maintenance</u>
<u>AcelorMittal Steel</u>	<u>Substation Maintenance</u>
<u>Therma Tru Doors</u>	<u>Substation Maintenance</u>

Signature: [Handwritten Signature]

Subscribed and sworn to before me this 10th day of Aug 10, 2017.

[Handwritten Signature]
Notary Public



Stephanie Combs
Notary Public, State of Ohio
My Commission Expires 08-15-2018

CERTIFICATION FOR BID

The undersigned, as a duly-authorized representative of the Bidder, hereby certifies to the City of Geneva, Kane County, Illinois, that the Bidder is not barred from Bidding upon the Bid Specifications for the Project Known as Keslinger Road and Delnor Substation Maintenance, as a result of either Section 33E-3 or 33E-4 of Chapter 38, Illinois Revised Statutes, 1987 (As Amended).


Name Troy Mielak

CE Power Engineered Services LLC
Company

08/11/2017
Date

All laborers, mechanics, and other workers employed in any public work under this Contract shall be paid in accordance with the prevailing wage rates approved by the City of Geneva as attached to the Project Specifications.

The Contractor certifies that to the best of its knowledge, no officer or employee has been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has any officer or employee made an admission of guilt of such conduct which is a matter of record.

CERTIFICATION OF DRUG FREE WORKPLACE

The undersigned, as a duly-authorized representative of the Contractor, hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor ensures that they operate a drug free environment and that drugs are not allowed in the workplace or satellite locations as well as City of Geneva sites in accordance with the Drug Free Workplace Act of January 1992.


Name Troy Mielak

CE Power Engineered Services LLC
Company

08/11/2017
Date

CERTIFICATION FOR CONTRACT

The undersigned, as a duly-authorized representatives of the Contractor, hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor is not barred from Bidding on the Contract, or entering into this Contract known as Keslinger Road and Delmor Substation Maintenance, as result of a violation of either Section 33E-3 or 33E-4 or Chapter 38, Illinois Revised Statutes, 1987 (As Amended).


 Name Troy Mielak

CE Power Engineered Services LLC
 Company

08/11/2017
 Date

The undersigned, as a duly-authorized representative of the Contractor, hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor is fully aware of and able to comply with all Local, State, and Federal Safety Laws and Regulations applicable for the construction of the Project know as Keslinger Road and Delmor Substation Maintenance.


 Name Troy Mielak

CE Power Engineered Services LLC
 Company

08/11/2017
 Date

CERTIFICATE OF COMPLIANCE WITH SECTION 11.42.1-1 OF THE ILLINOIS MUNICIPAL CODE

The undersigned, upon being first duly sworn, hereby certifies to the City of Geneva, Kane County, Illinois, that CE Power Engineered Services LLC (Contractor) is not currently delinquent in the payment of any tax administered by or owed to the Illinois Department of Revenue, or otherwise in default upon any such tax as defined under Chapter 24, Section 11.42.1, Illinois Revised Statutes.

CE Power Engineered Services LLC
Name of Contractor

BY: *Burt Sator*
TITLE

Subscribed and sworn to before me this 10th day
of August 2012.

Kerry Hendel
Notary Public



Kerry Hendel
Notary Public, State of Ohio
My Commission Expires **12-16-17**

BID BOND

1. KNOW ALL MEN that we, CE Power Engineered Services, LLC as Principal, and as Surety, are held and firmly bound unto City of Geneva, Illinois

(hereafter called the "Owner") in the penal sum of ten percent (10%) of the amount of the Bid referred to in paragraph 2 below, but not to exceed _____ dollars (\$ _____), as hereinafter set forth and for the payment of which sum well and truly to be made we bind ourselves, our executors, administrators, successors and assigns, jointly and severally, by these presents;

* Great American Insurance Company

2. WHEREAS, the Principal has submitted a Bid to the Owner for the construction of the project known as Keslinger Road and Delnor Substation Maintenance

3. NOW, THEREFORE, the condition of this obligation is such that if the Owner shall accept the Bid of the Principal, and

(a) the Principal shall execute such Contract documents, if any, as may be required by the terms of the Bid and give such Contractor's Bond or Bonds for the performance of the Contract and for the prompt payment of labor and material furnished for the Project as may be specified in the Bid, or

(b) in the event of the failure of the Principal to execute such Contract documents, if any, and give such Contractor's Bond or Bonds, if the Principal shall pay to the Owner the difference, not to exceed the penal sum hereof, between the amount specified in the Bid and such larger amount for which the Owner may in good faith Contract with another party to construct the Project, then this obligation shall be void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this 14th day of August, 2017

CE Power Engineered Services, LLC (seal)

principal

By: *Burt S. ...*
CEO

title

Attest:

X

secretary

Great American Insurance Company (seal)

Surety

By: *Anne Tierney*

Anne Tierney, Attorney-in-Fact

title

Attest:

[Signature]

secretary

GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than **SIX**

No. 0 20694

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof, provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name	Address	Limit of Power
PAULETTE M. AERNI	ALL OF	ALL
THOMAS D. CASSADY	CINCINNATI, OHIO	\$100,000,000
THOMAS W. CHATHAM		
ANNE TIERNEY		
RICHARD A. DAVIS		
PAUL J. SCHUELER, JR.		

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this **4TH** day of **AUGUST**, 2015
Attest
GREAT AMERICAN INSURANCE COMPANY



Steph L. C. B.
Assistant Secretary

David C. Kitchin
Divisional Senior Vice President

STATE OF OHIO, COUNTY OF HAMILTON - ss:

DAVID C. KITCHIN (877-377-2405)

On this **4TH** day of **AUGUST**, 2015, before me personally appeared **DAVID C. KITCHIN**, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



Susan A. Kohorst
Notary Public, State of Ohio
My Commission Expires 05-18-2020

Susan A. Kohorst

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, **STEPHEN C. BERAHA**, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this **14th** day of **August**, 2017.



Steph L. C. B.
Assistant Secretary

Office of Risk Assessment
50 West Town Street
Third Floor - Suite 300
Columbus, Ohio 43215
(614)644-2658
Fax(614)644-3256
www.insurance.ohio.gov

Ohio Department of Insurance

John R. Kasich - Governor

Jillian Froment - Director



Certificate of Compliance

Issued 06/27/2017

Effective 07/01/2017

Expires 06/30/2018

I, Jillian Froment, hereby certify that I am the Director of Insurance in the State of Ohio and have supervision of insurance business in said State and as such I hereby certify that

GREAT AMERICAN INSURANCE COMPANY

of Ohio is duly organized under the laws of this State and is authorized to transact the business of insurance under the following section(s) of the Ohio Revised Code:

Section 3929.01 (A)

Accident & Health	Guaranteed Renewable A & H
Aircraft	Inland Marine
Allied Lines	Medical Malpractice
Boiler & Machinery	Multiple Peril - Commercial
Burglary & Theft	Multiple Peril - Farmowners
Collectively Renewable A & H	Multiple Peril - Homeowners
Commercial Auto - Liability	Noncancellable A & H
Commercial Auto - No Fault	Nonrenew-Stated Reasons (A&H)
Commercial Auto - Physical Damage	Ocean Marine
Credit	Other
Credit Accident & Health	Other Accident only
Earthquake	Other Liability
Fidelity	Private Passenger Auto - Liability
Financial Guaranty	Private Passenger Auto - No Fault
Fire	Private Passenger Auto - Physical Damage
Glass	Surety
Group Accident & Health	Workers Compensation

GREAT AMERICAN INSURANCE COMPANY certified in its annual statement to this Department as of December 31, 2016 that it has admitted assets in the amount of \$6,851,230,772, liabilities in the amount of \$4,852,363,624, and surplus of at least \$1,998,867,148.

IN WITNESS WHEREOF, I have hereunto subscribed my name and caused my seal to be affixed at Columbus, Ohio, this day and date.

Handwritten signature of Jillian Froment in cursive.

Jillian Froment, Director





301 East Fourth Street
Cincinnati, OH 45202-4201

GreatAmericanInsuranceGroup.com

GREAT AMERICAN INSURANCE COMPANY

STATEMENT OF ASSETS, LIABILITIES AND CAPITAL & SURPLUS AS OF DECEMBER 31, 2016

ADMITTED ASSETS		LIABILITIES, CAPITAL AND SURPLUS	
Bonds.....	\$ 2,751,319,379	Unpaid losses and loss expenses.....	\$ 2,828,879,902
Stocks.....	1,480,974,043	Reserve for underwriting expenses.....	268,411,434
Mortgage loans on real estate.....	233,765,374	Federal and foreign income taxes.....	14,018,337
Real estate (net of encumbrances).....	58,240,298	Reserve for unearned premiums.....	1,104,230,382
Cash and short-term investments.....	484,223,036	Ceded reinsurance premiums payable.....	83,663,531
Other invested assets.....	315,981,849	Funds held under reinsurance treaties.....	163,201,443
Receivable for securities.....	1,910,942	Retrospective reinsurance ceded.....	(102,381,676)
Investment income due and accrued.....	24,045,947	Other liabilities.....	192,340,271
Agents' and premium balances.....	530,481,763	Total liabilities.....	4,852,363,624
Reinsurance recoverable on loss and loss expense payments..	55,681,895		
Net deferred tax asset.....	233,731,204	Capital stock.....	\$ 15,440,600
Receivable from affiliates.....	7,663,444	Paid in surplus.....	638,362,982
Receivable from Federal Crop Insurance Corporation.....	430,736,055	Special surplus funds.....	102,381,676
Company owned life insurance.....	173,652,265	Unassigned funds.....	<u>1,242,681,890</u>
Funds held as collateral.....	21,883,445	Policyholders' surplus.....	<u>1,998,867,148</u>
Funded deductibles.....	22,187,733		
Other admitted assets.....	<u>24,752,100</u>		
Total.....	\$ 6,851,230,772	Total.....	\$ 6,851,230,772

Securities have been valued on the basis prescribed by the National Association of Insurance Commissioners.

STATE OF OHIO

SS.:

COUNTY OF HAMILTON

Robert J. Schwartz, Vice President and Controller, and Stephen Bernha, Assistant Vice President and Assistant Secretary, being duly sworn, each for himself deposes and says that they are the above described officers of the Great American Insurance Company of Cincinnati, Ohio; that said Company is a corporation duly organized, existing and engaged in business as a Surety by virtue of the laws of the State of Ohio and has duly complied with all the requirements of the laws of said state applicable to said Company and is duly qualified to act as Surety under such laws; that said Company has also complied with and is duly qualified to act as Surety under Public Law 97-258 enacted September 13, 1982 (96 Stat. 1047 as amended: 31 U.S.C. 9304-9308); that to the best of their knowledge and belief the above statement is a full, true and correct Statement of the Assets, Liabilities and Capital & Surplus of the said Company as of December 31, 2016.

Subscribed and sworn to before me

this 17th day of February, 2017,

Public/Notary


JENNIFER A. MEYER
Notary Public, State of Ohio
My Commission Expires 11-08-2021




Controller


Assistant Secretary

BID BOND

1. KNOW ALL MEN that we, CE Power Engineered Services, LLC as Principal, and * as Surety, are held and firmly bound unto City of Geneva, Illinois

(hereafter called the "Owner") in the penal sum of ten percent (10%) of the amount of the Bid referred to in paragraph 2 below, but not to exceed _____ dollars (\$ _____), as hereinafter set forth and for the payment of which sum well and truly to be made we bind ourselves, our executors, administrators, successors and assigns, jointly and severally, by these presents;

* Great American Insurance Company

2. WHEREAS, the Principal has submitted a Bid to the Owner for the construction of the project known as Keslinger Road and Delnor Substation Maintenance

3. NOW, THEREFORE, the condition of this obligation is such that if the Owner shall accept the Bid of the Principal, and

(a) the Principal shall execute such Contract documents, if any, as may be required by the terms of the Bid and give such Contractor's Bond or Bonds for the performance of the Contract and for the prompt payment of labor and material furnished for the Project as may be specified in the Bid, or

(b) in the event of the failure of the Principal to execute such Contract documents, if any, and give such Contractor's Bond or Bonds, if the Principal shall pay to the Owner the difference, not to exceed the penal sum hereof, between the amount specified in the Bid and such larger amount for which the Owner may in good faith Contract with another party to construct the Project, then this obligation shall be void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this 14th day of August, 20 17

CE Power Engineered Services, LLC (seal)
principal

Attest:
X
secretary

By: X
X
title

Great American Insurance Company (seal)
Surety

Attest:
[Signature]
secretary

By: [Signature]
Anne Tierney, Attorney-in-Fact
title

GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than **SIX**

No. 0 20694

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof, provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name	Address	Limit of Power
PAULETTE M. AERNI	ALL OF	ALL
THOMAS D. CASSADY	CINCINNATI, OHIO	\$100,000,000
THOMAS W. CHATHAM		
ANNE TIERNEY		
RICHARD A. DAVIS		
PAUL J. SCHUELER, JR.		

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this **4TH** day of **AUGUST**, 2015.

Attest

GREAT AMERICAN INSURANCE COMPANY



My L C. B.
Assistant Secretary

David C. Kitchin
Divisional Senior Vice President

STATE OF OHIO, COUNTY OF HAMILTON - ss:

DAVID C. KITCHIN (877-377-2405)

On this **4TH** day of **AUGUST**, 2015, before me personally appeared **DAVID C. KITCHIN**, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



Susan A. Kohorst
Notary Public, State of Ohio
My Commission Expires 05-18-2020

Susan A. Kohorst

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, **STEPHEN C. BERAHA**, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this

14th day of **August**

2017



My L C. B.
Assistant Secretary

Office of Risk Assessment
50 West Town Street
Third Floor - Suite 300
Columbus, Ohio 43215
(614)644-2658
Fax(614)644-3256
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Ohio Department of Insurance

John R. Kasich - Governor

Jillian Froment - Director

Certificate of Compliance



Issued 06/27/2017

Effective 07/01/2017

Expires 06/30/2018

I, Jillian Froment, hereby certify that I am the Director of Insurance in the State of Ohio and have supervision of insurance business in said State and as such I hereby certify that

GREAT AMERICAN INSURANCE COMPANY

of Ohio is duly organized under the laws of this State and is authorized to transact the business of insurance under the following section(s) of the Ohio Revised Code:

Section 3929.01 (A)

Accident & Health	Guaranteed Renewable A & H
Aircraft	Inland Marine
Allied Lines	Medical Malpractice
Boiler & Machinery	Multiple Peril - Commercial
Burglary & Theft	Multiple Peril - Farmowners
Collectively Renewable A & H	Multiple Peril - Homeowners
Commercial Auto - Liability	Noncancellable A & H
Commercial Auto - No Fault	Nonrenew- Stated Reasons (A&H)
Commercial Auto - Physical Damage	Ocean Marine
Credit	Other
Credit Accident & Health	Other Accident only
Earthquake	Other Liability
Fidelity	Private Passenger Auto - Liability
Financial Guaranty	Private Passenger Auto - No Fault
Fire	Private Passenger Auto - Physical Damage
Glass	Surety
Group Accident & Health	Workers Compensation

GREAT AMERICAN INSURANCE COMPANY certified in its annual statement to this Department as of December 31, 2016 that it has admitted assets in the amount of \$6,851,230,772, liabilities in the amount of \$4,852,363,624, and surplus of at least \$1,998,867,148.

IN WITNESS WHEREOF, I have hereunto subscribed my name and caused my seal to be affixed at Columbus, Ohio, this day and date.

Handwritten signature of Jillian Froment in cursive.

Jillian Froment, Director





301 East Fourth Street
Cincinnati, OH 45202-4201

GreatAmericanInsuranceGroup.com

GREAT AMERICAN INSURANCE COMPANY

**STATEMENT OF ASSETS, LIABILITIES AND CAPITAL & SURPLUS
AS OF DECEMBER 31, 2016**

ADMITTED ASSETS		LIABILITIES, CAPITAL AND SURPLUS	
Bonds.....	\$ 2,751,319,379	Unpaid losses and loss expenses.....	\$ 2,828,879,902
Stocks.....	1,480,974,043	Reserve for underwriting expenses.....	268,411,434
Mortgage loans on real estate.....	233,765,374	Federal and foreign income taxes.....	14,018,337
Real estate (net of encumbrances).....	58,240,298	Reserve for unearned premiums.....	1,104,230,382
Cash and short-term investments.....	484,223,036	Ceded reinsurance premiums payable.....	83,663,531
Other invested assets.....	315,981,819	Funds held under reinsurance treaties.....	163,201,143
Receivable for securities.....	1,910,942	Retroactive reinsurance ceded.....	(107,381,676)
Investment income due and accrued.....	24,045,947	Other liabilities.....	192,340,271
Agents' and premium balances.....	530,481,763	Total liabilities.....	4,852,363,624
Reinsurance recoverable on loss and loss expense payments..	55,681,895		
Net deferred tax asset.....	233,731,204	Capital stock.....	\$ 15,440,600
Receivable from affiliates.....	7,663,444	Paid in surplus.....	638,362,982
Receivable from Federal Crop Insurance Corporation.....	430,736,055	Special surplus funds.....	102,381,676
Company owned life insurance.....	173,652,265	Unassigned funds.....	<u>1,242,681,890</u>
Funds held as collateral.....	21,883,445	Policyholders' surplus.....	<u>1,998,867,148</u>
Funded deductibles.....	22,187,733		
Other admitted assets.....	<u>24,752,100</u>		
Total.....	\$ 6,851,230,772	Total.....	\$ 6,851,230,772

Securities have been valued on the basis prescribed by the National Association of Insurance Commissioners.

STATE OF OHIO
COUNTY OF HAMILTON

SS.:

Robert J. Schwartz, Vice President and Controller, and Stephen Bernba, Assistant Vice President and Assistant Secretary, being duly sworn, each for himself deposes and says that they are the above described officers of the Great American Insurance Company of Cincinnati, Ohio; that said Company is a corporation duly organized, existing and engaged in business as a Surety by virtue of the laws of the State of Ohio and has duly complied with all the requirements of the laws of said state applicable to said Company and is duly qualified to act as Surety under such laws; that said Company has also complied with and is duly qualified to act as Surety under Public Law 97-258 enacted September 13, 1982 (96 Stat. 1047 as amended: 31 U.S.C. 9304-9308); that to the best of their knowledge and belief the above statement is a full, true and correct Statement of the Assets, Liabilities and Capital & Surplus of the said Company as of December 31, 2016.

Subscribed and sworn to before me

this 17th day of February, 2017.

Public/Notary

JENNIFER A. MEYER
Notary Public, State of Ohio
My Commission Expires 11-08-2021



[Signature]
Controller

[Signature]
Vice President

CONTRACTOR'S PROPOSAL
(Proposal shall be submitted in ink or typewritten)

TO: _____

 (Hereinafter called the "Owner")

ARTICLE I--GENERAL

Section 1 . Offer to Construct.

The undersigned (hereinafter called the "Contractor") hereby proposes to receive and install such materials and equipment as may hereinafter be specified to be furnished by the Owner, and to furnish all other materials and equipment, all machinery, tools, labor, transportation and other means required to construct the project known as

Kesling Road and Delnor Substation Preventive Maintenance

in strict accordance with the Plans and Specifications for the prices hereinafter stated.

Section 2. Owner-Furnished Materials.

The Contractor understands and agrees that, if this Proposal is accepted, the Owner will furnish to the Contractor the material set forth in the attached "List of Owner's Materials" and the Contractor will give a receipt therefore in writing to the Owner. The Contractor, further, will on behalf of the Owner accept delivery of such of the materials indicated in the list as not delivered as may be subsequently delivered and will promptly forward to the Owner for payment the supplier's invoice, together with the Contractor's receipt in writing for such materials. The materials referred to are on hand at, or will be delivered to, the locations specified in the List and the Contractor will use such materials in constructing the Project. The contractor is financially responsible for the care and safekeeping of the material until such time that the project is accepted by the City. Damage or loss of such City supplied material will be deducted from the final amount owed to the contractor.

The value of the completed Construction Units certified by the Contractor each month pursuant to Article III, Section 1.a of this Proposal shall be reduced by an amount equal to the value of the materials installed by the Contractor during the preceding month which have been furnished by the Owner or the delivery of which has been furnished by the Owner or the delivery of which has been accepted by the Contractor on behalf of the Owner. Only ninety percent (90%) of the remainder shall be paid prior to the Completion of the Project. The value of such materials shall be computed on the basis of the unit prices stated in the Lists. The value of all Owner-furnished materials not installed in the Project nor returned to the Owner (in good condition) shall be deducted from the final payment to the Contractor.

The Owner shall not be obligated to furnish materials in excess of the quantities, size, kind and type set forth in the attached List. If the Owner furnishes, and the Contractor accepts, materials in excess thereof, the values of such excess materials shall be their actual cost as stated by the Owner.

Information on the shipping schedules of materials listed as "*not delivered*" shall be furnished to the Contractor as necessary during progress of the work. Upon delivery of such materials and/or equipment the Contractor shall promptly receive, unload, transport and handle all materials and equipment listed as "*not delivered*" at its expense and shall be responsible for demurrage, if any.

Section 3. Purchase of Materials Not Furnished by Owner.

The Contractor will purchase all materials and equipment (other than Owner-furnished materials) outright and not subject to any conditional sales agreements, bailment, lease or other agreement reserving unto the seller any right, title or interest therein. All such materials and equipment shall become the property of the Owner when erected in place and Owner has approved such installation as acceptable.

Section 4. Award of Contract.

Before an award of the Contract is made to a Contractor, said Contractor may be required, upon request by the City, to furnish any of the following information:

- a. His performance record
- b. Address and description of his plant or permanent place of business
- c. An itemized list of his equipment
- d. His financial statement
- e. Such additional information as will satisfy them that the Contractor is adequately prepared to fulfill the Contract.

The Proposals received will be compared on the basis of the summation of the products of the items of work listed and the unit prices offered. In case of discrepancy between the gross sum shown in the Proposal and that obtained by adding the products of the quantities of work and the unit prices, the unit prices shall govern, and any errors found in said products shall be corrected. In awarding Contracts, the Owner will, in addition to considering the amounts stated in the Proposals, take into consideration the responsibility of the various Bidders as determined from a study of the data required under the previous article and from other investigations which it may elect to make.

Except in cases where the Owner exercises the right reserved to reject any or all Proposals, the contract will be awarded by the Owner, as soon as practicable after the opening of Proposals, to the Bidder who has submitted the lowest priced Proposal (as determined by Owner's calculations) that complies with all requirements necessary to render it formal and who has satisfied the requirements of the Specifications as to the responsibility of Bidders.

Any Bidder may withdraw his or her Bid by letter or telegraphic request or, with proper identification, by personally securing the Bid Proposal at any time prior to the time fixed for opening of Bids and provided that written confirmation of any telegraphic withdrawal over the signature of the Bidder is placed in the mail and postmarked prior to the time set for Bid opening. Telephonic request to withdraw a Bid will not be considered.

All Bid deposits (except that of the lowest responsible Bidder) will be returned after the lowest responsible Bidder is determined and approved by the City Council. The return of the Bid deposit to the successful

Bidder or awardee will be contingent upon that Bidder's or awardee's execution of a written Contract with the City.

The Contract shall be deemed as having been awarded when formal written notice of award has been duly served upon the Bidder to whom the City contemplates awarding the Contract by some officer or agent of the City duly authorized to give such notice and the Contractor shall start construction within twenty-eight (28) calendar days of the award of the Contract.

Unless otherwise specified, if a Contract is not awarded within thirty (30) days after the opening of Proposals, a Bidder may file a written request with the Owner for the withdrawal of his Bid. The Owner will have a maximum of ten (10) days after the receipt of such request to award the Contract or release the Bidder from further obligation.

Section 5. Proposal on a Lump Sum Basis.

The Bidder understands and agrees that the Bid is on a lump sum basis as set forth in the Bid Form.

Lump Sum Bid Price	\$ 68,832
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Breakdown of Lump Sum Bid Price

Power Transformer Test and Maintenance	\$ 4,640
LTC Tests and Maintenance	\$ 10,038
Relay and Breaker Tests	\$ 10,782
Standby Battery capacity test	\$ 3,480
Installation of new Standby Battery	\$ 23,390
Keslinger Oil Cooling fin repaint (option)	\$ 16,502

Section 6. Familiarity with Conditions.

The Bidder has made a careful examination of the site of the Project to be constructed and of the Plans, Specifications, and form of Contractor's Bond attached hereto, and has become informed as to the location and nature of the proposed construction, the transportation facilities, the kind and character of soil and terrain to be encountered, and the kind of facilities required before and during the construction of the Project, and has become acquainted with the labor conditions, state and local laws and regulations which would affect work on the proposed construction.

Section 7. License.

The Bidder warrants that a Contractor's License (is) (is not) required, and if required it possesses Contractor's License No _____ for the State of _____ in which the Project is located and said license expires on _____, 20__.

Section 8. Proposal Made in Good Faith.

The Bidder warrants that this Proposal is made in good faith and without collusion or connection with any person or persons bidding for the same work.

Section 9. Financial Resources.

The Bidder warrants that it possesses adequate financial resources and agrees that in the event this Proposal is accepted it will furnish a Contractor's Bond in the form attached hereto, in a penal sum not less than the maximum Contract price, with a Surety or sureties listed by the United States Treasury Department as Acceptable Sureties.

In the event that the Surety or sureties on the performance bond delivered to the Owner contemporaneously with the execution of the Contract or on any Bond or Bonds delivered in substitution thereof or in addition thereto shall at any time become unsatisfactory to the Owner, the Bidder agrees to deliver to the Owner another or an additional Bond.

Section 10. Taxes.

The unit prices(s) for Construction Units in this Proposal include provisions for the payment of all moneys which will be payable by the Contractor or the Owner in connection with the construction of the Project on account of taxes imposed by any taxing authority upon the sale, purchase or use of materials, supplies and equipment, or services or labor of installation thereof to be incorporated in the Project as part of such Construction Units. The Contractor agrees to pay all such taxes, except taxes upon the sale, purchase or use of owner-furnished materials and it is understood that, as to Owner-furnished materials, the values stated in the attached "List of Owner's Materials" include taxes upon the sale, purchase or use of Owner-furnished materials, if applicable. The Contractor will furnish to the appropriate taxing authorities all required information and reports pertaining to the Project, except as to the Owner-furnished materials.

Section 11. Changes in Quantities.

The Bidder understands and agrees that the quantities called for in this Proposal are approximate, and that the total number of units upon which payment shall be made shall be as set forth in the inventory. If the Owner changes the quantity of any unit or units specified in this Proposal by more than 15%, and the materials cost to the Contractor is increased thereby to an extent which would not be adequately compensated by application of the unit prices in this Proposal to the revised quantity of such unit or units, such change, to the extent of the quantities of such units in excess of such 15%, shall be regarded as a change in the construction within the meaning of Article II, Section 1(h) of this Proposal.

Section 12. Description of Contract.

The Notice and Instructions to Bidders, Plans and Specifications for Testing, all attached hereto and made a part hereof together with the Proposal and Acceptance constitute the Contract. The Plans are identified as follows:

Testing specifications

Specifications and Drawings

Maps

Intentionally left blank

ARTICLE II--CONSTRUCTION

Section 1 . Time and Manner of Construction.

- a. The Bidder agrees to commence construction of the Project on a date (hereinafter called the "Commencement Date") which shall be determined by the Owner after notice in writing of acceptance of the Proposal by the Owner, but in no event will the Commencement Date be before October 31, 2017. The Bidder further agrees to prosecute diligently and to complete work in strict accordance with the Plans, Specifications and Drawings (excluding Saturdays & Sundays and City Holidays) after Commencement Date, per substation. **Latest substantial completion date of December 2, 2017 for Delnor Substation and March 31, 2018 for Keslinger Substation.**
- b. The time for Completion of Work shall be extended for the period of any reasonable delay which is due exclusively to causes beyond the control and without the fault of the Contractor, Sub-Contractors and material suppliers, including acts of God, fires, floods, and acts or omissions of the Owner with respect to matters for which the Owner is solely responsible: Provided, however, that no such extension of the time for completion shall be granted the Contractor unless within ten (10) days after the happening of any event relied upon by the Contractor for such an extension of time the Contractor shall have made a request therefore in writing to the Owner, and provided further that no delay in such time of completion or in the progress of the work which results from any of the above causes except acts or omissions of the Owner, shall result in any liability on the part of the Owner.
- c. It is understood and agreed that the Contractor has considered in his Bid all of the permanent and temporary utility appurtenances in their present positions and that no additional compensation will be allowed for any delays, inconveniences, or damage sustained by him due to any interference from the said utility appurtenances or the operation of moving them either by the utilities company or by himself, or an account of any special construction methods required in prosecuting his work due to the existence of said appurtenances.
- d. If separate Contracts are let for work comprising an entire improvement, each Contractor shall conduct his work so as not to interfere with or hinder the progress or completion of the work being performed by other Contractors. In case of dispute, the Owner shall be the referee and his decision shall be final and binding on all.
- e. Each Contractor involved shall assume all liability, financial or otherwise, in connection with his Contract, and shall protect and save harmless the Owner and all agents of the Owner from any and all damages or claims that may arise because of inconvenience, delay, or loss experienced by him because of the presence and operations of other Contractors working within the limits of the same improvement. Each Contractor shall assume all responsibility for his work not completed or accepted because of the presence and operations of the other Contractors.

f. The Contractor shall as far as possible arrange his work, and place and dispose of materials being used, so as not to interfere with the operations of the other Contractors within the limits of the same improvement. Contractor shall join his work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others, all as approved by the Owner.

g. The sequence of work shall be as set forth below, or if no sequence is set forth below, the sequence of work shall be as determined by the Contractor, subject to the approval of the Owner. Promptly after the award of the Contract, the Contractor shall submit to the Owner a satisfactory progress schedule which shall show the proposed sequence of work, and how the Contractor proposes to complete the various items of work within the number of days set up in the Contract. The progress schedule shall be reviewed and revised periodically as working conditions warrant. The Contractor shall confer with the Owner in regard to the prosecution of the work in accordance with this schedule. This schedule shall be used as a basis for establishing major construction operations, and for checking the progress of the work.

h. The Owner may from time to time during the progress of the construction of the Project make such changes, additions to or subtractions from the Plans and Specifications for Testing, List of Materials and sequence of construction provided for in the previous paragraph which are part of the Contractor's Proposal as conditions may warrant: Provided, however, that if any change in the construction to be done shall require an extension of time, a reasonable extension will be granted at the Contractor's written request. The Contractor shall make a written request therefore to the Owner within ten (10) days after any such change in construction is made. Such written request shall also specify the cost to the Contractor if such change materially increases the cost of construction to the Contractor. The Owner shall pay the Contractor for the reasonable cost thereof in accordance with a Construction Contract Amendment signed by the Owner and the Contractor, but no claim for additional compensation for any such change or addition will be considered unless the Contractor shall have made a written request therefore to the Owner prior to the commencement of work in connection with such change or addition.

i. The Contractor will not perform any work hereunder on Saturdays or Sundays unless there is urgent need for such Saturday or Sunday work and the Owner consents thereto in writing. The time for completion specified in subsection "a" of this Section 1 shall not be affected in any way by inclusion of this subsection nor by the Owner's consent or lack of consent to Saturday or Sunday work hereunder.

Section 2. Protection and Restoration of Property.

The Contractor shall perform work in such a manner as to maximize preservation of beauty, conservation of natural resources and minimize marring and scarring of the landscape and silting of streams. The Contractor shall not deposit trash in streams or waterways, and shall not deposit herbicides or other chemicals or their containers in or near streams, waterways or pastures. From time to time or as may be ordered by the Owner and immediately after completion of the work, the Contractor shall at his own expense clean up and remove all refuse and unused materials of any kind resulting from the work that Contractor is issued by Owner. Upon failure to do so within five (5) calendar days after written request by the Owner, such clean up may be performed by the Owner and the cost thereof be charged to the Contractor and be

deducted from his final estimate. Upon completion of the work, the Contractor shall remove all his equipment and put the area of the work in a neat and clean condition and do all other cleaning required to complete the work in a professional, workmanlike manner, ready for use and satisfactory to the Owner. The Contractor shall follow, under the general direction of the Owner, the criteria relating to environmental protection as specified herein by the Owner.

If the Contractor desires to use water from hydrants, he shall make contact Geneva Public Works to receive an application, and shall conform to the municipal ordinances, rules, or regulations concerning their use. Water shall be furnished from the hydrant at Public Works, 1800 South Street, Geneva, IL at the Owner's expense unless otherwise specified in the Special Provisions. A hydrant meter shall be used. The quantity of water used shall be reported to the Water Department prior to leaving Geneva Public Works.

Fire hydrants shall be accessible at all times to the Fire Department. No material or other obstructions shall be placed closer to a fire hydrant than permitted by municipal ordinances, rules, or regulations, or within five (5) feet of a fire hydrant, in the absence of such ordinances, rules or regulations.

If corporate or private property interferes with the work, the Contractor shall notify, in writing, the owners of such property. The Contractor shall furnish the Owner with copies of such notifications and with copies of any agreement between him and the property owners concerning such protection or disposition.

The Contractor shall take all necessary precautions for the protection of corporate or private property, such as walls and foundations of buildings, vaults, underground facilities, overhead structures of public utilities, trees, shrubbery, crops, and fences contiguous to the work, of which the Contract does not provide for removal. The Contractor shall protect and carefully preserve all official survey monuments, property marks, section markers, and Geological Survey Monuments, or other similar monuments, until the Owner, or an authorized surveyor or agent has witnessed or otherwise references their location or relocation. The Contractor shall take reasonable precautions to avoid disturbing any archeological and other historic remains encountered during construction. The Contractor shall notify the Owner of the presence of any such survey or property monuments or archeological and other historic remains as soon as they are discovered.

The Contractor shall be responsible for any damage or destruction of property of any character resulting from the method of execution or non-execution of the Contractor's work, or caused by defective work or the use of unsatisfactory materials, and such responsibility shall not be released until the work shall have been completed and accepted and the requirements of the Specifications complied with.

The Contractor shall at all times minimize the impact on trees in the work area by ensuring equipment storage/heavy machinery is not stored or used under tree canopies whenever possible. Also when construction requires the cutting of tree roots the technique of root shaping will be used to minimize damage to the affected tree. When such construction takes place it's the contractor's responsibility to notify the Owner while the work is ongoing to assess the condition of the tree and probability of survival. If root cutting is performed, contractor shall take pictures of the before and after conditions of the root pruning to demonstrate that proper techniques were used.

Whenever public or private property is damaged or destroyed, the Contractor shall at his own expense, restore such property to a condition equal to that existing before such damage or injury was done by repairing, rebuilding, or replacing it as may be directed, or he shall otherwise make good such damage or destruction in an acceptable manner. If he fails to do so, the Owner may after the expiration of a period of forty-eight (48) hours after giving him notice in writing proceed to repair, rebuild, or otherwise restore such property as may be deemed necessary, and the cost thereof shall be deducted from any compensation due, or which may become due, the Contractor under his Contract.

The contractor shall remove the top six (6) inches of clay and replace with black dirt, grading appropriately and repairing all construction-damaged portions with mulch or seed, fertilizer and excelsior blanket (see specifications for blanket) to promote the growth of new grass. It is also the responsibility of the contractor to return and remove the blanket after the seed has germinated (approximately 4-6 weeks after installation.) if it is not breaking down and disintegrating. If the seed hasn't taken, contractor shall seed again, install new fertilizer and blanket and return in another 4-6 weeks or as directed by City personnel. If a homeowner specifically requests sod, the Contractor will comply after a change order has been executed with the City. The homeowner is responsible for watering any grass or sod after the initial installation. Final walk through acceptance of landscaping will be performed a minimum of 6 weeks after completion to insure grass has taken. Contractor shall guarantee plants for one year after satisfactorily planted.

In areas where plant material was disturbed, contractor shall replace plants to match pictures taken prior to construction. If pictures do not cover the area disturbed, contractor will restore to homeowner's and City's satisfaction.

If necessary, the Contractor shall remove all mailboxes within the limits of construction that interfere with construction operations and shall erect them at temporary locations. As soon as construction operations permit, he shall set the mailboxes at their permanent locations. This work shall be performed as directed by the Owner. The Contractor shall replace at his own expense any mailbox or post which has been damaged by his operations.

The cost of all materials required and all labor necessary to comply with the above provisions shall be included in the Landscaping portion of the Contract.

Section 3. The Bidder.

The Bidder agrees that in the event this Proposal is accepted it will make available for use in connection with the proposed construction all necessary tools and equipment and qualified personnel (including appropriate supervision).

Section 4. Changes in Construction.

If requested by Owner, in cases of satisfactorily performed work that is subsequently modified, upgraded, or otherwise changed by the Owner, the Contractor agrees to make such changes in construction previously installed in the Project by the Bidder as required by the Owner. The compensation for such changes shall be agreed upon in writing by the Contractor and the Owner prior to commencement of work in connection with such changes.

No payment shall be made to the Bidder for materials or labor involved in correcting errors or omissions on the part of the Bidder which result in construction not in accordance with the Plans and Specifications.

Section 5. Construction Not in Proposal.

The Contractor also agrees to do other work not herein provided for and which may be necessary in order to complete the project, or which the Owner may desire, when and as approved and ordered by the Owner. Such extra work shall be paid for at a fair and reasonable price to be mutually agreed upon before a Contract Change Order is issued. The timeframe to complete such additional work shall be mutually agreed to prior to commencement of such additional work.

If the nature of the work is such as to preclude making an estimate of cost prior to the execution of the work or if a fair and reasonable price cannot be mutually agreed upon, the Owner may request the Contractor to proceed with the work on the basis that he be paid at a reasonable cost plus 15 percent. On items of this nature, the Contractor shall submit to the Owner, as soon as possible after the completion of the work, a complete itemized breakdown of the cost of the work. Reasonable costs shall include the actual cost to the Bidder of all material used, of all labor employed (including supervision) and a reasonable rental for machinery and power tools when such are required. Labor costs shall include all wages, assessments and fees paid by the Contractor on the employees' wages, such as compensation insurance, employees' liability insurance, OAB payments and Social Security payments. Reasonable cost shall not include rental of small tools, or buildings, wages for the Contractor or his superintendent, public liability insurance, percentage on Sub-Contractors, allowance for use of capital, or any fees, commissions or profits.

The Contractor shall, if requested, submit to the Owner daily summaries of all labor time charged to extra work, for the Owner's approval, such approved summaries to be the basis for calculating extra labor time.

Section 6. Supervision and Inspection.

- a. The Contractor shall be responsible for providing adequate and satisfactory supervision of all work assigned/performed by a competent supervisory person (herein after called the "Superintendent"). Such individual(s) shall be present at all times during working hours where construction is being carried on. Directions and instructions given to the Superintendent shall be binding upon the Contractor. The cost of providing such supervision shall be borne by the Contractor and built into the applicable unit price rates for performing the assigned work.

It is implied and expected that the Contractor shall employ, in connection with the construction of the Project, capable, experienced and reliable personnel as may be required for the various classes of work to be performed. This includes journeyman lineman for all work in and around energized lines or lines that may become energized.

- b. The Owner reserves the right to require the removal from the Project of any employee of the Contractor and Contractors for noncompliance of installation which may include use of improper tools, improper installation, and/or not meeting timelines or schedules for installations, if in the judgment of the Owner such removal shall be necessary in order to protect the interest of the Owner. The Owner shall have the right to require the Contractor to increase the number of its

workforce at contractor's expense to meet schedules in installation. Owner has established all provisions to judge performance based on successful completion of work assignments as measured by Owner's standards. Contractor's obligations shall be to complete the work within the time and in the manner specified in this Proposal.

c. Regardless of any tests of materials made at the source, the Contractor shall carefully inspect all materials before installation and reject any materials which have been damaged or have visible flaws. The manner of construction of the Project, and all materials and equipment used therein, shall be subject to the inspection, tests and approval of the Owner, and the Contractor shall furnish all information required by the Owner concerning the nature or source of any materials incorporated or to be incorporated in the Project. The failure of the Owner to detect irregularities does not relieve the Contractor of responsibility to remove or replace materials which are found to be defective after installation. The Owner shall have the right to inspect all payrolls, invoices of materials, and other data and records of the Contractor and of any Sub-Contractor, relevant to the construction of the Project. The Contractor shall provide all reasonable facilities necessary for such inspection and tests. The Owner shall make final inspection of all work, included in the Contract, as soon as practicable after notification by the Contractor that the work is completed and ready for acceptance. If the work is not acceptable to the Owner at the time of such inspection, he shall inform the Contractor as to the particular defects to be remedied before final acceptance can be made. The Contractor shall have an authorized agent accompany the Owner when final inspection is made and, if requested by the Owner, when any other inspection is made.

d. If it is necessary to store materials, they shall be protected in such a manner as to insure the preservation of their quality and fitness for the work. All stored materials shall be inspected and approved before being placed in storage. Space required shall be provided by the Contractor at Contractor's expense.

e. In the event that the Owner shall determine that the construction contains or may contain numerous defects, it shall be the duty of the Contractor and the Contractor's Surety or sureties to have an inspection made, in cooperation with the Owner for the purpose of determining the exact nature, extent and location of such defects. Any such corrective actions, to remedy defective work or materials, shall not be cause for an extension of the schedule. Contractor shall incur costs required to meet stipulations of contract.

f. The Owner may recommend that the Contractor suspend the work wholly or in part for such period or periods as the Owner may deem necessary due to unsuitable weather or such other conditions as are considered unfavorable for the satisfactory prosecution of the work or because of the failure of the Contractor to comply with any of the provisions of the Contract: Provided, however, that the Contractor shall not suspend work pursuant to this provision without written authority from the Owner to do so. The time of completion hereinabove set forth shall be increased by the number of days of any such suspension, except when such suspension is due to the failure of the Contractor to comply with any of the provisions of this Contract. In the event that work is suspended by the Contractor with the consent of the Owner, the Contractor before resuming work shall give the Owner at least twenty-four (24) hours' notice thereof in writing.

g. The Contractor will be furnished necessary copies of the plans and special provisions, and he shall have one copy of each available on the work at all times during its prosecution. Contractor shall give the work his constant attention to facilitate the progress thereof, and shall cooperate with the Owner in every way possible. He shall have on the work at all times, a competent, English-speaking representative authorized to receive orders and act on the Contractor's behalf.

Section 7. Defective Materials and Workmanship.

a. The acceptance of any materials, equipment (except Owner-furnished materials) or any workmanship by the Owner shall not preclude the subsequent rejection thereof if such materials, equipment, or workmanship shall be found to be defective after delivery or installation, and any such materials, equipment or workmanship found defective before final acceptance of the construction shall be replaced or remedied, as the case may be, by and at the expense of the Contractor. Any such condemned material or equipment shall be immediately removed from the site of the Project by the Contractor at the Contractor's expense. The Contractor shall not be entitled to any payment hereunder so long as any defective materials, equipment or workmanship in respect to the Project, of which the Contractor shall have had notice, shall not have been replaced or remedied, as the case may be.

b. Notwithstanding any certificate which may have been given by the Owner, if any materials, equipment (except Owner-furnished materials) or any workmanship which does not comply with the requirements of this Contract shall be discovered within one (1) year after Completion of construction of the Project, the Contractor shall replace such defective materials or equipment or remedy any such defective workmanship within thirty (30) days after notice in writing of the existence thereof shall have been given by the Owner. If the Contractor shall be called upon to replace any defective materials or equipment or to remedy defective workmanship as herein provided, the Owner, if so requested by the Contractor shall de-energize that section of the Project involved in such work. In the event of failure by the Contractor so to do, the Owner may replace such defective materials or equipment or remedy such defective workmanship, as the case may be, and in such event the Contractor shall pay to the Owner the cost and expense thereof.

Section 8. - Traffic Control and Road Conditions.

a. Traffic control shall be in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, these Special Provisions, and any special details and Highway Standards contained herein and in the plans.

b. The Contractor shall furnish and place all necessary barricades and warning signs for street and/or lane closings during the work operations. The Contractor shall schedule his work to limit the closing of any one street block for not more than a period of four (4) hours. Tri-Com (911) shall be notified by the Contractor prior to any street closings. Street name, cross streets and duration of closure shall be provided.

c. The Contractor shall furnish all of the materials, labor and equipment (including flagmen if required) necessary to comply with this provision and all such costs to comply shall be borne by the Contractor and be considered incidental to the Contract.

d. The Contractor shall notify the Owner at least three (3) days in advance of the starting of any construction work which might in any way inconvenience or endanger traffic, so that arrangements may be made, if necessary, for closing the road and providing suitable detours. The Contractor shall at all times conduct the work in such a manner to insure the least obstruction of vehicular and pedestrian traffic. The convenience of the general public and of residents along the roadway shall be provided for in an adequate and satisfactory manner.

e. Where the Contractor's equipment is operated on any portion of the traveled surface or structures used by traffic on or adjacent to the section under construction, the Contractor shall clean up traveled surface of all dirt and debris at the end of each day's operations. The cost of this work shall be included in the unit prices Bid and no additional compensation will be allowed. In addition, at the completion of the job, the streets which the Contractor muddied shall be swept clean by use of a street sweeper vehicle. This too, shall be incidental to the Contract.

f. The traveled surface and structures on or adjacent to the work shall be protected, in a manner satisfactory to the Owner, from damage by lugs or cleats on treads or wheels of equipment.

g. All equipment used in prosecution of the work shall comply with the legal loading limits established by the statutes of the State of Illinois or local regulations when moved over or operated on any traveled surface or structure unless permission in writing has been issued by the Owner. Before using any equipment which may exceed the legal loading, the Contractor shall secure a permit, allowing ample time for making an analysis of stresses to determine whether or not the proposed loading would be within safe limits. The Owner will not be responsible for any delay in construction operations or for any costs incurred by the Contractor as a result of compliance with the above requirements.

ARTICLE III--PAYMENTS AND RELEASE OF LIENS

Section 1. Payments to Contractor

a. Within the first fifteen (15) days of each calendar month, the Owner shall make partial payment to the Contractor for construction accomplished during the preceding calendar month on the basis of completed Construction Units furnished and certified (as satisfactorily complete) to by the Contractor, and approved by the Owner solely for the purposes of payment: Provided, however, that such approval shall not be deemed approval of the workmanship or materials. **Payment shall be made only after receipt of Certified Payroll.** Only ninety percent (90%) of each such estimate approved during the construction of the Project shall be paid by the Owner to the Contractor prior to Completion of the Project. Upon completion by the Contractor of the construction of the Project, the Owner will prepare an inventory of the Project showing the total number and character of Construction Units and after checking such inventory with the Contractor,

will certify it together with a certificate of the total cost of the construction performed. Upon the approval of such certificates by the Owner, the Owner shall make payment to the Contractor of all amounts to which the Contractor shall be entitled thereunder which shall not have been paid; Provided, however, that such final payment shall be made not later than ninety (90) days after the date of Completion of Construction of the Project, as specified in the Certificate of Completion, unless withheld because of the fault of the Contractor.

b. The Contractor shall be paid on the basis of the number of construction Units actually installed at the direction of the Owner shown by the inventory: Provided, however, that the total cost shall not exceed the maximum Contract price for the construction of the Project as set forth in the Acceptance, unless such excess shall have been approved in writing by the Owner.

c. Notwithstanding the provisions of Section "1a" above, the Contractor may, by giving written notice thereof to the Owner, elect to receive payment in full for any Station of the Project upon:

- (1) completion of construction of such Station as certified and approved by the Owner;
- (2) submission to the Owner of the releases of lien and the certificate referred to in Section 2 hereof:
- (3) submission to the Owner of the consent in writing by the Surety or Sureties on the Contractor's Bond to payment in full for such Station prior to Completion of the Project.

d. Interest at the rate of seven percent (7%) per annum shall be paid by the Owner to the Contractor on all unpaid balances due on monthly estimates, commencing fifteen (15) days after the due date; provided the delay in payment beyond the due date is not caused by any condition within the control of the Contractor. The due date for purposes of such monthly payment shall be the fifteenth day of each calendar month provided (1) the Contractor on or before the twentieth day of the preceding month shall have submitted its certification of construction completed during the preceding month and (2) the Owner on or before the fifteenth day of such month shall have approved such certification. If for reasons not due to the Contractor's fault, such approval shall not have been given on or before the fifteenth day of such month, the due date for purposes of this subsection d shall be the fifteenth day of such month notwithstanding the absence of the approval of the certification.

e. Interest at the rate of seven percent (7%) per annum shall be paid by the Owner to the Contractor on the final payment for the Project or any completed Section thereof, commencing fifteen (15) days after the due date. The due date for purposes of such final payment shall be the date of approval by the Owner of all of the documents requiring such approval, as a condition precedent to the making of final payment, or ninety (90) days after the date of Completion of Construction of the Project, as specified in the Certificate of Completion, whichever date is earlier.

f. No payment shall be due while the Contractor is in default in respect of any of the provisions of this Contract and the Owner may withhold from the Contractor or the Owner based upon an

alleged failure of the Contractor to perform the work hereunder in accordance with the provisions of this Contract.

Section 2. Release of Liens and Certificate of Contractor.

(See sample Waiver and Release of Lien and sample Certificate of Contractor.) Upon the completion by the Contractor of the construction of the Project (or any Station thereof if the Contractor shall elect to receive payment in full for any Station when completed as provided above) but prior to final payment to the Contractor, the Contractor shall deliver to the Owner releases of all liens and of rights to claim any lien, in the form attached hereto from all manufacturers, materialmen, and Sub-Contractors furnishing services or materials for the Project or such Station and a certificate in the form attached hereto to the effect that all labor used on or for the Project or such Station has been paid and that all such releases have been submitted to the Owner.

Section 3. Payments to Materialmen and Sub-Contractors.

The Contractor shall pay each materialman, and each Sub-Contractor, if any, within five (5) days after receipt of any payment from the Owner, the amount thereof allowed the Contractor for and on account of materials furnished or construction performed by each materialman or each Sub-Contractor.

WAIVER AND RELEASE OF LIEN

WHEREAS, the undersigned, _____
 manufacturer, materialman or Sub-Contractor
 has furnished to _____ the
 name of Contractor
 following: _____ for use
 kind of material and services furnished
 in the construction of a project belonging to _____,
 name of Owner
 known as, _____
 project designation

NOW, THEREFORE, the undersigned, _____, for and in
 (name of manufacturer, materialmen or Sub-Contractor)

consideration \$ _____, and other good and valuable consideration, the receipt whereof is hereby acknowledged, do(es) hereby waive and release any and all liens, or right to or claim of lien, on the above described Project and premises, under any law, common or statutory, on account of labor or materials, or both, heretofore or hereafter furnished by the undersigned to or for the account of said _____
 name of Contractor

for said project.

Given under my (our) hand(s) and seal(s) this _____ day of _____, 20____.

 name of manufacturer, materialman or Sub-Contractor

By: _____ president,
 vice president, partner or Owner, or if signed by other than one of the foregoing, accompanied by power of attorney signed by one of the foregoing in favor of the signer. (use designation applicable)

ARTICLE IV--PARTICULAR UNDERTAKINGS OF THE BIDDER

Section 1 . Protection to Persons and Property.

The Contractor shall at all times take all reasonable precautions for the safety of employees on the work and of the public, and shall comply with all applicable provisions of Federal, State, and Municipal safety laws and building and construction codes, as well as the safety rules and regulations of the Owner. All machinery and equipment and other physical hazards shall be guarded in accordance with the "Manual of Accident Prevention in Construction" of the Associated General Contractors of America unless such instructions are incompatible with Federal, State, or Municipal laws or regulations.

The following provisions shall not limit the generality of the above requirements:

- a. The Contractor shall at no time and under no circumstances cause or permit any employee of the Contractor to perform any work upon energized lines, or upon poles carrying energized lines, unless otherwise specified in the Notice and Instructions to Contractors.
- b. The Contractor shall so conduct the construction of the Project as to cause the least possible obstruction of Public highways.
- c. The Contractor shall provide and maintain all such guard lights and other protection for the public as may be required by applicable statutes, ordinances and regulations or by local conditions.
- d. Temporary water, light, power, sanitary and other utility service shall be arranged for by the Contractor for construction purposes at its own expense.
- e. The Contractor shall do all things necessary or expedient to properly protect any and all adjacent lines, highways and any and all property of others from damage, and in the event that any such lines, highways or other property are damaged in the course of construction of the Project, the Contractor shall at its own expense restore any or all of such damaged property immediately to as good a state as before such damage occurred.
- f. The Project, from the commencement of work to completion, or to such earlier date or dates when the Owner may take possession and control in whole or in part as hereinafter provided shall be under the charge and control of the Contractor and during such period of control by the Contractor all risks in connection with the construction of the Project and the materials to be used therein shall be borne by the Contractor. The Contractor shall make good and full repair all injuries and damages to the Project or any portion thereof under the control of the Contractor by reason of any act of God or other casualty or cause whether or not the same shall have occurred by reason of the Contractor's negligence. The Contractor shall hold the Owner harmless from any and all claims for injuries to persons or for damage to property happening by reason of any negligence on the part of the Contractor or any of the Contractor's agents or employees during the control by the Contractor of the Project or any part thereof.

- g. Any and all excess earth, rock, debris, underbrush and other useless material shall be removed by the Contractor from the site of the Project as rapidly as practicable as the work progresses.
- h. Upon violation by the Contractor of any of the provisions of this section, after written notice of such violation given to the Contractor by the Owner, the Contractor shall immediately correct such violation. Upon failure of the Contractor so to do the Owner may correct such violation at the Contractor's expense: Provided, however, that the Owner may, if it deems it necessary or advisable, correct such violation at the Contractor's expense without such prior notice to the Contractor.
- i. The Contractor shall submit to the Owner monthly reports in duplicate of all accidents, giving such data as may be prescribed by the Owner.
- j. The Contractor shall not proceed with the cutting of trees or clearing of right-of-way without written notification from the property owner that proper authorization has been received, and the Contractor shall promptly notify the Owner whenever any property owner objects to the trimming or felling of any trees or the performance of any other work on its land in connection with the Project and shall obtain the consent in writing of the owner before proceeding in any such case.
- k. Where the right-of-way of the project traverses cultivated lands, the Contractor shall limit the movement of its crews and equipment so as to cause as little damage as possible to crops, orchards or property and shall endeavor to avoid marring the lands. All fences which are necessarily opened or moved during the construction of the Project shall be replaced in as good condition as they were found and precautions shall be taken to prevent the escape of livestock. Except as otherwise provided in the descriptions of underground plowing and trenching assembly units, the Contractor shall not be responsible for loss of or damage to crops, orchards, or property (other than livestock) on the right-of-way necessarily incident to the construction of the Project and not caused by negligence or inefficient operation of the Contractor. The Contractor shall be responsible for all other loss of or damage to crops, orchards, or property, whether on or off the right-of-way, and for all loss of or damage to livestock caused by the construction of the Project. The right-of-way for purposes of this section shall consist of an area ten (10) feet on both sides of the center line of the route of the Project lines, plus such area reasonably required by the Contractor for access to the route of the Project lines from public roads to carry on construction activities.
- l. The Contractor will furnish, prior to the commencement of underground distribution construction, proof satisfactory to the Owner, of compliance with requirements of highway and road authorities having jurisdiction, including without limitation, the furnishing of a bond or other guaranty, and approval by such authorities of the equipment and methods of construction and repair to be used by the Contractor.
- m. The Contractor shall be responsible for adhering to OSHA and all City of Geneva Policies and Procedures regarding Confined Space Entry. The Contractor shall supply all the necessary confined space entry equipment.

Section 2. Insurance.

The Contractor shall take out and maintain throughout the construction period insurance in the following minimum requirements:

- a. Workmen's Compensation & Employer's Liability. This insurance shall protect Contractor and the Company against all claims under applicable state workmen's compensation laws. The Contractor shall also be protected against all claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a workmen's compensation law. This policy shall include "All States" endorsement.

The liability limits shall not be less than:

Workmen's Compensation	Statutory
Employer's Liability	\$1,000,000 each employee

- b. Comprehensive Automobile Liability. This insurance shall be written in comprehensive form and shall protect the Contractor against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, nonowned, or hired.

The General Liability limits shall be not less than:

Bodily Injury	\$2 Million (each person) \$2 Million (each occurrence)
Property Damage	\$2 Million

- c. Comprehensive General Liability. This insurance shall be written in comprehensive form and shall protect the Contractor against all claims arising from injuries to persons other than his employees or damage to property of the Owner or others arising out of any act of omission of the Bidder or his agents, employees, or Sub-Contractors. The policy shall also include protection against claims insured by usual personal injury liability coverage a "protective liability" endorsement to insure the Contractual liability assumed by the Contractor, and "Completed Operations and Products Liability" coverage (to remain in force during the correction period).

The liability limits shall be not less than:

Bodily Injury	\$2 Million (each person) \$2 Million (each occurrence)
Property Damage	\$2 Million (each occurrence) \$3 Million (aggregate)

d. Installation Floater. The Contractor shall secure and maintain installation floater insurance on all materials and equipment installed under the Contract. This insurance shall protect the Contractor and the Owner from all risks of physical loss or damage to materials and equipment not otherwise covered under builder's risk insurance, while in warehouse or storage areas during installation, during testing, and after the work is completed. Installation floater insurance shall be of the "all risks" type, with coverage designed for the circumstances that may occur in the particular work included in the Contract. No exclusions shall be permitted with respect to this policy unless specifically authorized by the Owner in writing. The coverage shall be for an amount not less than the insurable value of the work at completion, less the value of the materials and equipment insured under builder's risk insurance. The value shall include the aggregate value of the Owner-furnished equipment and materials to be erected or installed by the Contractor not otherwise insured under builder's risk insurance.

Installation floater insurance shall provide for losses to be payable to the Contractor and the Owner as their interests may appear. The policy shall contain a provision that in the event of payment for any loss under the coverage provided, the insurance company shall have no rights of recovery against the Contractor or the Owner.

e. Additional Named Insured. The Owner and its employees, agents, and representatives shall be named additional insured on all insurance certificates.

f. Cancellation Notice. The standard ACCORD will not be accepted as proof of insurance unless the cancellation provisions have been altered to assure the Owner a minimum ten (10) days notice of cancellation.

Certificates of insurance shall be filed and approved by the Owner before starting construction or within ten (10) days after the execution of the Contract, whichever date is reached first.

The Owner shall have the right at any time to require public liability insurance and property damage liability insurance greater than those required in subsections b and c of this Section. In any such event, the additional premium or premiums payable solely as the result of such additional insurance shall be added to the Contract price.

The Contractor shall furnish a certificate evidencing compliance with the foregoing requirements.

Section 3. Indemnification.

To the fullest extent permitted by laws and regulations, the Contractor shall defend, indemnify, and hold harmless the Owner and their officers, directors, partners, consultants, agents, and employees from and against all claims, damages, losses, and expenses direct, indirect, or consequential (including but not limited to fees and charges of engineers, architects, attorneys, and other professionals and court and arbitration costs) arising out of or resulting from the performance of the work by the Contractor, any Sub-Contractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable.

In any and all claims against the Owner or any of their officers, directors, partners, consultants, agents, or employees by any employee of the Contractor, any Sub-Contractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work by anyone for whose acts any of them may be liable, this indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any such Sub-Contractor or other person or organization under workers or workmen's compensation acts, disability benefit acts, or other employee benefit acts, nor shall this indemnification obligation be limited in any way by any limitation on the amount or type of insurance coverage provided by the Owner, the Contractor, or any of his Sub-Contractors.

Section 4. Release of Liability.

Acceptance by the Contractor of the last payment shall be a release to the Owner and every officer and agent thereof from all claims and liability hereunder for anything done or furnished for or relating to the work, or for any act or neglect of the Owner or of any person relating to or affecting the work.

Section 5. Delivery of Possession and Control to Owner.

a. Upon written request of the Owner the Contractor shall deliver to the Owner full possession and control of any portion of the Project provided the Contractor shall have been paid at least ninety percent (90%) of the cost of construction of such portion. Upon such delivery of the possession and control of any portion of the Project to the Owner, the risk and obligations of the Contractor as set forth in Article IV, Section 1 f hereof with respect to such portion of the Project so delivered to the Owner shall be terminated; Provided however, that nothing herein contained shall relieve the Contractor of any liability with respect to defective materials and workmanship as contained in Article II Section 7, hereof.

b. Where the construction of a Section as hereinbefore defined in Article II, Section 1g and Article III, Section 1c shall have been completed by the Contractor, the Owner agrees, after receipt of a written request from the Contractor, to accept delivery of possession and control of such Section upon the issuance by the Owner of a written statement that the Section has been inspected and found acceptable by the Owner. Upon such delivery of the possession and control of any such Section to the Owner, the risk and obligations of the Contractor as set forth in Article IV, Section 1 f hereof with respect to such Section so delivered to the Owner shall be terminated: Provided, however, that nothing herein contained shall relieve the Contractor of any liability with result to defective materials or workmanship as contained in Article II, Section 7 hereof.

Section 6. Assessment of Guarantees.

All guarantees of materials and workmanship running in favor of the Contractor shall be transferred and assigned to the Owner prior to the time the Contractor receives final payment.

Section 7. Energizing the Project.

Prior to Completion of the Project the Owner, upon written notice to the Contractor, may test the construction thereof by temporarily energizing any portion or portions thereof. During the period of such test the portion

or portions of the Project so energized shall be considered within the possession and control of the Owner and governed by the provisions of Section 5 of this Article. Upon written notice to the Contractor by the Owner of the completion of such test and upon deenergizing the lines involved therein said portion or portions of the Project shall be considered as returned to the possession and control of the Contractor unless the Owner shall elect to continue possession and control in the manner provided in Section 5 of this Article. Contractor is responsible for providing underground locating of all new facilities that were constructed by the Contractor (or under Contractor's authority) in the project area until such time as they have been accepted by the Owner.

ARTICLE V--REMEDIES

Section 1. Completion on Contractor's Default.

If default shall be made by the Contractor or by any Sub-Contractor in the performance of any of the terms of this Proposal, the Owner, without in any manner limiting its legal and equitable remedies in the circumstances, may serve upon the Contractor and the Surety or Sureties upon the Contractor's Bond or Bonds a written notice requiring the Contractor to cause such default to be corrected forthwith. Unless within twenty (20) days after the service of such upon the Contractor such default shall be corrected or are for the correction thereof satisfactory to the Owner shall be made by the Contractor or its Surety or Sureties, the Owner may take the construction of the Project and prosecute the same to completion by Contract or otherwise for the account and at the expense of the Contractor, and the Contractor and its Surety or Sureties shall be liable to the Owner for any cost or expense in excess of the Contract price occasioned thereby. In such event Owner may take possession of and utilize, in completing the construction of the Project, any materials, tools, supplies, equipment, appliances, and plant belonging to Contractor or any of its Sub-Contractors, which may be situated at the site of the Project. The Owner in such contingency may exercise any rights, claims or demands which the Contractor may have against third persons in connection with this Contract and for such purpose the Contractor does hereby assign, transfer and set over unto the Owner all such rights, claims and demands.

Section 2. Liquidated Damages.

The time of the Completion of Construction of the Project is of the essence of the Contract. Should the Contractor neglect, refuse, or fail to complete the construction in the time herein agreed upon, after giving effect to extensions of time, if any, herein provided, then, in event and in view of the difficulty of estimating with exactness damages caused by such delay, the Owner shall have the right to deduct from and retain out of such moneys which may be then due, or which may become due, and payable to the Contractor the sum of five hundred and fifty dollars (\$550.00) per calendar day for each and every day that such construction is delayed on its completion beyond the specified time, as liquidated damages and not as a penalty; if the amount due and to become due from the Owner to Contractor is insufficient to pay in full any such liquidated damages, the Contractor shall pay to the Owner the amount necessary to effect such payment in full: Provided, however, that the Owner shall promptly to notify the Contractor in writing of the manner in which the amount retained, deducted or claimed as liquidated damages was computed.

Section 3. Cumulative Remedies.

Every right or remedy herein conferred upon or reserved to the Owner shall be cumulative, shall be in addition to every right and remedy now or hereafter existing at law or in equity or by statute and the pursuit of any right or remedy shall not be construed as an election: Provided, however, that the provisions of Section 2 of this Article shall be the exclusive measure of damages for failure by the Contractor to complete the construction of the Project within the time agreed upon.

ARTICLE VI--MISCELLANEOUS

Section 1 . Definitions.

- a. The term "Bidder" shall mean any individual, firm, partnership, or corporation submitting a Proposal for the work contemplated, acting directly or through a duly authorized representative.
- b. The term "Project" shall mean the electric system, or portions thereof, described in the Plans and Specifications for Construction.
- c. The term "Completion of Construction" shall mean full performance by the Contractor of the Contractor's obligations under the Contract and all amendments and revisions thereof except the Contractor's obligations in respect of (1) Releases of Liens and Certificate of Contractor under Article III, Section 2 hereof and (2) the inventory referred to in Article III, Section I hereof and (3) other final documents. The term "Completion of the Project" shall mean full performance by the Contractor of the Contractor's obligations under the Contract and all amendments and revisions thereof. The Certificate of Completion, signed by the Owner and approved in writing by the Owner, shall be the sole and conclusive evidence as to the date of Completion of Construction and as to the fact of Completion of the Project.
- d. The term "Owner" shall be the city, sanitary district or other municipality, corporation, partnership or individual initiating the project, acting through its legally constituted officials, officers, or employees.
- e. The term "Contractor" shall be the Bidder awarded the Contract for the work.
- f. The term "Sub-Contractor" shall be the individual, firm, partnership, or corporation to whom the Contractor, with written consent of the Owner, sublets, assigns, or otherwise disposes of any part of the work covered by the Contract.
- g. The term "Proposal" shall be the offer of a Bidder to perform the work described by the Contract Documents when made out and submitted on the prescribed Proposal Form, properly signed and guaranteed.
- h. The term "Bid Bond" shall be the security designated in the Proposal to be furnished by the Bidder as a guaranty that said Bidder will enter into a Contract with the Owner for the acceptable performance of the work and will furnish the required Contract Bond, if the work is awarded to him.
- i. The term "Contract" shall be the written agreement covering the performance of the work and the furnishing of labor and materials for the construction of the work. The contract includes the notice to Bidders, Proposal, Contract Bond, Specifications, plans, any and all supplemental agreements, and any and all special provisions.

j. The term "Contract Bond" shall be the approved form of security furnished by the Contractor and his Surety as a guaranty that he will execute the work in accordance with the terms of the Contract.

k. The term "Surety" shall be the corporate body, individual, or individuals, which engage to be responsible for the Bidder's acts in the execution of the Contract in the event of its being awarded to him; or, which are bound with and for the Contractor to insure his acceptable performance of the Contract, his payment of all obligations pertaining to the work, and his fulfillment of such other conditions as may be specified or otherwise required by law.

l. The term "Award" shall be the decision of the Owner to accept the Proposal of the lowest responsible Bidder for the work, subject to the execution and approval of a satisfactory Contract thereof and bond to secure the performance thereof, and to such other conditions as may be specified or otherwise required by law.

m. The term "Inspector" shall be the authorized representatives of the Owner assigned to make detailed inspection of any or all portions of the work or material therefore.

n. The term "Notice to Bidders" shall be the official notice, included in the Proposal form inviting Bids for the proposed improvement.

o. The term "Special Provisions" shall be specific directions, provisions, requirements, and revisions of the Specifications peculiar to the work under consideration which are not satisfactorily provided for in the Specifications. The special provisions set forth the final contractual intent as to the manner involved. The special provisions included in the Contract shall not operate to annul those portions of the Specifications with which they are not in conflict.

p. The term "Specifications" shall be the body of directions, provisions, and requirements contained here in, or in any supplement to this document referred to in the special provisions, together with written agreements and all documents of any description made or to be made pertaining to the method or manner of performing the work, the quantities, or the quality of materials to be furnished under the Contract.

q. The term "The Work" shall be the improvement advertised for Bids, described in the Proposal form, indicated on the plans, and covered in the Specifications, Special Provisions, Contract, authorized alterations, extensions and deductions, and supplementary agreements, or any part or parts thereof, including labor, tools, equipment, materials, and incidentals necessary for satisfactory completion of the improvements.

r. The term "Written Notice" shall be considered as served when delivered in person or sent by registered mail to the individual, firm or corporation or to the last business address of such known to him who serves the notice.

a. Change of Address: It shall be the duty of each party to advise the other parties of the Contract as to any change in his business address until completion of the Contract.

s. The term "Act of God" shall be an earthquake, flood, cyclone or other cataclysmic phenomenon of nature. Rain, wind, flood or other natural phenomenon of normal intensity for the locality shall not be construed as an Act of God and no reparation shall be made to the Contractor for damages to the work resulting there from.

t. The term "Contents of the Proposal Form" shall be those forms which with the qualified Bidders will be furnished stating the location and description of the work contemplated, the approximate quantities of work to be performed or materials to be furnished, the amount of the proposed guaranty, requirements pertaining to labor, and the date, time, and place of filing and opening Proposals. All documents bound with or attached to the Proposal shall be considered a part thereof, and shall not be detached or altered.

Section 2. Patent Infringement.

The Bidder shall save harmless and indemnify the Owner from any and all claims, suits and proceedings for the infringement of any patent or patents covering any materials or equipment used in construction of the Project.

Section 3. Permits for Explosives.

All permits necessary for the handling or use of dynamite or other explosives in connection with the construction of the Project shall be obtained by and at the expense of the Contractor. The Contractor shall be governed by the rules and regulations of the Department of Mines and Minerals of the State of Illinois and any local regulations which govern the use of explosives.

Section 4. Compliance with Statutes and Regulations.

The Contractor shall comply with all applicable ordinances, rules, and regulations pertaining to the work. The Bidder acknowledges that it is familiar with the so-called "Kick-Back" Statute (48 Stat. 948), and regulations issued pursuant thereto, and 18 U.S.C. 287, 1001, as amended. The Bidder understands that the regulations and orders of governmental agencies having jurisdiction in the premises.

Section 5. Equal Opportunity Provisions.

a. Bidder's Representations.

The Bidder represents that:

It has X , does not have _____100 or more employees, and it has X , has not _____furnished the Equal Employment Opportunity--Employers Information Report EEO-1, Standard Form 100, required of employers with 100 or more employees pursuant to executive Order 11246 and Title VII of the Civil Rights Act of 1964.

The Bidder agrees that it will obtain, prior to the award of any subcontract for more than \$10,000 hereunder to a Sub-Contractor with 100 or more employees, a statement, signed by the proposed Sub-Contractor, that the proposed Sub-Contractor has filed a current report on Standard Form 100.

The Bidder agrees that if it has 100 or more employees and has not submitted a report on Standard Form 100 for the current reporting year and that if this Contract will amount to more than \$10,000, the Bidder will file such report, as required by law, and notify the Owner in writing of such filing prior to the Owner's acceptance of this Proposal.

b. Equal Opportunity Clause. During the performance of this Contract, the Contractor agrees as follows:

(1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to, the following: Employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this Equal Opportunity Clause.

(2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.

(3) The Contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The Contractor will comply with all provisions of executive Order 11246 of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.

(5) The Contractor will furnish all information and reports required by executive Order 11246 of September 24, 1965, and by rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to its books, records and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.

(6) In the event of the Contractor's noncompliance with the Equal Opportunity Clause of this Contract or with any of the said rules, regulations or orders, this Contract may be canceled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in executive

Order 11246 of September 24, 1965 or by rule, regulation or order of the Secretary of labor, or as otherwise provided by law.

(7) The Contractor will include this Equal Opportunity Clause in every Sub-Contractor purchase order unless exempted by the rules, regulations or orders of the Secretary of Labor issued pursuant to Section 204 of executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each Sub-Contractor or vendor.

c. Certificate of Nonsegregated Facilities. The Bidder certifies that it does not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The Bidder certifies further that it will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it will not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The Bidder agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this Contract. As used in this certification, the term "segregated facilities" means any waiting room, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The Bidder agrees that (except where it has obtained identical certification from proposed Sub-Contractors for specific time periods) it will obtain identical certifications from proposed Sub-Contractors prior to the award of Subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause, and that it will retain such certifications in its files.

Section 6. Franchises and Rights-of-way.

The Contractor shall be under no obligation to obtain or assist in obtaining; Any franchises, authorizations, permits or approvals required to be obtained by the Owner from federal, state, county, municipal or other authorities; any rights-of-way over private lands; or any agreements from the Owner and third parties with respect to joint use of poles, crossing or other matter incident to the construction and operation of the Project.

Section 7. Nonassignment of Contract.

The Contractor shall perform directly and without subcontracting not less than twenty-five per centum (25%) of the construction of the Project, to be calculated on the basis of the total Contract price. The Contractor shall not assign the Contract effected by an acceptance of this Proposal or any interest in any funds that may be due or become due hereunder or enter into any contract with any person, firm or corporation for the performance of the Contractor's obligations hereunder or any part thereof, without the approval in writing of the Owner and of the Surety and Sureties on any Bond furnished by the Contractor for the faithful performance of the Contractor's obligations hereunder. If the Contractor, with consent of the Owner, and any Surety or Sureties on the Contractor's Bond or Bonds, shall enter into a subcontract with any Sub-Contractor for the performance of any part of this Contract, the Contractor shall be as fully responsible to the Owner for the acts and omissions of such Sub-Contractor and of persons employed by such Sub-

Contractor as the Contractor would be for its own acts and omissions and those of persons directly employed by it.

Section 8. Extension to Successors and Assigns.

Each and all of the covenants and agreements herein contained shall extend to and be binding upon the successors and assigns of the parties hereto.

Section 9. Contractor.

Upon acceptance of this Proposal, the successful Bidder shall be the Contractor and all references in the Proposal to the Bidder shall apply to the Contractor.

Section 10. Addenda. Any questions relating to the Contract that requires a response from the City of Geneva must be submitted in writing (email, fax or mail) by Monday, September 26, 2016 at 9:00 a.m. The City of Geneva will provide response by email or fax by Monday, September 26, 2015 at 3:00 p.m. No further Addendum will be made after this point in time.

The Bidder acknowledges receipt of the following Addenda:

Addendum No. _____	dated _____	initialed _____
Addendum No. _____	dated _____	initialed _____
Addendum No. _____	dated _____	initialed _____

Section 11. Prevailing Wage.

This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: <http://www.state.il.us/agency/idol/rates/rates.HTM> . All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

- a. Contractor or his Sub-Contractor shall pay all mechanics and laborers employed directly upon the site of the work, unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amount accrued at the time of payment, computed at wage rates not less than those stated in the advertised Specifications, regardless of any contractual relationship which may be alleged to exist between the Contractor or Sub-Contractor and such laborers and mechanics;
- b. The scale of wages to be paid shall be posted by the Contractor in a prominent and easily accessible place at the site of the work; and
- c. There may be withheld from the Contractor so much of accrued payment as may be considered necessary by the city controller to pay to laborers and mechanics employed by the Contractor or any Sub-Contractor on the work for the difference between the rates of wages required by such laborers and mechanics except those amounts properly deducted or refunded pursuant to the terms of the Davis-Bacon Act (USC, Title 40, Sec. 276a) and interpretations thereof.

d. The overtime pay to which a laborer or mechanic working on the contract is entitled shall be that overtime pay to which he is entitled by any agreement he may have made with the Contractor or Sub-Contractor, or by any applicable provision of law, but in no such event shall such amount be less than the prevailing wage for such overtime.

e. The minimum wages to be paid to the various laborers and mechanics, have been determined to be prevailing for the corresponding classes of laborers and mechanics employed on projects of a character similar to the Contract work in the vicinity.

f. Please be aware of the following requirements of the Illinois Department of Labor for the Contractor and every Subcontractor working on public improvement projects in Illinois. There will be no exception to these public acts under this contract. Starting from the date the notice to proceed is issued the Contractor and the subcontractor will submit certified payroll records every calendar month for work that was completed and paid for as stated below.

- i. **CERTIFIED PAYROLL REQUIREMENTS (PUBLIC ACT 94-0515):** Effective August 10, 2005 Contractors and Subcontractors on public works projects must submit certified payroll records on a monthly basis to the public body in charge of the construction project, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the Contractor is aware that filing records he or she knows to be false is a Class B misdemeanor.

The certified payroll records must include for every worker employed on the public works project the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, number of hours worked each day, and starting and ending time of work each day. These certified payroll records are considered public records and public bodies must make these records available to the public under the Freedom of Information Act, with the exception of the employee's address, telephone number and social security number. Any Contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B misdemeanor.

PREVAILING WAGES FOR KANE COUNTY

This schedule contains the prevailing wage rates required to be paid for work performed on or after Monday, June 5, 2017 on public works projects in this County. Pursuant to 820 ILCS 130/4, public bodies in this County that have active public works projects are responsible for notifying all contractors and subcontractors working on those public works projects of the change (if any) to rates that were previously in effect. The failure of a public body to provide such notice does not relieve contractors or subcontractors of their obligations under the Prevailing Wage Act, including the duty to pay the relevant prevailing wage in effect at the time work subject to the Act is performed. KANE COUNTY

PREVAILING WAGE

RATES EFFECTIVE JUNE

5, 2017

TradeTitle	Region	Type	Class	Base Wage	Foreman Wage	M-F OT	OSA	OSH	H/W	Pension	Vacation	Training
ASBESTOS ABT-GEN	All	All		40.40	40.95	1.5	1.5	2.0	14.23	11.57	0.00	0.50
ASBESTOS ABT-MEC	All	BLD		37.46	39.96	1.5	1.5	2.0	11.62	11.06	0.00	0.72
BOILERMAKER	All	BLD		47.07	51.30	2.0	2.0	2.0	6.97	18.13	0.00	0.40
BRICK MASON	All	BLD		44.88	49.37	1.5	1.5	2.0	10.25	15.30	0.00	0.85
CARPENTER	All	All		45.35	47.35	1.5	1.5	2.0	11.79	17.61	0.00	0.63
CEMENT MASON	All	All		43.95	45.95	2.0	1.5	2.0	10.00	19.66	0.00	0.50
CERAMIC TILE FNSHER	All	BLD		37.81	37.81	1.5	1.5	2.0	10.55	10.12	0.00	0.65
COMMUNICATION TECH	N	BLD		37.39	39.49	1.5	1.5	2.0	11.30	12.97	0.00	0.66
COMMUNICATION TECH	S	BLD		39.02	41.27	1.5	1.5	2.0	10.90	10.93	0.00	1.37
ELECTRIC PWR EQMT OP	All	All		37.89	51.48	1.5	1.5	2.0	5.00	11.75	0.00	0.38
ELECTRIC PWR EQMT OP	All	HWY		40.59	55.15	1.5	1.5	2.0	5.25	12.59	0.00	0.71
ELECTRIC PWR GRNDMAN	All	ALL		29.30	51.48	1.5	1.5	2.0	5.00	9.09	0.00	0.29
ELECTRIC PWR GRNDMAN	All	HWY		32.50	55.15	1.5	1.5	2.0	5.25	10.09	0.00	0.58
ELECTRIC PWR LINEMAN	All	All		45.36	51.48	1.5	1.5	2.0	5.00	14.06	0.00	0.45
ELECTRIC PWR LINEMAN	All	HWY		48.59	55.15	1.5	1.5	2.0	5.25	15.07	0.00	0.85
ELECTRIC PWR TRK DRV	All	All		30.34	51.48	1.5	1.5	2.0	5.00	9.40	0.00	0.30
ELECTRIC PWR TRK DRV	All	HWY		31.40	53.29	1.5	1.5	2.0	5.00	9.73	0.00	0.31
ELECTRICIAN	N	All		46.02	50.42	1.5	1.5	2.0	14.07	15.33	0.00	0.92
ELECTRICIAN ELEVATOR	S	BLD		48.63	52.88	1.5	1.5	2.0	11.31	13.62	0.00	1.70

CONSTRUCTOR	All	BLD		51.94	58.43	2.0	2.0	2.0	14.43	14.96	4.16	0.90
FENCE ERECTOR	All	All		45.56	49.20	2.0	2.0	2.0	11.02	21.51	0.00	0.70
GLAZIER	All	BLD		41.70	43.20	1.5	2.0	2.0	13.94	18.99	0.00	0.94
HT/FROST INSULATOR	All	BLD		49.95	52.45	1.5	1.5	2.0	11.62	12.26	0.00	0.72
IRON WORKER	All	All		45.56	49.20	2.0	2.0	2.0	11.02	21.51	0.00	0.70
LABORER	All	All		40.20	40.95	1.5	1.5	2.0	13.52	12.28	0.00	0.50
LATHER	All	All		45.35	47.35	1.5	1.5	2.0	11.79	17.61	0.00	0.63
MACHINIST	All	BLD		45.35	47.85	1.5	1.5	2.0	7.26	8.95	1.85	0.00
MARBLE FINISHERS	All	All		33.45	33.45	1.5	1.5	2.0	10.25	14.44	0.00	0.46
MARBLE MASON	All	BLD		44.13	48.54	1.5	1.5	2.0	10.25	14.97	0.00	0.59
MATERIAL TESTER I	All	All		30.20	30.20	1.5	1.5	2.0	13.52	12.28	0.00	0.50
MATERIALS TESTER II	All	All		35.20	35.20	1.5	1.5	2.0	13.52	12.28	0.00	0.50
MILLWRIGHT	All	All		45.35	47.35	1.5	1.5	2.0	11.79	17.61	0.00	0.63
OPERATING ENGINEER	All	BLD	1	49.10	53.10	2.0	2.0	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	BLD	2	47.80	53.10	2.0	2.0	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	BLD	3	45.25	53.10	2.0	2.0	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	BLD	4	43.50	53.10	2.0	2.0	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	BLD	5	52.85	53.10	2.0	2.0	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	BLD	6	50.10	53.10	2.0	2.0	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	BLD	7	52.10	53.10	2.0	2.0	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	FLT		37.00	37.00	1.5	1.5	2.0	17.65	12.65	1.90	1.35
OPERATING ENGINEER	All	HWY	1	47.30	51.30	1.5	1.5	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	HWY	2	46.75	51.30	1.5	1.5	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	HWY	3	44.70	51.30	1.5	1.5	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	HWY	4	43.30	51.30	1.5	1.5	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	HWY	5	42.10	51.30	1.5	1.5	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	HWY	6	50.30	51.30	1.5	1.5	2.0	18.05	13.60	1.90	1.30
OPERATING ENGINEER	All	HWY	7	48.30	51.30	1.5	1.5	2.0	18.05	13.60	1.90	1.30
ORNAMNTL IRON												
WORKER	All	All		45.06	48.66	2.0	2.0	2.0	10.52	20.76	0.00	0.70
PAINTER	All	All		42.93	44.93	1.5	1.5	1.5	10.30	8.20	0.00	1.35
PAINTER SIGNS	All	BLD		33.92	38.09	1.5	1.5	1.5	2.60	2.71	0.00	0.00
PILEDRIVER	All	All		45.35	47.35	1.5	1.5	2.0	11.79	17.61	0.00	0.63
PIPEFITTER	All	BLD		47.50	50.50	1.5	1.5	2.0	9.55	17.85	0.00	2.07
PLASTERER	All	BLD		42.25	44.79	1.5	1.5	2.0	13.65	9.50	5.00	0.65
PLUMBER	All	BLD		48.25	50.25	1.5	1.5	2.0	14.09	12.65	0.00	1.18
ROOFER	All	BLD		41.70	44.70	1.5	1.5	2.0	8.28	11.59	0.00	0.53
SHEETMETAL WORKER	All	BLD		45.77	47.77	1.5	1.5	2.0	10.65	14.10	0.00	0.82
SIGN HANGER	All	BLD		26.07	27.57	1.5	1.5	2.0	3.80	3.55	0.00	0.00
SPRINKLER FITTER	All	BLD		47.20	49.20	1.5	1.5	2.0	12.25	11.55	0.00	0.55
STEEL ERECTOR	All	All		45.56	49.20	2.0	2.0	2.0	11.02	21.51	0.00	0.70
STONE MASON	All	BLD		44.88	49.37	1.5	1.5	2.0	10.25	15.30	0.00	0.85
TERRAZZO FINISHER	All	BLD		39.54	39.54	1.5	1.5	2.0	10.55	11.79	0.00	0.67

TERRAZZO MASON	All	BLD		43.38	43.38	1.5	1.5	2.0	10.55	13.13	0.00	0.79
TILE MASON	All	BLD		43.84	47.84	1.5	1.5	2.0	10.55	11.40	0.00	0.99
TRAFFIC SAFETY WRKR	All	HWY		33.50	35.10	1.5	1.5	2.0	8.10	7.62	0.00	0.25
TRUCK DRIVER	All	All	1	36.30	36.85	1.5	1.5	2.0	8.10	9.76	0.00	0.15
TRUCK DRIVER	All	All	2	36.45	36.85	1.5	1.5	2.0	8.10	9.76	0.00	0.15
TRUCK DRIVER	All	All	3	36.65	36.85	1.5	1.5	2.0	8.10	9.76	0.00	0.15
TRUCK DRIVER	All	All	4	36.85	36.85	1.5	1.5	2.0	8.10	9.76	0.00	0.15
TUCK POINTER	All	BLD		44.90	45.90	1.5	1.5	2.0	8.30	14.29	0.00	0.48

Explanations
KANE COUNTY

ELECTRICIANS AND COMMUNICATIONS TECHNICIAN (NORTH) - Townships of Burlington, Campton, Dundee, Elgin, Hampshire, Plato, Rutland, St. Charles (except the West half of Sec. 26, all of Secs. 27, 33, and 34, South half of Sec. 28, West half of Sec. 35), Virgil and Valley View CCC and Elgin Mental Health Center.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS TECHNICIAN

Construction, installation, maintenance and removal of telecommunication facilities (voice, sound, data and video), telephone, security systems, fire alarm systems that are a component of a multiplex system and share a common cable, and data inside wire, interconnect, terminal equipment, central offices, PABX and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area network), LAN (local area networks), and ISDN (integrated system digital network), pulling of wire in raceways, but not the installation of raceways.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble

Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication

Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEERS - FLOATING

Diver. Diver Wet Tender, Diver Tender, ROV Pilot, ROV Tender

TRAFFIC SAFETY - work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane markings, and the installation and removal of temporary road signs.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material

Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available.

If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

PROPOSED SUBCONTRACTORS

List the name and address of all Sub-Contractors who will perform work in relation to this Contract:

<u>Sub-Contractor</u>	<u>Work</u>
Peak Industrial Coatings 3131 Crums Lane Louisville KY 40216 502-681-4941	Paint

NOTE: Failure to complete this list may result in rejection of Bid. Statements such as "to be determined" are not acceptable.

PROPOSAL SIGNATURE BY BIDDER

CE Power Engineered Services LLC
Bidder

By: Brent Sitarski
President

4040 Rev Dr. Cincinnati OH 45232
Address

ATTEST:

Secretary

Date 08/11/2017

Bids which are not signed by individuals making them should have attached thereto a power of attorney evidencing authority to sign the Bid in the name of the person for whom it is signed.

Bids which are signed for a partnership should be signed by all of the partners or by an attorney-in-fact. If signed by an attorney-in-fact, there should be attached to the Bid a power of attorney evidencing authority to sign the Bid, Executed by the partners.

Bids which are signed for a corporation should give the correct corporate name thereof and the signature of the president or other authorized officer of the corporation manually written below the corporate name following the word "By _____". If such a Bid is manually signed by an official other than the president of the corporation, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the Bid should be attached to it. Such a Bid should also bear the attesting signature of the secretary of the corporation and the impression of the corporate seal.

ACCEPTANCE

The Owner hereby accepts the foregoing Proposal of the Bidder,
_____ for the construction of the following project:

The total Contract price is \$ _____

(Owner)

By _____

Attested:

Date of Contract:

CONTRACTOR'S BOND
(Performance and Payment)

1. Know all men that we, _____, as Principal, and _____, as Surety, are held and firmly bound unto _____ (hereinafter called the "Owner" and unto all person, firms and corporations who or which may furnish materials for or perform labor on a project known as _____ and to their successors and assigns, in the penal sum of _____ dollars (\$_____), as hereinafter set forth and for the payment of which sum well and truly to be made we bind ourselves, our PETutors, administrators, successors and assigns jointly and severally by these presents. Said Project is described in a certain construction contract (hereinafter called the "Construction Contract") between the Owner and the Principal, dated _____, 20____.

2. The condition of this obligation is such that if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of the Construction Contract and any amendments thereto, whether such amendments are for additions, decreases, or changes in materials, their quantity, kind of price, labor costs, mileage, routing or any other purpose whatsoever, and whether such amendments are made with or without notice to the Surety, and shall fully indemnify and save harmless the Owner from all costs and damages which the Owner shall suffer or incur by reason of any failure so to do, and shall fully reimburse and repay the Owner for all outlay and expense which the Owner shall incur in making good any such failure of performance on the part of the Principal, and shall promptly make payment to all persons working on or supplying labor or materials for use in the construction of the Project contemplated in the Construction Contract and any amendments thereto, in respect of such labor or materials furnished and used therein, to the full extent thereof, and in respect of such labor or materials furnished but not so used, to the extent required in the Construction Contract and any amendments thereto, occasioned by any default of the Principal under the Construction Contract and any amendments thereto, then this obligation shall be null and void, but otherwise shall remain in full force and effect.

3. It is expressly agreed that this Bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon any amendment to the Construction Contract, so as to bind the Principal and Surety to the full and faithful performance of the Construction Contract as so amended, provided only that the total amount of all increases in the cost of construction shall not exceed 20 percent of the amount of the maximum price set forth in the Construction Contract. The term "Amendment," wherever used in this Bond, and whether referring to this Bond or in the Construction Contract shall include any alteration, addition, extension, modification, amendment, rescission, waiver, release or annulment, of any character whatsoever.

4. It is expressly agreed that any amendment which may be made by agreement or otherwise between the Principal and the Owner in the terms, provisions, covenants and conditions of the Construction Contract (including, without limitation, the granting by the Owner to the Principal of any extension of time for the performance of the obligations of the Principal under the Construction Contract, or the failure or refusal of the Owner to take any action, proceeding or step to enforce any remedy or exercise any right under the Construction Contract, or the taking of any action, proceeding or step by the Owner, acting in good faith

upon the belief that the same is permitted by the provisions of the Construction Contract) shall not in any way release the Principal and the Surety, or either of them or their respective PETutors, administrators, successors or assigns from liability hereunder. The Surety hereby acknowledges receipt of notice of any amendment, indulgence or forbearance, made, granted or permitted.

5. This Bond is made for the benefit of all persons, firms and corporations who or which may furnish any materials or perform any labor for or on account of the construction to be performed under the Construction Contract and any amendments hereto, and they, and each of them, are hereby made obligees hereunder with the same force and effect as if their names were written as such, and they and each of them may sue herein.

In witness thereof, the undersigned have caused this instrument to be Executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this ____ day of _____, 20____.

_____(Seal)
(Principal)

Attest:

(Secretary)

By _____

(Surety)

Attest:

(Secretary)

By _____

(Address of Surety's home office)

By _____
(Resident Agent of Surety)

Signatures: The Contractor's Bond must be signed with the full name of the Contractor. If the Contractor is a partnership the Contractor's Bond must be signed in the partnership name by a partner. If the Contractor is a corporation the Contractor's Bond must be signed in the corporate name by a duly authorized officer and the corporate seal affixed and attested by the Secretary of the corporation. A typewritten copy of all such names and signatures shall be appended.

Power of Attorney: The Contractor's Bond must be accompanied by a power of attorney authorizing PETution on behalf of the Surety and, in jurisdictions so requiring should be countersigned by a duly resident agent of the Surety.

Maintenance and Testing Specifications

Transformers and LTC

All transformer tests to be performed in accordance with C57.12.90 latest revision and manufacturer's maintenance and testing specifications. Upon completion of testing a detailed written report will be prepared and presented to the City of Geneva with any recommendations noted. Tests can be combined.

1) Required Tests

a) Power transformers

- i) Visual inspection of power transformer
 - (1) General condition of transformer exterior including all bushings, insulators, access panels and seals.
- ii) Times Turn Ratio testing
- iii) Overall Power Factor test
- iv) Overall Capacitance test
- v) Insulation Resistance test
- vi) Bushing Power Factor and Capacitance test
- vii) Rapid Pressure Rise, Pressure relief valves, and alarm contacts
 - (1) Verify proper operation of Rapid Pressure Rise, Pressure relief valve, and alarm contacts

b) Load Tap Changer

- i) Visual inspection of Load Tap Changer
 - (1) General condition of exterior and seals of load tap changer
- ii) LTC tank and mechanism
 - (1) All oil drained and filtered
 - (a) Dielectric test oil
 - (2) Tank opened for a visual inspection of the LTC mechanism and contacts.
 - (3) All required maintenance items called out in the manufacturer's maintenance manuals.
 - (4) Tank resealed and filled to appropriate level with dielectric oil.
 - (a) Fill with filtered oil if the oil passes dielectric test
 - (b) Fill with new, tested, dielectric oil if filtered oil does not pass dielectric test
- iii) Times Turn Ratio testing
 - (1) At all tap positions
- iv) Power Factor testing
- v) Insulation Resistance Testing
- vi) Pressure Relay
 - (1) Verify proper operation of Pressure Relay and alarm contacts

c) Keslinger Road Oil Cooling Fin option

i) Clean, inspect and repaint Keslinger Road transformer oil cooling fins due to surface corrosion.

(1) This item shall be priced as an option and will be included if budget allows.

Relay and Breaker testing

All relays will be tested to verify operation per the provided protection schemes. Breaker testing will verify operation times and proper operation of the breakers to manufacturers specifications.

A detailed written report will be prepared and presented to the City of Geneva with any recommendations noted.

1) Required Tests and Maintenance

- a) Relays
 - i) Verify proper operation of installed protection schemes
- b) Breakers and Circuit Switchers
 - i) Visual inspection
 - ii) Lubrication of mechanism per manufacturers specifications
 - iii) Verify proper operation and timing
 - (1) Auxiliary switch function
 - (2) Contact sequence
 - (3) Anti-pump function
 - (4) Trip Free function
 - (5) Breaker timing
 - iv) Test contact resistance
- c) Keslinger Substation
 - i) Installation of S&C Latch Housing Assembly with Trip Assist Retrofit Kit to the 34.5 kV Mark V circuit switcher and CS-1A switch operator
- d) Delnor Substation
 - i) Upload new settings for Hot Line Tag protection and test settings
 - ii) Verify proper operation of SEL-387 relay with updated ground fault detection settings.

Station Standby Battery load testing - Delnor

The station standby battery and charger will be tested to verify proper operation per the manufactures' recommendations and IEEE-450 latest standard.

A detailed written report will be prepared and presented to the City of Geneva with any recommendations noted.

1) Required Tests and Maintenance

- a) Charger
 - i) Visual Inspection
 - ii) Perform Year 1 through 10 maintenance procedures as specified in the manufacturer's manual.
- b) Battery
 - i) Visual Inspection
 - ii) Verify electrolyte specific gravity and temperature
 - iii) Verify internal resistance/impedance and conductance
 - iv) Verify float voltage
 - v) Perform capacity testing per manufactures' specifications and IEEE-450 latest version.
 - vi) Remove all straps and hardware, clean and re-install per manufacturer's instructions

Keslinger Road Substation Standby Battery removal and replacement

The station standby battery and charger will be removed and the flooded cell batteries will be recycled per IEPA regulations.

The new 8 hour 120 volt 100 amp/hour battery, rack, spill containment and charger shall be the following:

- 1) Standards
Battery and Charger shall be designed and tested in accordance with applicable current standards of ANSI, NEMA, DIN and IEEE
- 2) Battery Manufacturer
2.1 Shall be Storage Battery Systems. Model Number **STT2V100**
- 3) Service
 - a) Battery shall be of general purpose type for substation applications and designed for 20 year service
 - b) Float voltage shall be 2.23 volts per cell without the need to equalize
 - c) Equalize voltage shall be 2.33-2.40 volts per cell
 - d) Watering intervals shall be 1-3 years
 - e) Operating temperature range shall be -4°F to 130°F (preferred temp. 68-77°F)
 - f) Rating of battery shall be 110 ampere-hours at the 8 hour rate to 1.75 volts per cell at 77 °F

Constant discharge current (A) 1.75 V/Cell

1 min	15 min	30 min	1h	1.5h	2h	3h	5h	6h	8h	24h
150	109	80.3	54.6	42.6	35.5	27.2	19.0	16.8	13.7	5.34

- g) Battery shall be capable of the following discharges/cycles:

Depth of Discharge	Number of Cycles
100%	800
80%	1,100
50%	1,850
30%	3,500

- 4) Construction
 - a) Containers shall be manufactured of Styrene-Acrylonitrile (SAN) and be impact resistant
 - b) The Limiting Oxygen Index (LOI) of the jars and covers is 28%.
 - c) Post seal design shall be fixed and leak proof with brass insert so there is no need to re-torque
 - d) Positive plates shall be tubular lead selenium w/1.8-2% antimony, .03% Selenium and have a thickness of 0.34 inches

- e) Negative plates shall be pasted flat radial structure and have a thickness of 0.18 inches
 - f) Plates to be tank formed and must deliver 100% upon delivery
 - 3.3 Electrolyte levels lines shall be marked on two sides of each jar
 - 3.4 Electrolyte shall be 1.240 specific gravity @77° F.
 - 3.5 Containers shall be **single cell** construction.
 - 3.6 Dimensions shall be **4.06”L x 8.11”W x 16.1”H**.
- 5) Accessories to be included with batteries
- a) Fully insulated flexible copper intercell connector/cable shall be included (one per cell/battery)
 - b) Flip-top flame arrestor vent caps with dust cap shall be provided (one per cell)
 - c) No-Oxide grease
 - d) One set of cell numerals
 - e) Brass wire brush
 - f) 8oz funnel
 - g) Installation, Operation and Maintenance Manual
- 6) Battery rack
Rack shall be of two- step design and have two coats of acid resistant paint. Dimensions are **TBD depending on footprint**
- 7) Spill Containment System
Shall be constructed of high density 4” high polyethylene pans to allow battery rack to be contained within the containment. System shall also include the appropriate number of 12”x12” flame retardant acid absorbing/neutralizing pillows.
- 8) Charger
- a) Manufacturer shall be La Marche model number **TPSD-25-130V-ABD1-60L**
 - i) 120/240/208V Single Phase AC Input
 - ii) 25 Ampere, 130 VDC Output
 - iii) Set to charge a 60 cell lead acid battery
- 9) Post installation testing
- i) Visual Inspection
 - ii) Verify electrolyte specific gravity and temperature
 - iii) Verify internal resistance/impedance and conductance
 - iv) Verify float voltage
 - v) Perform capacity testing per manufactures’ specifications and IEEE-450 latest version.

List of installed equipment

1) Delnor Substation

- a) Power Transformer – Virginia Transformer 34.5/7.2kV 12/16/20 MVA
- b) LTC – Reinhausen Type RMV-A
- c) 34.5kV circuit Breaker – Controlled Power/Hyundai HVF 38kV
- d) 12kV Circuit Breakers – GE VB1 PowerVac 15kV
- e) Protective Relays –
 - i) SEL-351 Directional overcurrent
 - ii) SEL-387 Transformer Differential Protection
 - iii) SEL-587Z High Impedance Differential Relay
- f) Battery Charger – LaMarche A75D
- g) Battery - C&D Technologies 3DJ-110 flooded lead-acid

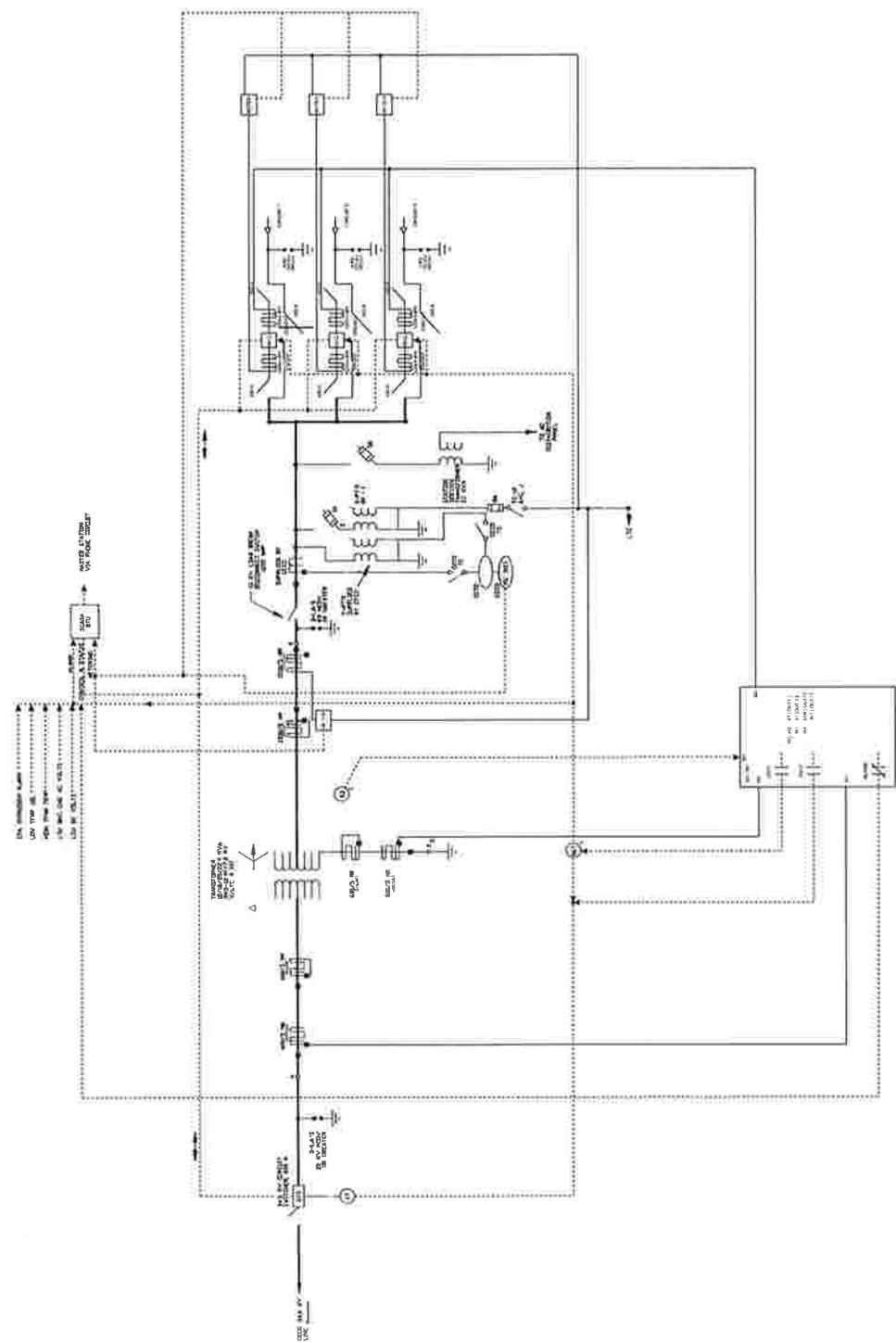
2) Keslinger Road Substation

- a) Power Transformer – ABB 34.5/7.2 kV 12/16/20 MVA
- b) LTC – Reinhausen Type RMT-1 with ASEA type UZDRT drive mechanism
- c) 34.5kV Circuit Switcher – S&C Mark V
- d) 12kV Circuit Reclosures – Cooper OCR
- e) Protective Relays –
 - i) Cooper Form 6 Feeder relays
 - ii) SEL-387 Transformer Differential protection
- f) Battery Charge (to be removed) – La Marche
- g) Battery (to be removed) – C&D Type 4 JC 100

Keslinger Road one-line and drawings

- LEGEND**
- SHUNT TRIP
 - TRANSFORMER SIZING MESSAGE RELAY
 - TRANSFORMER DIFFERENTIAL TRIP RELAY
 - BUSING CURRENT TRANSFORMER
 - ROUND CURRENT TRANSFORMER
 - POTENTIAL TRANSFORMER, SINGLE RATIO
 - LIGHTING ARRESTER
 - CIRCUIT SWITCHER
 - FUSE (AMP SHOWN)
 - 3P CIRCUIT RECLOSER
 - BILLING METERING
 - MRI PULSE INITIATOR

KNOWLEDGE BASE INDEX
 IN THIS DOCUMENT
 ALL INFORMATION IS
 UNCLASSIFIED
 DATE 08-01-2010 BY 60322 UCBAW/BJS



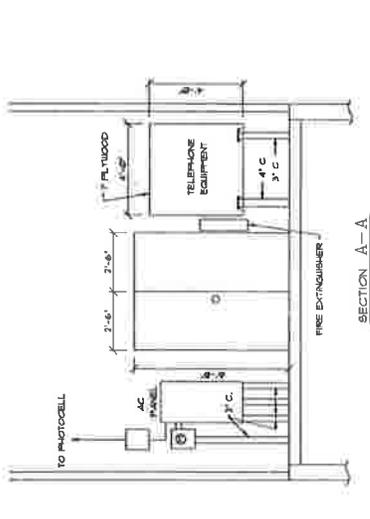
Stanley Consultants Inc.
 100 State Street, Suite 2000
 Boston, MA 02109
 Telephone: (617) 452-2000
 Fax: (617) 452-2001
 E-mail: info@stanley-consultants.com

**KESINGER SUBSTATION
 CITY OF BOSTON, MASS.**

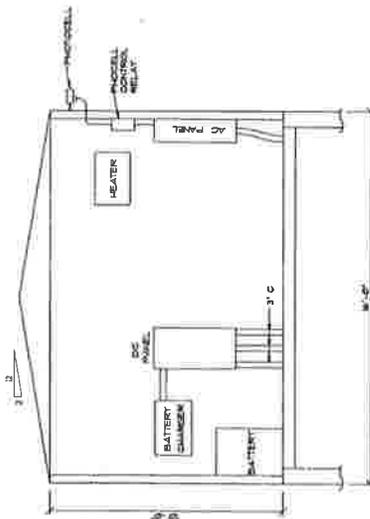
ONE LINE DIAGRAM

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08/01/10	1	JLS	JLS

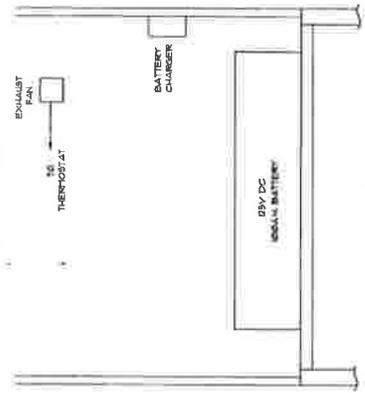
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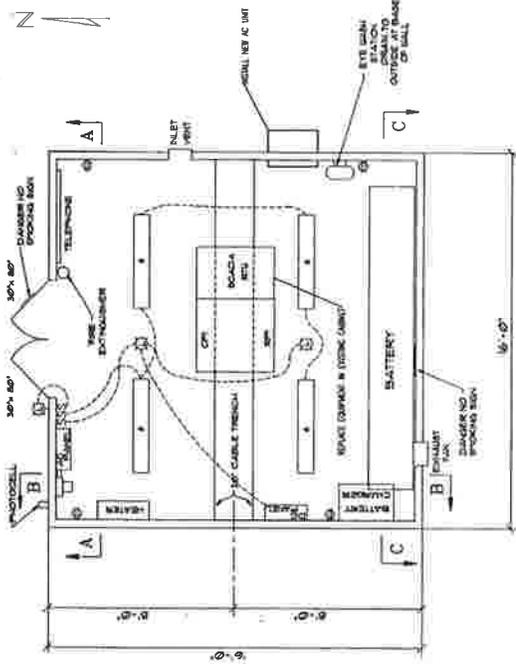
SECTION A-A



SECTION B-B



SECTION C-C



NOTES:

- 1/ CONDUIT CAN BE CONCEALED OR SURFACE MOUNTED.
- 2/ CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONDUIT MODIFICATIONS REQUIRED TO FIT EQUIPMENT.
- 3/ IF METALLIC CONDUIT IS USED, GROUNDING BUSHING WILL BE REQUIRED AT EACH END OF CONDUIT.
- 4/ ALL ELECTRICAL EQUIPMENT AND CABLE TRAYS SHALL HAVE BONDED CONNECTIONS TO GROUND GRID USING MINIMUM SIZE #6 CU WIRE OR EQUIVALENT.

FOR BIDDING PURPOSES, DIMENSIONS SHOWN SHALL BE CONSIDERED AS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL FIELD WORK.

**CONTROL BUILDING
KEBLINGER SUBSTATION
CITY OF GENEVA, IL**

**PSE
POWER
SYSTEM
DESIGNING**

NO.	REVISION	DATE	BY	CHK	APP
1	ISSUE FOR BIDDING	02/27/12	SMITH, A. PALMER	SMITH, A. PALMER	SMITH, A. PALMER
2	REVISED FOR THE RECORD	03/08/12	SMITH, A. PALMER	SMITH, A. PALMER	SMITH, A. PALMER

Stanley Consultants Inc.
200 N. State Street, Suite 1000
Chicago, IL 60601

STT Series Low Maintenance Tubular Flooded Batteries

OPzS 2 Volt Cells (110-3,585 Ah)

SBS has been selling tubular lead-selenium vented batteries for nearly 20 years. SBS was the first company to actively introduce this technology to the US market. The combination of the tubular positive plates and the lead selenium/low antimony alloy provides the best possible combination in lead acid plate technology. The battery world favors tubular positive plates for flooded, gel and AGM applications. STT batteries are manufactured in accordance with OPzS DIN 40736 standards.

Lead Selenium/Low Antimony

By utilizing a small amount of selenium in the grid alloy, a dense fine grain structure is produced. This alloy is extremely corrosion-resistant and virtually eliminates inter-granular corrosion which is one of the most common causes of cell failure. A lead selenium cell combines the advantages of both lead calcium and lead antimony cells while exhibiting none of the disadvantages.

Tubular Positive Plate Advantages

Due to increased positive plate surface area, tubular plates have more electrical capacity than flat plates of comparable size and weight. With positive plate shedding eliminated, tubular batteries also provide up to a 30% longer service life compared to flat plate batteries.

Perhaps most importantly to stationary applications, the tubular positive grid does not require horizontal bars, which virtually eliminates positive plate growth and therefore post seal leaks and jar cracking. As a result, in applications which require a long service life, tubular plate batteries provide the best and most reliable power.



Features

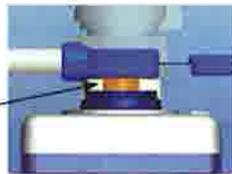
- 20 year design life at 77° F
- Watering intervals: 1-3 years
- Leak-proof post seal
- High cycle life:
 - 1200+ cycles @ 80% DOD
 - 2300+ cycles @ 60% DOD
- 100%+ capacity upon delivery
- No positive plate growth damage
- Tank formed plates
- Safe: zero voltage exposed to personnel
- Flip-top, easy-fill, flame arrestor vent caps
- Withstands high temperature applications better than lead-calcium batteries
- **Many in stock and ready to ship!**

Applications

- Switchgear/Substations
- Power Generation
- Microwave Relay Sites
- Telecommunications
- Solar/Photovoltaic
- Oil and Gas

Option: taller posts available upon request (shown below)

With std. cable, .33" of exposed post for testing



With optional bar, .5" of exposed post for testing



Construction

Positive Plate	Tubular plate with selenium/low antimony alloy (0.34" thick)
Negative Plate	Pasted flat radial structure
Separation	Microporous combined with corrugated separator
Case Material	Styrene-acrylonitrile (SAN), impact resistant
Cover Material	Styrene-acrylonitrile (SAN)
Specific Gravity	1.240 S.G. @ 77° F
Post Design	Leak-proof with brass insert
Intercells	Fully insulated flexible copper cables (uninsulated bars optional)
Vent Caps	Flip-top flame arrestor with dust cap
Temp. Range	-4° to 131° F (68° to 77° F recommended)
Float Voltage	2.23 V/cell
Equalize Voltage	2.33-2.40 V/cell

Technical Data

Part No.	OPzS DIN Std.	8 hr. Ah Rate	Voltage (V)	Cell Dimensions L x W x H (in.)	Weight w/ Electrolyte (lb.)	Electrolyte Weight (lb.)	Electrolyte (Gallons)	# of Poles	Short Circuit Current (Amps)
STT2V100	2 OPzS 100	110	2	4.06 x 8.11 x 16.1	28.8	12.3	1.2	2	1240
STT2V150	3 OPzS 150	165	2	4.06 x 8.11 x 16.1	34.2	11.1	1.1	2	1860
STT2V200	4 OPzS 200	220	2	4.06 x 8.11 x 16.1	39.6	9.90	1.0	2	2380
STT2V250	5 OPzS 250	275	2	4.89 x 8.11 x 16.1	46.2	11.0	1.1	2	3000
STT2V300	6 OPzS 300	330	2	5.71 x 8.11 x 16.1	55.0	13.2	1.3	2	3500
STT2V350	5 OPzS 350	395	2	4.89 x 8.11 x 20.7	61.6	14.3	1.4	2	3300
STT2V420	6 OPzS 420	475	2	5.71 x 8.11 x 20.7	73.7	17.6	1.7	2	3900
STT2V490	7 OPzS 490	550	2	6.54 x 8.11 x 20.7	85.8	22.0	2.1	2	4950
STT2V600	6 OPzS 600	660	2	5.71 x 8.11 x 27.6	102	26.4	2.6	2	4500
STT2V700	7 OPzS 700	755	2	8.27 x 7.52 x 27.6	132	37.5	3.8	4	5350
STT2V800	8 OPzS 800	865	2	8.27 x 7.52 x 27.6	141	35.2	3.4	4	6200
STT2V900	9 OPzS 900	975	2	8.27 x 9.18 x 27.6	161	44.1	4.5	4	6950
STT2V1000	10 OPzS 1000	1090	2	8.27 x 9.18 x 27.6	170	44.0	4.3	4	7750
STT2V1200	12 OPzS 1200	1310	2	8.27 x 10.9 x 27.6	203	52.8	5.1	4	8850
STT2V1375	11 OPzS 1375	1605	2	8.27 x 10.9 x 33.5	244	77.1	7.8	4	8500
STT2V1500	12 OPzS 1500	1755	2	8.27 x 10.9 x 33.5	247	66.0	6.4	4	9000
STT2V1750	14 OPzS 1750	2047	2	8.35 x 15.7 x 32.6	296	78.0	7.5	6	10350
STT2V2000	16 OPzS 2000	2340	2	8.35 x 15.7 x 32.6	330	88.0	8.5	6	12600
STT2V2250	22 OPzS 2250	2630	2	8.35 x 19.2 x 32.6	405	130	13.1	8	16200
STT2V2500	20 OPzS 2500	2920	2	8.35 x 19.2 x 32.6	418	110	10.6	8	14450
STT2V3000	24 OPzS 3000	3585	2	8.35 x 22.7 x 32.6	495	136	13.2	8	18800

Performance Data

Constant current discharge in Amperes to 1.75 V/cell at 77° F

Part No.	1 min.	15 min.	30 min.	1 hr.	1.5 hr.	2 hr.	3 hr.	5 hr.	6 hr.	8 hr.	24 hr.
STT2V100	150	109	80.3	54.6	42.6	35.5	27.2	19.0	16.8	13.7	5.34
STT2V150	225	163	121	81.9	64.0	53.3	40.9	28.5	25.2	20.6	8.01
STT2V200	300	217	161	109	85.3	71.1	54.5	38.0	33.6	27.5	10.6
STT2V250	375	272	201	137	107	88.8	67.9	47.6	41.9	34.2	13.3
STT2V300	450	327	241	164	128	107	81.4	57.1	50.4	41.0	16.0
STT2V350	450	307	246	186	151	128	98.7	69.0	60.0	49.3	19.0
STT2V420	540	369	296	224	181	153	118	82.8	71.1	59.3	22.8
STT2V490	630	430	345	261	212	179	138	96.6	84.0	68.8	26.6
STT2V600	690	456	393	313	258	218	170	117	103	82.5	31.9
STT2V700	805	533	459	365	300	255	200	137	120	94.5	37.2
STT2V800	920	609	524	417	343	291	228	157	137	108	42.5
STT2V900	1035	684	590	470	387	329	256	176	155	122	47.9
STT2V1000	1150	760	656	522	430	365	284	196	172	136	53.2
STT2V1200	1380	913	787	626	515	438	341	235	206	164	63.8
STT2V1375	1458	937	820	666	566	492	391	277	245	201	74
STT2V1500	1620	1022	894	726	617	537	426	302	267	219	82.2
STT2V1750	1890	1118	978	793	674	588	470	337	298	256	95.0
STT2V2000	2160	1277	1118	907	771	672	537	385	341	293	109
STT2V2250	2454	1533	1341	1089	927	806	643	454	401	329	123
STT2V2500	2700	1703	1490	1210	1030	895	714	504	445	365	137
STT2V3000	3240	2042	1789	1451	1236	1071	854	605	534	448	164

Standard STT Kit Includes

- Intercell-connector cables
- Jumper cable(s)
- Flip-top flame arrestor vent caps
- No-oxide grease
- Cell numbers
- Brass wire brush
- Utility funnel
- Installation & Operation Manual



Flip-top, easy-fill, flame arrestor vent caps



Insulated flexible intercell connectors standard. Optional accessories on pages 5 and 6.

SBS reserves the right to change specifications and designs without notice.

Illustrations, data, dimensions and weights given in this brochure are for guidance only and cannot be held binding on the company.

Standard Battery Racks

Zone 0 (Non-Seismic) Racks in Many Configurations.

Our SBS standard racks have been designed for all types of stationary battery models. These easy-to-use racks are strong, have a flexible design, and are acid-proof. Their light, small frame makes them easy to install, move and store.



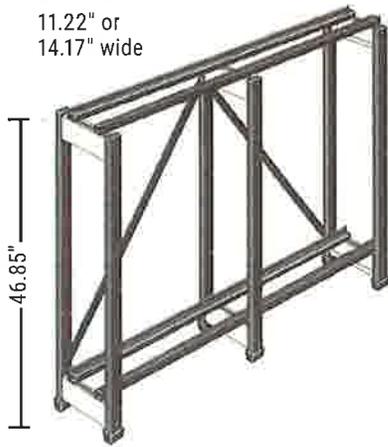
Rails are insulated with black polyethylene

Electrolyte protection: the supports are coated with white epoxy powder.

The upper profile of the rails permits the alignment of the battery during installation.



2-Tier racks
11.22" or
14.17" wide



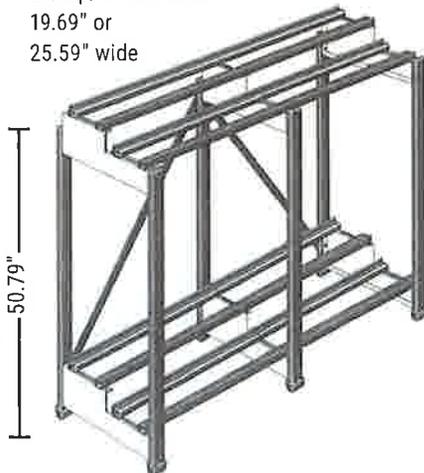
1-Tier racks
8.46" or 11.42" wide



2-Step racks
16.93" or 22.83" wide



2-Step/2-Tier racks
19.69" or
25.59" wide



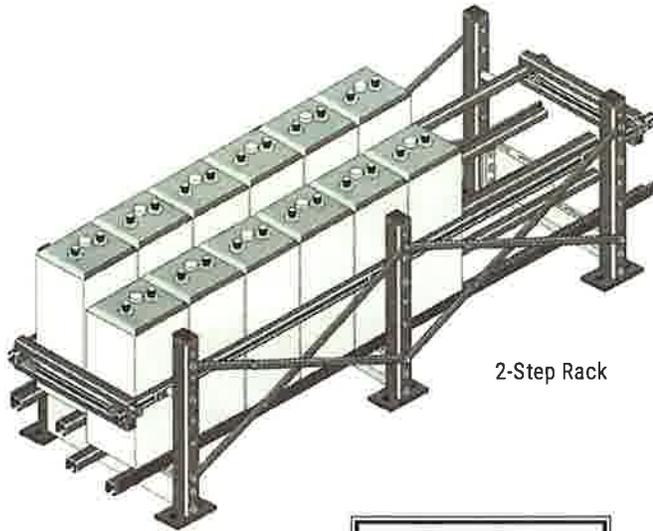
3-Step racks
25.39" or 34.25" wide



Please contact SBS for information on the different rack lengths and designs available.

Seismic Battery Racks

Zone 1 - 4 Racks, Most Available from Stock



2-Step Rack

SBS has many different seismic rack designs available to meet almost all seismic rack requirements. We offer adjustable racks, racks designed specifically for our batteries, and racks that can be used with other manufacturers' batteries. We can custom-design racks when needed.

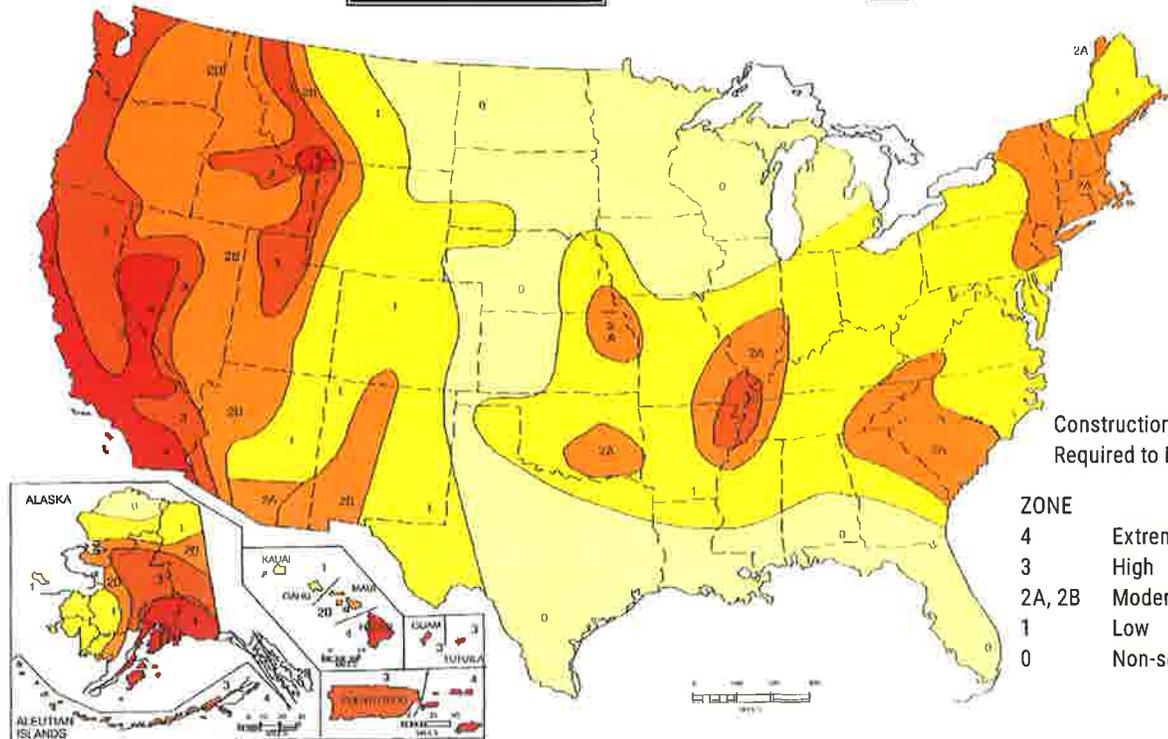
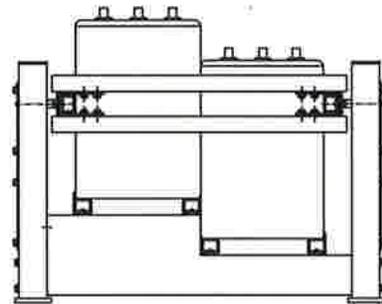
SBS seismic racks are either certified, or built to Seismic Zone 4 IBC/UBC standards.

Available styles

- 2-Step
- 2-Tier
- 2-Step/2-Tier
- 1-Row (1-Tier)
- 2-Row
- Custom



2-Step Rack Profile



Construction Standards Required to Meet Code

ZONE	Construction Standard	Color
4	Extreme	Red
3	High	Orange
2A, 2B	Moderate	Light Orange
1	Low	Yellow
0	Non-seismic	Light Yellow

BATTERY RACKS

Spill Containment Systems

High Density Polyethylene Pans and Neutralizing Pillows

The Uniform Fire Code (UFC) Article 64, Section 104.d and 104.e requires lead acid battery installations with more than 100 gallons of electrolyte be equipped with a "liquid-tight" spill-control barrier system. It also requires an approved method, capable of neutralizing a spill from the largest lead acid battery.

In response to these new requirements, SBS offers a spill containment system solution. SBS's system is quick and easy to install with new battery racks.

Features

- Welded 5/16" thick HDPE pans in multiple sizes
- 12" x 12" Flame retardant acid absorbing/neutralizing pillows (10" x 10" NiCd pillows available as an option)
- Complies with EPA, OSHA, and Uniform Fire Code 64
- Acid tight, 4" tall barrier protects from corrosion
- Quick and easy installation
- Cost effective solution to electrolyte spills
- Custom sizes available

How Our System Works

- SBS stocks different size spill pans that can be placed together in multiple combinations to form different spill containment system lengths and widths.
- We provide pillows and connectors that hold the pans together.
- Your rack will fit inside our spill containment system. If you are mounting the racks to the floor, you drill through the pans where needed and silicone the bolt and hole to provide a 100% leak-proof system.

12 in. Wide Spill Containment Systems			23 in. Wide Spill Containment Systems			25 in. Wide Spill Containment Systems		
Part No.	Size L x W x H (in.)	# of Pillows	Part No.	Size L x W x H (in.)	# of Pillows	Part No.	Size L x W x H (in.)	# of Pillows
SC23-12P2	23 x 12 x 4	2	SC37-23P6	37 x 23 x 4	6	SC23-25P4	23 x 25 x 4	4
SC28-12P2	28 x 12 x 4	2	SC42-23P6	42 x 23 x 4	6	SC28-25P4	28 x 25 x 4	4
SC34-12P3	34 x 12 x 4	3	SC49-23P8	49 x 23 x 4	8	SC34-25P6	34 x 25 x 4	6
SC46-12P4	46 x 12 x 4	4	SC50-23P8	50 x 23 x 4	8	SC46-25P8	46 x 25 x 4	8
SC51-12P4	51 x 12 x 4	4	SC54-23P8	54 x 23 x 4	8	SC51-25P8	51 x 25 x 4	8
SC57-12P5	57 x 12 x 4	5	SC62-23P10	62 x 23 x 4	10	SC57-25P10	57 x 25 x 4	10
SC62-12P5	62 x 12 x 4	5	SC67-23P10	67 x 23 x 4	10	SC62-25P10	62 x 25 x 4	10
SC68-12P5	68 x 12 x 4	5	SC75-23P12	75 x 23 x 4	12	SC68-25P10	68 x 25 x 4	10
SC74-12P6	74 x 12 x 4	6	SC79-23P12	79 x 23 x 4	12	SC74-25P12	74 x 25 x 4	12
SC84-12P7	84 x 12 x 4	7	SC84-23P14	84 x 23 x 4	14	SC84-25P14	84 x 25 x 4	14
SC90-12P7	90 x 12 x 4	7	SC92-23P14	92 x 23 x 4	14	SC90-25P14	90 x 25 x 4	14
SC96-12P8	96 x 12 x 4	8	SC96-23P16	96 x 23 x 4	16	SC96-25P16	96 x 25 x 4	16
SC102-12P8	102 x 12 x 4	8	SC104-23P16	104 x 23 x 4	16	SC102-25P16	102 x 25 x 4	16
SC107-12P9	107 x 12 x 4	9	SC109-23P18	109 x 23 x 4	18	SC107-25P18	107 x 25 x 4	18
SC114-12P10	114 x 12 x 4	10	SC121-23P20	121 x 23 x 4	20	SC114-25P20	114 x 25 x 4	20
SC119-12P10	119 x 12 x 4	10	SC126-23P20	126 x 23 x 4	20	SC119-25P20	119 x 25 x 4	20
SC125-12P10	125 x 12 x 4	10	SC134-23P22	134 x 23 x 4	22	SC125-25P20	125 x 25 x 4	20
SC130-12P10	130 x 12 x 4	10	SC138-23P22	138 x 23 x 4	22	SC130-25P20	130 x 25 x 4	20
SC136-12P11	136 x 12 x 4	11	SC142-23P22	142 x 23 x 4	22	SC136-25P22	136 x 25 x 4	22
SC148-12P12	148 x 12 x 4	12	SC151-23P24	151 x 23 x 4	24	SC148-25P24	148 x 25 x 4	24
SC159-12P13	159 x 12 x 4	13	SC168-23P28	168 x 23 x 4	28	SC159-25P26	159 x 25 x 4	26
SC164-12P13	164 x 12 x 4	13	SC176-23P30	176 x 23 x 4	30	SC164-25P26	164 x 25 x 4	26
SC170-12P14	170 x 12 x 4	14	SC180-23P30	180 x 23 x 4	30	SC170-25P28	170 x 25 x 4	28
SC198-12P17	198 x 12 x 4	17	SC193-23P32	193 x 23 x 4	32	SC198-25P34	198 x 25 x 4	34
SC221-12P19	221 x 12 x 4	19	SC217-23P36	217 x 23 x 4	36	SC221-25P38	221 x 25 x 4	38



SC67-28P10 - Example System

Above system consists of:

- A: Qty. 1 42" x 28" x 4" pan
- B: Qty. 1 25" x 28" x 4" pan
- C: Qty. 1 27" connector
- D: Qty. 10 12" x 12" pillows

28 in. Wide Spill Containment Systems		
Part No.	Size L x W x H (in.)	# of Pillows
SC37-28P6	37 x 28 x 4	6
SC42-28P6	42 x 28 x 4	6
SC49-28P8	49 x 28 x 4	8
SC50-28P8	50 x 28 x 4	8
SC54-28P8	54 x 28 x 4	8
SC62-28P10	62 x 28 x 4	10
SC67-28P10	67 x 28 x 4	10
SC75-28P12	75 x 28 x 4	12
SC79-28P12	79 x 28 x 4	12
SC84-28P14	84 x 28 x 4	14
SC92-28P14	92 x 28 x 4	14
SC96-28P16	96 x 28 x 4	16
SC104-28P16	104 x 28 x 4	16
SC109-28P18	109 x 28 x 4	18
SC121-28P20	121 x 28 x 4	20
SC126-28P20	126 x 28 x 4	20
SC134-28P22	134 x 28 x 4	22
SC138-28P22	138 x 28 x 4	22
SC142-28P22	142 x 28 x 4	22
SC151-28P24	151 x 28 x 4	24
SC168-28P28	168 x 28 x 4	28
SC176-28P30	176 x 28 x 4	30
SC180-28P30	180 x 28 x 4	30
SC193-28P32	193 x 28 x 4	32
SC217-28P36	217 x 28 x 4	36

34 in. Wide Spill Containment Systems		
Part No.	Size L x W x H (in.)	# of Pillows
SC37-34P9	37 x 34 x 4	9
SC42-34P9	42 x 34 x 4	9
SC49-34P12	49 x 34 x 4	12
SC50-34P12	50 x 34 x 4	12
SC54-34P12	54 x 34 x 4	12
SC62-34P15	62 x 34 x 4	15
SC67-34P15	67 x 34 x 4	15
SC75-34P18	75 x 34 x 4	18
SC79-34P18	79 x 34 x 4	18
SC84-34P21	84 x 34 x 4	21
SC92-34P21	92 x 34 x 4	21
SC96-34P24	96 x 34 x 4	24
SC104-34P24	104 x 34 x 4	24
SC109-34P27	109 x 34 x 4	27
SC121-34P30	121 x 34 x 4	30
SC126-34P30	126 x 34 x 4	30
SC134-34P33	134 x 34 x 4	33
SC138-34P33	138 x 34 x 4	33
SC142-34P33	142 x 34 x 4	33
SC151-34P36	151 x 34 x 4	36
SC168-34P42	168 x 34 x 4	42
SC176-34P45	176 x 34 x 4	45
SC180-34P45	180 x 34 x 4	45
SC193-34P48	193 x 34 x 4	48
SC217-34P54	217 x 34 x 4	54

42 in. Wide Spill Containment Systems		
Part No.	Size L x W x H (in.)	# of Pillows
SC23-42P6	23 x 42 x 4	6
SC28-42P6	28 x 42 x 4	6
SC34-42P9	34 x 42 x 4	9
SC46-42P12	46 x 42 x 4	12
SC51-42P12	51 x 42 x 4	12
SC57-42P15	57 x 42 x 4	15
SC62-42P15	62 x 42 x 4	15
SC68-42P15	68 x 42 x 4	15
SC74-42P18	74 x 42 x 4	18
SC84-42P21	84 x 42 x 4	21
SC90-42P21	90 x 42 x 4	21
SC96-42P24	96 x 42 x 4	24
SC102-42P24	102 x 42 x 4	24
SC107-42P27	107 x 42 x 4	27
SC114-42P30	114 x 42 x 4	30
SC119-42P30	119 x 42 x 4	30
SC125-42P30	125 x 42 x 4	30
SC130-42P30	130 x 42 x 4	30
SC136-42P33	136 x 42 x 4	33
SC148-42P36	148 x 42 x 4	36
SC159-42P39	159 x 42 x 4	39
SC164-42P39	164 x 42 x 4	39
SC170-42P42	170 x 42 x 4	42
SC198-42P50	198 x 42 x 4	50
SC221-42P56	221 x 42 x 4	56

Delnor Substation one-line and drawings

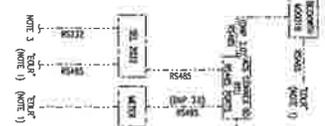
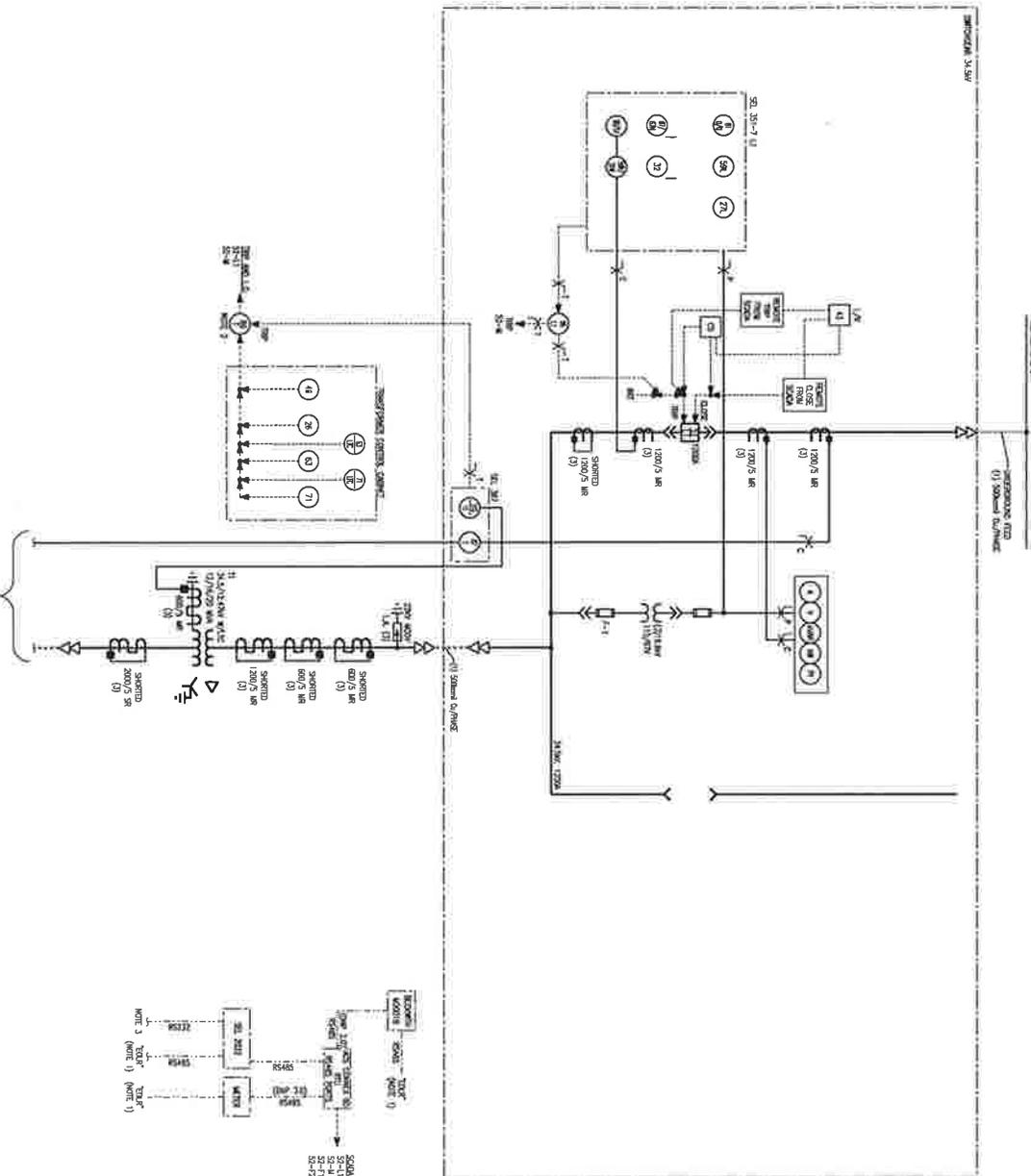
- DEVICE LEGEND:**
- CS CONTACT SWITCH (LOCK AT OPEN)
 - UNLAMP ARRESTOR
 - UTILITY METERING REGULATION
 - INTERMEDIATE OR TRANSFER RELAY
 - LINE DISCONNECT RELAY
 - REVERSE POWER RELAY
 - TRANSFER/SELECTION DEVICE

- 98 TRANSFERRED SOURCE TRANSFER RELAY
- 99/101 NON-TRANSFERRED SOURCE TRANSFER RELAY
- 50/51/51H REVERSE, REVERSE/STOP, THE OVERCURRENT RELAY
- 51G TRANSFERRED SOURCE GROUND THE OVERCURRENT RELAY
- 52 CIRCUIT BREAKER
- 9A LINE DISCONNECT RELAY
- 9B TRANSFERRED SOURCE REVERSE RELAY
- 9C DETECTOR, DETECTOR RELAY
- 9D TRANSFERRED TO LINE RELAY
- 9E RECEIVING REVERSE RELAY
- 9F 50V DETECTOR/UNDERCURRENT RELAY

- 86 LOCKOUT RELAY
- 87 DIFFERENTIAL PROTECTION RELAY
- 88 REVERSE TEST SWITCH
- 89 CIRCUIT TEST SWITCH (CIRCUIT TRIP)
- 90 STOP TEST SWITCH

- FEED:**
- FEED FROM TRANSFORMER SHED-OUT
 - FEED TRANSFORMER
 - CIRCUIT BREAKER (SHED-OUT)

- CHART TRANSFORMER TO USE SECTION
- CURRENT TRANSFORMER
- MEASURING TRANSFORMER



- NOTES:**
- 1 ADD END OF LINE METERING (CT/PT) AS REQUIRED BY RELAYS
 - 2 ALL RELAYS TO BE INSTALLED WITH THE SUPPLIER
 - 3 ALL RELAYS TO BE INSTALLED WITH THE SUPPLIER

Stanley Consultants Inc.

1000 GERRARD STREET EAST, SUITE 1000
 TORONTO, ONTARIO M4M 1B7
 TEL: (416) 461-1000
 FAX: (416) 461-1001
 WWW: STANLEYCONSULTANTS.COM

ONE-LINE DIAGRAM SHEET 1

DATE: 07/20/00 10:00 AM

SCALE: AS SHOWN

NO. SHEET: 1

TOTAL SHEETS: 1



Proposal # 814367

August 11, 2017

City of Geneva
1800 South Street
Geneva, IL 60134

Attn: Aaron Holton
Subject: 814367 City of Geneva Substation Maintenance
Reference:

Dear Aaron:

CE Power appreciates this opportunity to be of service to City of Geneva. Per the above referenced subject, we submit the following for your consideration. CE Power (CEP) will provide the required technical labor, supervision, basic equipment, consumable materials and engineering services to perform the following scope of work:

WORK SCOPE

Liquid Filled Transformers

Visual/Mechanical

- Visually inspect tank, bushings, pad, and auxiliary devices
- Record all nameplate data and gauge readings
- Clean bushings and gauges
- Torque all accessible bolted electrical connections
- Check tightness of bolts at any leaks. Tighten if possible, clean oil residue

Electrical Test

- Perform dielectric absorption test winding to winding and windings to ground. Calculate and record polarization index for all tests
- Measure turns ratio
- Sample insulating liquid and perform the following ASTM tests:
 - Dielectric breakdown
 - Neutralization number
 - Interfacial tension
 - Visual/Color
 - Moisture content
 - Dissolved Gas Analysis (DGA)
 - Power factor
- Overall Capacitance test
- Insulation Resistance test
- Bushing Power Factor and Capacitance test

- Rapid Pressure Rise, Pressure relief valves, and alarm contacts
- Verify proper operation of Rapid Pressure Rise, Pressure relief valve, and alarm contacts

Load Tap Changer

Visual inspection

- Visually inspect exterior, control cabinet, control devices, and indicating devices.
- Record all nameplate data, maximum and minimum tap range, and oil level.
- Torque all accessible connections.
- All oil drained and filtered
- Open tank for a visual inspection of the LTC mechanism and contacts.
- Perform required manufacturer's maintenance items.
- Tank resealed and filled to appropriate level with dielectric oil.
 - Fill with filtered oil if the oil passes dielectric test
 - Fill with **new oil provided by the owner**, tested, dielectric oil if filtered oil does not pass dielectric test

Electrical Tests

- Perform turns ratio test on each tap.
- Perform excitation test on taps +16 through -16.
- Perform winding resistance test on taps +16 through -16.
- Sample oil and perform ASTM screen test to consist of:
 - Dielectric Breakdown
 - Interfacial Tension
 - Visual/Color
 - Neutralization Number
 - Moisture Content
 - Dissolved Gas Analysis

Keslinger Road Oil Cooling Fin option

- Clean, inspect and repaint transformer oil cooling fins due to surface corrosion.
 - This item is priced as optional.

Protective Relays

Visual/Mechanical

- Record model number, firmware version, software revision and rated control voltage.
- Download all events and settings
- Verify operation of LED's, display and targets.
- Clean and inspect.
- Torque all electrical connections on relay and case.

Electrical Tests

- Apply proper voltages and/or currents and verify registration of the relay meter functions.
- Verify proper operation of all digital inputs

- Check all output contacts

Breakers and Circuit Switchers

Visual/ Mechanical

- Visually inspect circuit breaker and cubicle. Check alignment of breaker in cubicle. Verify proper operation of racking mechanism and shutter.
- Record all nameplate data.
- Thoroughly clean breaker and cubicle. Apply proper lubrication where required.
- Exercise breaker mechanisms and check for proper operation.

Electrical Tests

- Measure contact resistance of each phase.
- Measure insulation resistance pole to pole and pole to ground.
- Verify proper operation of breaker closing and tripping circuits by operating controls and relays.
- Perform over-potential test on each vacuum bottle per manufacturer's instructions.
- Perform complete time/motion analysis of the breaker.
- Measure contact resistance of each phase

Keslinger Substation

- Installation of S&C Latch Housing Assembly with Trip Assist Retrofit Kit to the 34.5 kV Mark V circuit switcher and CS-1A switch operator.

Delnor Substation

- Upload new settings for Hot Line Tag protection and test settings.
- Verify proper operation of SEL-387 relay with updated ground fault detection settings.

Battery Systems

Visual/Mechanical

- Visually inspect each cell, battery rack, and battery charger.
- Clean all cells, racks, and charger.
- Record all nameplate data from batteries and charger.
- Torque all accessible connections inside battery charger.

Electrical Tests

- Measure float voltage at each battery terminal.
- Perform battery impedance test.
- Measure intercell connection resistance.
- Measure specific gravity of electrolyte of each cell (non-sealed batteries only).
- Add electrolyte as necessary.
- Verify proper float and equalize charge voltages. Adjust as necessary.
- Apply equalization charge, if necessary.

EQUIPMENT COVERED - SUBSTATION MAINTENANCE

Delnor Substation

- Power Transformer – Virginia Transformer 34.5/7.2kV 12/16/20MVA
- LTC – Reinhausen Type RMV-A
- 34.5kV circuit Breaker – Controlled Power/Hyundai HVF 38kV
- 12kV Circuit Breakers – GE VB1 PowerVac 15kV
- Protective Relays –
 - SEL-351 Directional overcurrent
 - SEL-387 Transformer Differential Protection
 - SEL-587Z High Impedance Differential Relay
- Battery Charger – LaMarche A75D
- Battery - C&D Technologies 3DJ-110 flooded lead-acid

Keslinger Road Substation

- Power Transformer – ABB 34.5/7.2 kV 12/16/20 MVA
- LTC – Reinhausen Type RMT-1 with ASEA type UZDRT drive mechanism
- 34.5kV Circuit Switcher – S&C Mark V
- 12kV Circuit Reclosures – Cooper OCR
- Protective Relays –
 - Cooper Form 6 Feeder relays
 - SEL-387 Transformer Differential protection
- Battery Charge (to be removed) – La Marche
- Battery (to be removed) – C&D Type 4 JC 100

KESLINGER ROAD STATION BATTERY REPLACEMENT

The station standby battery and charger will be removed and the flooded cell batteries will be recycled per IEPA regulations.

The new 8 hour 120 volt 100 amp/hour battery, rack, spill containment and charger shall be as follows:

1) Battery Manufacturer

Shall be Storage Battery Systems. Model Number **STT2V100 or equal** with the following accessories;

- Fully insulated flexible copper intercell connector/cable shall be included (one per cell/battery)
- Flip-top flame arrestor vent caps with dust cap shall be provided (one per cell)
- No-Oxide grease
- One set of cell numerals
- Brass wire brush
- 8oz funnel
- Installation, Operation and Maintenance Manual

2) Battery rack

Rack shall be of two- step design.

3) Spill Containment System

Shall be constructed of polyethylene pans to allow battery rack to be contained within the containment and flame retardant acid absorbing/neutralizing pillows.

4) Charger

Manufacturer shall be La Marche model number **TPSD-25-130V-ABD1-60L or equal**

- 120/240/208V Single Phase AC Input
- 25 Ampere, 130 VDC Output
- Set to charge a 60 cell lead acid battery

SCHEDULING AND STAFFING

Proposed Preliminary Schedule:

Per City of Geneva Published Schedule

Proposed Preliminary Staffing Requirements:

As Required to Complete within the Schedule

PROJECT COST

The cost to perform the above outlined project during normal working hours 7:30 am to 4:00 pm Monday thru Friday is as follows:

SEE PRICING SHEET

SPECIAL CONSIDERATIONS

CE Power Solutions is a Professional Service Organization that provides Engineering, Project Management, Procurement, Commissioning, Preventive Maintenance, and Predictive Maintenance solutions on large or complex electrical projects. CE Power employees are Drug Free and OSHA safety trained.

TERMS

Standard CE Power Terms and Conditions apply.
Terms: Net 30 days

Freight: Prepay and Add
FOB: Factory
Delivery: Per City of Geneva Schedule
This proposal is valid for 60 days.

PROPOSAL ACCEPTANCE INFORMATION

Upon acceptance of this proposal, please send contract/purchase order to:

CE Power Solutions, LLC
Attn: Troy Mielak
4040 Rev Drive
Cincinnati, OH 45232
Fax: 513.887.0842
Email: info@cepower.net

We appreciate this opportunity and please feel free to contact us with any questions, concerns or clarifications.

Sincerely,

Troy Mielak
Sales Representative

cc:

Standard Contingencies:

Contingency Clause – if during the course of Field Testing and Maintenance Services, any unforeseen problems or conditions arise which may require immediate attention and will require utilizing additional man-hours and/or material/components outside the original, agreed upon Specifications or Scope of Work: these costs will be brought to the immediate attention of the Client's authorized personnel for written approval before proceeding.

Demobilization/Job Cancellation – if, within 24 hours of schedule Field Service Work, the customer cancels the job, CE may charge for all mobilization and de-mobilization costs, set-up, hourly labor rates and loss of opportunity expenses.

Delay Clause – for Firm Bid Purchase requisitions, any disruption to the normal progression of the Field Testing and Maintenance Services caused by the Client production, facilities or personnel resulting in the inability to perform Field Testing and Maintenance Services will be charged, in addition to the base price, as stated on the Hourly Rate Schedule after ½ hour delay.

Weather-related or natural disaster-related disruptions or cancellations will be charged up to the next billable hour while on-site. Expenses, diems and mobilizations will be charged through the following travel day.

Onsite Substation Clause – CE Power requires a minimum advance notice of 5 working days prior to commencement of work. Advance notice of less than 5 working days for scheduling of work will be subject to price escalation depending on the nature of work to be performed.

Required Client Information for installed of existing installations – The pricing and timeline quoted is based upon receipt of complete and accurate client information required to carry out of the scope of work specified. This includes, but is not limited to installation and equipment drawings, diagrams, specifications, pictures or other pertinent information relating to the work to be performed. Except as otherwise noted within the proposal and contract, CE Power assumes that all such material will be made immediately available for use in executing the scope of work. Failure or delay in providing such information could result in delay of project and/or additional charges to be incurred.

Repair/Remanufacture Contingency – Any equipment that is repaired or remanufactured (including but not limited to circuit breakers and transformer rectifier units), and in which the control equipment is not replaced with NEW, will not be covered under standard CE Power warranty.

Taxes and Permitting Fees – Unless otherwise explicitly stated in this proposal, applicable taxes and permitting fees are not included in this proposal. If so desired, please contact CE Power Solutions, LLC.

This proposal is considered proprietary in nature, intended for the sole use of the entity addressed above, and as such is not intended for general public distribution.