

CLERK'S CONTRACT and AGREEMENT COVER PAGE

Legistar File ID#: 2021-0729

Innoprise Contract #: C21-0168

Year: 2021

Amount: \$196,892.36

Department: Public Works

Contract Type: Contractor

Contractors Name: CORE Construction Services of Illinois, Inc.

Contract Description: Elevated Tank No. 7 Electrical Improvements



**AGREEMENT BETWEEN THE VILLAGE OF ORLAND PARK AND
CORE Construction Services of Illinois, Inc. FOR Elevated Tank No. 7 Electrical Improvements**

THIS AGREEMENT (hereinafter, the "Agreement" or the "Contract") is made the 7th day of December, 2021, by and between the Village of Orland Park (hereinafter referred to as "VILLAGE") and CORE Construction Services of Illinois, Inc. (hereinafter referred to as "Contractor") to furnish all materials, supplies, tools, equipment, labor, and perform other services necessary to commence and complete the Work in connection with the Elevated Tank No. 7 Electrical Improvements (hereinafter referred to as "Project", the "Work", or the "Services").

WITNESSETH:

In consideration of these premises and the mutual covenants set forth herein by the Village and the Contractor (hereinafter referred to collectively as the "Parties"), the Parties agree as follows:

1. Scope of Work: The Contractor agrees to and shall timely perform and fully complete the "Scope of Work" as set forth in:

- ☒ The Contractor's Proposal OMNIA Partner Contract No. R200103, and dated September 27, 2021; and/or
☐ Village of Orland Park ITB/RFP/Purchase Order No. _____

which is/are attached hereto and made a part of this Agreement as Exhibit A (the "Work" or the "Project"). The terms, conditions and specifications set forth in Village's Request for Proposal ("RFP"), Invitation To Bid ("ITB") and/or Purchase Order and any other Village document shall supersede, govern, and prevail over any inconsistent terms, conditions, and/or specifications on any other documents submitted by the Contractor. Any provisions in the Contractor's Proposal or Bid or other submittals which are in conflict with or inconsistent with any of the same provisions in the Village's RFP, ITB, and/or Purchase Order shall be void to the extent of such conflict or inconsistency and the terms of the Village's RFP, ITB, and/or Purchase Order shall control.

2. Payment:

- A. Compensation: The Village agrees to pay the Contractor as compensation for all Work required by this Agreement as follows:

- ☒ the amount(s) set forth on Exhibit A (the "Contractor's Proposal");
☐ the amount(s) based upon Schedule of Fees or Prices set forth on Exhibit B attached hereto and thereby made a part hereof; and
☐ a not-to-exceed amount of \$196,892.36 ("Contract Price")
☒ a not-to-exceed Proposal or Bid amount of \$180,092.36, plus \$16,800.00 contingency which may not be spent without prior written approval by the Village through a Change Order Request, for a total amount not-to-exceed \$196,892.36 ("Contract Price")

- (i) It is expressly understood and agreed to by both Parties that in no event shall the total amount to be paid by the Village for the complete and satisfactory performance of services, under this Agreement exceed \$196,892.36 without prior approval by the Village. Said price shall be the total compensation for Contractor's performance hereunder including, but not limited to, all work, deliverables, materials, supplies, equipment, subcontractor's fees, and all reimbursable travel and miscellaneous or incidental expenses to be incurred by Contractor. In the event the Contractor incurs cost in excess of the sum authorized for service under this Agreement for items under Contractor's control or for items the Contractor reasonably should have foreseen, the Contractor shall pay such excess from its own funds,

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and the Village shall not be required to pay any part of such excess, and the Contractor shall have no claim against the Village on account thereof. For the avoidance of doubt, in no event shall Contractor be entitled to receive more than this not-to-exceed amount and this amount includes all costs incurred by Contractor in connection with the work and services authorized hereby, including, but not limited to: (i) any known or unknown and/or unexpected condition(s) which the Contractor reasonably should have foreseen; (ii) any and all unforeseen difficulties within the Contractor's control; (iii) any unanticipated rises in the cost of labor, materials or equipment, changes in market or negotiating conditions, and errors or omissions made by others; (iv) the character of the work and/or services to be performed; and (v) any overrun in the time or cost necessary for the Contractor to complete the work due to any causes, within or beyond its control. In the event of causes outside the Contractor's control which may include conditions which the Contractor could not reasonably foresee (e.g. changes associate with ComEd existing service or required service modification) or which may include force majeure or "Acts of God" events, the Contractor shall be entitled to equitable accommodation in the Contract Price and/or Completion Date which the Contractor and Village negotiate in good faith.

- B. Invoices: The Contractor agrees to and shall prepare and submit:
- ☐ an invoice to the Village upon completion of and approval by the Village of the Work; or
 - ☒ invoice for progress payments to the Village as hereinafter set forth for Services completed to date. Invoices shall be prepared monthly and shall document the time/hours expended as the Work is completed to date by the Contractor.
- C. Payment: Notwithstanding any provision of the Illinois Local Government Prompt Payment Act (50 ILCS 505/1, et seq.) (the "Act") to the contrary, the Parties agree that any bill approved for payment by the Corporate Authorities shall be paid within sixty (60) days after the date of approval. If payment is not made within such sixty (60) day period, an interest penalty of 1% of any amount approved and unpaid shall be added for each full thirty (30) day period, without proration, after the expiration of the aforementioned sixty (60) day payment period, until final payment is made. No other provision of the Act shall apply to this contract.
- D. Withholding Payment: Notwithstanding anything to the contrary herein contained, no compensation will be paid to or claimed by the Contractor for services required to correct deficiencies attributable to errors or omissions of the Contractor t, and all such errors or omissions must be corrected by the Contractor at their sole cost and expense. Notwithstanding anything to the contrary herein contained, the Village has the right to withhold from payment due the Contractor such sums as are reasonably necessary to protect the Village against any loss or damage which may result from: (i) the negligence of or unsatisfactory Services of the Contractor; (ii) the failure by the Contractor to perform the Contractor's obligations hereunder; or (iii) claims filed against the Village relating to the Services. Any sums withheld from the Contractor as provided in this section, and subsequently determined to be due and owing to the Contractor, will be paid to the Contractor.
- E. Appropriation of Funds: The Parties hereto agree that, if the term of this Agreement extends beyond the current fiscal year of the Village (the current fiscal year being the year in which the first date of the term of this Agreement falls), this Agreement is subject to the appropriation of funds by the Village Board of Trustees and/or any other funding agencies for each subsequent year. If the Village, and/or any other governmental agency providing funding for this Service, fails to make such an appropriation, the Village may terminate this Agreement and the Contractor will be entitled to receive, as its sole and exclusive remedy, compensation for Services properly performed to the date of termination to the extent the Village has funds available and appropriated to pay the Contractor such amount. Upon the request of the Contractor, the Village will inform the Contractor as to whether any governmental agency other than the Village is providing funding to pay all or a portion of the Services.
- F. Records: The Contractor's records relating to the Services must be kept in accordance with generally accepted principles of accounting consistently applied and must be retained by the Contractor for a period

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of not less than five (5) years following the completion of the Services. Such records must be available to the Village or any authorized representative of the Village, upon reasonable prior notice, for audit and review during normal business hours at the Village offices, 14700 S. Ravinia Ave. Orland Park, IL 60462. In addition, such records must be available, upon reasonable prior notice, for audit and review by any other governmental agency providing funding for all or any portion of this Service.

3. Performance and Payment Bond: If the Contract Price is over \$50,000.00, prior to commencement of any Work on the Project, the Contractor shall provide to the Village a Performance and Payment Bond in compliance with the Public Construction Bond Act (30 ILCS 550/1, et seq.) and the Contract Documents.

A. Performance Bond: Guarantee to the Village that the vendor will perform its contractual obligations in accordance with the plans and specifications. The awarded contractor, within ten (10) days of the award of the contract by the Village of Orland Park, will be required to submit to the Village a Performance or Surety Bond, the value of the bond being equal to the total contract price, including any additional equipment and services hereto. The amount of the bond, the value of the bond being equal to the total contract price, among other conditions, shall be conditioned for the completion of the contract, for the payment of material used in the work and for all labor performed in the work, whether by subcontractor or otherwise. The bond must comply with the provisions found in the Illinois Revised Statutes. The cost of executing the bond, contract, and other documents required including all notarial fees and expenses are to be paid by the contractor to whom the contract is awarded. The surety on the bond shall be a company that is licensed by the Illinois Department of Insurance authorizing it to execute surety bonds and the company shall have a financial strength rating of at least A- as rated by A.M. Best Company, Inc., Moody's Investors Service, Standard & Poor's Corporation, or a similar rating agency.

B. Labor and Material Payment Bond: Ensure that subcontractors and material suppliers are paid according to contract. These bonds are typically used in conjunction with performance bonds. The awarded contractor, within ten (10) days of the award of the contract by the Village of Orland Park, will be required to submit to the Village a Labor and Material Payment Bond, the value of the bond being equal to the total contract price. The bond must comply with the provisions found in the Illinois Revised Statutes. The cost of executing the bond, contract, and other documents required including all notarial fees and expenses are to be paid by the contractor to whom the contract is awarded. The surety on the bond shall be a company that is licensed by the Illinois Department of Insurance authorizing it to execute surety bonds and the company shall have a financial strength rating of at least A- as rated by A.M. Best Company, Inc., Moody's Investors Service, Standard & Poor's Corporation, or a similar rating agency.

4. Contract Documents: The term "Contract Documents" means and includes, but is not limited to, this Agreement and the following, which are each attached hereto and thereby made a part hereof:

- ☒ Scope of Services as set forth in the Contractor's proposal dated September 27, 2021 and the Village's RFP, ITB, and/or Purchase Order Exhibit A)
☐ Schedule of Fees (Exhibit B)

In the event of any conflict between this Agreement and any other Contract Document, this Agreement shall prevail and control over the terms and conditions set forth in such other Contract Documents.

5. Time is of the Essence; Dates of Commencement and Completion; Progress Reports:

A. Time is of the essence in this Contract. The Services to be performed by the Contractor under the Contract Documents shall commence upon execution of this agreement (hereinafter the "Commencement Date").

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Work on site shall commence upon availability of materials as determined once product data submittals have been approved and material orders placed with the expectation of work commencing on site within twenty-one (21) days of an executed agreement in place and dependent upon material availability. Due to expected long lead time material availability, Substantial Completion is expected by April 29, 2022 and Final Completion by May 13, 2022 (hereinafter the "Completion Date"), barring only Acts of God or unexpected material delays outside of the Contractor's control, due to which the Completion Date may be modified in writing with the prior approval of the Village. If the Contractor fails to complete the Services by the Completion Date, the Village shall thereafter have the right to have the Services completed by another independent contractor, and in such event, the Village shall have the right to deduct the cost of such completion so incurred by the Village from payments otherwise due to the Contractor for the Services and/or the right to recover any excess cost of completion from the Contractor to the extent that the total cost incurred by the Village for the completion of the Work which is the subject of the Contract Documents exceeds the Contract Price.

B. Progress Reports: The Contractor must prepare and submit monthly progress reports describing the Services performed in the prior month and anticipated to be performed in the following one-month period. The Services schedule shall insure that each of the Services provided being completed within a timeframe that does not negatively impact the Village's compliance any federal, state, or local regulations (if applicable).

6. Venue and Choice of Law: The Contractor and the Village agree that the venue for any and all disputes shall solely be in Cook County, Illinois, in which the Village's Village Hall is located. This Contract and all other Contract Documents shall be construed and interpreted in accordance with the laws of the State of Illinois.
7. Nonassignability: The Contractor shall not assign this Contract, or any part thereof, to any other person, firm, or corporation without the prior written consent of the Village, and in no case shall such consent relieve the Contractor or its surety from the obligations herein entered into by the same or change the terms of this Contract.
8. Notices: All notices required by the Contract Documents shall be given in writing and shall be served by one party to the other party via email (effective when transmitted), facsimile (effective when transmitted), personal delivery (effective when delivered), commercial overnight delivery (effective when delivered), or by mail (effective when mailed).
9. Right to Alter Scope of Services Reserved: The Village reserves the right to alter the plans, extend or shorten the Scope of Services, add to the Scope of Services as may be necessary, and increase or decrease the scope and/or quantity of the Services, including the deduction or cancellation of any one or more of the unit price items, or to cancel the Contract and the Services in their entirety for any reason.
10. Timely Written Response and Written Report(s) of Resolution Relative to Certain Incident(s), Claim(s) and/or Complaint(s):
 - A. All alleged incident(s), claim(s), or complaint(s) related to any alleged death, injury and/or damage to persons and/or to public or private property related to the Contractor's work or services provided pursuant to this Contract shall be reported to the Village and resolved by the Contractor and/or its agent in a timely manner.
 - B. Within three (3) business days after receipt by Contractor of an initial written or verbal notice of any such incident, claim, or complaint, the Contractor shall also provide to the Village, and to any third-party making such claim or complaint, the name, telephone number, and cellular number of the Contractor's officer or employee who will be responsible for managing the resolution thereof until its final resolution by the Contractor and/or by the Contractor's insurer or agent.

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- C. Within ten (10) business days after the Contractor's receipt of the first notice of an alleged incident, claim, or complaint related to any alleged death, injury, and/or damage to persons and/or to public or private property (the "incident, claim, or complaint"), the Contractor or its agent(s) shall provide to the Village and to any third-party person making such claim or complaint an initial written response relative to such incident, claim or complaint, and the efforts and current progress of the Contractor and/or its agents to date toward the resolution of such incident, claim or complaint.
 - D. If complete resolution of the incident, claim, or complaint has not been reached within the aforesaid ten (10) business day period, the Contractor or its agent shall continue to use all reasonable efforts to fully resolve the incident, claim, or complaint, and to that end, further updated written status reports of resolution, or progress toward resolution, as the case may be, of such incident, claim, or complaint shall be provided to the Village by the Contractor not less than monthly until such incident, claim, or complaint is fully resolved.
 - E. The Contractor or its agents will be expected to fully resolve most incident(s), claim(s), or complaint(s) involving minor damage to public or private property within said initial ten (10) business day period after the Contractor receives its initial verbal or written notice of such incident, claim, or complaint.
11. Control and Inspection of Work or Services: Unless otherwise specified in the Contract Documents, inspection, acceptance or rejection of Work, and/or Services, including but not limited to goods, materials, and/or equipment which are part thereof, shall be made after delivery. Final inspection, acceptance and/or rejection of the Work and/or Services, including but not limited to goods, materials, and/or equipment which are part thereof, shall not impose liability on the Village for Work, and/or Services not in accordance with the Contract Documents as determined solely by the Village. Payment shall not be due on rejected Work and/or Services until and unless fully corrected and/or replaced as determined by the Village. All Work or Services performed by the Contractor shall be done in conformance with the Contract Documents.
12. Permits and Licenses: The Contractor shall obtain, at its own expense, all permits and licenses which may be required to complete the Project and all related Work as contemplated by the Contract Documents.
13. Insurance:
- A. Prior to Commencement of Work:
 - (i) Prior to commencement of any Work under the Contract Documents, Contractor shall supply to the Village certificates of insurance as specified below, provided, however, these insurance requirements shall not be applicable to any Contract which is only for the purchase of goods by the Village, but which does not include the installation thereof by the Contractor. Contractor shall not start the Work under the related Contract until Contractor has obtained all insurance required under this Paragraph 12, and all such insurance coverage has been obtained and approved by the Village Manager, or his designee.
 - (ii) Minimum Scope of Insurance:

Coverage shall be at least as broad as Insurance Services Office ("ISO") Commercial General Liability occurrence form CG 00 01 04 13 with the "Village of Orland Park and its officers, officials, employees, agents and volunteers" named as additional insureds on a primary and non-contributory basis. This primary, non-contributory additional insured coverage shall be confirmed through the following required policy endorsements: ISO Additional Insured Endorsement CG 20 10 04 13 or CG 20 26 04 13, and CG 20 01 04 13.

☒ If this box is checked, a Completed Operations Endorsement (CG 20 37 04 13) is also required.
 - B. Insurance Required: The Contractor shall procure and maintain, for the duration of the Contract, insurance against claims for injuries to persons or damage to property, which may arise from or in connection with the performance of the Work hereunder by the Contractor, its employees, subcontractors, and other agents, and:

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(i) Commercial General Liability:

- (a) \$1,000,000 combined single limit per occurrence for bodily injury, and property damage and \$1,000,000 per occurrence for personal injury. The general aggregate shall be \$2,000,000.
- (b) The Village of Orland Park, and its officers, officials, employees, agents and volunteers, are to be named and covered as additional insureds as respects: liability arising out of the Contractor's work, including activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, leased or used by the Contractor, or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Village of Orland Park and its officers, officials, employees, agents and/or volunteers.
- (c) The Contractor's insurance coverage shall be primary and non-contributory as respects the Village of Orland Park and its officers, officials, employees, agents and volunteers. Any insurance or self-insurance maintained by the Village of Orland Park and/or on behalf of its officers, officials, employees, agents and/or volunteers shall be excess of Contractor's insurance and shall not contribute with it.
- (d) Any failure to comply with reporting provisions of any applicable insurance policies shall not affect coverage provided to the Village of Orland Park and/or its officers, officials, employees, agents and/or its volunteers.
- (e) The Contractor's insurance shall contain a Severability of Interests/Cross-Liability clause or language stating that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- (f) If any commercial general liability insurance is being provided under an excess or umbrella liability policy that does not "follow form", then the Contractor shall be required to name the "Village of Orland Park, and its officers, officials, employees, agents and volunteers" as additional insureds.
- (g) All general liability coverages shall be provided on an occurrence policy form. Claims-made general liability policies will not be accepted.
- (h) The Contractor and all subcontractors hereby agree to waive any limitation as to the amount of contribution recoverable against them by the Village of Orland Park, and/or by its officers, officials, employees, agents and/or its volunteers. This specifically includes any limitation imposed by any state statute, regulation, or case law including any Workers' Compensation Act provision that applies a limitation to the amount recoverable.

- (ii) ☐ Owners and Contractors Protective Liability (OCP) Policy: The OCP Policy shall name the "Village of Orland Park, and its officers, officials, employees, agents and volunteers" as insured or as additional insured and shall include coverage of \$1,000,000 combined single limit per occurrence for bodily injury and property damage;

(Required for large construction projects; applicable if box is checked)

- (iii) ISO Business Auto Liability coverage form number CA 00 01. Symbol 01 "Any Auto": \$1,000,000 combined single limit per accident for bodily injury, and property damage and \$1,000,000 per occurrence for personal injury.
- (iv) Workers' Compensation insurance as required by the Workers' Compensation Act of the State of Illinois with coverage of statutory limits and Employers' Liability Insurance with limits of \$500,000 per accident:
- (a) The insurer shall agree to waive all rights of subrogation against the "Village of Orland Park, its officers, officials, employees, agents and volunteers" for losses arising from work performed by the Contractor for the Village.
 - (b) NCCI Alternate Employer Endorsement (WC 00 03 01 A) in place to insure that workers' compensation coverage applies under Contractor's coverage rather than under the coverage of the Village of Orland Park, and/or of its officers, officials, employees, agents and/or its volunteers (if

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the Village of Orland Park, its officers, officials, employees, agents and/or its volunteers are borrowing, leasing or in day to day control of Contractor's employee).

- (v) ☒ Builder's Risk Property Coverage with "Village of Orland Park" named as the loss payee: insurance shall be provided against "all risk" of physical damage, including water damage (flood and hydrostatic pressure not excluded) on a completed replacement cost basis;
(Required for a general contractor on a building construction project; applicable if box is checked)
 - (vi) ☐ Environmental Impairment/Pollution Liability Coverage: \$1,000,000 combined single limit per occurrence for bodily injury, property damage and remediation costs, including but not limited to, for pollution incidents as a result of a claim for bodily injury, property damage or remediation costs from an incident at, on or migrating beyond the contracted work site. Coverage shall be extended to Non-Owned Disposal sites resulting from a pollution incident at, on or mitigating beyond the site; and also provide coverage for incidents occurring during transportation of pollutants; and
(Required if the project involves an exposure to or risk of environmental impairment and/or pollution liability from a worksite; applicable if box is checked)
 - (vii) Umbrella Policy: If the general aggregate limit for Commercial General Liability coverage provided is less than \$2,000,000, pursuant to Section 13(B)(i) above, then a \$2,000,000 Umbrella Policy shall also be provided, which policy shall follow all required coverages as set forth above, other than Worker's Compensation and Professional Liability.
 - (viii) ☐ Cyber Liability Coverage: for losses arising out of the Contractors work or work product resulting from a network/data breach, malware infection, cyber extortion, ransomware, exposure of confidential, personally identifiable and financial information, intellectual property and other related breaches. This coverage will apply to but not limited to damages for notification cost, credit monitoring expenses, public relations expenses, computer system/software damage and related financial losses.
- C. Deductibles and Self-Insured Retentions: Any deductibles or self-insured retentions must be declared to and approved by the Village of Orland Park.
- D. All Coverages:
- (i) No Waiver. Under no circumstances shall the Village, or its officers, officials, employees, agents or volunteers be deemed to have waived any of the insurance requirements of this Contract by any act or omission, including, but not limited to:
 - (a) Allowing work by Contractor or any subcontractor to start before receipt of Certificates of Insurance and Additional Insured Endorsements.
 - (b) Failure to examine, or to demand correction of any deficiency, of any Certificate of Insurance and Additional Insured Endorsement received.
 - (ii) All policies shall be endorsed to provide Owner a thirty (30) day notice with the exception for a ten (10) day notice for non-payment prior to any insurance policy, represented therein, being cancelled or modified.
 - (iii) When requested by the Village Manager, or his designee, Contractor shall promptly provide the respective original insurance policies for review and approval by the Village Manager, or his designee.
- E. Acceptability of Insurers: Insurance is to be placed with insurers with a Best's rating of no less than A-, VII and licensed to do business in the State of Illinois.
- F. Verification of Coverage: Contractor shall furnish the Village of Orland Park with certificates of insurance naming the "Village of Orland Park, its officers, officials, employees, agents and volunteers", as additional insureds, and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be received and approved by the Village Manager, or his designee, before any work commences. The following additional insured endorsements may be utilized: ISO Additional Insured Endorsements CG 20 10 04 13 or CG 20 26 04 13. The Village reserves the right to request full certified copies of the insurance policies and endorsements.

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- ☒ If this box is checked, a Completed Operations Endorsement (CG 20 37 04 13) is also required.
- G. Subcontractors: Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.
- H. Assumption of Liability: Contractor assumes liability for all injury to or death of any person or persons including employees of the Contractor, any subcontractor, any supplier or any other person and assumes liability for all damage to property sustained by any person or persons occasioned by or in any way arising out of any work performed pursuant to this Contract.
- I. Insurance Certifications: In addition to providing Certificates of Insurance as required by the contract documents, the Contractor shall submit to the Village a signed certification with each Request for Payment, stating that all the insurance required of the Contractor remains in force. Failure to submit such a certification shall be grounds to withhold payment in full or in part.
- J. Insurance Requirements Cannot Be Waived by Village: Under no circumstances shall the Village be deemed to have waived any of the insurance requirements of the related Contract by any act or omission, including, but not limited to: (1) allowing the Work to commence by the Contractor or any subcontractor of any tier before receipt of Certificates of Insurance; (2) failing to review any Certificates of Insurance received; (3) failing to advise the Contractor or any subcontractor of any tier that any Certificate of Insurance fails to contain all the required insurance provisions, or is otherwise deficient in any manner; or (4) issuing any payment without receipt of a Sworn Statement from the Contractor and all subcontractors of any tier stating that all the required insurance is in force. The Contractor agrees that the obligation to provide the insurance required by this Agreement or any of the contract documents is solely its responsibility and that this is a requirement which cannot be waived by any conduct, action, inaction or omission by the Village. Contractor shall also protect the Village by specifically incorporating this Paragraph into every subcontract entered into relative to the Work contemplated herein and also requiring that every subcontractor incorporate this Paragraph into every sub-subcontract it enters into relative to the Work contemplated herein.
- K. Liability of Contractor and Subcontractor is Not Limited by Purchase of Insurance: Nothing contained in the insurance requirements of this Agreement or any Contract Documents is to be construed as limiting the liability of the Contractor or the liability of any subcontractor of any tier, or either of their respective insurance carriers. The Village does not, in any way, represent that the coverages or limits of insurance specified is sufficient or adequate to protect the Village, the Contractor, or any subcontractor's interest or liabilities, but are merely required minimums. The obligation of the Contractor and every subcontractor of any tier to purchase insurance shall not, in any way, limit their obligations to the Village in the event that the Village should suffer an injury or loss in excess of the amount recoverable through insurance, or any loss or portion of the loss which is not covered by either the insurance of the Contractor or any subcontractor's insurance.
- L. Notice of Bodily Injury or Property Damage: The Contractor shall notify the Village, in writing, of any actual or possible claim for personal injury or property damage relating to the Work, or of any occurrence which might give rise to such claim, promptly upon obtaining first knowledge of same.
- M. Updated Proof Required: The Contractor agrees that at any time upon the demand of the Village, updated proof of such insurance coverage will be submitted to the Village. There shall be no additional charge to the Village for said insurance.
- N. Safety/Loss Prevention Program Requirements: The Contractor shall provide written confirmation that a safety/loss prevention program was in place at least 90 days prior to submitting the bid proposal and is continuing. Evidence of completed employee safety training shall be provided to the Village and approved by the Village Manager, or his designee.

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- O. Higher and More Expansive Standard Applicable: To the extent other insurance requirements of the contract documents contradict this Paragraph 13, the more expansive and higher standard, in terms of type and amount of coverage, shall govern.

14. Indemnity:

- A. To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify and hold harmless the Village, its elected and appointed officials, employees and agents against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgments, costs and expenses, which may in anywise accrue against the Village, its elected and appointed officials, employees, and agents arising in whole or in part or in consequence of the performance of the Work by the Contractor, its employees, or subcontractors, or which may in anywise result therefrom, except that arising out of the sole legal cause of the Village, its elected and appointed officials, employees or agents, the Contractor shall, at its own expense, appear, defend and pay all charges of attorneys and all costs and other expenses arising therefrom or incurred in connection therewith, and, if any judgment shall be rendered against the Village, its elected and appointed officials, employees or agents, in any such action, the Contractor shall, at its own expense, satisfy and discharge the same.
- B. Contractor expressly understands and agrees that any performance bond or insurance policies required by this Contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the Village, its elected and appointed officials, employees or agents as herein provided.
- C. Contractor further agrees that to the extent that money is due the Contractor by virtue of this Contract as shall be considered necessary in the judgment of the Village, such funds may be retained by the Village to protect itself against said loss until such claims, suits, or judgments shall have been settled or discharged and/or evidence to that effect shall have been furnished to the satisfaction of the Village.
- D. In the event that the Village is not immune from liability under any applicable law, and only in such event, the Village hereby agrees to indemnify and hold harmless the Contractor, its officers, directors, employees and subcontractors (collectively, Contractor) against all damages, liabilities or costs, including reasonable attorney's fees and defense costs, to the extent caused by the Village's negligent acts in connection with the Project and the acts of the Village, and/or any of its officers, trustees and/or employees.
- E. Neither the Village nor the Contractor shall be obligated to indemnify the other party in any manner whatsoever for the other party's own negligence, or for the acts of their respective officers, trustees, employees and/or agents.
- F. The provisions of this Paragraph 14 shall survive any termination of the Contract.

15. Village Confidential Information:

- A. Contractor warrants that it shall not disclose, use, sell, rent, trade, or otherwise provide Village Confidential Information to any person, firm, or entity for any purpose outside of the specific purposes of the Contract Documents, except as necessary to comply with applicable State or Federal laws.
- B. The provisions of this Paragraph 15 shall survive any termination of the Contract.

16. Professional Standard: The Contractor hereby covenants and agrees that the Contractor will perform all Services described in this Agreement in accordance with the Professional Standard. In connection with the execution of this Agreement, the Contractor warrants and represents as follows:

- A. Feasibility of Performance. The Contractor (i) has carefully examined and analyzed the provisions and requirements of this Agreement, including all Exhibits hereto; (ii) understands the nature of the Services required; (iii) from its own analysis has satisfied itself, to the extent reasonably possible, as to the nature of all things needed for the performance of this Agreement and all other matters that in any way may affect this Agreement or its performance; (iv) represents that this Agreement is feasible of performance

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in accordance with all of its provisions and requirements; and (v) can and will perform, or cause to be performed, the Services in accordance with the provisions and requirements of this Agreement.

- B. Ability to Perform: The Contractor hereby represents and warrants to the Village, with the intention that the Village rely thereon in entering into this Agreement, that: (a) the Contractor is financially solvent; (b) the Contractor, and each has the training, capability, experience, expertise, and licensing necessary to perform the Services in accordance with the requirements of this Agreement and the Professional Standard; (c) the Contractor possesses and will keep in force all required licenses, permits and accreditations to perform the Services; (d) the Contractor has full power to execute, deliver and perform this Agreement and has taken all necessary action to authorize such execution, delivery and performance; (e) the individual(s) executing this Agreement are duly authorized to sign the same on the Contractor's behalf and to bind the Contractor hereto; and (f) the Contractor will perform the Services described herein promptly, diligently and continuously with an adequate number of qualified personnel to ensure such performance.
- C. Authorized to do Business in Illinois: The Contractor certifies that it is a legal entity authorized to do business in Illinois, 30 ILCS 500/1.15.8, 20-43.
- D. Certification to Enter into Public Contracts: The Contractor certifies that it is not barred from contracting with any unit of state or local government as a result of a violation of either Section 33E-3 or 33E-4 of the Illinois Criminal Code or violating the prohibition set forth in Section 50-10.5(e) of the Illinois Procurement Code, 30 ILCS 500/50-10.5e or any similar offense of any State of the United States which contains the same elements as the Illinois offenses of bid-rigging or bid rotating.
- E. Payment to the Illinois Department of Revenue: Contractor certifies that it is not delinquent in payment of any taxes to Illinois Department of Revenue.
- F. Debarment. The Contractor certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in the Agreement by any federal department or agency. The Contractor will not knowingly use the services of any related party barred or ineligible for contracts by any federal, state or local governmental agency or applicable Laws for any purpose in the performance of the Services.
- G. Interest of members of the Village: Contractor certifies that no member of the governing body of the Village and no other officer, employee, or agent of the Village who exercises any functions or responsibilities in connection with the planning or carrying out of the Services, has any personal financial interest, direct or indirect, in this Agreement; and the Contractor shall take appropriate steps to assure compliance.
- H. Interest of Professional Services Provider and Employees: Contractor certifies that it presently has no interest and shall not acquire interest, direct or indirect, in the various project areas or any parcels therein or any other interest which would conflict in any manner or degree with the performance of Contractor Services hereunder. The Contractor further covenants that in the performance of this Agreement, no person having such interest shall be employed.
17. No Conflicts of Interest: The Contractor warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Contractor, to solicit or secure this contract, and that it has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the Contractor, any fee, commission, percentage, brokerage fee, gift(s), or any other consideration, contingent upon or resulting from the award or the making of this Contract. Notwithstanding anything in this Section to the contrary, the Parties acknowledge this project is procured under the OMNIA Partner Contract referenced in Item 1 above and any payments or fees paid to OMNIA as part of this agreement do not constitute a violation of the provisions in this Section.

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18. Compliance with Laws: Contractor shall comply with all federal, state, and local laws, ordinances, rules and regulations, and any and all orders and decrees of any court, administrative body or tribunal applicable to the performance of the Contract. Contractor shall comply with all applicable laws, regulations, and rules promulgated by any Federal, State, County, Municipal and/or other governmental unit or regulatory body now in effect or which may be in effect during the performance of the Work. Included within the scope of the laws, regulations, and rules referred to in this paragraph, but in no way to operate as a limitation, are: Occupational Safety & Health Act (“OSHA”); Illinois Department of Labor (IDOL”), Department of Transportation, and all forms of traffic regulations; public utility, Intrastate and Interstate Commerce Commission regulations; Workers’ Compensation Laws, the Employment of Illinois Workers on Public Works Act, the Social Security Act of the Federal Government and any of its titles, the Illinois Human Rights Act, and EEOC statutory provisions and rules and regulations. Evidence of specific regulatory compliance will be provided by the Contractor if requested by the Village.
19. Equal Employment Opportunity: The Contractor shall be an “equal opportunity employer” as defined in the United States Code Annotated. The Contractor shall be required to comply with the President’s Executive Order No. 11246, as amended, and the requirements for Bidders and Contractors under this order are explained in 41 CFR 60-4. The Contractor shall fully comply with all applicable provisions of the Illinois Human Rights Act.
20. Certifications: By the execution of this Agreement, the Contractor certifies that: (1) the Contractor is not delinquent in the payment of any tax administered by the Illinois Department of Revenue as required by 65 ILCS 5/11-42.1-1; (2) the Contractor has a written sexual harassment policy as required by and shall otherwise comply in all respects with the Illinois Human Rights Act (775 ILCS 5/2-105(A)(4)); (3) the Contractor shall provide a drug-free workplace as required by and shall otherwise comply with the Illinois Drug-Free Workplace Act (30 ILCS 580/1, et seq.); (4) the Contractor has in place a written policy as required by and that it does and shall otherwise comply with the Illinois Substance Abuse Prevention on Public Works Projects Act (820 ILCS 265/1, et seq.); and (5) the Contractor is not and/or was not barred from bidding on this contract pursuant to Section 33E-3 or 33E-4 of the Illinois Criminal Code (720 ILCS 5/33E-3 and 5/33E-4).
21. Project Documentation: Upon execution of this Agreement relative to the Project, notwithstanding anything contained in any other Contract Documents to the contrary, the Contractor and its subcontractors agree to and shall release to the Village any and all right, title, and interest in and to any and all Project Documentation depicting, documenting, or recording the Services, and/or the Work, and/or the Project which is the subject of the Contract Documents, prepared or created by the Contractor t and/or its subcontractors, including but not limited to any and all drawings, plans, specifications, photos, reports, videos, and/or other recordings on any electronic media (sometimes collectively referred to as “Project Documentation”), and any and all of such Project Documentation shall become the property of the Village. The Contractor and its subcontractors further warrant to the Village that they have the legal right to convey said Project Documentation to the Village. The Work contemplated by the Contract Documents shall not be considered complete until and unless legible and complete physical and electronic copies of all such Project Documentation have been delivered to the Village. The Village may reuse Project Documentation without the prior written authorization of the Contractor, but the Village agrees to waive any claim against the Contractor arising from any unauthorized reuse or modification of the Project Documentation.
22. Independent Contractor: It is mutually understood and agreed that the Contractor shall have full control of the ways and means of performing the Professional Services referred to above and/or which is the subject of this Agreement and the related Contract and that the Contractor or his/its employees, representatives or Subcontractor’s are in no sense employees of the Village, it being specifically agreed that in respect to the

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Village, the Contractor and any party employed by the Contractor bears the relationship to the Village of an independent contractor.

23. Prevailing Wage Act Notice [Check box that applies]:

☐ The Illinois Prevailing Wage Act (820 ILCS 130/01, et seq.) does not apply to this Contract.

☒ The Illinois Prevailing Wage Act (820 ILCS 130/01, et seq.) does apply to this Contract.

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 current “prevailing rate of wages” (hourly cash wages plus amount for fringe benefits) in the county where the work is performed. The Illinois Department of Labor (“IDOL”) publishes the prevailing wage rates on its website at <http://labor.illinois.gov/>. The IDOL may revise the prevailing wage rates from time to time and the contractor/subcontractor has an obligation to check the IDOL’s website for revisions to prevailing wage rates and comply with the most current prevailing wage rates. For information regarding current prevailing wage rates, please refer to the IDOL website. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage requirements and notice and record keeping duties, including but not limited to each contractor and subcontractor who participates in public works to file with the Illinois Department of Labor (IDOL) certified payroll for those calendar months during which work on a public works project has occurred. The Act requires certified payroll to be filed with IDOL no later than the 15th day of each calendar month for the immediately preceding month through the Illinois Prevailing Wage Portal—an electronic database IDOL has established for collecting and retaining certified payroll. The Portal may be accessed using this link: <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Prevailing-Wage-Portal.aspx>. The Village reserves the right to withhold payment due to Contractor until Contractor and its subcontractors display compliance with this provision of the Act. The Contractor shall also pay prevailing wages at rates not less than those prevailing under Davis-Bacon Wage Act Provisions as determined by the U.S. Department of Labor to all laborers, workmen and mechanics performing work under this Contract, if such Act is applicable, and, in such event, the more restrictive (i.e., higher) prevailing wage requirements shall be applicable.

24. ☐ Employment of Illinois Workers on Public Works Act: This contract is subject to the Illinois Preference Act (30 ILCS 570) since this fixed work construction or improvement is funded or financed in whole or in part with State funds or funds administered by the State of Illinois. Contractors on state public works projects are required to employ a workforce that is comprised of at least 90% Illinois residents during periods of excessive unemployment, which occurs when the level of unemployment in Illinois has exceeded 5% for at least 2 consecutive months. An “Illinois laborer” is defined as any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident. The Contractor shall require all subcontractors (if any) to conform with said laws, and any rules or regulations now and thereafter issued pursuant to said laws by Contractor, his subcontractors, and/or anyone working through or on behalf of Contractor or Contractor’s subcontractors.

25. Warranty and Guarantee: In addition to any manufacturer’s warranty(ies) on materials, parts and/or equipment to be supplied pursuant to the Contract Documents, the Contractor warrants and guarantees that for a period of one (1) years from the date of substantial completion of the Project that the completed Project shall be free from all defects and deficiencies due to faulty equipment, materials or workmanship, and/or because they do not comply with the Contract Documents, all as shall be determined solely by the Village, and the Contractor shall promptly correct, repair, and/or replace any and all such equipment, materials and/or Work which has been determined by the Village to be defective, deficient, and/or not in compliance with the Contract Documents including, but not limited to, the repairs of any resulting damage to other parts of the Project. In the event that

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the Contractor should fail to make such correction(s), repair(s), and/or replacement(s) ("remedial work") that the Village has determined to be necessary to remedy such defects, deficiencies, and/or non-compliance with the Contract Documents, the Village may do so, and the Contractor shall be liable for all damages as provided by law, including but not limited to any costs incurred by the Village for any such remedial work. The Performance and Payment Bond, if one is applicable, shall remain in full force and effect through the warranty/guarantee period.

26. Standard Specifications:

- A. If applicable, all Work performed by Contractor that is associated with the fulfillment of this Agreement and/or the related Purchaser Order/Contract shall conform to the terms of the latest edition of the Illinois Department of Transportation ("IDOT") Standard Specifications for Road and Bridge Construction where this document is otherwise silent. The applicable Standard Specifications, as herein specified, shall apply to all work and materials performed under this Contract unless revised by the Specifications, also herein included as part of the Contract Documents.
- B. If applicable, through the course of the Project, the Contractor shall be responsible for the maintenance of traffic through and around the zone of work consistent with Section 648 of the IDOT Standard Specifications for Road and Bridge Construction. The cost for this activity shall be considered incidental to the cost of the improvement.
- C. If applicable, all traffic control measures employed during the term of this contract shall be in accordance with the applicable sections of the IDOT Standard Specifications, the Supplemental Specifications, and the "Illinois Manual Uniform Traffic Control Devices for Streets and Highways".

27. Permitted Hours of Work: All construction activity shall be permitted only during the following work hours: a ten (10) hour period from 7:00 A.M. until 5:00 P.M. on weekdays; Saturday work is permitted after 8:00 A.M. until 5:00 P.M., provided that the Contractor has made prior arrangements with representatives of the Village; and work shall not occur on Sundays or Holidays, except s specifically authorized by the Village in writing,

28. Restoration of Work Site: The Contractor shall be obligated to remove all debris from the Work site at the Contractor's expense. The Contractor shall, at its sole cost and expense, as part of the Work required by this Agreement and the related Contract, replace and restore any grass, vegetation or plantings disturbed or removed by the Contractor, to their condition before the performance of the Work, and such removal shall only occur after approval in advance in writing by the Village's designee. Without limiting the generality of the foregoing, the Contractor shall be obligated to: (1) re-grade and re-seed the ground surface, (2) replace any damaged vegetation, other than trees and bushes removed pursuant to the authority of the Village's designee, with new plantings of good health and quality with species consistent with the recommendation of the Village's designee, and (3) repair any damage to any paved surfaces disturbed by the Work. While the Work is in progress and until all required restoration work is completed, the Contractor shall comply with customary and usual initial erosion practices consistent with good engineering procedures and the requirements of all applicable ordinances.

29. Right to Alter Plans and Scope Reserved: The Village reserves the right to alter the plans, extend or shorten the improvements, add to the Work as may be necessary, and increase or decrease the scope and/or quantity of the Work, including the deduction or cancellation of any one or more of the unit price items, or to cancel the Contract and the Work in its entirety for any reason.

30. Duration: This Contract shall be in effect from the date of this Contract until the completion of the Work, but the obligations of the Contractor under the Paragraphs 14 and 15 hereof shall continue after such termination.

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31. Advertisement: The Contractor is specifically denied the right to use in any form or medium the name of the Village for public advertising unless express permission is granted by the Village.
32. Amendments: No agreement or understanding to modify the Contract or the related Contract Documents shall be binding upon the Village unless such amendment is in writing and signed by the Village's authorized agent. All specifications, drawings, and data submitted to the Contractor with this Agreement or the related Contract Documents are hereby incorporated and made part thereof.
33. Termination: The following shall constitute events of default under this Agreement and the related Contract: a) any material misrepresentation made by the Contractor to the Village, b) any failure by the Contractor to perform any of its obligations under this Contract including, but not limited to, the following: (i) failure to commence performance of this Contract at the time specified in the Contract due to a reason or circumstance within the reasonable control of the Contractor, (ii) failure to perform this Contract with sufficient personnel and equipment or with sufficient material to ensure the completion of this Contract within the specified time due (i.e., by the Completion Date) to a reason or circumstance within the Contractor's reasonable control, (iii) failure to perform this Contract in a manner reasonably satisfactory to the Village, (iv) failure to promptly re-do or re-perform within reasonable time the services that were rejected by the Village as erroneous or unsatisfactory, (v) failure to comply with a material term of this Contract, (vi) failure of the Contractor to completely furnish the contracted goods or services to the Village within the time period specified by the Contract Documents; (vii) any breach or violation of Contractor or its employees, or agents, of its obligations under the Village Confidential Information provisions of Paragraph 23 of this Agreement; and (viii) any other acts specifically and expressly stated in this Contract as constituting a basis for termination for cause. At least ten (10) days prior to the date that the Contractor shall be declared in default of the Contract, the Village shall give written notice by certified mail to the Contractor. This notice shall state the reasons that the Contractor is being declared in default of the Contract. Failure by the Contractor to correct the stated deficiencies within the notice period shall result in the Contractor being declared in default of the Contract. Issuance of the notice by the Village shall be an indication of the intentions of the Village to take the work out of the hands of the Contractor and to hire others to complete the defaulted work. Upon default, the Contractor shall be liable for all damages sustained by the Village as provided by law as a result of such default, including but not limited to all costs incurred by the Village to fully complete all the work specified in the Contract Documents and all expense of every kind incurred by the Village in remedying any defect(s) and/or deficiency(ies), or failure by the Contractor to conform to the Contract Documents and any such costs incurred by the Village may also be paid by the Village out of such monies as otherwise may be due or otherwise may become due to said Contractor pursuant to the Contract Documents. Notwithstanding any other provision hereof, the Village may terminate the Agreement in the event of a default by the Contractor or without cause at any time upon 15 days prior written notice to the Contractor. In the event that the Agreement is so terminated and the Contractor is not in default or breach of this Agreement, the Contractor shall be paid for Services actually performed and reimbursable expenses actually incurred, if any, prior to termination, not exceeding the value of the Services completed which shall be determined on the basis of the rates set forth in the Contractor's Proposal.
34. Notices and Communications: Where notice is required by the Agreement it shall be considered received if it is delivered in person, sent by registered United States mail, return receipt requested, delivered by messenger or mail service with a signed receipt, sent by facsimile or e-mail with an acknowledgment of receipt, to the following:

To the Village:

Name: Ken Dado

Village of Orland Park

To the Contractor:

Name: Steve Paul

CORE Construction Services of Illinois, Inc.

953748-03-14-16

14700 South Ravinia Avenue
Orland Park, Illinois 60462
Telephone: 708-403-6107
Email: kdado@orlandpark.org

601 SW Water Street
Peoria, IL, 61602
Telephone: 309-404-4700
e-mail: stevepaul@COREconstruction.com

or to such other person or persons or to such other address or addresses as may be provided by either party to the other party.

35. Illinois Freedom of Information Act: The Contractor agrees to maintain all records and documents for projects of the Village of Orland Park in compliance with the Freedom of Information Act (FOIA), 5ILCS 140/4 et seq. In addition, Contractor shall produce, without cost to the Village, records which are responsive to a request received by the Village under the FOIA so that the Village may provide records to those requesting them within the timeframes required. If additional time is necessary to compile records in response to a request, then Contractor shall so notify the Village and if possible, the Village shall request an extension so as to comply with the FOIA. In the event that the Village is found to have not complied with the FOIA, based upon Contractor's failure to produce documents or otherwise appropriately respond to a request under the FOIA, then Contractor shall indemnify and hold harmless, and pay all amounts determined to be due including but not limited to fines, costs, attorney fees and penalties
36. Supersede: The terms, conditions and specifications set forth in this Agreement shall supersede, govern, and prevail over any inconsistent terms, conditions, and/or specifications on any other Contract Documents.
37. Severability: In the event any section, subsection, paragraph, sentence, clause, phrase or provision of this instrument or part thereof shall be deemed unlawful, invalid, unenforceable or ineffective by any court of competent jurisdiction, such decision shall not affect the validity, enforceability or effectiveness of the remaining portions of this instrument.
38. Facsimile or Digital Signatures: Facsimile or digital signatures shall be sufficient for purposes of executing, negotiating, and finalizing this Contract, and this Contract shall be deemed delivered as if containing original signatures if such delivery is made by emailing a PDF of a scanned copy of the original, hand-signed document, and/or by use of a qualified, established electronic security procedure mutually agreed upon by the Parties.
39. Counterparts: This Agreement may be executed in one or more counterparts, which counterparts when affixed together, shall constitute one and the same original document.
40. No Third Party Beneficiaries: The parties do not intend to confer any benefit hereunder on any person, firm or corporation other than the parties hereto.
41. Entire Agreement: The Contract Documents (including all Exhibits attached thereto which by reference are made a part of the Agreement) and all other written agreements signed by all of the parties hereto which by their express terms are a part of the Contract Documents, are the final expression of, and contain the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior understandings with respect thereto. The parties do not intend to confer any benefit hereunder on any person, firm or corporation other than the parties hereto.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized officer in quadruplicate counterparts, each of which shall be considered as an original

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CORE Construction Services of Illinois, Inc.

VILLAGE OF ORLAND PARK

By: E-SIGNED by Tim Erickson
on 2021-12-07 15:57:23 GMT

By: E-SIGNED by George Koczwara
on 2021-12-07 16:11:07 GMT

Name: Tim Erickson

Name: George Koczwara

Its President

& Authorized Agent

Title: Village Manager

EXHIBIT A

[ATTACH]

Scope of Work as set forth in Contractor's Proposal dated September 27, 2021
or Village RFP, ITB, and/or Purchase Order No. _____ dated _____

EXHIBIT B

[ATTACH IF REQUIRED]

Schedule of Fees

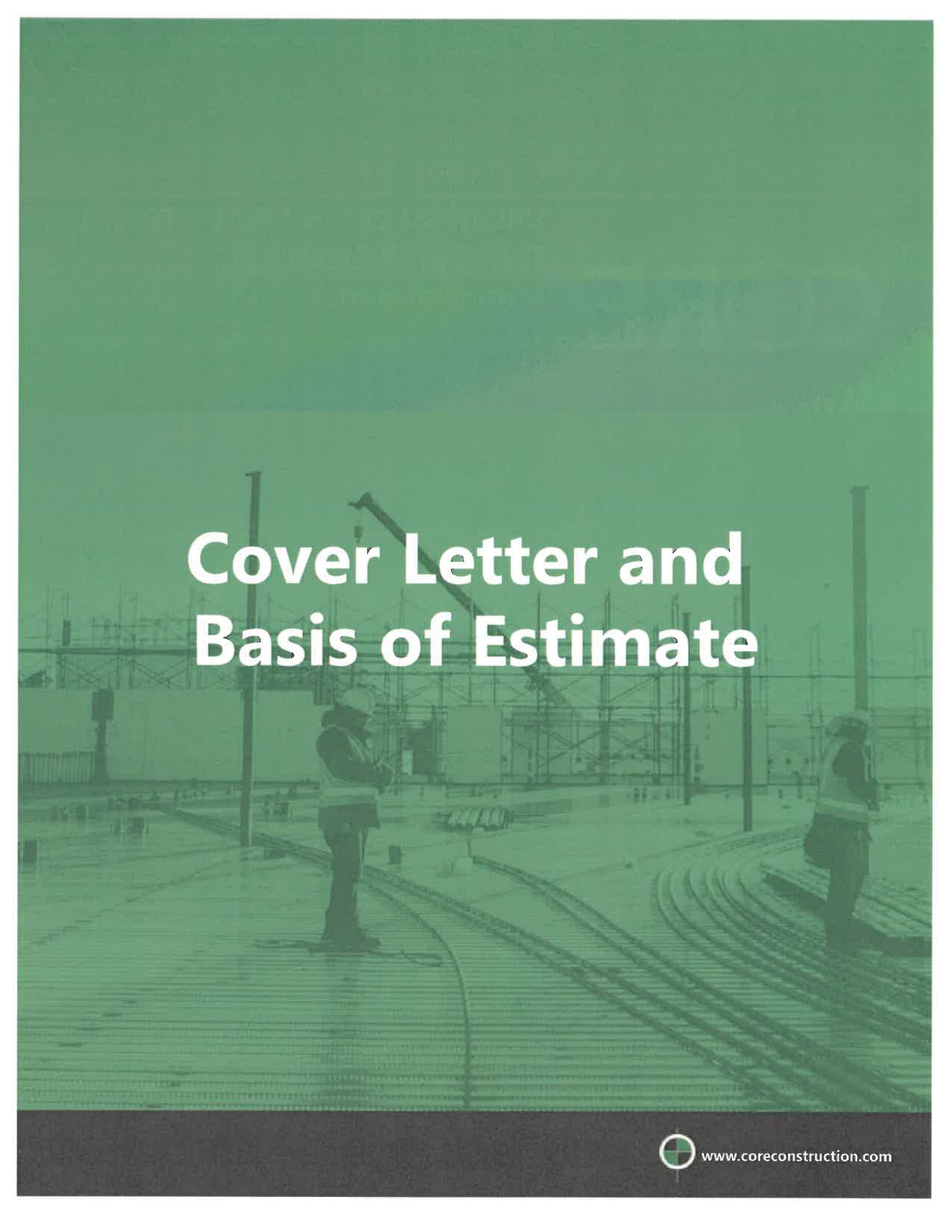
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Village of Orland Park - Elevated Tank No. 7 Electrical Improvements

Job Order Contract (JOC) Proposal
9/27/2021



A photograph of a construction site, likely a stadium or arena, showing a large, curved, ribbed structure under construction. Two workers in safety gear are visible in the foreground. The image is overlaid with a semi-transparent green filter.

Cover Letter and Basis of Estimate





601 SW Water St.
Peoria, IL 61602
T 309.404.4700

September 27, 2021

VIA EMAIL

Joel Van Essen – Village of Orland Park Public Works Director

email: jvanessen@orlandpark.org

15655 Ravinia Ave.

Orland Park, IL 60462

RE: JOB ORDER CONTRACT (JOC) PROPOSAL | Village of Orland Park – Elevated Tank No. 7 Electrical Improvements

Procurement: OMNIA Partners Contract #R200103

Hello,

On behalf of CORE Construction, I am pleased to submit our Job Order Contract (JOC) proposal for the Elevated Tank No. 7 Electrical Improvements project located at 13605 Cherry Lane, Orland Park, IL.

Estimate Summary:

BASE BID =	\$168,482.36
CONTINGENCY =	\$16,800.00
TOTAL BASE BID PROPOSAL =	\$185,282.36
ALTERNATE #1 ADD (modify electrical at existing well house due to ComEd service change) =	\$11,610.00

Enclosed you will find the Basis of Estimate, Scope of Work, OMNIA Compliance Estimate with RS Means backup, and other supporting documentation.

Thank you for this opportunity, and please do not hesitate to contact me directly with any questions or comments.

Respectfully submitted,

Steve Paul

Steve Paul
Director of Special Projects and Job Order Contracting
CORE Construction

BASIS OF ESTIMATE

The Basis of Estimate (BOE) is a written narrative explanation clarifying the scope, assumptions, and exclusions CORE used in establishing the Job Order Contracting (JOC) Proposal dated September 27, 2021 per OMNIA Partners Contract #R2001103.

ASSUMPTIONS, CLARIFICATIONS, & EXCLUSIONS

Although CORE has excluded some items from our estimate, pricing can be made available as alternates for most of these items upon Owner request.

Schedule

- Anticipated construction start: December 2021
- Expected duration of construction: 4 weeks
- **Overtime:** the project schedule and associated cost includes no overtime labor or off-shift labor. Only normal union working hours for on-site operations are included in the project schedule.
- **Phasing:** this project includes no phasing, additional phasing resulting in a project delay or increase in project duration will result in an additional cost to the Contractor which will be paid by the Owner via revision to the contract amount, T & M, or Change Order.
- Refer to general assumptions, any Owner or Owner agent action or inaction resulting in delay or deviation from this schedule's specified dates will incur additional cost to the Contractor which will be paid by the Owner via revision to the contract amount, T & M, or Change Order.

Contingency & Allowances

- **Construction Contingency of \$8,400.00** is included in this estimate – Construction Contingency is intended to be used at CORE's discretion to cover costs that have not been identified as a trade-specific scope on the GMP setting documents and may require further clarification or coordination. These costs may include scope gap, coordination issues between trades, and missed scope during the competitive bidding process. Construction Contingency does not account for design revisions or additional scope requests made by the Owner or Architect.





- **Owner Contingency of \$8,400.00** is included in this construction budget. Owner Contingency is intended to be used at the Owner's discretion to cover unforeseen conditions, design revisions, or additional scope requests made by the Owner and/or Design Team.

General Assumptions

1. The pricing in this budget is valid for 14 days. Due to current market conditions, any additional project cost escalations will be paid from included Owner Contingency.
2. CORE has included labor at prevailing wages for all Trade Partners and self-performance unless specifically noted otherwise in this estimate.
3. The Date of Commencement of Construction under the Project Authorization shall be 10 working days after the latest of the following is received by CORE Construction:
 - Project Authorization fully executed by Owner.
 - Issuance of Site Permit, Building Permit, and any other permits required to commence the Work and maintain unhindered progress.
 - Full access to the Project Site or location of the Work, & availability of materials and manpower.
 - Owner's Notice to Proceed.
4. This estimated budget is to be considered a "lump sum" estimate, not a line-item estimate. This estimate is prepared for a specific site location, size of project and project schedule. No part of the estimate can be changed without affecting the rest of the parts. However, part of CORE's Preconstruction services scope includes determining how changes affect the overall budget.

Specific Exclusions to the Estimate

The following items are **not** included in this estimate:

1. Design fees or other professional services fees
2. Hazardous material testing, survey and abatement
3. Material testing and inspections including 3rd party testing or field quality control testing
4. Sales tax
5. Builders Risk is provided by CORE. Deductible is by Owner
6. Separate Owner and Contractor Liability Insurance Policy including OCIP or CCIP insurance requirements
7. Unforeseen utility conditions
8. Costs for unforeseen conditions that could be uncovered throughout the construction process
9. Costs associated with underground conflicts
10. Liquidated damages
11. Legal expenses



12. All existing utilities and/or service relocation known or unknown.
13. Voice and data communications systems
14. Signage
15. Winter Conditions

Other Scope Specific Assumptions and Clarifications

00 – General Conditions and Soft Cost Items

1. Items included in this estimate:
 - a. Supervision
 - b. General Liability Insurance
 - c. Builder's Risk Insurance
 - d. Payment and Performance bond
 - e. Construction clean-up
2. Items **not** included in this estimate:
 - a. Temporary enclosures, barricades, or fencing
 - b. Segregated waste dumpsters
 - c. Job Trailer is not included
 - d. Parking permits, charges or metered parking, on-site parking is assumed at no cost to the Contractor
 - e. Security – no cost for security guard or surveillance cameras is included in this estimate
 - f. Temporary electrical power for the site, assumed utilization of existing on site
 - g. Final cleaning

01 - Demolition

1. Scope included in this estimate:
 - a. Demolition of existing electrical within the water tower as indicated.
2. Scope **not** included in this estimate:
 - a. Demolition of any plumbing or other scope items at the water tower.

02 - Electrical

1. Scope included in this estimate:
 - a. New 120/240v electrical service fed from new ComEd transformer. Costs for changes related to existing transformer, new transformer, and ComEd service are excluded.
 - b. 4-gang meter socket.



- c. Furnish and install weather tight NEMA 4x enclosure adjacent to the 4-gang meter socket.
 - d. Furnish and install 14kW Kohler generator and automatic transfer switch. Transfer switch will be installed in the enclosure, and emergency stop button provided.
 - e. Provide a 100-amp panel inside the enclosure. Panel will feed generator auxiliary 120v circuits.
 - f. Furnish and install an additional panel within the water tower per drawing E5.1.
 - g. New fixtures provided per drawings.
 - h. Power per drawings, including furnish & install (2) unit heaters with t-stats.
 - i. All raceways within the tower shall be aluminum rigid conduit. Boxes shall be FS/FD cast type.
 - j. Reinstall existing control panels as indicated.
 - k. All equipment within the tower shall be mounted on stainless steel Unistrut per detail C on E5.1.
 - l. Concrete pad for generator and enclosure by others.
 - m. Excavation for underground feeds.
2. Scope **not** included in this estimate:
- a. Concrete work and equipment/utility pads
 - b. Aluminum floor grating and associated hardware/supports
 - c. Cutting, patching, and painting
 - d. Any plumbing or gas piping work
 - e. Transformers
 - f. Fire Alarm work and/or monitoring
 - g. Lightning Protection
 - h. Fault current study
 - i. Electrical work at the existing well house (see Alternate #1 below)

Alternate #1 Add - \$11,610.00

- a. Demo existing meter socket on the exterior of the building.
- b. Remove existing wiring from meter to ComEd transformer. Existing conduit stubbed up the building shall be cut and abandoned just below grade.
- c. Provide new 100-amp, 120/240v single phase service utilizing a spare meter in the 4-gang meter provided for the work associated with the base water tower work scope.
- d. Underground PVC conduit provided with (3) #3 wires from meter to the exterior of the building including excavation. Trench shall be backfilled utilizing existing spoils.
- e. Demo existing 480v disconnect on the inside.
- f. Provide a new 100-amp service entrance rated disconnect in the location where the 480v disconnect was installed.
- g. Provide new grounding electrode from the service disconnect per code.



- h. Re-feed existing Westinghouse panel from the newly installed disconnect.
- i. Existing Westinghouse enclosure rewired to utilize the 12 circuit 120/240v panel.
- j. Same conditions and exclusions as noted for base bid.

End of Basis of Estimate

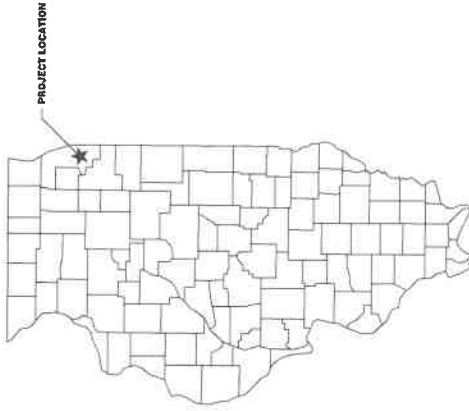


ELEVATED TANK NO. 7 ELECTRICAL IMPROVEMENTS

FOR THE

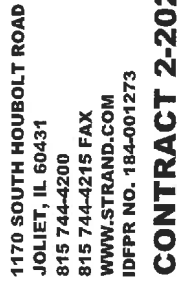
VILLAGE OF ORLAND PARK

COOK COUNTY, ILLINOIS



INDEX OF DRAWINGS		
SHEET TITLE	SHEET NUMBER	DRAWING NUMBER
TITLE SHEET, PROJECT LOCATION, AND LIST OF DRAWINGS	1	000.1
SITE PLAN	2	C1.1
TANK ELEVATION AND PLANS	3	04SM1.1
GROUND LEVEL ELECTRICAL PLANS	4	E1.1
ONE-LINE DIAGRAM AND DETAILS	5	F5.1

ADDRESS	PARCEL DESCRIPTION
13605 CHERRY LANE ORLAND PARK, IL 60462	S2 T36N R12E

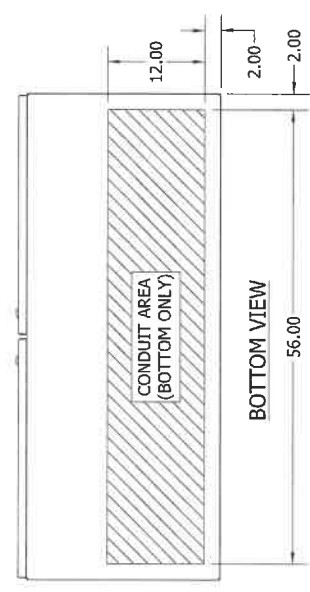
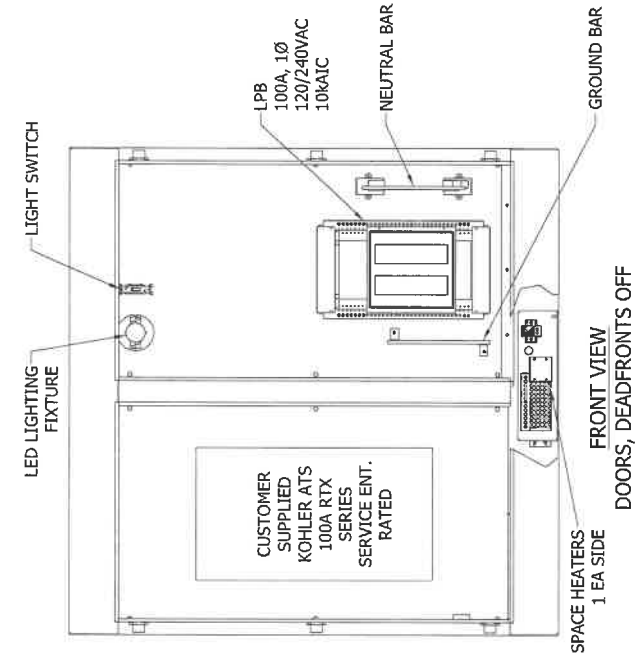
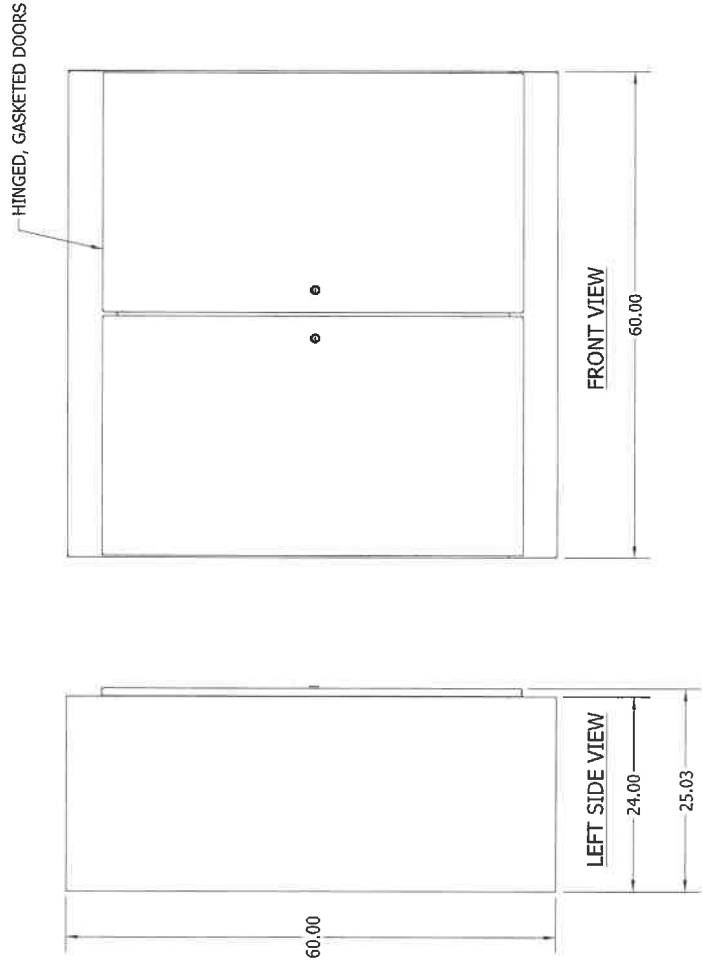


Brent M. Steubrich
 7/6/2021
 Exp. 11/30/2021



ISSUED FOR BID: JULY 6, 2021

10



- 1) GENERAL ENCLOSURE CONSTRUCTION:
- A) FREESTANDING ENCLOSURE NEMA 4X
 - B) FABRICATED FROM 14GA STAINLESS STEEL
 - C) NATURAL FINISH
 - D) TWO HINGED FRONT DOORS
 - E) PADLOCKABLE LATCHES
 - F) GASKETED DOORS
 - G) SYSTEM MUST HAVE ALL DOORS INSTALLED FOR PROPER OPERATION
 - H) ALL DIMENSIONS EXPRESSED IN INCHES

REV	DESCRIPTION	SY	APV	ECN	DATE
A	ORIGINAL RELEASE				9/22/20

**LAKE SHORE ELECTRIC corp**
BEDFORD, OHIO U.S.A.

WIRING DIAGRAM
SERVICE PEDESTAL

SCALE: 1:32 DRN: CJA 09/22/20 CHK: --- / -- / -- APV: --- / -- / --
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PROJ: ORLAND PARK WATER TANK
SERVICE ENTRANCE CABINET, NEMA 4X

CUSTOMER: ORCHARD ELECTRIC
DWG NUMBER: 200578-02
QUOTE/DRW: 201033

Pg 1 OF 1

BILL OF MATERIAL

ITEM	DESCRIPTION
KOHLER ATS RTX MOUNTING PROVISIONS	SERVICE ENTRANCE RATED, 100 AMP, 2 POLE, CUSTOMER SUPPLIED, KOHLER AUTOMATIC TRANSFER SWITCH, STYLE RTX, MOUNTING PROVISIONS PROVIDED, MANUFACTURE: KOHLER (1 REQUIRED)
PANELBOARD "LP-1"	240/120 VOLT, 100 AMP, 1 PHASE - 3 WIRE, CUTLER-HAMMER TYPE MLO PANEL (1 REQUIRED) BREAKER LIST 10,000 AIC @ 240 VOLTS, CUTLER-HAMMER TYPE "BAB" OR "BAB-H" - 100 AMP 2 POLE CATALOG #BAB2100H (1 REQUIRED) - 20 AMP 2 POLE CATALOG #BAB2020 (3 REQUIRED) - 20 AMP 1 POLE CATALOG #BAB1020 (10 REQUIRED)
SPACE HEATERS	350 WATT,250 VOLT, HEATREX HEATER DAYTON CATALOG #276-6 (1 REQUIRED)
LIGHT SWITCH	SINGLE POLE, 20 AMP, BROWN, LEVITON CATALOG #CS-120-2 (1 REQUIRED)
PLASTIC LIGHT BASE	(WITH 100 WATT INCANDESCENT LIGHT BULB) LEVITON CATALOG #8829-CW2 (1 REQUIRED)

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
REV	DESCRIPTION	BY	APV	DATE
 LAKE SHORE ELECTRIC Corp BEDFORD, OHIO U.S.A.				
PARTS LIST SERVICE PEDESTAL				
SCALE: 1:1	DRN: MJD 09/21/20	CHK: --- --/--/--	APV: --- --/--/--	
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PROJ: ORLAND PARK WATER TANK				
CUSTOMER:		DWG NUMBER		
- ORCHARD ELECTRIC -		200578-00		-
		QUOTE/JOB#:	PG	OF
		201033	1	1



The Kohler® Advantage

- High Quality Power**
 Kohler home generators provide advanced voltage and frequency regulation along with ultra-low levels of harmonic distortion for excellent generator power quality to protect your valuable electronics.
- Extraordinary Reliability**
 Kohler is known for extraordinary reliability and performance and backs that up with a premium 5-year or 2000 hour limited warranty.
- Powerful Performance**
 Exclusive Powerboost™ technology provides excellent starting power. The Kohler 14 kW generator can easily start and run a 5 ton air conditioner. §
- Aluminum Enclosure**
 - Attractive aluminum enclosure allows installation as close as 18 inches from your home or small business. †
 - Enclosure panels can be removed without tools to allow easy access for maintenance and service.

Standard Features

- RDC2 Controller**
 - One digital controller manages both the generator set and transfer switch functions (with optional Model RXT).
 - Electronic speed control responds quickly to varying demand.
 - OnCue® Plus Generator Management System for remote monitoring is included with the generator.
- Kohler Command PRO Engine Features**
 - Kohler Command PRO® OHV engine with hydraulic valve lifters for reliable performance without routine valve adjustment or lengthy break-in requirements.
- Designed for Easy Installation**
 - Sturdy aluminum base can be mounted on gravel or a concrete mounting pad.
 - Fuel and electrical connections through the enclosure wall eliminate the need for stub-ups through the base.
 - Customer connection terminal block located near the controller allows easy access for field wiring.
 - Designed for outdoor installation only.
- Certifications**
 - Meets emission regulations for U.S. Environmental Protection Agency (EPA) with both natural gas and LPG.
 - UL 2200/cUL listed (60 Hz model).
 - CSA certification available (60 Hz model).
 - Accepted by the Massachusetts Board of Registration of Plumbers and Gas Fitters.
 - Meets 181 mph wind rating.
- 14RCAL models packaged with a Model RXT automatic transfer switch are available. See page 4 and the Model RXT ATS specification sheet.
- Warranty**
 - 5-year/2000 hour limited warranty for on-grid (standby) applications in locations served by a reliable utility source.
 - 18 month/1000 hour limited warranty for off-grid (non-standby) applications.

Generator Ratings

Alt.	Voltage	Phases	Hz	Standby Ratings				Non-Standby Ratings				Line Circuit Breaker	
				Natural Gas		LPG		Natural Gas		LPG		Amps	Poles
				kW/ kVA	Amps	kW/kVA	Amps	kW/ kVA	Amps	kW/ kVA	Amps		
2F5	120/240	1	60	12/12	50	14/14	58	12/12	50	14/14	58	70	2
	120/208	3	60	12/15	41	13/16	45	12/15	41	13/16	45	50	3
2G5	120/240	3	60	12/15	36	13/16	39	12/15	36	13/16	39	50	3
	277/480	3	60	12/15	18	13/16	20	12/15	18	13/16	20	25	3

Note: The line circuit breaker is automatically selected based on the generator set model and voltage configuration.

RATINGS: Standby ratings apply to installations served by a reliable utility source. All single-phase units are rated at 1.0 power factor. The standby rating is applicable to variable loads with an average load factor of 80% for the duration of the power outage. No overload capacity is specified at this rating. Ratings are in accordance with ISO-3046/1, BS5514, AS2789, and DIN 6271. **GENERAL GUIDELINES FOR DERATING:** ALTITUDE: Derate 4% per 305 m (1000 ft.) elevation above 153 m (500 ft.). TEMPERATURE: Derate 2% per 5.5°C (10°F) temperature increase above 16°C (60°F). Availability is subject to change without notice. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler Co. generator distributor for availability.

§ Check the appliance manufacturer's specifications for actual power requirements. Consult a Kohler® Power Systems professional to calculate your exact residential power system requirements.

† Meets NFPA guidelines for 18 inch clearance to combustible materials. Check state and local codes for minimum distance required from a structure.

Alternator Specifications

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	2-Pole, Rotating Field
Leads, quantity	
2F5	4
2G5	12
Voltage regulator	Digital
Insulation:	NEMA MG1-1.66
Material	Class H
Temperature rise	130°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Direct
Amortisseur windings	Full
Voltage regulation, no-load to full-load RMS	± 1.0%
One-step load acceptance	100% of Rating
Peak motor starting kVA: (35% dip for voltages below)	
240V, 1 ph	2F5 (4 lead) 33 (60 Hz)
240 or 480 V, 3 ph	2G5 (12 lead) 54 (60 Hz)

Alternator Features

- Compliance with NEMA, IEEE, and ANSI standards for temperature rise.
- Self-ventilated and dripproof construction.
- Windings are vacuum-impregnated with epoxy varnish for dependability and long life.
- Superior voltage waveform and minimum harmonic distortion from skewed alternator construction.
- Digital voltage regulator with ±1.0% no-load to full-load RMS regulation.
- Rotating-field alternator with static exciter for excellent load response.
- Total harmonic distortion (THD) from no load to full load with a linear load is less than 5%.

Application Data

Engine

Engine Specifications	
Manufacturer	Kohler
Engine: model, type	CH740 4-Cycle
Cylinder arrangement	V-2
Displacement, cm ³ (cu. in.)	725 (44)
Bore and stroke, mm (in.)	83 x 67 (3.27 x 2.64)
Compression ratio	9:1
Main bearings: quantity, type	2, PTO Side-Load Sleeve Bearings
Rated RPM	
60 Hz	3600
Max. engine power at rated rpm, kW (HP)	
LPG, 60 Hz	17.6 (23.6)
Natural gas, 60 Hz	15.3 (20.5)
Cylinder head material	Aluminum
Valve material	Steel/Stellite®
Piston type and material	Aluminum Alloy
Crankshaft material	Heat Treated, Ductile Iron
Governor: type	Electronic
Frequency regulation, no load to full load	Isochronous
Frequency regulation, steady state	±0.5%
Air cleaner type	Dry

Engine Electrical

Engine Electrical System	
Ignition system	Electronic, Capacitive Discharge
Starter motor rated voltage (DC)	12
Battery (purchased separately):	
Ground	Negative
Volts (DC)	12
Battery quantity	1
Recommended cold cranking amps:	
(CCA) rating for - 18°C (0°F)	500
Group size	51

Exhaust

Exhaust System	
Exhaust temperature exiting the enclosure at rated kW, dry, °C (°F)	260 (500)

Lubrication

Lubricating System	
Type	Full Pressure
Oil capacity (with filter), L (qt.)	1.8 (1.9)
Oil filter: quantity, type §	1, Cartridge
Oil cooler	Integral
§ Kohler recommends the use of Kohler Genuine oil and filters.	

Fuel Pipe Size

Minimum Gas Pipe Size Recommendation, in. NPT		
Pipe Length, m (ft.)	Natural Gas 193,000 Btu/hr.	LPG 203,000 Btu/hr.
8 (25)	3/4	3/4
15 (50)	1	3/4
30 (100)	1	1
46 (150)	1 1/4	1
61 (200)	1 1/4	1

Fuel Requirements

Fuel System		
Fuel types	Natural Gas or LPG	
Fuel supply inlet	1/2 NPT	
Fuel supply pressure, kPa (in. H ₂ O):		
Natural gas	1.2- 2.7 (5-11)	
LP	1.7- 2.7 (7-11)	
Fuel Composition Limits *	Nat. Gas	LPG
Methane, % by volume (minimum)	90 min.	—
Ethane, % by volume (maximum)	4.0 max.	—
Propane, % by volume	1.0 max.	85 min.
Propene, % by volume (maximum)	0.1 max.	5.0 max.
C ₄ and higher, % by volume	0.3 max.	2.5 max.
Sulfur, ppm mass (maximum)	25 max.	
Lower heating value, MJ/m ³ (Btu/ft ³), (minimum)	33.2 (890)	84.2 (2260)
* Contact your local distributor for suitability and rating derates based on fuel compositions outside these limits.		

Operation Requirements

Fuel Consumption, m ³ /hr. (cfh) @ 60Hz				
% Load	Natural Gas		LPG	
100	5.4	(193)	2.3	(81)
75	4.7	(163)	2.1	(75)
50	3.5	(124)	1.8	(60)
25	2.6	(93)	1.2	(45)
Exercise	1.7	(60)	0.8	(30)
Nominal fuel rating: Natural gas: 37 MJ/m ³ (1000 Btu/ft. ³)				
LPG: 93 MJ/m ³ (2500 Btu/ft. ³)				
LPG conversion factors: 8.58 ft. ³ = 1 lb.				
0.535 m ³ = 1 kg				
36.39 ft. ³ = 1 gal.				

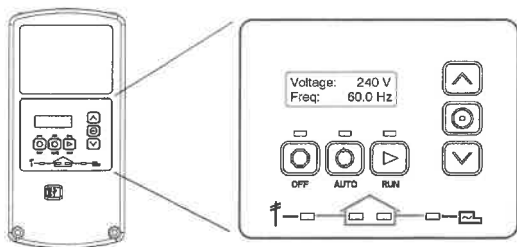
Generator Set Sound Data

Model 14RCA 8 point logarithmic average sound levels are 62 dB(A) during weekly engine exercise and 67dB(A) during full-speed generator diagnostics and normal operation.*

All sound levels are measured at 7 meters with no load.

* Lowest of 8 points measured around the generator. Sound levels at other points around generator may vary depending on installation parameters.

RDC2 Controller



The RDC2 controller provides integrated control for the generator set, Kohler® Model RXT transfer switch, programmable interface module (PIM), and load shed kit.

RDC2 Controller Features

- Membrane keypad:
 - OFF, AUTO, and RUN pushbuttons
 - Select and arrow buttons for access to system configuration and adjustment menus
- LED indicators for OFF, AUTO, and RUN modes

RDC2 Controller Features, Continued

- LED indicators for utility power and generator set source availability and ATS position (Model RXT transfer switch required)
- LCD display:
 - Two lines x 16 characters per line
 - Backlit display with adjustable contrast for excellent visibility in all lighting conditions
- Scrolling system status display:
 - Generator set status
 - Voltage and frequency
 - Engine temperature
 - Oil pressure
 - Battery voltage
 - Engine runtime hours
- Date and time displays
- Smart engine cooldown senses engine temperature
- Digital isochronous governor maintains steady-state speed at all loads
- Digital voltage regulation: ± 1.0% RMS no-load to full-load
- Automatic start with programmed cranking cycle
- Programmable exerciser can be set to start automatically on any future day and time, and run every week or every two weeks
- Exercise modes:
 - Unloaded weekly exercise with complete system diagnostics
 - Unloaded full-speed exercise
 - Loaded full-speed exercise (Model RXT ATS required)
- Front-access mini USB connector for SiteTech™ or USB Utility connection
- Integral Ethernet connector for Kohler® OnCue® Plus
- Built-in 2.5 amp battery charger
- Remote two-wire start/stop capability for optional connection of a Model RDT transfer switch
- Diagnostic messages: Displays diagnostic messages for the engine, generator, Model RXT transfer switch, programmable interface module (PIM), and load management device.
- Maintenance reminders
- System settings:
 - System voltage, frequency, and phase
 - Voltage adjustment
 - Measurement system, English or metric
- ATS status (Model RXT ATS required):
 - Source availability
 - ATS position (normal/utility or emergency/generator)
 - Source voltage and frequency
- ATS control (Model RXT ATS required):
 - Source voltage and frequency settings
 - Engine start time delay
 - Transfer time delays
 - Voltage calibration
 - Fixed pickup and dropout settings
- Programmable Interface Module (PIM) status displays:
 - Input status (active/inactive)
 - Output status (active/inactive)
- Load control menus:
 - Load status
 - Test function

Generator Set Standard Features

- Battery cables
- EPA certified fuel system
- Aluminum sound enclosure
- Critical silencer
- Field-connection terminal block
- Fuel solenoid valve and secondary regulator
- Line circuit breaker
- Multi-fuel system, LPG/natural gas, field-convertible
- Oil drain extension with shutoff valve
- OnCue® Plus Generator Management System
- Premium 5-year/2000 hour limited standby warranty
- 18-month/1000 hour limited warranty for non-standby (off-grid) applications
- RDC2 generator set/ATS controller
- Rodent-resistant construction
- Sound-deadening, flame-retardant foam per UL 94, class HF-1

Available Options

Approvals and Listings

- ☐ CSA approval

Concrete Mounting Pads

- ☐ Concrete mounting pad, 3 in. thick
- ☐ Concrete mounting pad, 4 in. thick (recommended for storm-prone areas)

Electrical Accessories

- ☒ Battery
- ☒ Battery heater, 120VAC
- ☐ Battery heater, 240VAC
- ☐ Cold weather package, 120VAC
- ☐ Cold weather package, 240VAC
- ☒ Emergency stop kit
- ☐ PowerSync® Automatic Paralleling Module (APM) (single phase only; parallel two 14kW residential generator sets with the RDC2 controller)
- ☐ Programmable interface module (PIM) (provides 2 digital inputs and 6 relay outputs)

Fuel System Accessories

- ☐ Flexible fuel line (included on QS models)
 - ☒ Carburetor heater, 120 VAC
 - ☐ Carburetor heater, 240 VAC
- Carburetor heater is recommended for reliable starting at temperatures below 0°C (32°F)

Literature

- ☐ General maintenance literature kit
- ☐ Overhaul literature kit
- ☐ Production literature kit

Maintenance

- ☐ Maintenance kit (includes air filter, oil, oil filter, and spark plugs)

Automatic Transfer Switches and Accessories

- ☐ Model RDT ATS
- ☒ Model RXT ATS
- ☐ Model RXT ATS with combined interface/load management board
- ☐ Load shed kit for RXT or RDT
- ☐ Power relay modules (use up to 4 relay modules for each load management device)
- ☐ Other Kohler® ATS

14RCAL Model Packages

- ☐ 14RCAL with 100 amp RXT with 16-space load center and NEMA 1 steel enclosure for indoor installation
- ☐ 14RCAL with 200 amp service entrance-rated Model RXT with combined interface/load management board and corrosion-resistant NEMA 3R aluminum enclosure

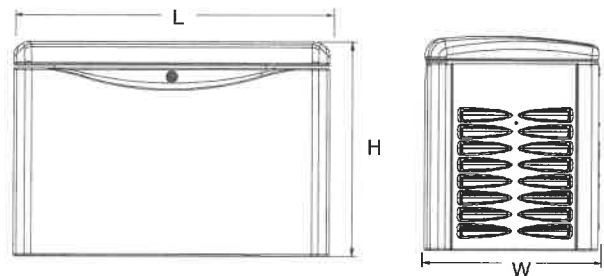
Warranty

- ☐ 5- Year Comprehensive Limited Warranty
- ☐ 10- Year Comprehensive Limited Warranty

Generator Set Dimensions and Weights

Generator Set Size, L x W x H: 1193 x 666 x 817 mm
(47 x 26.2 x 32.2 in.)

Shipping Weight:
14RCA Generator Set 200 kg (440 lb.)
14RCAL with 100 A RXT ATS w/LC: 227 kg (500 lbs.)
14RCAL with 200 A RXT SE ATS 222 kg (490 lb.)



NOTE: Dimensions are provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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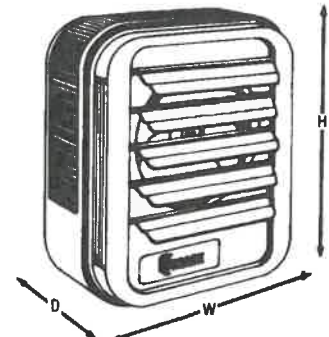


470 Beauty Spot Rd. E, Bennettsville, SC 29512
visit www.qmarkmep.com for more info

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS*

- Unit mounts either horizontally or vertically. Totally versatile. For factories, warehouses, garages, stores, shipping rooms, power stations. Can be used for primary, supplementary, spot, or dual-system heating.
- Wide range of optional control kits are field installable, increasing the MUH adaptability to the specification market.
- Forced air unit heater with 10 power ratings; from 3KW to 50 KW heating output; 208, 240, 277 and 480V, 10,230 to 170,500 BTU/hr.
- 32 compatible models (no need to try to assemble a heating system from 70 or 80 models!)
- Heavy gauge die-formed steel housing. Two-toned, smartly styled with stainless steel louvers.
- Advanced pull-through air flow design draws air across heating element for more even air distribution and cooler element operation.
- Specially designed venturi outlet to meet that added throw as required in vertical position.
- Branch circuit fusing (when required).
- Completely enclosed fan motor.
- 1- or 3-phase wiring on 5 through 10 KW 208/240V and 15 KW 208V units (field interchangeable).
- Aluminum-finned, copper clad steel sheath heating element has longer useful life, because of cooler sheath temperature and faster heat dissipation.
- 24V control transformer standard on most models, providing a safer and more accurate means of temperature control. 3KW and 5KW, 208-277V, have line voltage controls as standard (24V control available on made-to-order basis).
- Automatic reset linear thermal cut-out, capillary type, provides protection over entire length of element areas (Manual reset protection available on made-to-order basis).

- 2-speed fan selector switch (25 to 50 KW models).
- Fan delay feature eliminates cold drafts. Element heats up before fan cuts in, then fan continues to distribute heat after element shuts off.
- Ruggedly built, yet lighter weight for easier installation. No piping flutes, valves, or traps.
- Individually adjustable discharge louvers to control air flow.
- Choice of optional diffusers for variety of air patterns, maximizing heat concentration and coverage in the vertical position.
- Meets all UL, NEC, and OSHA requirements.



DIMENSIONS

CAT. NO.	HEIGHT	WIDTH	DEPTH
MUH-03 & 05	16"	14"	7 1/2"
MUH-07 & 10	21 3/4"	19"	7 1/2"
MUH-15 & 20	21 3/4"	19"	12 3/4"
MUH-25 & 30	30"	26 5/8"	11 3/4"
MUH-40 & 50	30"	26 5/8"	17 1/8"

SELECTION CHART

CAT. NO.	VOLTS	ELECTRICAL DATA					CONTROL VOLT (1)	2-STAGE ELEMENT CONTROL	AIR DELIVERY DATA			FAN MOTOR DATA			MAXIMUM EFFECTIVE MOUNTING HEIGHT		HORZ. AIR THROW	WIRE SIZE	INSTALLED WEIGHT (LBS.) W/BRACK.
		PHASE	KW	BTU/HR.	AMPS (3)				CFM(2)	FPM(2)	ΔT (F)	VOLTS	RPM(2)	HP	HORIZ.	VERT.			
MUH-03-21	208	1-Ø	2.0	10.0	14.5	208	N/A	N/A	350	800	27 *	208	1600	1/100	8	9	12	AWG 12	27
MUH-03-21	208/240	1-Ø	2.2/3.0	7.5/10.2	11.0/12.5	208/240	N/A	N/A	350	800	27 *	208/240	1600	1/100	8	9	12	AWG 12	27
MUH-03-31	277	1-Ø	3.0	14.5	11.5	277	N/A	N/A	350	800	27 *	277	1600	1/100	8	9	12	AWG 12	27
MUH-03-31	347	1-Ø	3.0	10.2	8.6	24	N/A	N/A	350	800	27 *	347	1600	1/100	8	9	12	AWG 14	27
MUH-03-41	480	3-Ø	3.0	10.2	3.6	24	N/A	N/A	350	800	27 *	480	1600	1/100	8	9	12	AWG 14	27
MUH-03-61	600	3-Ø	3.0	10.2	2.9	24	N/A	N/A	350	800	27 *	600	1600	1/100	8	9	12	AWG 14	27
MUH-05-21	208	1-3Ø	5.0	17.0	24.0	208	5A	5A	350	800	45 *	208	1600	1/100	8	9	12	AWG 10	27
MUH-05-21	208/240	1-3Ø	3.75/5.0	12.5/17.0	16.0/21.0	208/240	5A	5A	350	800	45 *	208/240	1600	1/100	8	9	12	AWG 10	27
MUH-05-71	277	1-Ø	5.0	17.0	18.0	277	N/A	N/A	350	800	45 *	277	1600	1/100	8	9	12	AWG 10	27
MUH-05-31	347	1-Ø	5.0	17.0	14.4	24	N/A	N/A	350	800	45 *	347	1600	1/100	8	9	12	AWG 10	27
MUH-05-41	480	3-Ø	5.0	17.0	6.0	24	N/A	N/A	350	800	45 *	480	1600	1/100	8	9	12	AWG 14	27
MUH-05-61	600	3-Ø	5.0	17.0	4.8	24	N/A	N/A	350	800	45 *	600	1600	1/100	8	9	12	AWG 10	27
MUH-07-8	208	1-3Ø	7.5	25.6	38.0	24	5B	5B	650	970	37 *	208	1800	1/30	9	14	18	AWG 6	38
MUH-07-2	208/240	1-3Ø	5.8/7.5	19.1/25.6	27.0/31.3	24	5B	5B	650	970	37 *	208/240	1800	1/30	9	14	18	AWG 8	38
MUH-07-7	277	1-Ø	7.5	25.6	27.0	24	5B	5B	650	970	37 *	277	1600	1/30	9	14	18	AWG 8	38
MUH-07-3	347	1-Ø	7.5	25.6	21.6	24	5B	5B	650	970	37 *	347	1600	1/30	9	14	18	AWG 14	38
MUH-07-4	480	3-Ø	7.5	25.6	9.0	24	5B	5B	650	970	37 *	480	1800	1/30	9	14	18	AWG 14	38
MUH-07-6	600	3-Ø	7.5	25.6	7.3	24	5B	5B	650	970	37 *	600	1600	1/30	9	14	18	AWG 14	38
MUH-10-8	208	1-3Ø	10.0	34.1	48.0	24	5B	5B	650	970	49 *	208	1600	1/30	9	14	18	AWG 4	38
MUH-10-2	208/240	1-3Ø	7.5/10.0	25.6/34.1	36.0/42.0	24	5B	5B	650	970	49 *	208/240	1600	1/30	9	14	18	AWG 6	38
MUH-10-7	277	1-Ø	10.0	34.1	36.0	24	5B	5B	650	970	49 *	277	1600	1/30	9	14	18	AWG 6	38
MUH-10-3	347	1-Ø	10.0	34.1	28.8	24	5B	5B	650	970	49 *	347	1600	1/30	9	14	18	AWG 14	38
MUH-10-4	480	3-Ø	10.0	34.1	12.0	24	5B	5B	650	970	49 *	480	1600	1/30	9	14	18	AWG 14	38
MUH-10-6	600	3-Ø	10.0	34.1	9.7	24	5B	5B	650	970	49 *	600	1600	1/30	9	14	18	AWG 14	38
MUH-15-8	208	1-3Ø	15.0	51.2	72.0	24	5A	5A	910	1640	52 *	208	1530	1/20	11	20	35	AWG 2	53
MUH-15-2	208/240	3-Ø	11.2/15.0	38.2/51.2	31.3/36.1	24	5C	5C	910	1640	52 *	208/240	1530	1/20	11	20	35	AWG 6	53
MUH-15-4	480	3-Ø	15.0	51.2	18.0	24	5C	5C	910	1640	52 *	480	1530	1/20	11	20	35	AWG 10	53
MUH-15-6	600	3-Ø	15.0	51.2	14.5	24	5C	5C	910	1640	52 *	600	1530	1/20	11	20	35	AWG 12	53
MUH-20-8	208	3-Ø	20.0	68.2	58.0	24	5A	5A	1320	2060	48 *	208	1500	1/10	12	23	41	AWG 4	60
MUH-20-2	208/240	3-Ø	15.0/20.0	51.2/68.2	41.2/48.0	24	5C	5C	1320	2060	48 *	208/240	1500	1/10	12	23	41	AWG 4	60
MUH-20-4	480	3-Ø	20.0	68.2	24.0	24	5C	5C	1320	2060	48 *	480	1500	1/10	12	23	41	AWG 10	60
MUH-20-6	600	3-Ø	20.0	68.2	19.3	24	5C	5C	1320	2060	48 *	600	1500	1/10	12	23	41	AWG 12	60
MUH-25-2	208/240	3-Ø	18.7/25.0	63.8/85.2	52.0/60.0	24	5A	5A	2100/1800	2100/2030	38 */44 *	208/240	1600/1375	1/4	13	23	50	AWG 3	93
MUH-25-4	480	3-Ø	25.0	85.2	30.0	24	5C	5C	2100/1800	2100/2030	38 */44 *	480	1600/1375	1/4	13	23	50	AWG 8	93
MUH-25-6	600	3-Ø	25.0	85.2	24.2	24	5C	5C	2100/1800	2100/2030	38 */44 *	600	1600/1375	1/4	13	23	50	AWG 10	93
MUH-30-8	208	3-Ø	30.0	102.3	84.0	24	5A	5A	2100/1800	2100/2030	45 */53 *	208	1600/1375	1/4	12	20	50	AWG 1	93
MUH-30-2	208/240	3-Ø	22.5/30.0	76.7/102.3	63.0/72.3	24	5A	5A	2100/1800	2100/2030	45 */53 *	208/240	1600/1375	1/4	12	20	50	AWG 2	93
MUH-30-4	480	3-Ø	30.0	102.3	36.0	24	5C	5C	2100/1800	2100/2030	45 */53 *	480	1600/1375	1/4	12	20	50	AWG 6	93
MUH-30-6	600	3-Ø	30.0	102.3	29.0	24	5C	5C	2100/1800	2100/2030	45 */53 *	600	1600/1375	1/4	12	20	50	AWG 8	93
MUH-40-2	208/240	3-Ø	30.0/40.0	102.3/136.4	83.4/96.4	24	5A	5A	3000/2600	3260/2900	42 */49 *	208/240	1525/1420	1/2	15	28	60	AWG 1/0	114
MUH-40-4	480	3-Ø	40.0	136.4	48.0	24	5A	5A	3000/2600	3260/2900	42 */49 *	480	1525/1420	1/2	15	28	60	AWG 4	114
MUH-40-6	600	3-Ø	40.0	136.4	38.7	24	5A	5A	3000/2600	3260/2900	42 */49 *	600	1525/1420	1/2	15	28	60	AWG 6	114
MUH-50-8	208	3-Ø	50.0	170.5	138.0	24	5A	5A	3000/2600	3260/2900	53 */61 *	208	1525/1420	1/2	15	25	60	AWG 4/0	114
MUH-50-2	208/240	3-Ø	37.5/50.0	127.3/170.5	104.2/120.4	24	5A	5A	3000/2600	3260/2900	53 */61 *	208/240	1525/1420	1/2	15	25	60	AWG 3/0	114
MUH-50-4	480	3-Ø	50.0	170.5	60.2	24	5A	5A	3000/2600	3260/2900	53 */61 *	480	1525/1420	1/2	15	25	60	AWG 4	114
MUH-50-6	600	3-Ø	50.0	170.5	48.3	24	5A	5A	3000/2600	3260/2900	53 */61 *	600	1525/1420	1/2	15	25	60	AWG 3	114

Note:

- All standard units are supplied with a low voltage control transformer and contactor (24V) except MUH-03 & 05, 208, 240 & 277 volt models. Low voltage control on these units are available on made to order. All units are also available on special order for 120 volt control; internal and transformer or external without transformer.
- On dual voltage units; CFM, FPM, and RPM are shown at higher voltage.
- On dual phase units, maximum amp draw is listed for respective voltage.
- 25 thru 50 KW models have two speed motors and dual CFM ratings.

5A. Standard.

5B. Optional - made to order - amp load unbalanced on 3 Phase.

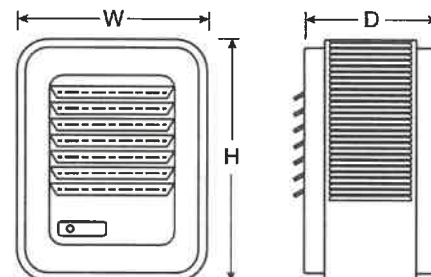
5C. Optional - made to order - amp load balanced on 3 Phase.

MUH SERIES

UNIT HEATER

DIMENSIONS

CATALOG NO.	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)
MUH03 & 05	16	14	7-1/2
MUH07 & 10	21-3/4	19	7-1/2
MUH15 & 20	21-3/4	19	12-3/4
MUH25 & 30	30	26-5/8	11-3/4
MUH40 & 50	30	26-5/8	17-1/8



OPTIONAL FIELD-INSTALLED CONTROLS

CATALOG NO.	UPC	DESCRIPTION	ELECTRICAL RATING	COMPATIBLE WITH
UHMT1	6 85360 15241 7	Single Pole Internal Thermostat-Temp Range: 40°- 85°F	25A @ 120, 240VAC Res. 22A @ 277VAC Res.	All MUH Series Heaters (except MUH0521 3 PH, MUH0581 3 PH which use UHMT2)
UHMT2	6 85360 15242 4	Two Stage Internal Thermostat-Temp Range: 40°- 85°F	25A @ 120, 240VAC Res. 22A @ 277VAC Res. 125VA	MUH0521 3 PH, MUH0581 3 PH, MUH158, MUH208, MUH252, MUH302, MUH308, MUH402, MUH404, MUH406, MUH502, MUH504, MUH506, MUH508
MCFS	6 85360 04637 2	Internal Summer Fan Switch 250, 480, 600V.A.C. 1,2 OR 3 PH	Pilot Duty 6A, 600VAC Res. 2 HP	All MUH Series Heaters
MRFS1	6 85360 04708 9	Remote Summer Fan Switch (Line Voltage)	2 HP, 250-480VAC	All MUH Series Heaters
MRFS2	6 85360 04709 6	Remote Summer Fan Switch with Relay (24V Coil-Single Pole Normally Open)	6 AFL, 35 ALR, 250VAC, 60Hz 3 AFL, 18 ALR, 480VAC, 60Hz	All MUH Series Heaters (except MUH0321, MUH0371, MUH0381, MUH0521, MUH0571, MUH0581) Units unless optional control transformer is supplied
MHRT	6 85360 04694 5	Heat Recovery Thermostat with Relay (24V Coil-Single Pole Normally Open) Hi - 120°F, Low - 60°F	6 AFL, 35 ALR, 250VAC, 60Hz 3 AFL, 18 ALR, 480VAC, 60Hz	All MUH Series Heaters (except MUH0321, MUH0371, MUH0381, MUH0521, MUH0571, MUH0581) Units unless optional control transformer is supplied
MPDS25	6 85360 04703 4	Power Disconnect Switch (3-Pole)	30A @ 600VAC, Res.	MUH0321, MUH0341, MUH0371, MUH0381, MUH0521, MUH0541, MUH0571, MUH0581, MUH073, MUH074, MUH076, MUH104, MUH106, MUH154, MUH156, MUH204, MUH206
MPDS60	6 85360 04704 1	Power Disconnect Switch (3-Pole)	80A @ 600VAC, Res.	MUH072, MUH077, MUH078, MUH102, MUH103, MUH107, MUH108, MUH152, MUH202, MUH208, MUH252, MUH254, MUH256, MUH304, MUH306, MUH404, MUH406, MUH504, MUH506

NOTE: Any field installed options assembled in the factory require added surcharge. See price book for charges. MPDS60 disconnect switch is not suitable for field installation on 7.5kw and 10kw unit heaters.

DIFFUSER SELECTOR TABLES FOR VERTICAL MOUNTING

CATALOG NO.	DESCRIPTION	CATALOG NO.	MAX. MOUNTING HEIGHT	(A) DIMENSION	DIFFUSER PATTERN AND AREA
NONE	WITHOUT DIFFUSER No diffuser needed where a straight downflow air pattern is required. For maximum air throw, remove louvers. Any of three diffusers can be added to basic heater.	MUH03 & MUH05	9	18 26	
NONE		MUH07 & MUH10	14		
NONE		MUH15	20	35 40	
NONE		MUH20	23		
NONE		MUH25	23	63 55	
NONE		MUH30	20		
NONE	LOUVER DIFFUSER Permits directional (straight line) air flow as in air curtain application over doorways. Rectangular coverage, Louvers can be turned in either direction.	MUH40	28	70 63	
NONE		MUH50	25		
MLDS		MUH03 & MUH05	9	25(A) 12(B)	
MLDM		MUH07 & MUH10	14	39(A) 19(B)	
MLDM		MUH15	18	50(A) 25(B)	
MLDM		MUH20	20	56(A) 28(B)	
MLDL		MUH25	23	72(A) 36(B)	
MLDL		MUH30	20		
MLDL		MUH40	24	88(A) 44(B)	
MLDL		MUH50	22	80(A) 40(B)	

MUH SERIES

UNIT HEATER

OPTIONAL MOUNTING BRACKETS

CATALOG NO.	UPC	COMPATIBLE WITH	SHIP WT. (LBS)
B10	6 85360 15229 5	MUH03 - 10	8
B20	6 85360 15230 1	MUH15 & 20	10
B30	6 85360 15231 8	MUH25 & 30	13
B50	6 85360 15232 5	MUH40 & 50	15

OPTIONAL CEILING MOUNTING BRACKETS

CATALOG NO.	UPC	COMPATIBLE WITH	SHIP WT. (LBS)
CMB10	6 85360 15236 3	MUH03 - 10	3
CMB20	6 85360 15237 0	MUH15 & 20	4
CMB30	6 85360 15238 7	MUH25 & 30	5
CMB50	6 85360 15239 4	MUH40 & 50	6

OPTIONAL VERTICAL CEILING MOUNTING BRACKETS

CATALOG NO.	UPC	COMPATIBLE WITH	SHIP WT. (LBS)
VDMB5	6 85360 15245 5	MUH03 - 05	5
VDMB20	6 85360 15246 2	MUH07 - 20	7
VDMB50	6 85360 15247 9	MUH25 - 50	9

MOUNTING LIMITATIONS: Unit heaters should not be used in potentially explosive atmospheres. The finish is not intended for direct salt spray exposure in marine applications or the highly corrosive atmospheres of swimming pools, chemical storage bins, etc. Do not install unit heaters above recommended maximum mounting height. Obstructions must not block unit heater air inlet or discharge. Heaters must be mounted at least 7 ft. above the floor to prevent accidental contact with the heating element or fan blade which could cause injury.

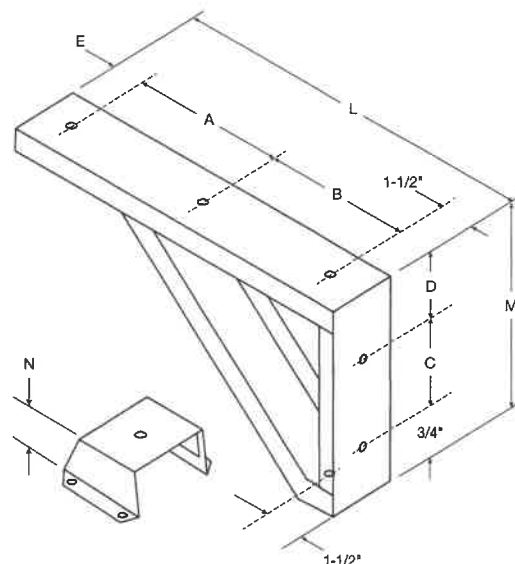
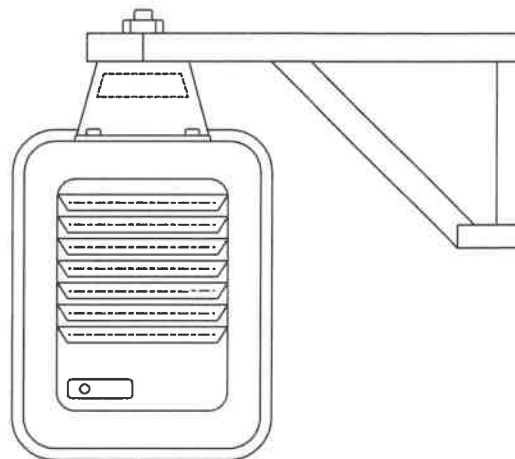
FACTORY-INSTALLED OPTIONS FOR CONTROLS & ACCESSORIES

DESCRIPTION
MUH03 & 05 (208, 208/240, 277V Supply) 24 or 120V Control Transformer and Power Contactor 24 or 120V H.C. Power Contactor
MUH03 & 05 (480V Supply) & MUH07 thru MUH50 Optional 120V Control
2-Stage Control of Elements (See Note 5)
Manual Reset
Outlet Mesh (Bird Screen) For all MUH Heaters

NOTE: Any factory-installed options require added surcharge. See price book for charges or contact factory.

BRACKET SIZE

DIMENSION	3-20 kW (IN.)	25-50 kW (IN.)
A	7-1/4	9-7/16
B	9-1/2	14-3/8
C	7-1/4	12-1/8
D	11-5/16	2-1/16
E	2-1/4	3
L	20-1/2	28-15/16
M	9-15/16	14-15/16
N	3-1/4	4-1/2



THERMOSTATS | LINE VOLTAGE



	MS26	MD26	M601W	M602W	M601TPW	M602TPW	M611W	M612W
ACTION	Snap Action		Snap Action		Snap Action		Snap Action	
TYPE	SPST	DPST	SPST	DPST	SPST	DPST	SPST	DPST
WATT RATING	Model MD26 has Positive OFF		Model M602W has Positive OFF		Model M602TPW has Positive OFF		Model M612W has Positive OFF	
120V	22A		22A		22A		22A	
208V	22A		22A		22A		22A	
240V	22A		22A		22A		22A	
277V	18A		18A		18A		18A	
PILOT DUTY	No		Yes 125VA		Yes 125VA		Yes 125VA	
TEMP. RANGE (°F)	50°F to 80°F		45°F to 75°F		45°F to 75°F		45°F to 75°F	
DIFFERENTIAL	+/- 5°F		+/- 4°F		+/- 4°F		+/- 2 1/2°F	
FEATURES	These economy thermostats are the snap action type that are used in apartment construction. Good thermostat for its value. Ideal for radiant cove heaters and baseboard.		These bi-metal snap-action thermostats are sensitive. Large knob allow for easy adjustment.		Same as M601W and M602W except the cover mounting cover offer tamper-proof feature.		Built-in heat anticipator assures closer control of room temperature.	



	M600MTP	M600S	T100	T200	WR651	WR661
ACTION	Modulation (2-stage)	Simultaneous switching (double ckt)	Snap Action with Heat Anticipator		Creep (Hydraulic)	Action
TYPE	DPST		SPST	DPST	SPST	DPST
WATT RATING						
120V	22A	22A	22A		22A	
208V	22A	22A	22A		22A	
240V	22A	22A	22A		22A	
277V	18A	18A	18A		na	
PILOT DUTY	Yes 125VA	Yes 125VA	Yes 125VA		No	
TEMP. RANGE (°F)	50°F to 80°F	50°F to 80°F	50°F to 90°F		40°F to 85°F	
DIFFERENTIAL	Accuracy: Within 3°F of setpoint	Accuracy: Within 3°F of setpoint	+/- 2 1/2°F		+/- 2°F	
FEATURES	One thermostat controls two separate heating circuits and reduces input during light load periods. Second stage activates when temperature drops to approx. 1-1/2°F below the first stage turn-ON temperature.	Simultaneous control of two heating loads. Used where the total load slightly exceeds capacity of a single switch, where two thermostats are impractical. Both switches are calibrated to operate at approx. the same temperature.	Line voltage thermostat with everything; Performance, reliability, durability, and a large knob. Built-in heat anticipation assures close temperature regulation. Large knob for easy rotation.		Extra-sensitive element in control knob senses radiant heat as well as air temperature for ultimate control. May cause slight radio or television interference in outlying fringe areas.	





860 SERIES LED OBSTRUCTION LIGHT



FEATURES / BENEFITS

- ▲ Available as a single or dual unit
- ▲ Available in 12VDC, 24VDC, 48VDC, 120VAC, and 220VAC versions (50 or 60HZ)
- ▲ Earth grounding provisions provided
- ▲ Unique optically designed lens to enhance LED operation and provide 360° visibility
- ▲ State-of-the-art high-flux LED technology
- ▲ Lasts years longer than an incandescent
- ▲ Weather/corrosion resistant lamp assembly and housing
- ▲ Self-contained wiring compartment eliminates additional boxes
- ▲ Threaded 1" and 3/4" bottom hub for mounting
- ▲ Can be operated steady or flashed (controller not supplied)
- ▲ 5 year warranty
- ▲ Resistant to shock and vibration
- ▲ IP 65 / IP 66 / NEMA 4X rated

US PATENT# 6,425,678

Certified to: FAA AC NO: 150/5345-43F
Canadian Aviation Regulation CAR 621.19
(Transport Canada)

Compliant to: ICAO
(Annex 14 - Fourth Edition, July 2004)

APPLICATION

- ▲ The 860 Series is the FAA type L810 red LED obstruction light. Designed for steady burning, this fixture is used to mark any obstacle that may present hazards to aircraft navigation. The US patent office has issued patent number 6,425,678 B1 for this series.

OPERATING CONDITIONS

- ▲ Temperature: -67°F to +131°F (-55°C to +55°C)

FINISH

- ▲ Cast Aluminum
- ▲ Stainless Steel Hardware



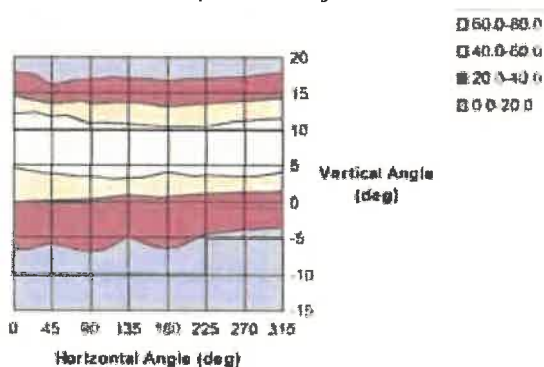
P&R Technologies, Inc.
P.O. Box 554
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Phone 503-292-8682
Toll Free 800-722-8078
Fax 503-292-8697

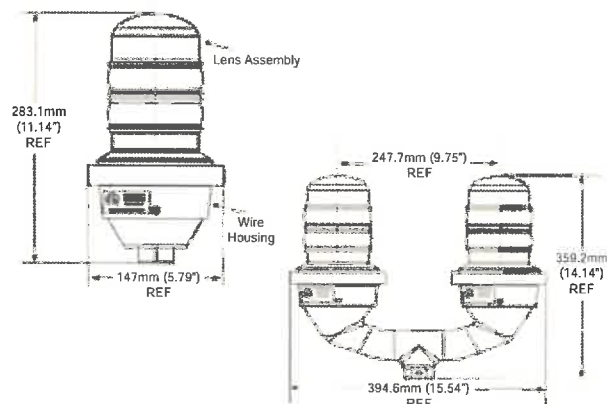


PHOTOMETRIC DATA

L810 Isotropic Intensity Chart



MECHANICAL DIMENSIONS



ORDERING INFORMATION

Single Units

Part Number	Volts
860-1R01-001*	120 VAC
860-6R01-001**	120 VAC
860-1R02-001	220 VAC
860-1R03-001*	12 VDC
860-3R03-001 (Low wattage)	12 VDC
860-1R05-001*	24 VDC
860-6R05-001**	24 VDC
860-1R04-001*	48 VDC

Replacement Light Assemblies

Part Number	Volts
860-1R01	120 VAC
860-6R01**	120 VAC
860-1R02	220 VAC
860-1R03	12 VDC
860-3R03 (Low wattage)	12 VDC
860-1R05	24 VDC
860-6R05**	24 VDC
860-1R04	48 VDC

Dual Units

Part Number	Volts
860-1R01-002*	120 VAC
860-6R01-002	120 VAC
860-1R02-002	220 VAC
860-1R03-002*	12 VDC
860-3R03-002 (Low wattage)	12 VDC
860-1R05-002*	24 VDC
860-6R05-002**	24 VDC
860-1R04-002*	48 VDC

* FAA approved
** Canadian Spec

WEIGHTS & MEASUREMENTS

PART NUMBER

Single Unit
Dual Unit

APPROX. SHIPPING WEIGHT

7.14 lbs
16.06 lbs

CONTAINER DIMENSIONS

16" x 9" x 8"
22" x 17" x 9"

ELECTRICAL SPECIFICATIONS

	PF	VA	OPERATING VOLTAGE			WATTS (W)			AMPS
			Min	Typ	Max	Min	Typ	Max	
120VAC UNITS	.3	46.5	92	120	132	10	14.5	17.5	120mA
220VAC UNITS (60Hz)	.17	72	198	220	264	11	14.5	17.5	120mA
220VAC UNITS (50Hz)	-	-	198	220	264	12	14	17	-
12VDC UNITS (STANDARD)	-	-	10	12	14	20	24.5	29	2.0 A
12VDC UNITS (LOW WATTAGE)	-	-	10	12	14	7.0	7.50	8.8	.62 A
24VDC UNITS	-	-	21	24	27	17	22	29	920mA
48VDC UNITS	-	-	43	48	53	11	13.5	16	275mA

P&R Technologies, Inc.

P.O. Box 554

Portland, Oregon 97207

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Phone 503-292-8682

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emium lighting, see differently

INTERIOR LIGHTING

Linear LED Fixtures

5 Year Full Product Warranty
50,000 hrs rated life

Emium linear LED fixtures offer a cost-effective, energy-efficient lighting crossover solution that combines aesthetic appeal, quality, and professional level performance for a wide variety of environments and applications.

Ideal for commercial environments demanding high visibility, factory and warehouse work stations, and retail drug and grocery store aisles.

The waterproof "TP" version is an excellent replacement for fluorescent vapor tight fixtures. Their IP65 rating make them impervious to the elements (water, dust, insects, etc.). Can be use in virtually any environment.

Emium carries a complete line of products to meet all types of commercial needs. Our products are engineered to install very simply and make the transition from HID or fluorescent lighting very cost-effective.

FEATURES

Available in two housing design configurations, Tri-proof and Batten

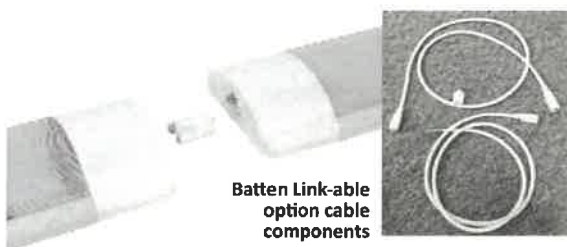
Can be series linked or installed independently for stand-alone applications

Exceptional illumination in a small utilitarian package

TP Version rated IP65 waterproof

Reduce energy consumption and operating costs by 70% or more.

Maintenance free operation - lasts 10x longer than conventional lighting



Batten Link-able
option cable
components



for more information email info@emium.com
or call 224.735.3435 | www.emium.com

INTERIOR LIGHTING

Ordering Guide: Linear LED Fixture: Example: EL-MC-BA-01-20W-50K

Fixture Type	Housing	Wattage	CCT (X,X00) Kelvin	NOTE: EL-MC-TP options available include 0-10V dimming, Micro-wave Motion Sensor, Emergency back-up module.
EL-MC				
EL-MC Linear LED Series	BA-01 Ballast TP-03 Tri-proof	20 20W 30 30W 40 40W 60 60W	35K 3500K 40K 4000K 50K 5000K	

SPECIFICATIONS

Model	EL-MC-BA-01-20	EL-MC-BA-01-40	EL-MC-TP-03-30	EL-MC-TP-03-60	
Length	2'	4'	2'	4'	
Power Consumption	20W	40W	30W	60W	
Lumen Output	2,800	5,600	3,200	6,300	
Waterproof Rating	IP54		IP65		
Control Options	N/A		Dimmable, Micro-wave Motion Sensor, Emergency back-up module.		
Input Voltage	100 - 277VAC				
Mounting Options	Surface, T-Grid, Suspended, Cove				
Color Temp	3500K	4000K	5000K	4000K	5000K
CRI	> 82				
Link-ability	Specify linkable or non-link for flush to junction box installations			Yes, standard	
Rated Life	More than 50,000 hrs.				



EL-MC-BA-01-40

Able to link up to 14, 2 ft. fixtures, and
up to 6, 4 ft. fixtures end to end.



EL-MC-TP-03-60

Able to link up to 10, 4 ft. fixtures, and
up to 20, 2 ft. fixtures end to end.





emium lighting, see differently

EXTERIOR LIGHTING

Angle Adjustable LED Wall Packs

5 Year Full Product Warranty

The Emium slim angle adjustable wall pack is available in four wattage options for a variety of applications including building perimeter, entrances, stairways and security lighting. The WP10 series of luminaries provides a low-profile architectural style with the power of bright, energy efficient LEDs. It has a rugged aluminum construction with multi-mount capabilities. 0° to +90° tilt adjustments.

Maintenance free operation - lasts 10+ times longer than conventional lighting.

Photocell option is available.

0-10V dimming capability.

FEATURES

Sealed die-casting profile for outdoor applications.

Suitable for applications requiring 3G testing prescribed by ANSI C136.31.

Tempered UV coated flat lens provide outstanding performance, uniformity and glare control.

Estimated 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Mounting

0° to +90° tilt adjustments. To meet the needs of customers with different lighting angles.



Housing

Suitable for both indoor and outdoor application, also suitable for J-BOX mounting and surface mounting.



Photocell

Optional for photocell, and allows for security and energy saving.

Lens

Polycarbonate optical lens with UV stabilizers do not exhibit yellowing and deformation.



for more information email info@emium.com
or call 224.735.3435 | www.emium.com

EXTERIOR LIGHTING

Ordering Guide:

Angle Adjustable Wall Pack:

Example - EL-MS-WP10-40W27V-50KD-D

Fixture Type	Wattage	Voltage	CCT (X,X00) Kelvin	Finish	Dimmable
EL-MS-WP10					
EL-MS-WP10 Adjustable Wall Pack	27W 40W 67W 80W	27V 120-277V	40K 4000K 50K 5000K	D - Dark Bronze B - Black W - White	D 0-10V DIM Blank NO DIM

SPECIFICATIONS

Model	EL-MS-WP10-27W27V	EL-MS-WP10-40W27V	EL-MS-WP10-67W27V	EL-MS-WP10-80W27V
Power	27W	40W	67W	80W
Lumen Output	Up to 3,600	Up to 5,200	Up to 8,800	Up to 10,500
Input Voltage	120 - 277VAC, Greater than 0.9 power factor, Less than 20% harmonic distortion			
Color Temp	4000K 5000K			
CRI	+ 70CRI			
Controls	0-10V dimming – standard (27W no dimming) Photocell – optional			
Operating Temperature	Suitable for operation in -40°F to 104°F ambient environments			
Housing Finish	Dark Bronze (standard), Black, White			
Rated Life	More than 50,000 hrs			

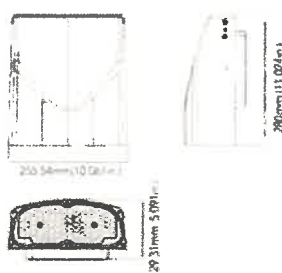
DIMENSIONS

unit: mm/inch

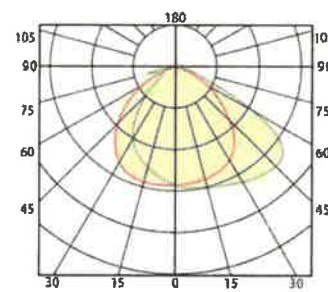
Small size: 27W/40W

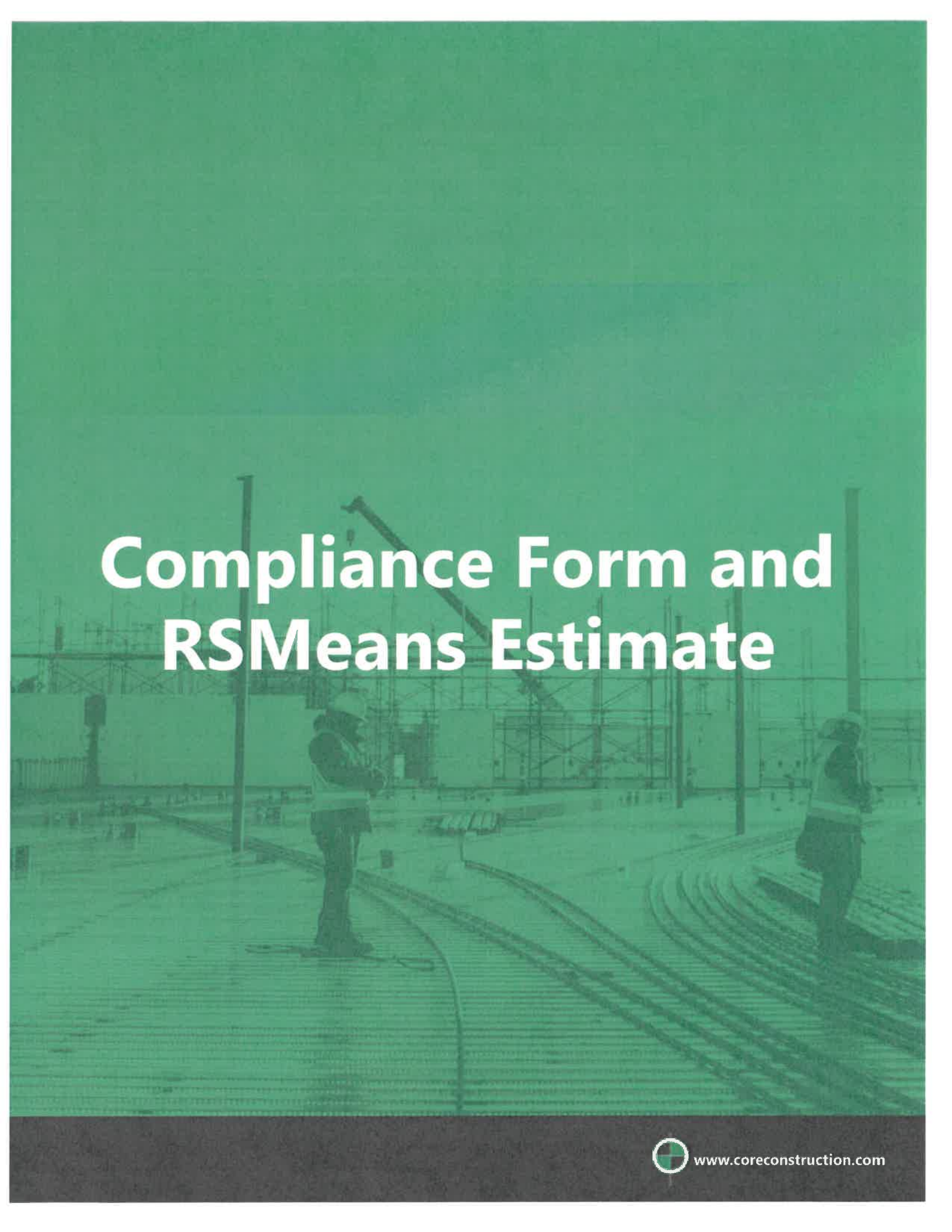


Medium size: 67W/80W



PHOTOMETRICS



A construction site with workers and a crane, overlaid with a green tint.

Compliance Form and RSM Means Estimate



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OMNIA COMPLIANCE ESTIMATE

9/27/2021

Village of Orland Park -Water Tower Electrical Improvements

Division Totals		
Division 01 - General Requirements	\$	13,125.00
Division 02 - Existing Conditions		
Division 03 - Concrete	\$	-
Division 04 - Masonry		
Division 05 - Metals	\$	-
Division 06 - Wood, Plastics, and Composites		
Division 07 - Thermal and Moisture Protection	\$	-
Division 08 - Openings		
Division 09 - Finishes		
Division 10 - Specialties	\$	-
Division 11 - Equipment	\$	-
Division 12 - Furnishings		
Division 13 - Special Construction	\$	-
Division 14 - Conveying Equipment	\$	-
Division 21 - Fire Suppression	\$	-
Division 22 - Plumbing	\$	-
Division 23 - Heating, Ventilating, and Air Conditioning (HVAC)	\$	1,272.28
Division 26 - Electrical	\$	103,953.79
Division 27 - Communications	\$	298.48
Division 28 - Electronic Safety and Security	\$	-
Division 31 - Earthwork	\$	-
Division 32 - Exterior Improvements	\$	-
Division 33 - Utilities	\$	-
Division 34 - Transportation	\$	-
RS MEANS PRICING TOTAL (MODIFIED BY CITY COST INDEX)	\$	118,649.55
OMNIA CONTRACT COEFFICIENT (MEANS BASED PRICING ONLY)		1.42
SUBTOTAL	\$	168,482.36
NON PREPRICED LINE ITEM DIRECT COSTS	\$	-
NON PREPRICED LINE INDIRECT COSTS	\$	-
SUBTOTAL	\$	168,482.36
P&P BOND (Included in Divisionary Breakdowns)		
TOTAL PRICE	\$	168,482.36
CONTINGENCY	\$	16,800.00
PROPOSED PRICE	\$	185,282.36

Cost Estimate Report

Village of Orland Park

Orland Park, IL, 60462
13605 Cherry Lane

Date: 09/27/2021

Orland Park Water Tower Electrical Impro

Predictive Year 2021 Quarter 4 as of Year 2021 Quarter 3

Unit Detail Report

Prepared By: Brian Fiedler

The Core Group LTD

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
Division 01 General Requirements					
013113200020	Field personnel, clerk, average	1.00	Week	\$750.00	\$750.00
013113200220	Field personnel, project manager, maximum	1.00	Week	\$4,325.00	\$4,325.00
013113200280	Field personnel, superintendent, maximum	2.00	Week	\$4,025.00	\$8,050.00
Division 01 General Requirements Subtotal					\$13,125.00
Division 23 Heating, Ventilating, and Air Conditioning (HVAC)					
238333103320	Electric heating, wall heaters with fan, commercial, 3,000 watt	2.00	Ea.	\$627.23	\$1,254.46
238333103320	Insurance, all-risk, maximum	1.00	Job	\$3.89	\$7.78
238333103320	Insurance, standard builders risk, maximum	1.00	Job	\$5.02	\$10.04
Division 23 Heating, Ventilating, and Air Conditioning (HVAC) Subtotal					\$1,272.28
Division 26 Electrical					
260505100100	Conduit, rigid galvanized steel, 1/2" to 1" diameter, electrical demolition, remove conduit to 10' high, including fittings & hangers	1,000.00	L.F.	\$4.09	\$4,090.00
260505100100	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00		\$1.43	\$1,431.50
260505100100	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$1.02	\$1,022.50
260505100100	Insurance, all-risk, maximum	1.00	Job	\$0.03	\$25.36
260505100100	Insurance, standard builders risk, maximum	1.00	Job	\$0.03	\$32.72
260519900100	Wire, copper, stranded, 600 volt, #12, type THW, normal installation conditions in wireway, conduit, cable tray	40.00	C.L.F.	\$109.02	\$4,360.80
260519900100	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00		\$31.54	\$1,261.54

Note: Line #’s include general electrical demolition

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
260519900100	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 20' to 24.5' high	1.00		\$22.53	\$901.10
260519900100	Insurance, all-risk, maximum				
260519900100	Insurance, standard builders risk, maximum	1.00	Job	\$0.68	\$27.04
260519900100	Wire, copper, stranded, 600 volt, #10, type THW, normal installation conditions in wireway, conduit, cable tray	1.00	Job	\$0.87	\$34.89
260519900120	Labor adjustment factor (electrical), add to labor, cramped shaft	14.00	C.L.F.	\$129.14	\$1,807.96
260519900120	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 20' to 24.5' high	1.00		\$34.51	\$483.14
260519900120	Insurance, all-risk, maximum	1.00		\$24.65	\$345.10
260519900120	Insurance, standard builders risk, maximum	1.00	Job	\$0.80	\$11.21
260519900120	Wire, copper, stranded, 600 volt, #8, type THW, normal installation conditions in wireway, conduit, cable tray	1.00	Job	\$1.03	\$14.46
260519900140	Labor adjustment factor (electrical), add to labor, cramped shaft	2.00	C.L.F.	\$156.42	\$312.84
260519900140	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 20' to 24.5' high	1.00		\$43.20	\$86.39
260519900140	Insurance, all-risk, maximum	1.00		\$30.86	\$61.71
260519900140	Insurance, standard builders risk, maximum	1.00	Job	\$0.97	\$1.94
260519900140	Wire, copper, stranded, 600 volt, #3, type THW, normal installation conditions in wireway, conduit, cable tray	1.00	Job	\$1.25	\$2.50
260519900200	Labor adjustment factor (electrical), add to labor, cramped shaft	5.00	C.L.F.	\$362.69	\$1,813.45
260519900200	Insurance, all-risk, maximum	1.00		\$69.02	\$345.12
260519900200	Insurance, standard builders risk, maximum	1.00	Job	\$2.25	\$11.24
260519900200	Wire, copper, stranded, 600 volt, 4/0, type THW, normal installation conditions in wireway, conduit, cable tray	1.00	Job	\$2.90	\$14.51
260519900350	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00	C.L.F.	\$1,071.12	\$1,071.12
260519900350	Insurance, all-risk, maximum	1.00	Job	\$6.64	\$6.64
260519900350	Insurance, standard builders risk, maximum	1.00	Job	\$8.57	\$8.57
260519900490	Wire, copper, stranded, 600 volt, 500 kcmil, type THW, normal installation conditions in wireway, conduit, cable tray	3.00	C.L.F.	\$1,974.73	\$5,924.19
260519900490	Insurance, all-risk, maximum	1.00	Job	\$12.24	\$36.73
260519900490	Insurance, standard builders risk, maximum	1.00	Job	\$15.80	\$47.39
260526800090	Grounding rod, copper clad, 10' long, 5/8" diameter	3.00	Ea.	\$195.37	\$586.11
260526800090	Insurance, all-risk, maximum	1.00	Job	\$1.21	\$3.63
260526800090	Insurance, standard builders risk, maximum	1.00	Job	\$1.56	\$4.69
260526805500	Equipotential earthing bar	1.00	Ea.	\$644.03	\$644.03
260526805500	Insurance, all-risk, maximum	1.00	Job	\$3.99	\$3.99
260526805500	Insurance, standard builders risk, maximum	1.00	Job	\$5.15	\$5.15

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
260529200650	Strap, steel, 2 holes, rigid steel conduit, 4" diameter	20.00	Ea.	\$13.75	\$275.00
260529200650	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00		\$4.32	\$86.38
260529200650	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$3.09	\$61.70
260529200650	Insurance, all-risk, maximum	1.00	Job	\$0.09	\$1.70
260529200650	Insurance, standard builders risk, maximum	1.00	Job	\$0.11	\$2.20
260533130500	Aluminum conduit, 3/4" diameter, to 10' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	880.00	L.F.	\$13.94	\$12,267.20
260533130500	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00		\$3.84	\$3,378.76
260533130500	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$2.74	\$2,413.40
260533130500	Insurance, all-risk, maximum	1.00	Job	\$0.09	\$76.06
260533130500	Insurance, standard builders risk, maximum	1.00	Job	\$0.11	\$98.14
260533131000	Aluminum conduit, 1-1/4" diameter, to 10' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	15.00	L.F.	\$18.69	\$280.35
260533131000	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00		\$4.93	\$74.02
260533131000	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$3.53	\$52.88
260533131000	Insurance, all-risk, maximum	1.00	Job	\$0.12	\$1.74
260533131000	Insurance, standard builders risk, maximum	1.00	Job	\$0.15	\$2.24
260533131050	Aluminum conduit, 2" diameter, to 10' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	15.00	L.F.	\$23.85	\$357.75
260533131050	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00		\$5.76	\$86.42
260533131050	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$4.11	\$61.72
260533131050	Insurance, all-risk, maximum	1.00	Job	\$0.15	\$2.22
260533131050	Insurance, standard builders risk, maximum	1.00	Job	\$0.19	\$2.86
260533131830	Rigid galvanized steel conduit, 1-1/4" diameter, to 10' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	130.00	L.F.	\$22.86	\$2,971.80
260533131830	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00		\$5.76	\$748.93
260533131830	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$4.12	\$534.95
260533131830	Insurance, all-risk, maximum	1.00	Job	\$0.14	\$18.43
260533131830	Insurance, standard builders risk, maximum	1.00	Job	\$0.18	\$23.77
260533131970	Rigid galvanized steel conduit, 4" diameter, to 10' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	20.00	L.F.	\$75.73	\$1,514.60
260533131970	Labor adjustment factor (electrical), add to labor, cramped shaft	1.00		\$17.37	\$347.41

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
2605333131970	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$12.41	\$248.15
2605333131970	Insurance, all-risk, maximum	1.00	Job	\$0.47	\$9.39
2605333131970	Insurance, standard builders risk, maximum	1.00	Job	\$0.61	\$12.12
2605333161600	Outlet boxes, cast, weatherproof receptacle cover, 1 gang	3.00	Ea.	\$18.31	\$54.93
2605333161600	Insurance, all-risk, maximum	1.00	Job	\$0.11	\$0.34
2605333161600	Insurance, standard builders risk, maximum	1.00	Job	\$0.15	\$0.44
2605333351080	Flexible metallic conduit, sealite, 1/2" diameter	15.00	L.F.	\$8.46	\$126.90
2605333351080	Insurance, all-risk, maximum	1.00	Job	\$0.05	\$0.79
2605333351080	Insurance, standard builders risk, maximum	1.00	Job	\$0.07	\$1.02
2605333351090	Flexible metallic conduit, sealite, 3/4" diameter	5.00	L.F.	\$11.71	\$58.55
2605333351090	Insurance, all-risk, maximum	1.00	Job	\$0.07	\$0.36
2605333351090	Insurance, standard builders risk, maximum	1.00	Job	\$0.09	\$0.47
2605333351200	Flexible metallic conduit, sealite, 1-1/4" diameter	5.00	L.F.	\$23.01	\$115.05
2605333351200	Insurance, all-risk, maximum	1.00	Job	\$0.14	\$0.71
2605333351200	Insurance, standard builders risk, maximum	1.00	Job	\$0.18	\$0.92
2605333351500	Flexible metallic conduit, sealite, connectors, plain, 1/2" diameter	6.00	Ea.	\$17.64	\$105.84
2605333351500	Insurance, all-risk, maximum	1.00	Job	\$0.11	\$0.66
2605333351500	Insurance, standard builders risk, maximum	1.00	Job	\$0.14	\$0.85
2605333351700	Flexible metallic conduit, sealite, connectors, plain, 3/4" diameter	2.00	Ea.	\$24.35	\$48.70
2605333351700	Insurance, all-risk, maximum	1.00	Job	\$0.15	\$0.30
2605333351700	Insurance, standard builders risk, maximum	1.00	Job	\$0.20	\$0.39
2605333352000	Flexible metallic conduit, sealite, connectors, insulated, 1-1/4" diameter	2.00	Ea.	\$43.79	\$87.58
2605333352000	Insurance, all-risk, maximum	1.00	Job	\$0.27	\$0.54
2605333352000	Insurance, standard builders risk, maximum	1.00	Job	\$0.35	\$0.70
260590101120	Service & panel, residential, w/10 branch breakers, w/RGS conduit & wire, 100 amp, 1nd 24' SE-AL cable, service eye, meter socket	2.00	Ea.	\$1,747.14	\$3,494.28
260590101120	Insurance, all-risk, maximum	1.00	Job	\$10.83	\$21.66
260590101120	Insurance, standard builders risk, maximum	1.00	Job	\$13.98	\$27.95
261316103900	Circuit breaker, 2 pole, 15 to 60 amp, type FA	2.00	Ea.	\$860.89	\$1,721.78
261316103900	Insurance, all-risk, maximum	1.00	Job	\$5.34	\$10.68
261316103900	Insurance, standard builders risk, maximum	1.00	Job	\$6.89	\$13.77
262413400160	Circuit breakers, 1 pole, 240 V, 15 to 60 amp, FA frame, for feeder section	13.00	Ea.	\$269.20	\$3,499.60

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
262413400160	Insurance, all-risk, maximum	1.00	Job	\$1.67	\$21.70
262413400160	Insurance, standard builders risk, maximum	1.00	Job	\$2.15	\$28.00
262713102030	Meter center, main fusible switch, 1P 3W 120/240V, 400 A	4.00	Ea.	\$2,082.59	\$8,330.36
262713102030	Insurance, all-risk, maximum	1.00	Job	\$12.91	\$51.65
262713102030	Insurance, standard builders risk, maximum	1.00	Job	\$16.66	\$66.64
262723403600	Surface raceway, metal, Junction boxes, no. 1500	26.00	Ea.	\$74.01	\$1,924.26
262723403600	Insurance, all-risk, maximum	1.00	Job	\$0.46	\$11.93
262723403600	Insurance, standard builders risk, maximum	1.00	Job	\$0.59	\$15.39
263213160470	Generator set, natural gas/LP, liquid cooled, 3 ph 4 wire, 120/240 V, 27kW, aluminum enclosure	0.75	Ea.	\$27,748.94	\$20,811.71
263213160470	Insurance, all-risk, maximum	1.00	Job	\$172.04	\$129.03
263213160470	Insurance, standard builders risk, maximum	1.00	Job	\$221.99	\$166.49
263623100030	Automatic transfer switches, enclosed, 2 pole, 120/240 volt, 100 amp	1.00	Ea.	\$1,948.61	\$1,948.61
263623100030	Insurance, all-risk, maximum	1.00	Job	\$12.08	\$12.08
263623100030	Insurance, standard builders risk, maximum	1.00	Job	\$15.59	\$15.59
265619550100	Roadway area luminaire, LED fixture, 72 LEDs, 120 V AC or 12 V DC, equal to 60 watt, incl lamp	2.00	Ea.	\$986.23	\$1,972.46
265619550100	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$91.42	\$182.84
265619550100	Insurance, all-risk, maximum	1.00	Job	\$6.12	\$12.23
265619550100	Insurance, standard builders risk, maximum	1.00	Job	\$7.89	\$15.78
265623550120	Exterior LED fixture, wall mounted, indoor/outdoor, 66 watt, incl lamps	10.00	Ea.	\$454.62	\$4,546.20
265623550120	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$20.08	\$200.80
265623550120	Insurance, all-risk, maximum	1.00	Job	\$2.82	\$28.19
265623550120	Insurance, standard builders risk, maximum	1.00	Job	\$3.64	\$36.37
265623550420	Exterior LED fixture, wall pack, poly w/photocell, 50 watt, incl lamps	1.00	Ea.	\$1,098.86	\$1,098.86
265623550420	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 208#39; to 24.58#39; high	1.00		\$61.71	\$61.71
265623550420	Insurance, all-risk, maximum	1.00	Job	\$6.81	\$6.81
265623550420	Insurance, standard builders risk, maximum	1.00	Job	\$8.79	\$8.79
Division 26	Electrical Subtotal			\$103,953.79	

Division 27	Communications				
271533103860	Coaxial cable, 75 ohm, RG A/U #59 cable	1.50	C.L.F.	\$165.78	\$248.67

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
271533103860	Labor adjustment factor (electrical), add to labor for elevated installation (above floor level), 20' to 24.5' high	1.00		\$30.85	\$46.28
271533103860	Insurance, all-risk, maximum	1.00	Job	\$1.03	\$1.54
271533103860	Insurance, standard builders risk, maximum	1.00	Job	\$1.33	\$1.99
Division 27	Communications Subtotal				\$298.48
Subtotal					\$118,649.55
Grand Total					\$118,649.55

Note: LineNumber items above may not include every scope of work item related to this project or match the exact scope of work per plans, but it reflects an accurate value to complete the project as defined in the Basis of Estimate.



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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
11/24/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER LIC #36-3066541 Willis Towers Watson Midwest, Inc. Willis Tower 233 South Wacker Drive, Suite 2000 Chicago, IL 60606	1-312-288-7700 INSURED CORE Construction Services of Illinois, Inc. 601 SW Water Street Peoria, IL 61602	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS: INSURER(S) AFFORDING COVERAGE INSURER A: ARCH INS CO INSURER B: STARR IND & LIAB CO INSURER C: ARCH IND INS CO INSURER D: INSURER E: INSURER F:	FAX (A/C, No): NAIC# 11150 38318 30830
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COVERAGES**CERTIFICATE NUMBER:** 63835206**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC OTHER:	X	X	41PKG8896112	03/01/21	03/01/22	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 \$
A	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY	X	X	41PKG8896112	03/01/21	03/01/22	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	☒ UMBRELLA LIAB ☒ OCCUR ☒ EXCESS LIAB ☐ CLAIMS-MADE DED RETENTION \$			1000584947211	03/01/21	03/01/22	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N ☒ N	N/A	44WCI8946712 (CA/IN/IL/TX) 41WCI8896012 (AOS)	03/01/21 03/01/21	03/01/22 03/01/22	☒ PER STATUTE ☐ OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Village of Orland Park - Elevated Tank No. 7 Electrical

Village of Orland Park, and its officers, officials, employees, agents and volunteers (Owner) is named as additional insured with respect to general liability on a primary and non-contributory basis. Excess liability follows form over the underlying subject to the terms and conditions of the excess policy. General Liability Deductible: \$750,000. Workers' Compensation Deductible: \$500,000. Auto Liability Comprehensive & Collision Deductibles: \$2,500. Excess Liability Deductible: \$0.

CERTIFICATE HOLDER

Village of Orland Park - Elevated Tank No. 7 Electrical

Village of Orland Park

14700 S Ravinia Avenue

Orland Park, IL 60462

USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Andrea Paris

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

PRIMARY AND NONCONTRIBUTORY – OTHER INSURANCE CONDITION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

The following is added to the **Other Insurance** Condition and supersedes any provision to the contrary:

Primary And Noncontributory Insurance

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured under your policy provided that:

- (1) The additional insured is a Named Insured under such other insurance; and
- (2) You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to the additional insured.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – SCHEDULED PERSON OR
ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
WHERE REQUIRED BY WRITTEN CONTRACT EXCEPT THOSE INCLUDED UNDER A SEPARATE ADDITIONAL INSURED ENDORSEMENT ISSUED TO A SPECIFIC ENTITY.	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf.

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
 2. Available under the applicable Limits of Insurance shown in the Declarations;
- whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
WHERE REQUIRED BY WRITTEN CONTRACT EXCEPT THOSE INCLUDED UNDER A SEPARATE ADDITIONAL INSURED ENDORSEMENT ISSUED TO A SPECIFIC ENTITY.	

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

41PKG8896112

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 24 04 05 09

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Person Or Organization:

ANY PERSON OR ORGANIZATION WHERE WAIVER OF OUR RIGHT TO RECOVER IS
PERMITTED BY LAW AND IS REQUIRED BY WRITTEN CONTRACT PROVIDED SUCH
CONTRACT WAS EXECUTED PRIOR TO THE LOSS

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The following is added to Paragraph 8. **Transfer Of
Rights Of Recovery Against Others To Us** of Section
IV – Conditions:

We waive any right of recovery we may have against
the person or organization shown in the Schedule
above because of payments we make for injury or
damage arising out of your ongoing operations or
"your work" done under a contract with that person
or organization and included in the "products-
completed operations hazard". This waiver applies
only to the person or organization shown in the
Schedule above.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - BLANKET

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

Under **Covered Autos Liability Coverage**, the **Who is An Insured** provision is amended to include as an "insured" the person or organization who is required under a written contract to be included as an "insured" under this policy, but only with respect to their legal liability for your acts or omissions or the act or omissions of a person for whom **Covered Autos Liability Coverage** is afforded under this policy.

All other terms and conditions of this policy remain unchanged.

Endorsement Number:

Policy Number: 41PKG8896112

Named Insured: CCG SERVICES, INC.

This endorsement is effective on the inception date of this Policy unless otherwise stated herein:

Endorsement Effective Date: 3/1/2021

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US (WAIVER OF SUBROGATION)

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Named Insured: CCG SERVICES, INC.

Endorsement Effective Date:

SCHEDULE

Name(s) Of Person(s) Or Organization(s):

ANY PERSON OR ORGANIZATION WHERE WAIVER OF OUR RIGHT TO RECOVER
IS PERMITTED BY LAW AND IS REQUIRED BY WRITTEN CONTRACT PROVIDED
SUCH CONTRACT WAS EXECUTED PRIOR TO THE LOSS

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The **Transfer Of Rights Of Recovery Against Others To Us** condition does not apply to the person(s) or organization(s) shown in the Schedule, but only to the extent that subrogation is waived prior to the "accident" or the "loss" under a contract with that person or organization.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

PRIMARY AND NONCONTRIBUTORY – OTHER INSURANCE CONDITION

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

- A.** The following is added to the **Other Insurance** Condition in the Business Auto Coverage Form and the **Other Insurance – Primary And Excess Insurance Provisions** in the Motor Carrier Coverage Form and supersedes any provision to the contrary:

This Coverage Form's Covered Autos Liability Coverage is primary to and will not seek contribution from any other insurance available to an "insured" under your policy provided that:

1. Such "insured" is a Named Insured under such other insurance; and
2. You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to such "insured".

- B.** The following is added to the **Other Insurance** Condition in the Auto Dealers Coverage Form and supersedes any provision to the contrary:

This Coverage Form's Covered Autos Liability Coverage and General Liability Coverages are primary to and will not seek contribution from any other insurance available to an "insured" under your policy provided that:

1. Such "insured" is a Named Insured under such other insurance; and
2. You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to such "insured".

POLICY NUMBER: 41WCI8896012**WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT**

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

ANY PERSON OR ORGANIZATION WHERE WAIVER OF OUR RIGHT TO RECOVER IS PERMITTED BY LAW AND IS REQUIRED BY WRITTEN CONTRACT PROVIDED SUCH CONTRACT WAS EXECUTED PRIOR TO DATE OF LOSS.

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.
(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective 03/01/2021

Policy No. 41WCI8896012

Endorsement No.

Insured CCG SERVICES, INC.

Premium INCL.

Insurance Company ARCH INSURANCE COMPANY

DATE OF ISSUE: 03-22-21

Countersigned By _____

SUPPLEMENT TO CERTIFICATE OF INSURANCE

DATE
11/24/2021

NAME OF INSURED: CORE Construction Services of Illinois, Inc.