

AGENDA
Municipal Services Committee
October 23, 2023
6:00 p.m. – Council Chambers

1. Call To Order & Roll Call

2. Establishment of Quorum

3. Old Business

4. New Business

- a. **Resolution** - Authorizing the Mayor to accept a proposal from Christopher B. Burke Engineering, Ltd. (CBBEL) for the professional design engineering services related to the survey and preparation of design drawings for the Plainfield Road Retaining Wall at the south west corridor of Plainfield Road and Cass Avenue in an amount not to exceed \$52,300.
- b. **Motion** – Approving a contingency in the amount of \$20,000 for easement acquisition, pending survey and design engineering for the Plainfield Road Retaining Wall.
- c. **Resolution** - Accepting a proposal from Connexion to purchase street light fixtures and shield at the submitted unit price through April 30, 2024.
- d. **Resolution** - Accepting a proposal from Connexion to purchase street light poles at the submitted unit price through April 30, 2024.
- e. **Resolution** - Authorizing the purchase of Biomelt AG 64, the organic deicing accelerator product, from SNI Solutions, in an amount not to exceed \$11,205(4,500 gallons x\$2.49/gallon).
- f. **Resolution** - Authorizing the purchase of alternative liquid de-icer and anti-icing products from Industrial Systems Ltd., in an amount not to exceed \$17,235.00.
- g. **Motion** – Approving a contingency in the amount of \$10,000 for unforeseen winter conditions that may require the use of additional liquid de-icer and anti-icing products.
- h. **Resolution** - Authorizing the purchase of alternative liquid de-icer and anti-icing products from K-Tech Specialty Coatings, Inc., in an amount not to exceed \$23,276.00.
- i. **Motion** – Approving a contingency in the amount of \$10,000 for unforeseen winter conditions that may require the use of additional liquid de-icer and anti-icing products.
- j. **Annexation Petition** – (10S360 Kearney Road/PIN 10-05-204-005).

5. Director’s Report

6. Next Scheduled Meeting – November 27, 2023

7. Adjournment

AGENDA MEMO
Municipal Services Committee
October 23, 2023

ISSUE STATEMENT

Approval of a [resolution](#) authorizing the Mayor to accept a proposal from Christopher B. Burke Engineering, Ltd. (CBBEL) for the professional design engineering services related to the survey and preparation of design drawings for the Plainfield Road Retaining Wall at the southwest corridor of Plainfield Road and Cass Avenue in an amount not to exceed \$52,300.

AND

A motion for a contingency in the amount of \$20,000 for easement acquisition, pending survey and design engineering for the Plainfield Road Retaining Wall.

BACKGROUND

On September 5, 2023, the City Council approved an Intergovernmental Agreement, attached and labeled as [Attachment A](#), with the County of DuPage for a 50/50 cost share of a right of way enhancement project at the south east corner along Plainfield Road from Cass Avenue to Linden Avenue and Cass Avenue to the side yard limit of 7614 Gail Avenue. As part of the IGA, the County has agreed to reimburse the City up to 50 percent of the engineering design. In order to facilitate the next phase an engineering study is required and is further summarized below.

The following professional services are to be provided by CBBEL for the Retaining Wall Project and attached and labeled as [Exhibit A](#).

Task 1 – Topographic Survey: CBBEL will perform full Topographic Survey of Plainfield Road Southerly Parkway (from Cass Ave E'ly parkway to Linden Ave W'ly parkway, with full detail of existing retaining wall, 350'LF ±), for use in Design Engineering Services.

- Property Survey
- Existing Right of Way Survey
- Establish Benchmarks
- Topographic Survey
- Tree Survey
- Utility Survey

Task 2 – JULIE Utility Survey:

- Underground Utility Survey

Task 3 – Geotechnical Investigation:

- Soil Borings

Task 4 – Prefinal Plans, Specifications and Estimate:

- Preparation of engineering plans, specifications and estimates

Task 5 – Final Plans, Specifications and Estimate / Bid Documents:

Preparation of final plans and bid documents

Task 6 – Bidding Assistance:

Attend the bid opening, tabulate the bids and provide a recommendation to the City

Task 7 – Meetings, Coordination and Management:

This task includes general project coordination, administration, and management

Staff is further requesting a contingency in the amount of \$20,000 for any additional title search(es) easement negotiations as required. Please note, any new plat easement will be forwarded to the City Council for consideration and approval.

The following engineering study has not been budgeted for this year as Staff did not anticipate the cost sharing with County of DuPage this year. The request for the engineering study is being requested at this time as it will take approximately five months to prepare the engineering. Pending final design, Staff would have a preliminary estimate for the FY24/25 Budget. Funding for the proposed engineering would be expended from the following account:

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	FY22-23 BUDGET	PROPOSED EXPENDITURE
25-35-4390	2022 67th Street & Clarendon Hills Road 4-Way Traffic Signalization Project	\$450,000	\$ 52,300

STAFF RECOMMENDATION

Approval of a resolution authorizing the Mayor to accept a proposal from Christopher B. Burke Engineering, Ltd. (CBBEL) for the professional design engineering services related to the survey and preparation of design drawings for the Plainfield Road Retaining Wall at the south west corridor of Plainfield Road and Cass Avenue in an amount not to exceed \$52,300.

AND

A motion for a contingency in the amount of \$20,000 for easement acquisition, pending survey and design engineering for the Plainfield Road Retaining Wall.

ALTERNATE CONSIDERATION

Not approving the resolution.

DECISION MODE

This item will be placed on the November 6, 2023 City Council agenda for formal approval.

AGENDA MEMO
City Council
September 5, 2023

ISSUE STATEMENT

Approval of a resolution authorizing the Mayor to execute an Intergovernmental Agreement with the County of DuPage for a 50/50 cost share of a right of way enhancement project at the south east corner along Plainfield Road from Cass Avenue to Linden Avenue and Cass Avenue to the side yard limit of 7614 Gail Avenue.

RESOLUTION

BACKGROUND/HISTORY-UPDATE IS ITALICIZED

The Cass Avenue corridor, within the limits of Plainfield Road and 75th Street are recognized as the Center of Town. The Comprehensive Plan also recognizes this area for beautification enhancements. Staff requested of the County for a joint coop project to beautify the south east corner of Cass Ave and Plainfield Road. The preliminary limits of the project are as follows:

Plainfield Road-Southern Right of Way

Linden Avenue to Cass Ave 350 lineal feet

Cass Avenue-Eastern Right of Way

Plainfield Road to southern side yard property line of 7614 Gail Avenue



The existing corner is constructed with modular block wall and a cyclone fence. The block is showing signs of deterioration and the cyclone fence is rusting and misaligned vertically and horizontally within the limits. The existing system is a structural design and the infrastructure is currently owned and maintained by the County. While the County will continue to maintain the existing infrastructure, they will not enhance the corridor beyond what is in place.

Staff pursued dialogue with the County of DuPage throughout the course of the last couple years. Late last year the County and the City were able to come to an agreement of coordinating efforts for a joint project. Staff engaged the services of Christopher Burke Engineering to provide a preliminary site visit with a structural engineer and concepts for the project. Attached and labeled as **Attachment A** is design memo prepared by Christopher B Burke Engineering.

The scope of work included two concepts:

Concept 1

Precast concrete wall and fence, a length of 300 feet and an average height of 13 feet. This includes two feet of wall buried, 5 feet to top of existing wall, and 6 feet above existing wall for visual screen. Cost estimate of \$200/SF for this type of wall for a cost of approximately \$780,000 for the wall/fence.

Concept 2

For a wall and fence design similar to what is in place at 75th Street and Plainfield Road, the wall would be constructed of large modular blocks (RediRock, or similar) and a solid six foot high wood fence would be installed on top of the wall. This type of modular block wall also gets buried approximately 2 feet into the ground, and recommended budget is \$110/SF of wall. Budget of \$231,000 for the wall, plus \$7500 for the wood fence.

Additional work required for either concepts:

- Tree and Brush Removal	\$ 7,500
- Remove cap and top course of block on existing wall	\$ 5,000
- Fill gap between existing and proposed walls	\$ 2,500
- Landscape Restoration	\$10,000

Construction budget for the above options as follows:

- Concept 1-Precast concrete fence and wall	\$800,000 - \$850,000
- Concept 2-Modular Block Wall with Wood Fence	\$265,000 - \$300,000

Engineering Design and bid specs \$75,000

The Staff and County have agreed to pursue Concept 2 in a preliminary amount of \$375,000. The cost share between the Count and the City is 50/50 or \$187,500 per agency. The attached IGA, labeled as **Exhibit A** and includes estimated costs and further responsibility. Upon completion of the project the City will own and maintain the wall and wood fence. Upon completion of the

PROJECT, the CITY shall own and be responsible for all future maintenance of the modular block retaining wall and fence.

Please note, while this item was not budgeted for this year and pending approval Staff will be requesting funding for the engineering as the plans will take approximately 4-6 months.

UPDATE FOR September 5, 2023 City Council

This item was removed from the agenda at the August 21, 2023 City Council Meeting. Staff requested to table the item to clarify language as it relates to cancellation of the IGA should the City not move forward with the proposed project after engineering. The following language was added:

10.2 If following the completion of engineering the CITY determines the PROJECT to be cost prohibitive, the CITY will notify the COUNTY, in which case this AGREEMENT shall terminate. Upon termination, the parties will share engineering costs incurred to date as provided in this AGREEMENT.

Attorney Murphey reviewed the language and concurs with the additional clarification

COMMITTEE RECOMMENDATION

The Municipal Services Committee recommends approval of the Intergovernmental Agreement with the County of DuPage for a 50/50 cost share of a right of way enhancement project at the south east corner along Plainfield Road from Cass Avenue to Linden Avenue and Cass Avenue to the side yard limit of 7614 Gail Avenue.

ALTERNATE CONSIDERATION

As directed by the City Council.

DECISION MODE

This item will be placed on the September 5, 2023 City Council agenda, Old Business for formal consideration.

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

February 6, 2023

City of Darien
1702 Plainfield Road
Darien, IL 60561

Attention: Dan Gombac

Subject: Plainfield Rd. east of Cass Ave.
(CBBEL Project No. 950323.H251)

Dear Dan:

As requested, we have prepared this letter to summarize two options for a beautification project along the south side of Plainfield Road extending east from Cass Avenue. Currently, there is a modular block wall immediately south of the sidewalk on the south side of the road. The wall extends from Cass Avenue to close to Linden Avenue and has a 4-foot-high chain link fence on top. It was noted during our site visit that the existing fence has rust and other discoloration. Existing wall height varies up to approximately 6 feet in the central section of this wall. The wall cap block and top block, in places, have deterioration. You have posed the potential for a precast decorative concrete panel wall and fence, and have also inquired about a wall and fence similar to what exists in the northeast quadrant of the Plainfield Road and 75th Street intersection. In our opinion, both are viable options.

I have discussed both options with our lead Structural Engineer and he has advised that both are viable options. We understand that DuDOT has not been able to locate plans for the wall, but we presume that based on the wall height there is a geogrid tieback system which extends under the existing sidewalk. Therefore, so as minimize impact and cost, the recommended option is to construct the new wall immediately in front of the existing wall. It is our understanding that you believe there is existing right of way available, and that if necessary you can secure additional temporary and permanent easements. With either option, it will be necessary to remove existing brush and trees in order to construct the new wall. We are also presuming that the new wall and fence would extend to approximately the east face of the garage at 7602 Linden.

For the first option of a precast concrete wall and fence, we are presuming a length of 300 feet and an average height of 13 feet. This includes two feet of wall buried, 5 feet to top of existing wall, and 6 feet above existing wall for visual screen. We recommend a budget of \$200/SF for this type of wall for a cost of approximately \$780,000 for the wall/fence.

For a wall and fence design similar to what is in place at 75th Street and Plainfield Road, the wall would be constructed of large modular blocks (RediRock, or similar) and a solid six foot high wood fence would be installed on top of the wall. This type of modular block wall also

gets buried approximately 2 feet into the ground, and recommended budget is \$110/SF of wall. We suggest a budget of \$231,000 for the wall, plus \$7500 for the wood fence.

For both alternatives, there would be ancillary costs as follow:

- Tree and Brush Removal \$7500
- Remove cap and top course of block on existing wall \$5000
- Fill gap between existing and proposed walls \$2500
- Landscape Restoration \$10,000

In summary, we suggest a construction budget for the above options as follows:

- Precast concrete fence and wall \$800,000 - \$850,000
- Modular Block Wall with Wood Fence \$265,000 - \$300,000

Note that these costs do not include design engineering, surveying, or costs associated with easement acquisition.

If you have any questions, please feel free to contact me.

Sincerely,



Daniel L. Lynch, PE, CFM
Head, Municipal Engineering Department

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A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE AN INTERGOVERNMENTAL AGREEMENT WITH THE COUNTY OF DUPAGE FOR A 50/50 COST SHARE OF A RIGHT OF WAY ENHANCEMENT PROJECT AT THE SOUTH EAST CORNER ALONG PLAINFIELD ROAD FROM CASS AVENUE TO LINDEN AVENUE AND CASS AVENUE TO THE SIDE YARD LIMIT OF 7614 GAIL AVENUE

WHEREAS, under the Constitution and Statues of the State of Illinois, a municipality is authorized to participate in intergovernmental cooperation; and

WHEREAS, an Intergovernmental Agreement has been prepared between the City of Darien and the County of DuPage concerning said retaining wall construction along CH 31/Plainfield Road from Cass Avenue to Linden Avenue, a copy of which is attached hereto as "**Exhibit A**", and is incorporated herein; and

WHEREAS, The Corporate Authorities, for record keeping, desire to authorize the execution of the Intergovernmental Agreement by Resolution.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DUPAGE COUNTY, as follows:

SECTION 1: That the Mayor and City Clerk are hereby authorized to execute an Intergovernmental Agreement with the County of DuPage for a 50/50 cost share of a right of way enhancement project at the south east corner along Plainfield Road from Cass Avenue to Linden Avenue and Cass Avenue to the side yard limit of 7614 Gail Avenue.

The obligations of the City of Darien shall be limited to those specifically stated within the terms of the Intergovernmental Agreement.

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DUPAGE COUNTY, ILLINOIS, this 5th day of September, 2023.

AYES: 6 - Belczak, Kenny, Leganski, Schauer, Stompanato, Sullivan
NAYS: 0 - NONE
ABSENT: 1 - Gustafson

RESOLUTION NO. R-94-23

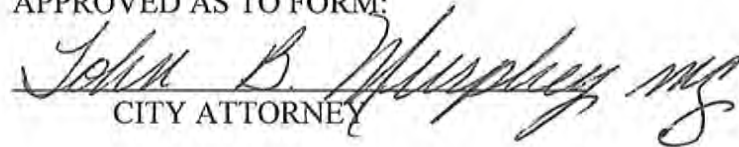
APPROVED BY THE MAYOR FOR THE CITY OF DARIEN, DUPAGE COUNTY,
ILLINOIS, this 5th day of September, 2023.


JOSEPH MARCHESE, MAYOR

ATTEST:


JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM:


CITY ATTORNEY



**INTERGOVERNMENTAL AGREEMENT
BETWEEN THE COUNTY OF DU PAGE
AND THE CITY OF DARIEN
FOR RETAINING WALL CONSTRUCTION ALONG CH 31/PLAINFIELD ROAD
FROM CASS AVENUE TO LINDEN AVENUE**

This Intergovernmental Agreement (hereinafter referred to as "AGREEMENT") is entered into this 5th day of September, 2023, between the County of DuPage (hereinafter referred to as the "COUNTY"), a body corporate and politic, with offices at 421 North County Farm Road, Wheaton, Illinois and the City of Darien (hereinafter referred to as the "CITY"), a municipal corporation with offices at 1702 Plainfield Road, Darien Illinois 60561. The COUNTY and the CITY are hereinafter sometimes individually referred to as a "party" or together as the "parties."

RECITALS

WHEREAS, the CITY wishes to improve the existing retaining wall and fencing along the southside right-of-way of CH 31/Plainfield Road at Cass Avenue extending east to Linden Avenue (hereinafter referred to as the "PROJECT"); and

WHEREAS, the existing block retaining wall is exhibiting signs of deterioration; and

WHEREAS, the CITY has asked, and the COUNTY has agreed, to share 50% cost responsibility for construction of a modular block wall and wood fence; and

WHEREAS, a cost estimate has been prepared and the estimated construction cost of the PROJECT is approximately \$300,000.00; and

WHEREAS, this estimate is agreeable to the COUNTY and the COUNTY will reimburse the CITY 50% of the construction cost, estimated COUNTY share \$150,000.00, and 50% of design and construction engineering costs, estimated COUNTY share \$37,500.00; and

WHEREAS, the COUNTY and the CITY desire to establish the parties' cost responsibilities and future maintenance with respect to the PROJECT; and

WHEREAS, the COUNTY by virtue of its power set forth in "Counties Code" (55 ILCS 5/5-1001 et seq.) and "Illinois Highway Code" (605 ILCS 5/5-101 et seq.) and the CITY by virtue of its power set forth in the "Illinois Municipal Code" (65 ILCS 5/1-1-1 et seq.) are authorized to enter into this AGREEMENT; and

WHEREAS, a cooperative intergovernmental agreement is appropriate and such an agreement is authorized and encouraged by Article 7, Section 10 of the Illinois Constitution and the Intergovernmental Cooperation Act (5 ILCS 220/1 et seq.).

NOW, THEREFORE, in consideration of the premises, the mutual covenants, terms, and conditions herein set forth, and the understandings of each party to the other, the parties do hereby mutually covenant, promise and agree as follows:

1.0 INCORPORATION

- 1.1. All recitals set forth above are incorporated herein and made part thereof, the same constituting the factual basis for this AGREEMENT.
- 1.2. The headings of the paragraphs and subparagraphs of this AGREEMENT are inserted for convenience of reference only and shall not be deemed to constitute part of this AGREEMENT or to affect the construction hereof.

2.0 SCOPE OF PROJECT

- 2.1. The COUNTY and CITY agree to cooperate in and make every effort to cause the construction of the PROJECT.
- 2.2. The PROJECT includes construction of a modular block retaining wall and wood fencing along the southside right-of-way of CH 31/Plainfield Road at Cass Avenue and extending east to Linden Avenue and would be approximately 300 feet in length. Other related work would include, but not be limited to, partial removal of the existing retaining wall, tree and brush removal, filling gap between existing and proposed walls, and landscape restoration.

3.0 RESPONSIBILITIES OF THE CITY

- 3.1. The CITY shall act as the lead agency and be responsible for completing all preliminary and design engineering, permit processing, right-of-way acquisition, awarding of contract(s), utility coordination, construction engineering and construction for the PROJECT. The CITY shall be responsible for securing/paying for all PROJECT costs, subject to reimbursement from the COUNTY as noted in Section 4.0 herein below.

- 3.2. Both the COUNTY and CITY agree that the CITY shall manage the contract for the construction of the PROJECT. The CITY agrees to manage the PROJECT in the best interest of both parties and to consult with, and keep advised, officials of the COUNTY regarding the progress of the PROJECT and any problems encountered or changes recommended. No change order which affects COUNTY'S facilities, or COUNTY cost, except normal minor variations in quantities of pay items required to complete the PROJECT shall be authorized except with prior written approval by the COUNTY.
- 3.3. The CITY shall require the General Contractor selected for the PROJECT to name the COUNTY as an additional-insured for the Commercial General Liability in the Special Provisions section of the contract for the PROJECT.
- 3.4. The CITY shall provide plans for the PROJECT to the COUNTY for review. The CITY will address any reasonable comments or correct any errors submitted by the COUNTY after said review.

4.0 RESPONSIBILITIES OF THE COUNTY

- 4.1. The COUNTY agrees to reimburse the CITY for 50% of the actual construction cost for the PROJECT, COUNTY share estimated to be \$150,000.00 (see Exhibit A).
- 4.2. The COUNTY also agrees to reimburse the CITY for 50% of the actual design and construction engineering for the PROJECT, COUNTY share estimated to be \$37,500.00 (see Exhibit A). The COUNTY agrees to pay the CITY its share of design engineering costs upon award of a contract for construction or in accordance with Section 10.2.
- 4.3. The COUNTY agrees to pay the CITY eighty (80%) percent of its share of the PROJECT construction cost (\$120,000.00) upon award of the contract for the PROJECT based upon as-bid unit prices for the PROJECT. Upon completion of the PROJECT and based upon the documentation of final costs and quantities, submitted by the CITY and a final invoice, the COUNTY agrees to reimburse the CITY for the balance of its share of the PROJECT cost within sixty (60) days of receipt of a properly documented invoice from the CITY.
- 4.4. The COUNTY hereby grants to the CITY, its employees, contractors and agents a right-of-entry for ingress and egress onto, over, under and above the COUNTY property within the boundaries of the PROJECT for the purpose of constructing the PROJECT. The COUNTY shall retain the right of ingress and egress over said areas so long as it does

not interfere with the CITY's work. The CITY shall provide twenty-four (24) hour notice when it will be entering COUNTY property and commence work. Upon completion of the PROJECT, the right-of-entry shall terminate.

- 4.5. This AGREEMENT shall serve in lieu of COUNTY permit(s) for the construction of the PROJECT and upon execution of this AGREEMENT the CITY will be bound by the General Terms of Highway Permits as they exist on the date of execution of this AGREEMENT by the COUNTY.

5.0 MAINTENANCE

- 5.1. Upon completion of the PROJECT, the CITY shall own and be responsible for all future maintenance of the modular block retaining wall and wood fence.

6.0 INDEMNIFICATION

- 6.1. The COUNTY shall, indemnify, hold harmless and defend the CITY, its officials, officers, employees, and agents from and against all liability, claims, suits, demands, proceedings and action, including costs, fees and expense of defense, arising from, growing out of, or related to, any loss, damage, injury, death, or loss or damage to property resulting from, or connected with, the COUNTY'S negligent or willful acts, errors or omissions in its performance under this AGREEMENT to the extent permitted by law. The COUNTY does not hereby waive any defenses or immunity available to it with respect to third parties.
- 6.2. The CITY shall indemnify, hold harmless and defend the COUNTY, its officials, officers, employees, and agents from and against all liability, claims, suits, demands, proceedings and action, including costs, fees and expense of defense, arising from, growing out of, or related to, any loss, damage, injury, death, or loss or damage to property resulting from, or connected with, the CITY'S negligent or willful acts, errors or omissions in its performance under this AGREEMENT to the extent permitted by law. The CITY does not hereby waive any defenses or immunity available to it with respect to third parties.
- 6.3. The COUNTY and the CITY acknowledge that neither has made representations, assurances or guaranties regarding their or any successor's or assign's authority and legal capacity to indemnify the other as provided for in this AGREEMENT. In the event a court of competent jurisdiction holds that

either, or any successor or assign, is deemed to lack the lawful authority or ability to indemnify, defend or hold harmless the other party, or any person or entity claiming a right through either, or in the event of change in the laws of the State of Illinois governing their or any successor's or assign's indemnification authority, such occurrence(s) shall not affect the validity and enforceability of the remainder of this AGREEMENT or the parties rights and obligations provided for therein.

- 6.4. Nothing contained herein shall be construed as prohibiting either the COUNTY or the CITY, its officials, directors, officers, agents and employees, from defending through the selection and use of their own agents, attorneys and experts, any claims, suits, demands, proceedings and actions brought against them. Pursuant to Illinois law, 55 ILCS 5/3-9005, any attorney representing the COUNTY, who is not already an Assistant State's Attorney, is to be appointed a Special Assistant State's Attorney, as provided in 55 ILCS 5/3-9008. The COUNTY or the CITY'S participation in its defense shall not remove the others duty to indemnify, defend, and hold the COUNTY harmless, as set forth above.
- 6.5. Neither party waives, releases or otherwise compromises, by these indemnity provisions, any defenses or protections under the Local Governmental and Governmental Employees Tort Immunity Act (745 ILCS 10/1 et seq.) or otherwise available to it, or to the other party, under the law." There are no third-party beneficiaries of these mutual indemnifications or this AGREEMENT.
- 6.6. Any indemnity as provided in this AGREEMENT shall not be limited by reason of the enumeration of any insurance coverage herein provided. Except with respect to occurrences arising before the completion of the Project, the CITY'S and COUNTY'S indemnification under Section 6.0 hereof shall terminate when the PROJECT is completed and the CITY and COUNTY assume its maintenance responsibilities as set forth in Section 5.0 hereof.

7.0 GENERAL

- 7.1. It is understood and agreed by the parties hereto that this AGREEMENT is intended to address the PROJECT and no changes to existing roadway and appurtenance maintenance and/or jurisdiction are proposed.

- 7.2 Whenever in this AGREEMENT, approval or review of either the COUNTY or CITY is provided for, said approval or review shall not be unreasonably delayed or withheld.
- 7.3 In the event of a dispute between the COUNTY and CITY representatives in the preparation of the plans and specifications, or changes thereto, or in carrying out the terms of this AGREEMENT, the County Engineer and the CITY Manager or their duly appointed representatives shall meet and resolve the issue.
- 7.4 No later than fourteen (14) days after the execution of this AGREEMENT, each party shall designate a representative to the other party who shall serve as the full-time representative of said party during the carrying out of the construction of the PROJECT. Each representative shall have authority, on behalf of such party, to receive notices and make inspections relating to the work covered in this AGREEMENT. Representatives shall be readily available to the other party.
- 7.5 This AGREEMENT may be executed in two or more counterparts, each of which shall be deemed an original and all of which shall be deemed one in the same instrument.

8.0 ENTIRE AGREEMENT

- 8.1. This AGREEMENT represents the entire AGREEMENT between the parties with respect to the PROJECT and supersedes all previous communications or understandings whether oral or written.

9.0 NOTICES

- 9.1. Any notice required shall be deemed properly given to the party to be notified at the time it is personally delivered or mailed by certified mail, return receipt requested, or sent by confirmed email, to the party's address. The address of each party is as specified below. Either party may change its address for receiving notices by giving notices thereof in compliance with the terms of this subsection.

City of Darien

1702 Plainfield Road

Darien, Illinois 60561

ATTN: Dan Gombac

Director of Municipal Services

Phone: 630.353.8106

Email: dgombac@darienil.gov

County of DuPage
Division of Transportation
421 N. County Farm Road
Wheaton, IL 60187
ATTN: Director of Transportation
Phone: 630.407.6900
Email: dot@dupageco.org

10.0 AMENDMENT, MODIFICATION OR TERMINATION OF THIS AGREEMENT

- 10.1. No modification or amendment to this AGREEMENT shall be effective until approved by the parties in writing.
- 10.2 If following the completion of engineering the CITY determines the PROJECT to be cost prohibitive, the CITY will notify the COUNTY, in which case this AGREEMENT shall terminate. Upon termination, the parties will share engineering costs incurred to date as provided in this AGREEMENT.

11.0 NON-ASSIGNMENT

- 11.1. This AGREEMENT shall not be assigned by either party without the written consent of the other party, whose consent shall not be unreasonably withheld.

12.0 AUTHORITY TO EXECUTE/RELATIONSHIP

- 12.1. The parties hereto have read and reviewed the terms of this AGREEMENT and by their signature as affixed below represent that the signing party has the authority to execute this AGREEMENT and that the parties intend to be bound by the terms and conditions contained herein.
- 12.2. This AGREEMENT shall not be deemed or construed to create an employment, joint venture, partnership or other agency relationship between the parties.

13.0 GOVERNING LAW

- 13.1. This AGREEMENT shall be governed by the laws of the State of Illinois as to both interpretation and performance.

13.2. The forum for resolving any disputes concerning the parties' respective performance, or failure to perform, under this AGREEMENT, shall be the Judicial Circuit Court for DuPage County.

14.0 SEVERABILITY

14.1. In the event any provision of this AGREEMENT is held to be unenforceable or invalid for any reason, the enforceability thereof shall not affect the remainder of the AGREEMENT. The remainder of this AGREEMENT shall be construed as if not containing the particular provision and shall continue in full force, effect, and enforceability, in accordance with its terms.

15.0 FORCE MAJEURE

15.1. Neither party shall be liable for any delay or nonperformance of their obligations caused by any contingency beyond their control including but not limited to Acts of God, war, civil unrest, strikes, walkouts, fires or natural disasters.

IN WITNESS whereof, the parties set their hands and seals as of the date first written above.

COUNTY OF DU PAGE

Deborah A. Conroy, Chair
DuPage County Board

ATTEST:

Jean Kaczmarek
County Clerk

CITY OF DARIEN

Joseph A. Marchese

Joseph A. Marchese, Mayor
City of Darien

ATTEST:

JoAnne Ragona

JoAnne Ragona
City Clerk



**EXHIBIT A
PROJECT COUNTY COST ESTIMATE**

	PROJECT COST ESTIMATE	COUNTY ESTIMATE 50% SHARE
PROJECT Construction Cost Estimate	\$ 300,000	\$ 150,000
PROJECT Design and Construction Engineering Cost Estimate (\$300,000 x 25%)	\$ 75,000	\$ 37,500
Total COUNTY Cost Estimate		\$ 187,500

STATE OF ILLINOIS)
) SS
COUNTY OF DU PAGE)

I, JoAnne E. Ragona, do hereby certify that I am the duly qualified CITY CLERK of the CITY OF DARIEN of DuPage County, Illinois, and as such officer I am the keeper of the records and files of the City;

I do further certify that the foregoing constitutes a full, true and correct copy of **RESOLUTION NO. R-94-23 — “A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE AN INTERGOVERNMENTAL AGREEMENT WITH THE COUNTY OF DUPAGE FOR A 50/50 COST SHARE OF A RIGHT OF WAY ENHANCEMENT PROJECT AT THE SOUTH EAST CORNER ALONG PLAINFIELD ROAD FROM CASS AVENUE TO LINDEN AVENUE AND CASS AVENUE TO THE SIDE YARD LIMIT OF 7614 GAIL AVENUE”** of The City of Darien, Du Page County, Illinois, Duly Passed and Approved by the Mayor and City Council at a September 5, 2023.

IN WITNESS WHEREOF, I have hereunto affixed my official hand and seal this 5th day of September, 2023.



JoAnne E. Ragona

City Clerk



September 7, 2023

Division of Transportation
421 North County Farm Road
Wheaton, Illinois 60187
Attn: Director of Transportation

RE: Intergovernmental Agreement – retaining wall construction along CH 31/Plainfield Rd from Cass Ave to Linden Ave

Dear Sir/Madam,

Enclosed please find two certified copies of *Resolution No. R-94-23 – “A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE AN INTERGOVERNMENTAL AGREEMENT WITH THE COUNTY OF DUPAGE FOR A 50/50 COST SHARE OF A RIGHT OF WAY ENHANCEMENT PROJECT AT THE SOUTH EAST CORNER ALONG PLAINFIELD ROAD FROM CASS AVENUE TO LINDEN AVENUE AND CASS AVENUE TO THE SIDE YARD LIMIT OF 7614 GAIL AVENUE,”* passed by the City Council at its regular meeting on September 5, 2023.

Should you have any questions or concerns, please give me a call at (630) 353-8106.

Sincerely,
CITY OF DARIEN

A handwritten signature in black ink, appearing to read "Daniel Gombac", is written over the typed name.

Daniel Gombac
Director of Municipal Services

Enclosure

cc: JoAnne E. Ragona, City Clerk
Kris Throm, Superintendent of Municipal Services
Superintendent, DuPage County Public Works

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE MAYOR TO ACCEPT A PROPOSAL FROM CHRISTOPHER B. BURKE ENGINEERING, LTD. (CBBEL) FOR THE PROFESSIONAL DESIGN ENGINEERING SERVICES RELATED TO THE SURVEY AND PREPARATION OF DESIGN DRAWINGS FOR THE PLAINFIELD ROAD RETAINING WALL AT THE SOUTHWEST CORRIDOR OF PLAINFIELD ROAD AND CASS AVENUE IN AN AMOUNT NOT TO EXCEED \$52,300

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council of the City of Darien, hereby authorizes the Mayor to accept a proposal from Christopher B. Burke Engineering, Ltd. (CBBEL) for the professional design engineering services related to the survey and preparation of design drawings for the Plainfield Road Retaining Wall at the southwest corridor of Plainfield Road and Cass Avenue in an amount not to exceed \$52,300, a copy of which is attached hereto as “**Exhibit A**” and is by this reference expressly incorporated hereto.

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November, 2023.

AYES: _____

NAYS: _____

ABSENT: _____

APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November, 2023.

JOSEPH MARCHESE, MAYOR

ATTEST:

JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM:

CITY ATTORNEY

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**

16221 W. 159th Street Suite 201 Lockport, Illinois 60441 TEL (815) 770-2850

September 22, 2023

City of Darien
1702 Plainfield Road
Darien, IL 60561

Attention: Dan Gombac

Subject: Professional Engineering Services Proposal for Design Services
Plainfield Road Retaining Wall Project

Dear Mr. Gombac:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to provide this proposal for professional design engineering services related to the survey and preparation of design drawings for the Plainfield Road Retaining Wall Project. Included in this proposal are our Understanding of the Assignment, Scope of Work and Estimated Fee.

UNDERSTANDING OF THE ASSIGNMENT

CBBEL understands that the City of Darien wishes to install a new retaining wall along the south Right-of-Way from Cass Avenue to Linden Avenue. At this location, an existing segmental block retaining wall retains the Plainfield Road Corridor. The wall is approximately 350 ft long and has a maximum retained height of approximately 6 ft. There is a chain link fence on the top of the wall. The existing wall is showing signs of deterioration, likely from salt spray. We understand the City's intent is to install a large block retaining wall (Redi-Rock or similar) in front of the existing wall, and then bury the existing wall. This proposal does not include work related to easement acquisition.

SCOPE OF SERVICES

The following tasks will be included as part of our effort:

Task 1 – Topographic Survey: CBBEL will perform full Topographic Survey of Plainfield Road Southerly Parkway (from Cass Ave E'ly parkway to Linden Ave W'ly parkway, with full detail of existing retaining wall, 350'LF ±), for use in Design Engineering Services. CBBEL will perform the following survey tasks:

1. Horizontal Control: Utilizing state plane coordinates, CBBEL will tie into NGS Monumentation control utilizing state of the art GPS equipment. GPS Observed control points will be established to be utilized as site primary control. Horizontal Datum will correlate with established NGS control monuments (NAD '83, Illinois East Zone 1201).
2. Vertical Control: CBBEL will establish site benchmarks for construction purposes, tied to the NAVD '88 Vertical Datum. State-of-the-art G.P.S. equipment will be used

to establish benchmarks and assign a vertical datum on the horizontal control points. This will be based on GPS observed NGS control monuments (NAVD '88 Datum).

3. Existing Right-of-Way: CBBEL will establish the approximate existing right-of-way of the roadways within the project limits based on monumentation found in the field, plats of highways, subdivision plats and any other available information.
4. Topographic Survey: CBBEL will field locate all pavements, driveways, curb and gutters, pavement markings, signs, manholes, utility vaults, drainage structures, utilities, driveway culverts, cross road culverts, etc. within the project limits. Establish all rim and invert elevations, utility sizes & type, depth subterranean structure, etc., at all points of access to below-grade utilities.
5. Cross Sections: CBBEL will survey cross sections along the project limits at 50' intervals, at driveways, and at all other grade controlling features.
6. Tree Survey: CBBEL will locate all trees over 6" inches in diameter within the existing right-of-way for the project in order to assess potential tree impacts, if any, associated with the project. The located trees will be identified by species (deciduous or coniferous) and the size and condition determined as appropriate.
7. Utility Survey and Coordination: All existing storm and sanitary sewers will be surveyed to determine rim and invert elevations and pipe sizes. Above ground facilities of any additional underground utilities including water main, gas, electric, cable, etc. will also be located.
8. Base Mapping: CBBEL will compile all of the above information onto one base map at 1"=20' scale that is representative of existing conditions for use as the base sheet for the construction of any public or private infrastructure subsequent to the findings of engineering/drainage analysis.

NOTE: Boundary/Land Acquisition Survey, Plats of Easement, and Right-of-Way/Plat of Highway Scope of Services are not included in this proposal.

Task 2 – JULIE Utility Survey: CBBEL will coordinate with JULIE to retrieve atlas information for all applicable underground utilities including water main, gas, electric, cable, etc.. CBBEL will compile all Utility Atlas information into the base map. Locations of existing utilities /obstructions / systems shown on the base map are the compilation of available utility plans provided by utility owners and JULIE Utility Coordination. All utilities /obstructions / systems may not be shown. Contractor shall be responsible for locating and protecting all underground utilities /obstructions / systems whether or not shown on base map. JULIE Utility Coordination Atlas information is typically isolated to Public Right-of-Way (off-site) & limited areas adjacent to Public Right-of-Way. Identification & location of all private subsurface utilities within project area (on-site) is the responsibility of the client.

Task 3 – Geotechnical Investigation: CBBEL's subconsultant, Testing Service Corporation (TSC), will perform three to four hand-augered soil borings, up to 15' depth on the low side of the wall. TSC will prepare a geotechnical report summarizing its findings and the parameters to be used for the design of the retaining wall (soil pressures, friction coefficient, bearing capacity, etc). The report will indicate if undercuts will be required under the wall.

Additionally, TSC will perform a “Potentially Impacted Property” (PIP) evaluation and provide sampling and laboratory analyses for the completion of the LPC-663 form.

Task 4 – Prefinal Plans, Specifications and Estimate: CBBEL will prepare engineering plans, specifications and estimates utilizing local funds for the following sheets:

- Cover Sheet
- General Notes Sheet
- Summary of Quantities
- Alignment, Ties and Benchmarks
- Maintenance of Traffic (Potential Sidewalk Closures)
- Erosion Control and Landscaping
- Removal Plans
- Proposed Roadway Plans
- Retaining Wall General Plan and Elevation Sheets
- Retaining Wall Note Sheet and Bill of Materials
- Retaining Wall Section and Detail Sheets
- Miscellaneous Construction Details

CBBEL will draft sheets at a scale of 1”=10’ for structural general plan and elevation sheets and 1”=20’ for civil sheets. This task will include sending plans to private utility companies, identified in Task 2, that may have facilities in the vicinity of the project.

Task 5 – Final Plans, Specifications and Estimate / Bid Documents: CBBEL will address/incorporate all prefinal comments received and complete final plans, specifications and estimates. CBBEL will prepare contract bidding documents to facilitate public bidding of the project by the City. As part of the bid documents, CBBEL will assist the City with the compilations and preparation of front-end contract documents to facilitate bidding. CBBEL will provide final reproducible drawings and specifications to be issued electronically to prospective bidders.

Task 6 – Bidding Assistance: CBBEL will attend the bid opening, tabulate the bids and make recommendations to the City, prepare contracts for the successful bidder, and attend the preconstruction meeting.

This task also includes making minor revisions to contract documents subsequent to the bid to incorporate addenda and address any post-bid review comments.

Task 7 – Meetings, Coordination and Management: This task includes general project coordination, administration, and management. We anticipate that the above tasks will require up to three (3) virtual meetings with City staff to review project designs and maintain project momentum.

ESTIMATE OF FEE

We have determined the following fees for each of the tasks described in this proposal.

<u>Task</u>	<u>Fee</u>
Task 1 – Topographic Survey	\$ 5,220
Task 2 – JULIE Utility Survey	\$ 1,140
Task 3 – Geotechnical Investigation	\$ 9,000
Task 4 – Prefinal Plans, Specifications and Estimate	\$ 24,640
Task 5 – Final Plans, Specification and Estimate / Bid Documents	\$ 7,080
Task 6 – Bidding Assistance	\$ 1,520
Task 7 – Meetings, Coordination and Management	\$ 3,200
Direct Costs	\$ 500

TOTAL NOT-TO-EXCEED FEE: \$ 52,300

We will bill you at the hourly rates specified on the attached Schedule of Charges. We will establish our contract in accordance with the attached General Term and Conditions. These General Terms and Conditions are expressly incorporated into and are an integral part of this contract for professional services. Direct costs for blueprints, photocopying, mailing, mileage, overnight delivery, messenger services and report binding are included in the Fee Estimate. Please note that meetings and additional services performed by CBBEL that are not included as part of this proposal will be billed on a time and materials basis and at the attached hourly rates.

Please sign and return one copy of this agreement as an indication of acceptance and notice to proceed. Please feel free to contact us anytime.

Sincerely,



Michael E. Kerr, PE
President

Encl. 2023 Schedule of Charges
General Terms and Conditions

THIS PROPOSAL, SCHEDULE OF CHARGES AND GENERAL TERMS AND CONDITIONS ACCEPTED FOR THE CITY OF DARIEN.

BY: _____

TITLE: _____

DATE: _____

**CHRISTOPHER B. BURKE ENGINEERING, LTD.
STANDARD CHARGES FOR PROFESSIONAL SERVICES
JANUARY 2023**

<u>Personnel</u>	<u>Charges*</u> <u>(\$/Hr)</u>
Engineer VI	265
Engineer V	220
Engineer IV	180
Engineer III	160
Engineer I/II	135
Survey V	240
Survey IV	220
Survey III	190
Survey II	160
Survey I	120
Engineering Technician V	210
Engineering Technician IV	175
Engineering Technician III	125
Engineering Technician I/II	85
CAD Manager	200
CAD II	145
GIS Specialist III	165
Landscape Architect	190
Landscape Designer I/II	110
Environmental Resource Specialist V	225
Environmental Resource Specialist IV	180
Environmental Resource Specialist III	145
Environmental Resource Specialist I/II	100
Environmental Resource Technician	130
Administrative	110
Engineering Intern	70
Information Technician III	150
Information Technician I/II	120
<u>Direct Costs</u>	
Outside Copies, Blueprints, Messenger, Delivery Services, Mileage	Cost + 12%

*Charges include overhead and profit

Christopher B. Burke Engineering, Ltd. reserves the right to increase these rates and costs by 5% after December 31, 2023.

CHRISTOPHER B. BURKE ENGINEERING, LTD.
GENERAL TERMS AND CONDITIONS

1. Relationship Between Engineer and Client: Christopher B. Burke Engineering, Ltd. (Engineer) shall serve as Client's professional engineer consultant in those phases of the Project to which this Agreement applies. This relationship is that of a buyer and seller of professional services and as such the Engineer is an independent contractor in the performance of this Agreement and it is understood that the parties have not entered into any joint venture or partnership with the other. The Engineer shall not be considered to be the agent of the Client. Nothing contained in this Agreement shall create a contractual relationship with a cause of action in favor of a third party against either the Client or Engineer.

Furthermore, causes of action between the parties to this Agreement pertaining to acts of failures to act shall be deemed to have accrued and the applicable statute of limitations shall commence to run not later than the date of substantial completion.

2. Responsibility of the Engineer: Engineer will strive to perform services under this Agreement in accordance with generally accepted and currently recognized engineering practices and principles, and in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, express or implied, and no warranty or guarantee is included or intended in this Agreement, or in any report, opinion, document, or otherwise.

Notwithstanding anything to the contrary which may be contained in this Agreement or any other material incorporated herein by reference, or in any Agreement between the Client and any other party concerning the Project, the Engineer shall not have control or be in charge of and shall not be responsible for the means, methods, techniques, sequences or procedures of construction, or the safety, safety precautions or programs of the Client, the construction contractor, other contractors or subcontractors performing any of the work or providing any of the services on the Project. Nor shall the Engineer be responsible for the acts or omissions of the Client, or for the failure of the Client, any architect, engineer, consultant, contractor or subcontractor to carry out their respective responsibilities in accordance with the Project documents, this Agreement or any other agreement concerning the Project. Any provision which purports to amend this provision shall be without effect unless it contains a reference that the content of this condition is expressly amended for the purposes described in such amendment and is signed by the Engineer.

3. Changes: Client reserves the right by written change order or amendment to make changes in requirements, amount of work, or engineering time schedule adjustments, and Engineer and Client shall negotiate appropriate adjustments acceptable to both parties to accommodate any changes, if commercially possible.
4. Suspension of Services: Client may, at any time, by written order to Engineer (Suspension of Services Order) require Engineer to stop all, or any part, of the services required by this Agreement. Upon receipt of such an order, Engineer shall immediately comply with its terms and take all reasonable steps to minimize the costs associated with the services affected by such order. Client, however, shall pay all costs incurred by the suspension, including all costs necessary to maintain continuity and for the

resumptions of the services upon expiration of the Suspension of Services Order. Engineer will not be obligated to provide the same personnel employed prior to suspension, when the services are resumed, in the event that the period of suspension is greater than thirty (30) days.

5. Termination: This Agreement may be terminated by either party upon thirty (30) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. This Agreement may be terminated by Client, under the same terms, whenever Client shall determine that termination is in its best interests. Cost of termination, including salaries, overhead and fee, incurred by Engineer either before or after the termination date shall be reimbursed by Client.
6. Documents Delivered to Client: Drawings, specifications, reports, and any other Project Documents prepared by Engineer in connection with any or all of the services furnished hereunder shall be delivered to the Client for the use of the Client. Engineer shall have the right to retain originals of all Project Documents and drawings for its files. Furthermore, it is understood and agreed that the Project Documents such as, but not limited to reports, calculations, drawings, and specifications prepared for the Project, whether in hard copy or machine readable form, are instruments of professional service intended for one-time use in the construction of this Project. These Project Documents are and shall remain the property of the Engineer. The Client may retain copies, including copies stored on magnetic tape or disk, for information and reference in connection with the occupancy and use of the Project.

When and if record drawings are to be provided by the Engineer, Client understands that information used in the preparation of record drawings is provided by others and Engineer is not responsible for accuracy, completeness, nor sufficiency of such information. Client also understands that the level of detail illustrated by record drawings will generally be the same as the level of detail illustrated by the design drawing used for project construction. If additional detail is requested by the Client to be included on the record drawings, then the Client understands and agrees that the Engineer will be due additional compensation for additional services.

It is also understood and agreed that because of the possibility that information and data delivered in machine readable form may be altered, whether inadvertently or otherwise, the Engineer reserves the right to retain the original tapes/disks and to remove from copies provided to the Client all identification reflecting the involvement of the Engineer in their preparation. The Engineer also reserves the right to retain hard copy originals of all Project Documentation delivered to the Client in machine readable form, which originals shall be referred to and shall govern in the event of any inconsistency between the two.

The Client understands that the automated conversion of information and data from the system and format used by the Engineer to an alternate system or format cannot be accomplished without the introduction of inexactitudes, anomalies, and errors. In the event Project Documentation provided to the Client in machine readable form is so converted, the Client agrees to assume all risks associated therewith and, to the fullest

extent permitted by law, to hold harmless and indemnify the Engineer from and against all claims, liabilities, losses, damages, and costs, including but not limited to attorney's fees, arising therefrom or in connection therewith.

The Client recognizes that changes or modifications to the Engineer's instruments of professional service introduced by anyone other than the Engineer may result in adverse consequences which the Engineer can neither predict nor control. Therefore, and in consideration of the Engineer's agreement to deliver its instruments of professional service in machine readable form, the Client agrees, to the fullest extent permitted by law, to hold harmless and indemnify the Engineer from and against all claims, liabilities, losses, damages, and costs, including but not limited to attorney's fees, arising out of or in any way connected with the modification, misinterpretation, misuse, or reuse by others of the machine readable information and data provided by the Engineer under this Agreement. The foregoing indemnification applies, without limitation, to any use of the Project Documentation on other projects, for additions to this Project, or for completion of this Project by others, excepting only such use as may be authorized, in writing, by the Engineer.

7. Reuse of Documents: All Project Documents including but not limited to reports, opinions of probable costs, drawings and specifications furnished by Engineer pursuant to this Agreement are intended for use on the Project only. They cannot be used by Client or others on extensions of the Project or any other project. Any reuse, without specific written verification or adaptation by Engineer, shall be at Client's sole risk, and Client shall indemnify and hold harmless Engineer from all claims, damages, losses, and expenses including attorney's fees arising out of or resulting therefrom.

The Engineer shall have the right to include representations of the design of the Project, including photographs of the exterior and interior, among the Engineer's promotional and professional materials. The Engineer's materials shall not include the Client's confidential and proprietary information if the Client has previously advised the Engineer in writing of the specific information considered by the Client to be confidential and proprietary.

8. Standard of Practice: The Engineer will strive to conduct services under this agreement in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as of the date of this Agreement.
9. Compliance With Laws: The Engineer will strive to exercise usual and customary professional care in his/her efforts to comply with those laws, codes, ordinance and regulations which are in effect as of the date of this Agreement.

With specific respect to prescribed requirements of the Americans with Disabilities Act of 1990 or certified state or local accessibility regulations (ADA), Client understands ADA is a civil rights legislation and that interpretation of ADA is a legal issue and not a design issue and, accordingly, retention of legal counsel (by Client) for purposes of interpretation is advisable. As such and with respect to ADA, Client agrees to waive any action against Engineer, and to indemnify and defend Engineer against any claim arising from Engineer's alleged failure to meet ADA requirements prescribed.

Further to the law and code compliance, the Client understands that the Engineer will strive to provide designs in accordance with the prevailing Standards of Practice as previously set forth, but that the Engineer does not warrant that any reviewing agency having jurisdiction will not for its own purposes comment, request changes and/or additions to such designs. In the event such design requests are made by a reviewing agency, but which do not exist in the form of a written regulation, ordinance or other similar document as published by the reviewing agency, then such design changes (at substantial variance from the intended design developed by the Engineer), if effected and incorporated into the project documents by the Engineer, shall be considered as Supplementary Task(s) to the Engineer's Scope of Service and compensated for accordingly.

10. Indemnification: Engineer shall indemnify and hold harmless Client up to the amount of this contract fee (for services) from loss or expense, including reasonable attorney's fees for claims for personal injury (including death) or property damage to the extent caused by the sole negligent act, error or omission of Engineer.

Client shall indemnify and hold harmless Engineer under this Agreement, from loss or expense, including reasonable attorney's fees, for claims for personal injuries (including death) or property damage arising out of the sole negligent act, error omission of Client.

In the event of joint or concurrent negligence of Engineer and Client, each shall bear that portion of the loss or expense that its share of the joint or concurrent negligence bears to the total negligence (including that of third parties), which caused the personal injury or property damage.

Engineer shall not be liable for special, incidental or consequential damages, including, but not limited to loss of profits, revenue, use of capital, claims of customers, cost of purchased or replacement power, or for any other loss of any nature, whether based on contract, tort, negligence, strict liability or otherwise, by reasons of the services rendered under this Agreement.

11. Opinions of Probable Cost: Since Engineer has no control over the cost of labor, materials or equipment, or over the Contractor(s) method of determining process, or over competitive bidding or market conditions, his/her opinions of probable Project Construction Cost provided for herein are to be made on the basis of his/her experience and qualifications and represent his/her judgement as a design professional familiar with the construction industry, but Engineer cannot and does not guarantee that proposal, bids or the Construction Cost will not vary from opinions of probable construction cost prepared by him/her. If prior to the Bidding or Negotiating Phase, Client wishes greater accuracy as to the Construction Cost, the Client shall employ an independent cost estimator Consultant for the purpose of obtaining a second construction cost opinion independent from Engineer.
12. Governing Law & Dispute Resolutions: This Agreement shall be governed by and construed in accordance with Articles previously set forth by (Item 9 of) this Agreement, together with the laws of the **State of Illinois**.

Any claim, dispute or other matter in question arising out of or related to this Agreement, which can not be mutually resolved by the parties of this Agreement, shall be subject to mediation as a condition precedent to arbitration (if arbitration is agreed upon by the parties of this Agreement) or the institution of legal or equitable proceedings by either party. If such matter relates to or is the subject of a lien arising out of the Engineer's services, the Engineer may proceed in accordance with applicable law to comply with the lien notice or filing deadlines prior to resolution of the matter by mediation or by arbitration.

The Client and Engineer shall endeavor to resolve claims, disputes and other matters in question between them by mediation which, unless the parties mutually agree otherwise, shall be in accordance with the Construction Industry Mediation Rules of the American Arbitration Association currently in effect. Requests for mediation shall be filed in writing with the other party to this Agreement and with the American Arbitration Association. The request may be made concurrently with the filing of a demand for arbitration but, in such event, mediation shall proceed in advance of arbitration or legal or equitable proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order.

The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

13. Successors and Assigns: The terms of this Agreement shall be binding upon and inure to the benefit of the parties and their respective successors and assigns: provided, however, that neither party shall assign this Agreement in whole or in part without the prior written approval of the other.
14. Waiver of Contract Breach: The waiver of one party of any breach of this Agreement or the failure of one party to enforce at any time, or for any period of time, any of the provisions hereof, shall be limited to the particular instance, shall not operate or be deemed to waive any future breaches of this Agreement and shall not be construed to be a waiver of any provision, except for the particular instance.
15. Entire Understanding of Agreement: This Agreement represents and incorporates the entire understanding of the parties hereto, and each party acknowledges that there are no warranties, representations, covenants or understandings of any kind, matter or description whatsoever, made by either party to the other except as expressly set forth herein. Client and the Engineer hereby agree that any purchase orders, invoices, confirmations, acknowledgments or other similar documents executed or delivered with respect to the subject matter hereof that conflict with the terms of the Agreement shall be null, void & without effect to the extent they conflict with the terms of this Agreement.
16. Amendment: This Agreement shall not be subject to amendment unless another instrument is duly executed by duly authorized representatives of each of the parties and entitled "Amendment of Agreement".

17. Severability of Invalid Provisions: If any provision of the Agreement shall be held to contravene or to be invalid under the laws of any particular state, county or jurisdiction where used, such contravention shall not invalidate the entire Agreement, but it shall be construed as if not containing the particular provisions held to be invalid in the particular state, country or jurisdiction and the rights or obligations of the parties hereto shall be construed and enforced accordingly.
18. Force Majeure: Neither Client nor Engineer shall be liable for any fault or delay caused by any contingency beyond their control including but not limited to acts of God, wars, strikes, walkouts, fires, natural calamities, or demands or requirements of governmental agencies.
19. Subcontracts: Engineer may subcontract portions of the work, but each subcontractor must be approved by Client in writing.
20. Access and Permits: Client shall arrange for Engineer to enter upon public and private property and obtain all necessary approvals and permits required from all governmental authorities having jurisdiction over the Project. Client shall pay costs (including Engineer's employee salaries, overhead and fee) incident to any effort by Engineer toward assisting Client in such access, permits or approvals, if Engineer perform such services.
21. Designation of Authorized Representative: Each party (to this Agreement) shall designate one or more persons to act with authority in its behalf in respect to appropriate aspects of the Project. The persons designated shall review and respond promptly to all communications received from the other party.
22. Notices: Any notice or designation required to be given to either party hereto shall be in writing, and unless receipt of such notice is expressly required by the terms hereof shall be deemed to be effectively served when deposited in the mail with sufficient first class postage affixed, and addressed to the party to whom such notice is directed at such party's place of business or such other address as either party shall hereafter furnish to the other party by written notice as herein provided.
23. Limit of Liability: The Client and the Engineer have discussed the risks, rewards, and benefits of the project and the Engineer's total fee for services. In recognition of the relative risks and benefits of the Project to both the Client and the Engineer, the risks have been allocated such that the Client agrees that to the fullest extent permitted by law, the Engineer's total aggregate liability to the Client for any and all injuries, claims, costs, losses, expenses, damages of any nature whatsoever or claim expenses arising out of this Agreement from any cause or causes, including attorney's fees and costs, and expert witness fees and costs, shall not exceed the total Engineer's fee for professional engineering services rendered on this project as made part of this Agreement. Such causes included but are not limited to the Engineer's negligence, errors, omissions, strict liability or breach of contract. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

24. Client's Responsibilities: The Client agrees to provide full information regarding requirements for and about the Project, including a program which shall set forth the Client's objectives, schedule, constraints, criteria, special equipment, systems and site requirements.

The Client agrees to furnish and pay for all legal, accounting and insurance counseling services as may be necessary at any time for the Project, including auditing services which the Client may require to verify the Contractor's Application for Payment or to ascertain how or for what purpose the Contractor has used the money paid by or on behalf of the Client.

The Client agrees to require the Contractor, to the fullest extent permitted by law, to indemnify, hold harmless, and defend the Engineer, its consultants, and the employees and agents of any of them from and against any and all claims, suits, demands, liabilities, losses, damages, and costs ("Losses"), including but not limited to costs of defense, arising in whole or in part out of the negligence of the Contractor, its subcontractors, the officers, employees, agents, and subcontractors of any of them, or anyone for whose acts any of them may be liable, regardless of whether or not such Losses are caused in part by a party indemnified hereunder. Specifically excluded from the foregoing are Losses arising out of the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs, or specifications, and the giving of or failure to give directions by the Engineer, its consultants, and the agents and employees of any of them, provided such giving or failure to give is the primary cause of Loss. The Client also agrees to require the Contractor to provide to the Engineer the required certificate of insurance.

The Client further agrees to require the Contractor to name the Engineer, its agents and consultants as additional insureds on the Contractor's policy or policies of comprehensive or commercial general liability insurance. Such insurance shall include products and completed operations and contractual liability coverages, shall be primary and noncontributing with any insurance maintained by the Engineer or its agents and consultants, and shall provide that the Engineer be given thirty days, unqualified written notice prior to any cancellation thereof.

In the event the foregoing requirements, or any of them, are not established by the Client and met by the Contractor, the Client agrees to indemnify and hold harmless the Engineer, its employees, agents, and consultants from and against any and all Losses which would have been indemnified and insured against by the Contractor, but were not.

When Contract Documents prepared under the Scope of Services of this contract require insurance(s) to be provided, obtained and/or otherwise maintained by the Contractor, the Client agrees to be wholly responsible for setting forth any and all such insurance requirements. Furthermore, any document provided for Client review by the Engineer under this Contract related to such insurance(s) shall be considered as sample insurance requirements and not the recommendation of the Engineer. Client agrees to have their own risk management department review any and all insurance requirements for adequacy and to determine specific types of insurance(s) required for the project. Client further agrees that decisions concerning types and amounts of insurance are

specific to the project and shall be the product of the Client. As such, any and all insurance requirements made part of Contract Documents prepared by the Engineer are not to be considered the Engineer's recommendation, and the Client shall make the final decision regarding insurance requirements.

25. Information Provided by Others: The Engineer shall indicate to the Client the information needed for rendering of the services of this Agreement. The Client shall provide to the Engineer such information as is available to the Client and the Client's consultants and contractors, and the Engineer shall be entitled to rely upon the accuracy and completeness thereof. The Client recognizes that it is impossible for the Engineer to assure the accuracy, completeness and sufficiency of such information, either because it is impossible to verify, or because of errors or omissions which may have occurred in assembling the information the Client is providing. Accordingly, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Engineer and the Engineer's subconsultants harmless from any claim, liability or cost (including reasonable attorneys' fees and cost of defense) for injury or loss arising or allegedly arising from errors, omissions or inaccuracies in documents or other information provided by the Client to the Engineer.

26. Payment: Client shall be invoiced once each month for work performed during the preceding period. Client agrees to pay each invoice within thirty (30) days of its receipt. The client further agrees to pay interest on all amounts invoiced and not paid or objected to for valid cause within said thirty (30) day period at the rate of eighteen (18) percent per annum (or the maximum interest rate permitted under applicable law, whichever is the lesser) until paid. Client further agrees to pay Engineer's cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees, as well as costs attributed to suspension of services accordingly and as follows:

Collection Costs. In the event legal action is necessary to enforce the payment provisions of this Agreement, the Engineer shall be entitled to collect from the Client any judgement or settlement sums due, reasonable attorneys' fees, court costs and expenses incurred by the Engineer in connection therewith and, in addition, the reasonable value of the Engineer's time and expenses spent in connection with such collection action, computed at the Engineer's prevailing fee schedule and expense policies.

Suspension of Services. If the Client fails to make payments when due or otherwise is in breach of this Agreement, the Engineer may suspend performance of services upon five (5) calendar days' notice to the Client. The Engineer shall have no liability whatsoever to the Client for any costs or damages as a result of such suspension caused by any breach of this Agreement by the Client. Client will reimburse Engineer for all associated costs as previously set forth in (Item 4 of) this Agreement.

27. When construction observation tasks are part of the service to be performed by the Engineer under this Agreement, the Client will include the following clause in the construction contract documents and Client agrees not to modify or delete it:

Kotecki Waiver. Contractor (and any subcontractor into whose subcontract this clause is incorporated) agrees to assume the entire liability for all personal injury claims suffered by its own employees, including without limitation claims under the **Illinois** Structural Work Act, asserted by persons allegedly injured on the Project; waives any limitation of liability defense based upon the Worker's Compensation Act, court interpretations of said Act or otherwise; and to the fullest extent permitted by law, agrees to indemnify and hold harmless and defend Owner and Engineer and their agents, employees and consultants (the "Indemnitees") from and against all such loss, expense, damage or injury, including reasonable attorneys' fees, that the Indemnitees may sustain as a result of such claims, except to the extent that **Illinois** law prohibits indemnity for the Indemnitees' own negligence. The Owner and Engineer are designated and recognized as explicit third party beneficiaries of the Kotecki Waiver within the general contract and all subcontracts entered into in furtherance of the general contract.

28. Job Site Safety/Supervision & Construction Observation: The Engineer shall neither have control over or charge of, nor be responsible for, the construction means, methods, techniques, sequences of procedures, or for safety precautions and programs in connection with the Work since they are solely the Contractor's rights and responsibilities. The Client agrees that the Contractor shall supervise and direct the work efficiently with his/her best skill and attention; and that the Contractor shall be solely responsible for the means, methods, techniques, sequences and procedures of construction and safety at the job site. The Client agrees and warrants that this intent shall be carried out in the Client's contract with the Contractor. The Client further agrees that the Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work; and that the Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to all employees on the subject site and all other persons who may be affected thereby. The Engineer shall have no authority to stop the work of the Contractor or the work of any subcontractor on the project.

When construction observation services are included in the Scope of Services, the Engineer shall visit the site at intervals appropriate to the stage of the Contractor's operation, or as otherwise agreed to by the Client and the Engineer to: 1) become generally familiar with and to keep the Client informed about the progress and quality of the Work; 2) to strive to bring to the Client's attention defects and deficiencies in the Work and; 3) to determine in general if the Work is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Engineer shall not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. If the Client desires more extensive project observation, the Client shall request that such services be provided by the Engineer as Additional and Supplemental Construction Observation Services in accordance with the terms of this Agreement.

The Engineer shall not be responsible for any acts or omissions of the Contractor, subcontractor, any entity performing any portions of the Work, or any agents or employees of any of them. The Engineer does not guarantee the performance of the

Contractor and shall not be responsible for the Contractor's failure to perform its Work in accordance with the Contract Documents or any applicable laws, codes, rules or regulations.

When municipal review services are included in the Scope of Services, the Engineer (acting on behalf of the municipality), when acting in good faith in the discharge of its duties, shall not thereby render itself liable personally and is, to the maximum extent permitted by law, relieved from all liability for any damage that may accrue to persons or property by reason of any act or omission in the discharge of its duties. Any suit brought against the Engineer which involve the acts or omissions performed by it in the enforcement of any provisions of the Client's rules, regulation and/or ordinance shall be defended by the Client until final termination of the proceedings. The Engineer shall be entitled to all defenses and municipal immunities that are, or would be, available to the Client.

29. Insurance and Indemnification: The Engineer and the Client understand and agree that the Client will contractually require the Contractor to defend and indemnify the Engineer and/or any subconsultants from any claims arising from the Work. The Engineer and the Client further understand and agree that the Client will contractually require the Contractor to procure commercial general liability insurance naming the Engineer as an additional named insured with respect to the work. The Contractor shall provide to the Client certificates of insurance evidencing that the contractually required insurance coverage has been procured. However, the Contractor's failure to provide the Client with the requisite certificates of insurance shall not constitute a waiver of this provision by the Engineer.

The Client and Engineer waive all rights against each other and against the Contractor and consultants, agents and employees of each of them for damages to the extent covered by property insurance during construction. The Client and Engineer each shall require similar waivers from the Contractor, consultants, agents and persons or entities awarded separate contracts administered under the Client's own forces.

30. Hazardous Materials/Pollutants: Unless otherwise provided by this Agreement, the Engineer and Engineer's consultants shall have no responsibility for the discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials/pollutants in any form at the Project site, including but not limited to mold/mildew, asbestos, asbestos products, polychlorinated biphenyl (PCB) or other toxic/hazardous/pollutant type substances.

Furthermore, Client understands that the presence of mold/mildew and the like are results of prolonged or repeated exposure to moisture and the lack of corrective action. Client also understands that corrective action is a operation, maintenance and repair activity for which the Engineer is not responsible.

AGENDA MEMO
Municipal Services Committee
October 23, 2023

ISSUE STATEMENT

Approval of a [resolution](#) accepting a proposal from Connexion to purchase street light fixtures and shield at the submitted unit price through April 30, 2024.

BACKGROUND/HISTORY

The City owns and maintains 630 street lights. In 2016 the City retrofitted to light fixtures to light-emitting diode (LED) fixtures, see [Attachment A](#). During the last year and half it has been identified that approximately 205 fixtures have prematurely burned out. The existing Leotek fixtures carry a 10-year warranty set to expire in 2026. While the manufacture has been honoring the replacements and continues to provide replacement inventory. Lead times have been delayed due to supply chain issues such as semiconductors/drivers being in constant short supply. The manufacture has not provided to date an assessment of the premature failures. The labor to remove and replace is outsourced under the street light contract and the warranty does not cover the labor to remove and replace. The delays lead to street lights being out for up to a month. As a supplement, the City has reviewed an alternative fixture to replace the fixtures within a couple of days as they burn out, provided the Leotek fixture is in stock.

Staff requested quotes for the following Sylvania street light fixtures and glare shields:

- Item #65775 AREAFLD4A/S100UNVD830/T4/GR
- Item #63164 AREAFLD4A/SMALLGLARESHIELD
- Item #61393 AREAFLDXA/NEMAPHOTOCELL/UNV

Staff received five (5) responsive quotes. The lowest quote was submitted from Connexion, see [Attachment B](#). The request for quotes included two optional extensions for 2024 and 2025.

The street light fixtures are funded through the following account:

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	FY 23/24 BUDGET	PROPOSED EXPENDITURE	EXPENDITURE TO DATE
01-30-4359	Street Light Operations & Maintenance	\$ 78,000.00	\$ 6,417.80	\$ 22,114.28

STAFF RECOMMENDATION

Approval of a resolution accepting a proposal from Connexion to purchase street light fixtures and shield at the submitted unit price through April 30, 2024.

ALTERNATE DECISION

As recommended by the Committee.

DECISION MODE

This item will be on the November 6, 2023 City Council agenda for formal consideration.

AGENDA MEMO
City Council
April 4, 2016

Issue Statement

Approval of the following resolutions as they relate to the City's LED Streetlight Retrofit Project:

Approval of a resolution to accept a proposal from Lake Shore Lighting LLC, for the purchase of LED Street Light Heads at a cost not to exceed \$187,160.

AND

Approval of a resolution to accept the revised unit pricing from Rags Electric in an amount not to exceed \$55,680 for the removal of the existing street light heads and the installation of the new LED fixtures.

Background/History

On March 12, 2015 staff had received three sealed bids for the 2015/16 Street Light Maintenance Contract. Rags Electric is the awarded vendor for the City's Street Light Maintenance Contract. The contract called out for an optional LED Conversion cost schedule.

In summary, the LED Conversion Project includes the following:

1. Removal of the existing fixture
2. Disposal of the existing fixture
3. Purchase and Installation of the following *571 LED Streetlight heads as follows:

**TYPE	MANUFACTURER	QUANTITY	PART NUMBER
A	EYE LIGHTING	17	LES-37W-333-840-HWD W/ 10KA SURGE SUPPRESSOR /TERMINAL BLOCK
A-1	LEOTEK	300	HSS GCM 40 (HOUSE SIDE SHIELD FOR TYPE A)
B	EYE LIGHTING	61	LES-57W 333-840-HWD W/10KA SURGE / TERMINAL BLOCK
C	EYE LIGHTING	14	P-L4-45-5-7-U-Y-N-R-E1
D	LEOTEK	422	GCM2-40F-MV-NW-2-GY-1A
E	LEOTEK	57	GC2-80F-MV-NW-3-GY-1A

**Type-Refers to Map Location (not included)

*Total street light inventory is currently at 571 fixtures. Pending field conditions the inventory will be updated. Each fixture shall carry a 10-year warranty and Rags Electric shall provide a one-year installation warranty. The installation warranty shall ensure the City that the vendor has secured the fixture per the lighting manufacturer specs and is structurally secured to the existing pole/mast arm.

The City applied for the following two grants:

1. Illinois Clean Energy Grant #7370 for \$25,000 Approved on April 30, 2015, see Attachment A (6 pages). An extension was granted on March 7, 2016. The project must be completed by July 31, 2016, see attached correspondence labeled as Attachment B. The City's cost must be in the minimal amount of \$62,500 to meet the requirements of the grant.
2. Illinois Department of Commerce and Economic Opportunity's (DCEO) 2015-2016 Illinois Energy Now Public Sector Energy Efficiency Program Darien LED Streetlight Project 9092, Approved for \$105,000, see attached correspondence labeled as Attachment C (4 pages). Please note: This grant has not been released to date, and is pending approval of the state budget.

In preparation of the 2016-17 Budget, Staff reached out to the lighting representative and requested a review of the fixture pricing as presented within the street Lighting bid tally. The manufacturer's representative, Lake Shore Lighting, LLC, was able to secure additional discounting provided that all the fixtures were purchased at one time.

Attached and Labeled as Attachment D and Attachment E (13 pages) are the fixture pricing as per the 2015 bid tally and the renegotiated pricing directly from the manufactures representative.

The City staff also reached out to the City's awarded street light vendor, Rags Electric, and requested to negotiate the removal and installation unit pricing from \$49.00 to \$40.00 per item. The vendor has agreed to the request and attached as Attachment F is the bid tally and renegotiated pricing.

Once the project is completed, it is conservatively estimated that the return on investment is approximately 7.3 years. Majority of the street light fixtures are unmetered and billed under a Rate 25 Schedule. The City's current street light inventory has a vast range of bulbs that average approximately 200 watts. The vendor will be required to inventory every bulb being replaced and the city will forward the inventory to Com Ed with the LED Head replacement. Com Ed and Lakeshore Lighting will verify the revised power consumption and the rates will be revised. It is estimated that there will be an annual \$15,000 energy cost savings. The maintenance costs for the light outages will also be reduced by approximately \$12,000 annually.

The 2016/17 Budget calls out for the funding for the Street Light Maintenance Program from the following line items:

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	FY 16/17 BUDGET	PROPOSED EXPENDITURE
25-35-4815	STREET LIGHT LED RETROFIT PROJECT	\$ 250,000.00	\$ 242,840.00
APPROVED GRANT	ILLINOIS CLEAN ENERGY	\$ 25,000.00	(\$ 25,000.00)
TOTAL COST			\$217,840.00
*GRANT PENDING	DCEO-Illinois Department of Commerce and Economic Opportunity's	\$105,000.00	(\$105,000.00)
TOTAL		N/A	\$ 112,840.00

* Pending State Budget approval by March 31, 2016. If State Budget is not approved by said date the grant will require resubmission, see Attachment C from the State of Illinois. Please note there is no guarantee that the DCEO grant will be approved.

Staff Recommendation

Municipal Services Committee recommends approval of the attached resolutions.

Alternate Consideration

As directed by City Council.

Decision Mode

This item will be placed on the April 4, 2016 City Council agenda for formal consideration.



Illinois Clean Energy
community foundation

April 30, 2015

Mr. Michael Griffith
Senior Planner
City of Darien
1702 Plainfield Road
Darien, IL 60561

Dear Mr. Griffith:

We are very pleased to inform you that the Illinois Clean Energy Community Foundation has approved a grant of \$25,000 to the City of Darien for energy efficient upgrades to lighting systems in your facilities.

Thank you for your leadership in demonstrating the value of investing in energy efficiency for your community: enhancing lighting quality, saving money, and improving the environment.

The attached grant agreement defines the terms and conditions of the grant.

To accept the grant, please review, sign and return the grant agreement electronically to the Foundation as soon as possible and no later than one month from today. Please keep a copy of the grant agreement for your records.

FAILURE TO DO SO MAY RESULT IN THE TERMINATION OF YOUR GRANT.

The Foundation requires grantees to submit grant requirements electronically. Your grant agreement, interim report, and other applicable grant-related documentation should be uploaded via the "Requirements" section of your online account. You can access your account by logging in at https://www.grantrequest.com/SID_325/?SA=AM. Be sure to provide your log-in credentials to others who may be managing these requirements.

On behalf of the Foundation's Board of Trustees and staff, we would like to extend our best wishes for the success of this project.

Sincerely,

A handwritten signature in black ink that reads "Dennis F. O'Brien".

Dennis F. O'Brien
Executive Director



April 30, 2015

Mr. Michael Griffith
Senior Planner
City of Darien
1702 Plainfield Road
Darien, IL 60561

Re: **Request ID: 7370**
City of Darien LED Streetlight
Upgrade - Revised Application

Dear Mr. Griffith:

The Illinois Clean Energy Community Foundation ("the Foundation") is awarding a grant of **\$25,000** to the City of Darien ("the Grantee") for the above-referenced project.

This letter defines the terms and conditions of the grant and constitutes the grant agreement ("the Agreement") between the Foundation and the Grantee. Please read it carefully. ***If the Grantee agrees to the terms and conditions in the Agreement, please return a complete counter-signed copy of the Agreement no later than one month from today. Failure to do so may result in the termination of your grant.*** Contact the Foundation if you have any questions.

Duration and Payment of Grant

This grant is to be used during the period **May 1, 2015** through **April 30, 2016** (the "Grant Period"). Upon satisfactory completion of the Project as defined herein, the Foundation will make a single payment to the Grantee based on the number of annual kilowatt hours of electricity reduced as a result of the Project as completed, but not more than \$25,000 or 40% of the total resulting cost of the project. If the resulting kilowatt hour reduction is less than 0.00 kilowatt hours, as estimated in the application materials submitted to the Foundation by the Grantee, the amount of the grant may be reduced on a pro-rated basis to reflect the actual reduction. The grant amount will not be increased in the event that the Project yields a greater kilowatt hour reduction than estimated in the grant application.

The Foundation reserves the right to suspend, modify or cancel any payments that might otherwise be due under this grant, to require a refund of any unexpended grant funds or both, if:

1. such action is necessary to comply with any applicable law or regulation;
2. the Grantee has used the grant funds for purposes other than as described in the Agreement or otherwise violated any part of the Agreement; and/or
3. the Grantee's performance under the grant has not been satisfactory.

The Foundation's judgment on these matters will be final and binding.

Purpose and Use of Grant

This grant is for the City of Darien LED Streetlight Upgrade - Revised Application (the "Project") described in the Project proposal and budget submitted to the Foundation by the Grantee and dated March 12, 2015. The Grantee confirms that this grant will be used solely for the specific tax-exempt purposes described in the Project proposal and budget and no substantial variance will be made without the Foundation's prior written approval.

The Grantee also confirms that the Project is under its complete control and that it has and will exercise control over the process of selecting any vendors, contractors or consultants involved in the Project. The Grantee and the Foundation are not partners or joint venturers with respect to each other.

Furthermore, the Grantee agrees that funds from this grant will be used exclusively for tax exempt purposes as described in Section 501(c) (3) of the Internal Revenue Code and will not be used for any activities prohibited by law, including, without limitation, attempting to influence legislation or participating in any political campaign on behalf of any candidate for public office. The Grantee agrees that it and its employees, agents and sub-contractors will comply with all applicable federal, state, county and local laws, ordinances, regulations and codes in the performance of the Grantee's obligations under this Agreement.

Reporting Requirements

An **Interim Report** shall be submitted 6 months after the start of the grant period. The Interim Report shall include an update on project activity including construction – if started. If construction has not started 6 months from the date of this grant award, a detailed explanation must be provided that includes an update on project financing and expected construction start.

If the term of the grant extends beyond the grant expiration date due to substantial delays in project construction and completion, additional Interim Reports may be required if deemed necessary by the Foundation. In such circumstances, additional report(s) should be provided in six month increments after the initial Interim Report is submitted.

Upon completion of the Project to the Grantee's satisfaction, the Grantee shall provide the Foundation with the various documents identified in Exhibit A attached hereto (the "Grantee Documents Required for Payment") as part of the Final Report. Promptly upon the Foundation's receipt of the Grantee Documents Required for Payment in form and substance satisfactory to the Foundation, the Foundation will send to the Grantee a check in the amount specified in the Duration and Payment of Grant section of this Agreement.

Publicity

The Foundation believes it is important that many organizations and individuals in Illinois learn about the Project and the ways it benefits the public. Accordingly, the Foundation strongly encourages the Grantee to publicize the receipt of this grant and the results of the Project.

The Grantee agrees to share with the Foundation a draft of any press release or public announcement of the grant prior to distributing the release or announcement and to provide the Foundation with clippings of resulting media coverage.

The Grantee also agrees to allow the Foundation to publicize the Grantee as a grant recipient and to use the name and description of the Project and photographs or other audiovisual representations of subjects related to the Project.

Maintenance of Records and Evaluation

The Grantee is responsible for maintaining adequate financial records regarding use of the grant funds, consistent with generally accepted accounting principles.

The Grantee agrees to cooperate fully in any evaluation of this grant and/or the Project that the Foundation may conduct. Such an evaluation may include a visit from Foundation staff or consultants, interviews with Project participants, a review of financial and other records about the Project maintained by the Grantee and/or similar investigative activities.

Confirmation of Tax-Exempt Status and Good Standing

The Grantee confirms that it is currently a unit of government or a nonprofit organization exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code and is not a private foundation under Section 509(a) of the Internal Revenue Code. **If the Grantee is not a unit of government, it agrees to submit with the signed Agreement written evidence of its tax-exempt, non-private foundation status if it has not previously provided such evidence to the Foundation.**

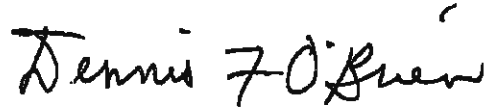
The Grantee further confirms that it is currently in good standing with appropriate state government agencies. If requested by the Foundation, the Grantee agrees to provide written evidence of its good standing.

If there is any change in the Grantee's tax exempt status or good standing during this grant, the Grantee agrees to immediately notify the Foundation of that change.

Acceptance of Terms and Conditions of Agreement

If the Grantee agrees to the terms and conditions in the Agreement, please return to the Foundation one complete copy of this letter signed by an authorized representative of the Grantee in the space provided below. For future reference, please retain a copy of the Agreement in your files. This grant award may be withdrawn if the Foundation has not received a counter-signed copy of the Agreement within one month from the date of this letter.

Sincerely,



Dennis F. O'Brien
Executive Director

Attachment: Exhibit A – Grantee Documents Required for Payment

The Grantee acknowledges that relevant organization executives and Project personnel have read and understand the Agreement, that its terms and conditions are acceptable to the Grantee and that the Grantee will comply with those terms and conditions.

Grantee City of Darien
(This must be the legal name of the organization accepting the grant and it must have federal tax-exempt status.)

Name of Authorized Signer for the Grantee Bryon D VANA

Title of Signer City Administrator

Authorized Signature B D Va
(This must be an original signature of an authorized representative of the Grantee.)

Date Signed 5-4-15



Illinois Clean Energy

community foundation

2 North LaSalle Street • Suite 1140 • Chicago IL 60602
312.372.5191 • fax 312.372.5190 • www.IllinoisCleanEnergy.org

Exhibit A

Grantee Documents Required for Payment

The Foundation requires grantees to submit grant requirements electronically. Your grant agreement, interim report, and other applicable grant-related documentation should be uploaded via the "Requirements" section of your online account. You can access your account by logging in at https://www.grantrequest.com/SID_325/?SA=AM. Be sure to provide your log-in credentials to others who may be managing these requirements.

DOCUMENTS REQUIRED IMMEDIATELY

To accept the grant offered by the Foundation, the Grantee must return a complete, counter-signed copy of the Grant Agreement within one month from the date of this letter. Please keep a copy of the Agreement for your records.

DOCUMENTS REQUIRED UPON PROJECT COMPLETION

Upon completion of the Lighting Upgrade Project to the Grantee's satisfaction, the Grantee must send and upload the Foundation a signed letter on organization letterhead that:

1. confirm the Grantee's acceptance of the Project system hardware and installation as complete and satisfactory; and
2. request that the grant be paid, specifying the exact amount requested.

As attachments to that letter, the Grantee must provide the following documentation:

3. a detailed **updated** list of the quantity(ies) and type(s) of all lighting equipment removed and new/retrofit systems installed as part of the Project; (see notes below)
4. a copy of the final itemized invoice(s) from and/or check(s) issued to all vendors involved in the Project, showing amounts already paid and amounts still owed; this may also include a summary of the hours and total costs of any in-house labor used to complete the Project; in sum, these documents should reflect the total resulting cost of the Project *for each facility upgraded*; and
5. a summary **updated** calculation of the electricity reduction, in kilowatt hours, resulting from the Project, as completed, *for each facility upgraded*. (see the following notes)

Notes:

- a. The wattage savings due to work that is not eligible to be supported with this grant, such as upgrades the replacement of incandescent bulbs with "screw-in" compact fluorescent bulbs, should NOT be included in this calculation).
- b. Regarding documentation requirements #3 and #5; updated information reflecting actual lighting upgrade work performed and corresponding reduction in watts or kilowatts must be provided. A copy of documentation provided with the original funding application will not be accepted as evidence of compliance with these requirements.
- a.



March 10, 2016

Mr. Daniel Gombac
Municipal Services Director
City of Darien
1702 Plainfield RD
Darien, IL 60561

Re: **Request ID: 7370**
City of Darien LED Streetlight
Upgrade - Revised Application

Dear Mr. Gombac:

The Foundation has received your request for an extension of the grant period for the above referenced project.

The Illinois Clean Energy Community Foundation accepts the proposed change to the terms of the grant for that project. The grant period is now **May 1, 2015 through July 31, 2016**. All other terms and conditions of the grant, as defined in the grant agreement dated April 30, 2015 and accepted by Bryon Vana, City Administrator, on May 4, 2015 continue in full force and effect. If you have any further questions about this grant, please contact Nick Poplawski at (312) 372-5191.

Sincerely,

A handwritten signature in black ink that reads "Dennis F. O'Brien".

Dennis F. O'Brien
Executive Director

Dan Gombac

From: Habibi, Johnny <Johnny.Habibi@illinois.gov>
Sent: Friday, March 11, 2016 9:33 AM
To: Dan Gombac
Cc: Bryon Vana; 'nbezold@lakeshorelight.com'; Lisa Klemm
Subject: RE: DCEO Pre-Application - Darien LED Streetlight Project 9092

Then will have to move for next budget year FY17, & the app has been approved, then a new application will have to be resubmitted. We will use the documents (cut sheets, maps, ...), & the review will be easier this time since it was reviewed before.

From: Dan Gombac [mailto:dgombac@darienil.gov]
Sent: Friday, March 11, 2016 9:28 AM
To: Habibi, Johnny
Cc: Bryon Vana; 'nbezold@lakeshorelight.com'; Lisa Klemm
Subject: RE: DCEO Pre-Application - Darien LED Streetlight Project 9092

Thanks Johnny.

Just to clarify, if there is no budget by the end of this month, the grant becomes null and void??

Daniel Gombac
Director of Municipal Services
630-353-8106

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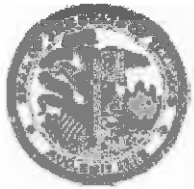
From: Habibi, Johnny [mailto:Johnny.Habibi@illinois.gov]
Sent: Friday, March 11, 2016 9:23 AM
To: Dan Gombac <dgombac@darienil.gov>
Cc: Bryon Vana <bvana@darienil.gov>; 'nbezold@lakeshorelight.com' <nbezold@lakeshorelight.com>; Lisa Klemm <LKlemm@darienil.gov>
Subject: RE: DCEO Pre-Application - Darien LED Streetlight Project 9092

Hi Dan,

The application 9092 is approved for the amount of \$105,663.50. Rebate Agreement document has been prepared, but we can't give a Notice to Proceed letter or give this rebate \$ amount since there is no State of Illinois budget for FY16, we are still waiting for it to be enacted. Therefore, unless there is a budget for FY16, then the grant will be paid up by 5/31/2016. The City of Darien can move ahead with the project but it will be at its own risk in regards to getting the rebate \$ amount described above, in case there is no budget before 3/31/2016. I hope this answers your questions.

Best Regards.

Johnny Habibi PE, CEM
Mechanical Engineer III
Illinois Dept. of Commerce & Economic Opportunity (DCEO)
Illinois Energy Office Web site: <http://www.illinoisenergy.org/>
500 East Monroe Street (Ridgley Building 12th Floor)
Springfield, IL 62701
1.217. 785.2772 (Voice)
1.217. 785.2618 (Fax)
e-mail: johnny.habibi@illinois.gov
Web: www.illinois.gov/dceo



Illinois
Department of Commerce
& Economic Opportunity
OFFICE OF ENERGY & RECYCLING
Bruce Rauner, Governor

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From: Dan Gombac [<mailto:dgombac@darienil.gov>]
Sent: Friday, March 11, 2016 9:09 AM
To: Habibi, Johnny
Cc: Bryon Vana; 'nbetzold@lakeshorelight.com'; Lisa Klemm
Subject: RE: DCEO Pre-Application - Darien LED Streetlight Project 9092

Good morning Johnny:

I wanted to follow up regarding our grant, Darien LED Streetlight Project 9092.

1. Has there been any updates regarding the funding of said grant?
2. Should the funding be approved, and the City's moves ahead with the project, will the grant be retroactive and up to how long?
3. Could you please forward a copy of the proposed grant funding we would be eligible for?

Sincerely,

Daniel Gombac
Director of Municipal Services
630-353-8106

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<http://www.darien.il.us/Departments/Administration/CityNews.html>

From: Dan Gombac
Sent: Tuesday, September 08, 2015 11:36 AM
To: nbetzold@lakeshorelight.com
Cc: Bryon Vana <bvana@darienil.gov>
Subject: RE: DCEO Pre-Application - Darien LED Streetlight Project 9092

Thanks Nick

Daniel Gombac
Director of Municipal Services
630-353-8106

To receive important information from the City of Darien sign up for our electronic newsletter:

DARIEN DIRECT CONNECT

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<http://www.darien.il.us/Departments/Administration/CityNews.html>

From: nbetzold@lakeshorelight.com [<mailto:nbetzold@lakeshorelight.com>]
Sent: Tuesday, September 08, 2015 11:33 AM
To: Dan Gombac
Subject: Fwd: DCEO Pre-Application - Darien LED Streetlight Project 9092

Sent from my iPhone

Begin forwarded message:

From: CEO.Illinois energy <illinois.energy@illinois.gov>
Date: September 8, 2015 at 10:51:44 AM CDT
To: Nick Betzold <nbetzold@lakeshorelight.com>
Cc: "Habibi, Johnny" <Johnny.Habibi@illinois.gov>
Subject: RE: DCEO Pre-Application - Darien LED Streetlight Project 9092

Thank you for your application to the Illinois Department of Commerce and Economic Opportunity's (DCEO) 2015-2016 Illinois Energy Now Public Sector Energy Efficiency Program. We are processing your application and will issue notices to proceed when the Illinois State Budget has been passed. For all further communication regarding your application, please reference project 9092 and contact the DCEO project manager.

This project has been assigned to:

Johnny Habibi
johnny.habibi@illinois.gov
217/785-2772

Lisa Teubner
DCEO
Illinois Energy Office
500 E Monroe R-12
Springfield, IL 62701
217/785-7440
Lisa.teubner@illinois.gov

From: Nick Betzold [<mailto:nbetzold@lakeshorelight.com>]
Sent: Sunday, September 06, 2015 12:13 AM
To: CEO.Illinois energy
Cc: Dan Gombac
Subject: DCEO Pre-Application - Darien LED Streetlight Project

Good Evening,

Attached is the 2015 DCEO Pre-Application and signed Section 2, ComEd Bills, & Spec Sheets (saved as - Darien DCEO Pre-App PART 2) for the City of Darien LED Streetlight Project.

This project has missed 2 previous DCEO cuts when the program has ran out of money and has been years in the making. This project has already been bid out and awarded. The only thing holding the City of Darien back from completing the project is the receipt of a DCEO acceptance letter or some sort of official letter stating the City of Darien has funds set aside.

Please confirm that you have received this email, and let me know if you need any additional information or have any questions.

Thanks!

Best Regards,

Nick Betzold



Office: (844) 525-3746

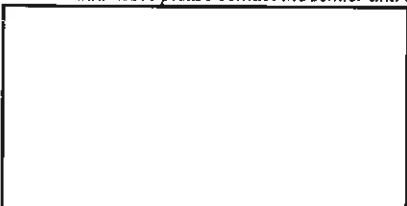
Direct: (847) 989-5843

Fax: (847) 387-3950

Email: nbetzold@lakeshorelight.com

www.LakeShoreLight.com

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CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may

PROPOSED PROGRAM WITH RENEGOTIATED PRICING									
2015 PRICING-BID TALLY MARCH 12, 2015									
	ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8	
Company Name	Eye Lighting LES-37W-333-840-HWD	Eye Lighting LES-57W-443-840-HWD	Eye Lighting PD-L4-40-5-7-U-Y-G-R-E1	Leotek Hss GCM 40	Leotek GCM2-40F-MV-NW-2-GY-1A	Leotek GC2-80F-MV-NW-3-GY-1A	Installation Costs	Cost to remove existing light head fixture	Total
Rag's Electric	\$ 444.00	\$ 504.00	\$ 794.00	\$ 18.00	\$ 312.00	\$ 571.00	\$ 49.50	\$ 49.50	\$ 2,742.00
Revised Pricing	\$ 393.00	\$ 438.00	\$ 724.00	\$ 18.00	\$ 256.00	\$ 449.00	\$ 40.00	\$ 40.00	\$ 2,358.00
Meade Electric	\$ 450.75	\$ 511.32	\$ 800.80	\$ 18.37	\$ 315.73	\$ 578.20	\$ 63.00	\$ 47.00	\$ 2,785.17
Lyons Electric	\$ 465.00	\$ 528.00	\$ 830.00	\$ -	\$ 335.00	\$ 597.00	\$ 140.00	\$ 20.00	\$ 2,915.00

QUANTITY BREAKDOWN-BID TALLY MARCH 12, 2015 UNIT PRICING									
QUANTITY	ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8	
	Eye Lighting LES-37W-333-840-HWD	Eye Lighting LES-57W-333-840-HWD	Eye Lighting P-L4-45-5-7-U-Y-N-R-E1	Leotek Hss GCM 40	Leotek GCM2-40F-MV-NW-2-GY-1A	Leotek GC2-80F-MV-NW-3-GY-1A	Installation Costs	Cost to remove existing light head fixture	Total
198					\$ 61,776.00				\$ 61,776.00
224					\$ 61,776.00				\$ 61,776.00
45						\$ 25,695.00			\$ 25,695.00
12						\$ 6,852.00			\$ 6,852.00
17	\$ 7,548.00								\$ 7,548.00
61		\$ 30,744.00							\$ 30,744.00
14			\$ 11,116.00						\$ 11,116.00
571							\$ 28,264.50	\$ 28,264.50	\$ 56,529.00
BID TALLY COST									\$ 262,036.00

REVISED PROGRAM SUMMARY-WITH RE-NEGOTIATED PRICING									
QUANTITY	ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8	
	Eye Lighting LES-37W-333-840-HWD	Eye Lighting LES-57W-333-840-HWD	Eye Lighting P-L4-45-5-7-U-Y-N-R-E1	Leotek Hss GCM 40	Leotek GCM2-40F-MV-NW-2-GY-1A	Leotek GC2-80F-MV-NW-3-GY-1A	Installation Costs	Cost to remove existing light head fixture	Total
198					\$ 50,688.00				\$ 50,688.00
224					\$ 57,344.00				\$ 57,344.00
45						\$ 20,205.00			\$ 20,205.00
12						\$ 5,388.00			\$ 5,388.00
17	\$ 6,681.00								\$ 6,681.00
61		\$ 26,718.00	\$ -						\$ 26,718.00
14			\$ 10,136.00						\$ 10,136.00
571									\$ 177,160.00
MATERIAL COSTS									
	\$ 6,681.00	\$ 26,718.00	\$ 10,136.00	\$ -	\$ 108,032.00	\$ 25,593.00			\$ 177,160.00
CONTINGENCY-MATERIAL									
									\$ 10,000.00
TOTAL MATERIAL COSTS									
									\$ 187,160.00
571							\$ 22,840.00	\$ 22,840.00	\$ 45,680.00
CONTINGENCY-LABOR									
									\$ 10,000.00
TOTAL LABOR COSTS									
									\$ 55,680.00
TOTAL PROJECT COST									
									\$ 242,840.00

ROI	Energy Savings	Maintenance	Total
Annual Cost Savings	\$ 15,000.00	\$ 12,000.00	\$ 27,000.00
Project Cost Material and Labor	\$ 222,840.00		
Contingency	\$ 20,000.00		
Total Cost	\$ 242,840.00		
Illinois Clean Energy Grant	\$ 25,000.00		
Adjusted Project Cost	\$ 197,840.00		
No of years to recoup costs	7.33		

Dan Gombac

From: Nick Betzold <nbetzold@lakeshorelight.com>
Sent: Tuesday, February 02, 2016 5:25 PM
To: Dan Gombac
Subject: Revised Pricing for LED Streetlights
Attachments: Revised Leotek Streetlight Pricing - Darien.pdf

Hi Dan,

Please see attachments for revised pricing for the Leotek Streetlights. We're quite a bit lower than before. We can do the entire project including install with Rags without going out to bid via TIPS USA. I also put in pricing for the Leotek GCM2-30F as an alternate for the GCM2-40F which is a bit cheaper and slightly less light than the GCM2-40F.

Let me know if you have any questions.

Thanks Dan.

Best Regards,

Nick Betzold



Office: (844) 525-3746

Direct: (847) 989-5843

Fax: (847) 387-3950

Email: nbetzold@lakeshorelight.com

www.LakeShoreLight.com

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Lakeshore Lighting, LLC
 1204 E Central Road
 Arlington Heights, IL 60005

Estimate

Date	3/21/2016
Estimate #	15247
Account #	

Name / Address
City of Darien Dan Gombac 1702 Plainfield Rd Darien, IL 60561

Project	Terms
Darien LED Streetlights	50/50 Due on Receipt

Type	Vendor	Description	Rate	Qty	MPN	Total
GCM2-2	LEOTEK	LEOTEK, GCM2 SERIES, 40 LED, 120-277V, 4000K CCT, TYPE 2 OPTIC (2 LANE ROADWAYS, GRAY, 1A	256.00	198	GCM2-40F-MV-NW-2-GY-1A	50,688.00
GCM2-3	LEOTEK	LEOTEK, GCM2 SERIES, 40 LED, 120-277V, 4000K CCT, TYPE 3 OPTIC (INTERSECTIONS & CUL DE SACS), GRAY, 1A	256.00	224	GCM2-40F-MV-NW-3-GY-1A	57,344.00
GC2-3	LEOTEK	LEOTEK, GC2 SERIES, 80 LED, 120-277V, 4000K CCT, TYPE 3 OPTIC, GRAY, 1A	449.00	45	GC2-80F-MV-NW-3-GY-1A	20,205.00
GC2-2	LEOTEK	LEOTEK, GC2 SERIES, 80 LED, 120-277V, 4000K CCT, TYPE 2 OPTIC, GRAY, 1A	449.00	12	GC2-80F-MV-NW-2-GY-1A	5,388.00
DPT-B & DPT-C	EYE LIGHTING	EYE LIGHTING, 37W LED RETROFIT KIT, 3-SIDES POPULATED, 4000K, HARDWIRED, 120-277V, STANDARD TID (Darien DPT-B & DPT-C)	393.00	17	LES-37W333-840-HWD-XXXX-UNV-3	6,681.00
DPT-A	EYE LIGHTING	EYE LIGHTING, 57W LED POST TOP RETROFIT KIT, 4 SIDES POPULATED, 4000K, HARDWIRED, 120-277V, STANDARD TID, (Darien DPT-A)	438.00	61	LES-57W443-840-HWD-XXXX-UNV-3	26,718.00

--

Total

Toll Free	Fax #	Web Site	Rep	Email
847-989-5843	847-387-3950	www.lakeshorelight.com	NB	nnetzold@lakeshorelight.com



Estimate

Lakeshore Lighting, LLC
 1204 E Central Road
 Arlington Heights, IL 60005

Date	3/21/2016
Estimate #	15247
Account #	

Name / Address
City of Darien Dan Gombac 1702 Plainfield Rd Darien, IL 60561

Project	Terms
Darien LED Streetlights	50/50 Due on Receipt

Type	Vendor	Description	Rate	Qty	MPN	Total
PTN	EYE LIGHTING	EYE LIGHTING, NEW DECORATIVE POST TOP LED FIXTURE, DECORATIVE FITTER, 4,000 LUMENS, TYPE 5 OPTIC, 120-277V, ACRYLIC LENS, GRAY, INTERNAL PHOTOCELL RECEPTACLE, TERMINAL BLOCK #2 - #14 AWG WIRE LEADS, (Darien PTN)	724.00	14	PD-L4-40-5-7-U-Y-G-R-E1	10,136.00
		Sales Tax	7.50%			0.00

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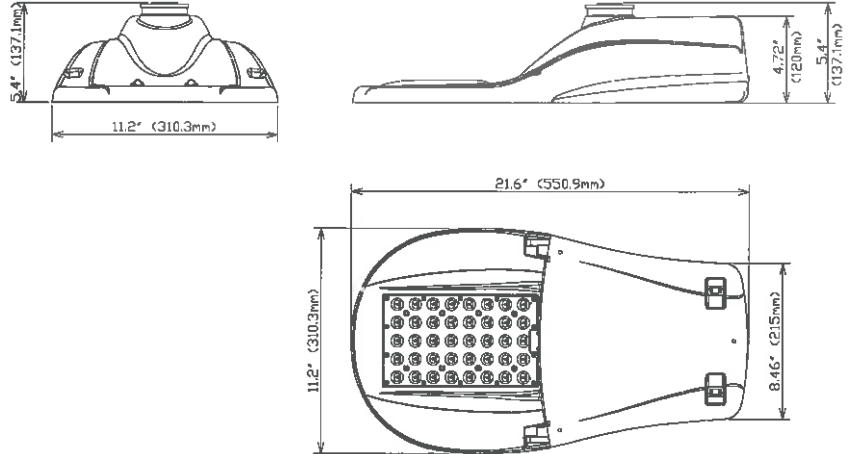
Total	\$177,160.00
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Toll Free	Fax #	Web Site	Rep	Email
847-989-5843	847-387-3950	www.lakeshorelight.com	NB	nbetzold@lakeshorelight.com

GreenCobra™ Midsize LED Street Light GCM

Luminaire Data

Weight 10 lbs [4.6 kg]
EPA 0.44 ft²



Ordering Information

Sample Catalog No. GCM1 30F MV NW 2 GY 700 PCR7 WL

Product	LED No. & Type	Voltage	Color Temperature	Distribution	Finish	Drive Current	Options
GCM1 30F@ 350 to 700mA	30F	MV 120-277V HV 347-480V	WW 3000K NW 4000K CW 5000K	2 Type 2 3 Type 3	GY Gray DB Dark Bronze BK Black	350² 350mA 530² 530mA 700 700mA 1A³ 1A	FDC⁴ Fixed Drive Current LPCR Less Photocontrol Receptacle PCR5⁵ ANSI 5-wire Photo- control Receptacle PCR7⁵ ANSI 7-wire Photo- control Receptacle PCR5-CR⁶ Control Ready 5-wire PC Receptacle PCR7-CR⁶ Control Ready 7-wire PC Receptacle WL Utility Wattage Label 4B 4-Bolt Mounting Bracket DSC Door Safety Cable RWG Rubber Wildlife Guard
GCM2 30F@ 700mA to 1A, 40F @ 700mA to 1A	40F						

Notes:

- 1 Factory set drive current, field adjustable standard. Refer to Performance Data Table. Consult factory if wattage limits require a special drive current.
- 2 350mA and 530mA drive current available with GCM1 only.
- 3 1A drive current available with GCM2 only.
- 4 Non-field adjustable, fixed drive current. Specify required drive current. Not available with PCR5-CR or PCR7-CR options.
- 5 Field adjustable current selector included. Wireless node dimming is disabled, field changeable connectors included to enable dimming with PCR5/7.
- 6 Control-ready wiring at factory for wireless node dimming. Default maximum drive current (700mA or 1A) must be specified.
- 7 Flush mounted house side shield. Shield cuts light off at 1/2 mounting height behind luminaire.
- 8 Flush mounted cul-de-sac shield. Shield cuts light off at 1/2 mounting height behind luminaire and 1-1/2 mounting height on either side of luminaire.
- 9 Specify Color (GY, DB, BK)
- 10 Specify MV (120-277V) or HV (347V-480V)

Accessories	
HSS⁷	House Side Shield, Snap-On*
CSS⁸	Cul-De-Sac Side Shield, Snap-On*
SPB⁹	Square Pole Horizontal Arm Bracket
RPB⁹	Round Pole Horizontal Arm Bracket
PTB⁹	Pole Top Tenon Horizontal Arm Bracket
WB⁹	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
PC¹⁰	Twist Lock Photocontrol
LLPC¹⁰	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

*Accessories are ordered separately and not to be included in the catalog number. For factory installed HSS, CSS specify as option in luminaire catalog number.

GreenCobra™ Midsize LED Street Light GCM

Luminaire Specifications

Housing

Die cast aluminum housing with universal two-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. One-piece aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Four-bolt mounting bracket is available. Mounting provisions meet 3G vibration per ANSI C136.31-2001 Normal Application, Bridge & Overpass. Mounting has leveling adjustment from ± 5° in 2.5° steps. Electrical components are accessed without tools via a high-strength, non-conductive polycarbonate door with quick-release latches. Polycarbonate material meets UL 746C for outdoor usage. Available rubber wildlife guard (RWG option) conforms to mast arm with no gaps.

Light Emitting Diodes

Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Optical Systems

Micro-lens optical systems produce IESNA Type 2 or Type 3 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire. Cul-de-sac shield provides back and side light control for end of cul-de-sac applications. Both shields are field installable without tools.

Electrical

Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR5-CR or PCR7-CR options). Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 2 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA.

Controls

3-Wire photocontrol receptacle is standard. ANSI C136.41 5-wire (PCR5) or 7-wire (PCR7) photocontrol receptacles are available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish

Housing receives a durable, fade-resistant polyester powder coat finish. Finish tested to withstand 3000 hours in salt spray exposure per ASTM B117. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified 120-277V product.² International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C. Assembled in the U.S.A

Photometry

Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty

10-year limited warranty is standard on luminaire and components.

Performance Data

All data preliminary.

No. of LEDs & Type	Drive Current (mA)	System Wattage (W)	Delivered Lumens (Lm)	Efficacy (Lm/W)	Type 2	Type 3
					BUG Rating	BUG Rating
GCM1 30F	350	36	3900	108	B1 U0 G1	B1 U0 G1
	530	57	6000	105	B1 U0 G1	B2 U0 G2
	700	69	7000	100	B2 U0 G2	B2 U0 G2
GCM2 30F	700	69	7000	100	B2 U0 G2	B2 U0 G2
	1000	104	9200	88	B2 U0 G2	B2 U0 G2
GCM2 40F	700	88	9000	102	B2 U0 G2	B2 U0 G2
	1000	138	12000	87	B2 U0 G2	B2 U0 G2

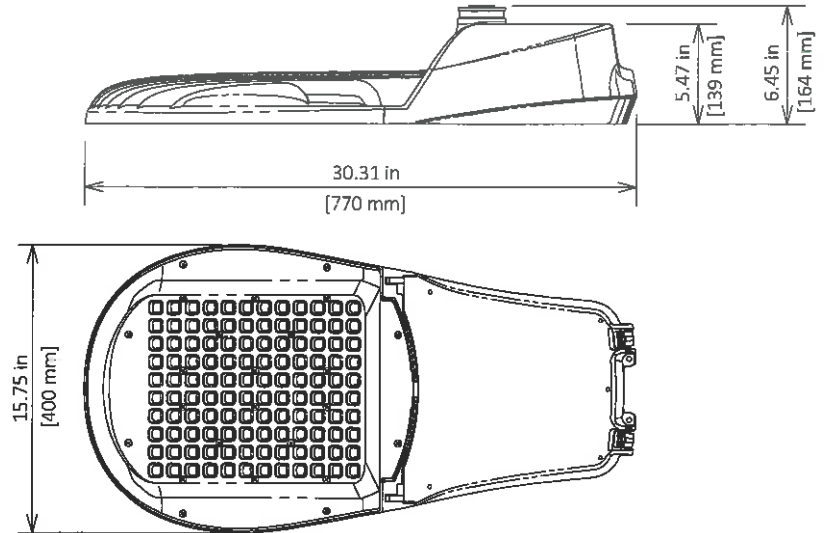
Notes:

- 1 Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.
- 2 Not all versions DLC qualified. Consult qualified product list at www.designlights.org for latest product listing.

GreenKingCobra™ LED Street Light GC2

Luminaire Data

Weight 25 lbs [11.3 kg]
EPA 1.0 ft²



Ordering Information

Sample Catalog No. GC2 80F MV NW 2 GY BSK RPB FDC350

Product	No. & Type of LEDs	Voltage*	Color Temperature	Distribution	Finish	Drive Current	Options
GC2	80F	MV 120-277V	WW 3000K	2 Type 2	GY Gray	350 350mA	HSS ⁴ House Side Shield (Factory Installed)
	90F	HV 347-480V	NW 4000K	3 Type 3	DB Dark Bronze	530 530mA	FDC ⁵ Fixed Drive Current
	100F		CW 5000K		700 700mA	LPCR Less Photocontrol Receptacle	
	120F		BK Black		1A ³ 1A	PCR5 ANSI 5-wire Photocontrol Receptacle	
							PCR7 ANSI 7-wire Photocontrol Receptacle
							PCR5-CR Control Ready 5-wire Photocontrol Receptacle
							PCR7-CR Control Ready 7-wire Photocontrol Receptacle
							SC PCR Shorting Cap
							WL Utility Wattage Label

Notes:

- 1 Factory set drive current, field adjustable standard. Refer to Performance Data Table. Consult factory if wattage limits require a special drive current.
- 2 Gray, Black and Dark Bronze standard, consult factory for other finishes.
- 3 1A drive current only available with 40F.
- 4 Flush mounted house side shield factory installed. Shield cuts light off at 1/2 mounting height behind luminaire.
- 5 Non-field adjustable, fixed drive current.
- 6 MV is DLC qualified. HV is DLC qualified on request, consult factory.
- 7 Flush mounted house side shield. Shield cuts light off at 1/2 mounting height behind luminaire. Specify Model and Color.
- 8 Specify Color (GY, DB, BK)
- 9 Specify MV (120-277V) or HV (347V-480V)

Accessories	
HSS ⁷	House Side Shield
SPB ⁸	Square Pole Horizontal Arm Bracket
RPB ⁸	Round Pole Horizontal Arm Bracket
PTB ⁸	Pole Top Tenon Horizontal Arm Bracket
WB ⁸	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
PC ⁹	Twist Lock Photocontrol
LLPC ⁹	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

*Accessories are ordered separately and not to be included in the catalog number

Luminaire Specifications

Housing

Die cast aluminum housing with universal four-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. Aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Mounting provisions meet 3G vibration per ANSI C136.31-2001 Normal Application, Bridge & Overpass. Mounting has leveling adjustment from + 10° to -5° in 2.5° steps and integral bubble level standard. Electrical components are accessed without tools and are mounted on removable power door with stainless steel latches. Standard rubber wildlife guard conforms to mast arm with no gaps.

Light Emitting Diodes

Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Optical Systems

Micro-lens optical systems produce IESNA Type 2 or Type 3 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire.

Electrical

Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR5-CR or PCR7-CR options). Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 2 to 14 gauge wire and is aligned for strait wire entry. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA.

Controls

3-Wire photocontrol receptacle is standard. ANSI C136.41 5-wire (PCR5) or 7-wire (PCR7) photocontrol receptacles are available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish

Housing receives a fade and abrasion resistant polyester powder coat finish. Finish tested to withstand 3000 hours in salt spray exposure per ASTM B117. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified 120-277V 4000K product. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C. Assembled in the U.S.A

Photometry

Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty

10-year limited warranty is standard on luminaire and components.

Performance Data

All data nominal, consult factory for IES files or LM-79 reports.

No. of LEDs & Type	Drive Current (mA)	System Wattage (W)	Delivered Lumens (lm) ¹	Efficacy (lm/W)	Type 2	Type 3
					BUG Rating	BUG Rating
80F	700	180	17700	98	B3 U0 G3	B3 U0 G3
	1000	277	24500	88	B4 U0 G4	B4 U0 G4
90F	350	95	10800	114	B2 U0 G2	B3 U0 G3
	530	150	16050	107	B3 U0 G3	B3 U0 G3
	700	195	19800	102	B3 U0 G3	B3 U0 G3
100F	350	105	11700	111	B3 U0 G3	B3 U0 G3
	530	167	17400	104	B3 U0 G3	B3 U0 G3
	700	220	22000	100	B3 U0 G3	B3 U0 G3
120F	350	130	14600	112	B3 U0 G3	B3 U0 G3
	530	200	20800	104	B3 U0 G3	B3 U0 G3
	700	260	26400	102	B4 U0 G4	B4 U0 G4

Notes:

1 Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

Project Date

Catalog # Prepared by

Luminaire Type

Comments

LEDioc® - Hardwired LED Lamp Retrofit Engineered Solution

Applications include: Street/Area, Historic Districts, City Parks & Recreation, Campuses, Glass Lens Post Tops, Plastic Lens Post Tops, Teardrop Pendants

Specification Features

Construction

The LED retrofit kit includes a separate LED light source, LED driver and transient immunity device (TID). All three components are individually replaceable. The LED retrofit kit is capable of field adjusting the light center length of the LED light source to match the photometric light center length of the original luminaire.

Mounting

LED lampholder is hardwire mounted on a clamp assembly and can be field adjustable. Medium and Mogul base designs are available.

Optics

Designed for use in the existing HID post top and pendant mount luminaire optics. House-Friendly™ versions available with reduced house side lumens.

Electrical

Constant Current Driver is 120-277V input, with 0-10V dimming capability, and the operating temperature is -30° to +60° C. The 25W lamp (28 system watts) along with the 37W lamp (41.5 system watts) driver has a 300mA output and the 57W lamp (63 system watts) driver has a 350mA output. Electrical components are mounted separately to allow for easy serviceability. Transient immunity device (TID) or surge protector supplied per system requirements.

Reliability

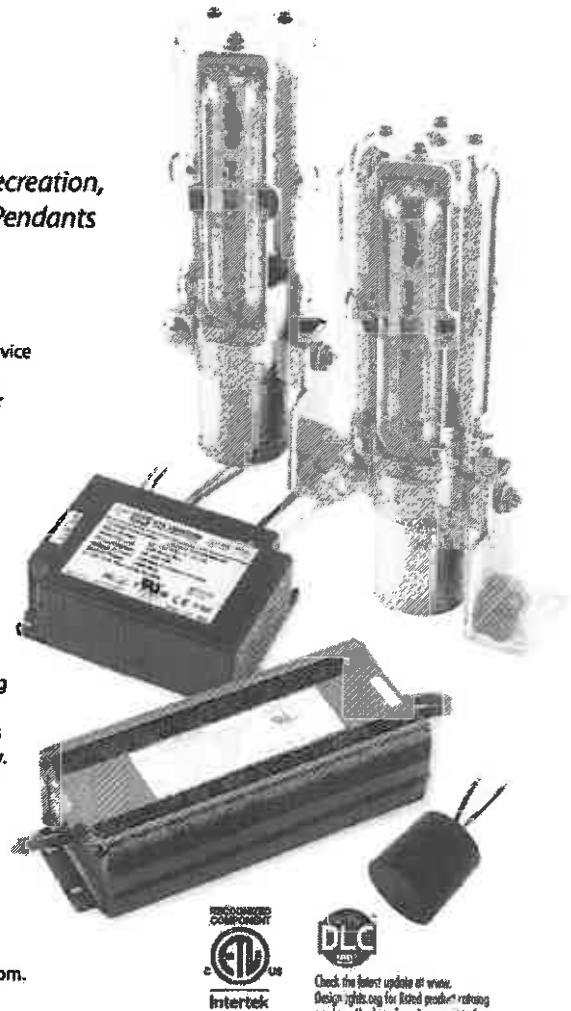
The LEDioc lamp features cast aluminum passive thermal management, which allows air circulation around each LED module to ensure optimal lighting performance and long life.

Warranty

See the EYE Lighting full Warranty and Terms and Conditions of Sale at www.eyelighting.com.

Order Guide

CATALOG NUMBER	DESCRIPTION
LEH - 25WH323 - 830 - HWD - XXXX - UNV - 1*	25W House-Friendly, 3-Sides, 2-Sides Populated, 3000K, 85 CRI, Hardwired, 120-277V, standard TID
LEH - 25WH323 - 840 - HWD - XXXX - UNV - 1*	25W House-Friendly, 3-Sides, 2-Sides Populated, 4000K, 83 CRI, Hardwired, 120-277V, standard TID
LEH - 25WH323 - 750 - HWD - XXXX - UNV - 1*	25W House-Friendly, 3-Sides, 2-Sides Populated, 5000K, 70 CRI, Hardwired, 120-277V, standard TID
LES - 37W333 - 830 - HWD - XXXX - UNV - 1*	37W, 3-Sides, 3-Sides Populated, 3000K, 85 CRI, Hardwired, 120-277V, standard TID
LES - 37W333 - 840 - HWD - XXXX - UNV - 1*	37W, 3-Sides, 3-Sides Populated, 4000K, 83 CRI, Hardwired, 120-277V, standard TID
LES - 37W333 - 750 - HWD - XXXX - UNV - 1*	37W, 3-Sides, 3-Sides Populated, 5000K, 70 CRI, Hardwired, 120-277V, standard TID
LEH - 37WH433 - 830 - HWD - XXXX - UNV - 1*	37W, House-Friendly, 4-Sides, 3-Sides Populated, 3000K, 85 CRI, Hardwired, 120-277V, standard TID
LEH - 37WH433 - 840 - HWD - XXXX - UNV - 1*	37W, House-Friendly, 4-Sides, 3-Sides Populated, 4000K, 83 CRI, Hardwired, 120-277V, standard TID
LEH - 37WH433 - 750 - HWD - XXXX - UNV - 1*	37W, House-Friendly, 4-Sides, 3-Sides Populated, 5000K, 70 CRI, Hardwired, 120-277V, standard TID
LES - 57W443 - 830 - HWD - XXXX - UNV - 1*	57W, 4-Sides, 4-Sides Populated, 3000K, 84 CRI, Hardwired, 120-277V, standard TID
LES - 57W443 - 840 - HWD - XXXX - UNV - 1*	57W, 4-Sides, 4-Sides Populated, 4000K, 85 CRI, Hardwired, 120-277V, standard TID
LES - 57W443 - 750 - HWD - XXXX - UNV - 1*	57W, 4-Sides, 4-Sides Populated, 5000K, 70 CRI, Hardwired, 120-277V, standard TID



Check the latest update at www.designlights.org for listed product ratings members. Hardwired versions are also listed. Contact company for solution avoidance.

* PLEASE NOTE

- Luminaire description "XXXX" to be completed by factory.

- Surge protector "1" indicates a standard 3-wire unit rated 10kA without indicator light. Options are "2" (a 2-wire unit rated 10kA with indicator light) or "3" (a 3-wire unit rated 10kA with indicator light).

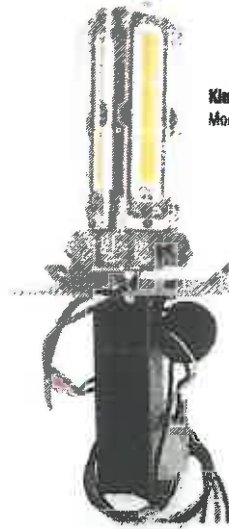
LEDioc® - Hardwired LED Lamp Retrofit Engineered Solution

The complete LEDioc component kit includes: the exclusive patent pending EYE LEDioc lamp, driver, TID and mounting bracket for the specific luminaire. Installation is easy, thermal/mechanical compatibility is assured and lamp LCL is maintained, preserving the optics and photometric performance of the existing luminaire. Each solution includes luminaire-specific installation instructions for the installer. Other solutions available, contact the factory or visit eyelighting.com for other solutions.

GE Town and Country
Model# T35C Series



King Luminaire
Model # K118 series

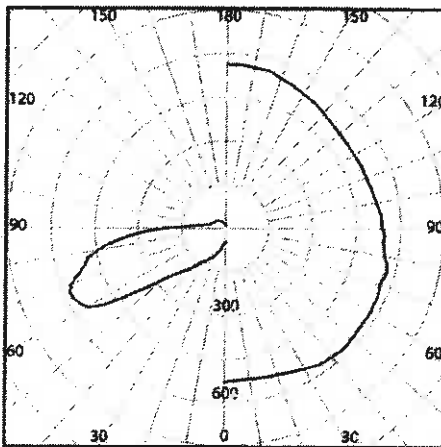


Hadco
Model # 952 series

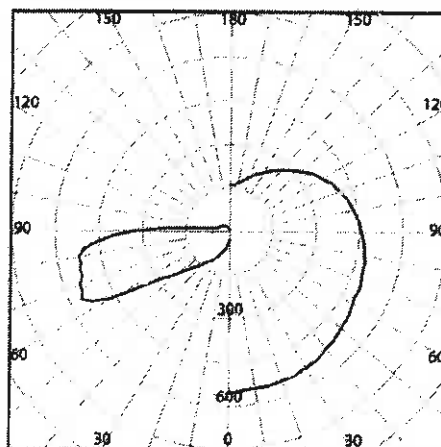


Hardwire Photometrics

37W STANDARD



25W HOUSE-FRIENDLY™



* Photometric distribution is based on Lexalite Lindy 424 per DLC specifications in a Type V distribution.

NOTES:

- 1) Applications are subject to project performance evaluation and may be subject to thermal validation prior to installation.
- 2) Actual design will vary based on specific luminaire mounting requirements.
- 3) Lexalite Lindy 424, GE Town and Country, King Luminaire, and Hadco are trademarks owned by their respective company.

EYE Lighting International of North America, Inc.
a division of Iwasaki Electric of Japan

9150 Hendricks Road
Mentor, Ohio 44060

Tel: (888) 665-2677
Fax: (440) 350-7001

www.eyelighting.com



kíaroLED[®] Post Top Luminaires



SMOOTH FITTER

DECORATIVE FITTER
(for NEMA photocell option)

Applications include

Urban streets, parks, residential areas, walkways, corporate and college campuses.

Specification Features

Construction

The main body is constructed from die cast aluminum featuring an easily removable stainless steel top that provides LED and driver accessibility for maintenance. The kíaroLED optics consist of an F1 rated, UV stabilized acrylic lens for maximum performance and durability. Easy and quick connects and disconnects from the modular LED board and driver, and stainless steel hardware are standard factory installed features. The kíaroLED Post Top offers a twist lock photocell mounted inside the optional decorative fitter providing full functionality without loss of architectural appeal.

Mounting

The standard smooth fitter provides a smooth transition from a 4.5" O.D. pole to the luminaire. A 4" to 5" long 3" or 3 1/2" O.D. tenon is required and is held in place with six 3/16"-16 set screws. The optional decorative fitter provides mounting to 2 3/8", 2 1/2", 3" and 4" O.D. pole and is held in place with three 3/16"-16 set screws. Connection to the terminal block is located conveniently in the base allowing direct access during installation. Terminal block connections accept 2 gauge to 14 gauge wire.

Optics

The luminaire provides IES Type II, III, IV, and V distribution patterns. Optical distribution patterns, lumen levels, and color temperatures are interchangeable and easily replaceable. Exclusive kíaroLED optical assembly contains captured stainless steel screws and quick disconnects for ease of field replacement and maintenance.

Electrical

The standard LED driver features 0-10VDC dimming and allows input from 120-277V, 50/60Hz, and an integral step down transformer is used for 347/480V installations. The driver operates at greater than 0.9 Power Factor and lower than 20% Total Harmonic Distortion. A replaceable built-in surge protector is rated to withstand 10kV/10kA of transient line surge. The kíaroLED Post Top is rated for 60,000 hours of operation and is suitable in -35°C to 40°C ambient conditions.

Finish

EYE Lighting utilizes a multi-stage cleaning, pretreatment and chemical conversion coating process. A durable polyester powdercoat is then electrostatically applied to a 2 to 3 mil thickness. This process ensures protection from impact, UV and salt spray damage.

Warranty

5 Year Limited LED Luminaire Warranty to the original purchaser that the luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the fixture, LED driver and LEDs when installed and operated according to manufacturer's instructions. See EYE Lighting's full Warranty and Terms & Conditions of Sale at www.eyelighting.com.

Listings and Ratings

UL Listed in the U.S.A. and Canada to U.L. 1598 wet location standards. IP65 rated upper housing. Tested to IESNA LM-79-08 test standards at 25°C ambient. IES files are available at www.eyelighting.com.



Project: _____

Type: _____

Catalog #: _____

Prepared by: _____

Date: _____

Notes: _____

Order Guide

SAMPLE NUMBER : PS-L440-57-UY-N-VE1

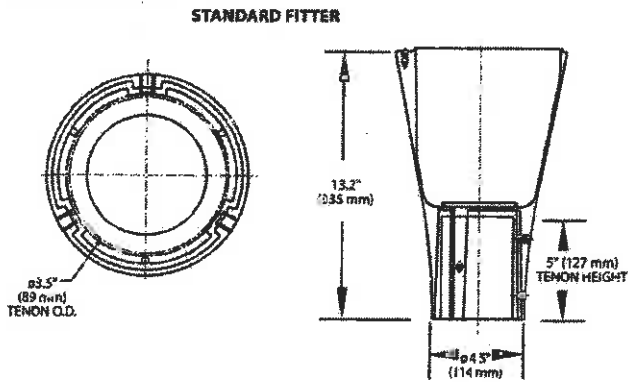
FAMILY	LUMENS	CCT	TYPE	CRI	VOLTAGE	LENS	FINISH	PHOTOCELL	WIRING
PS = Smooth Fitter	L4 ¹ = ~4,000	40 = 4000K	2 = II 3 = III	7 = 70	U = 120-277V W = 347/480V	Y = Acrylic	G = Gray H = Charcoal K = Black N = Dark Bronze S = Silver W = White Q ⁴ = Custom	R ⁵ = Internal NEMA Photocell Receptacle V = No Photocell	E1 = Terminal block, #2 AWG to #14 AWG E2 = Terminal block with #14 AWG wire leads
PD = Decorative Fitter	L7 = ~7,000 L10 ² = ~10,000	50 = 5000K	4 = IV 5 = V						

1 Reference photometric data sheet for lumen levels based on color temperature and distribution type
 2 3% maximum ambient temperature
 3 347/480V steps down to 200-277V
 4 Consult factory when ordering custom finishes
 5 Requires optional decorative fitter, additional charge will apply

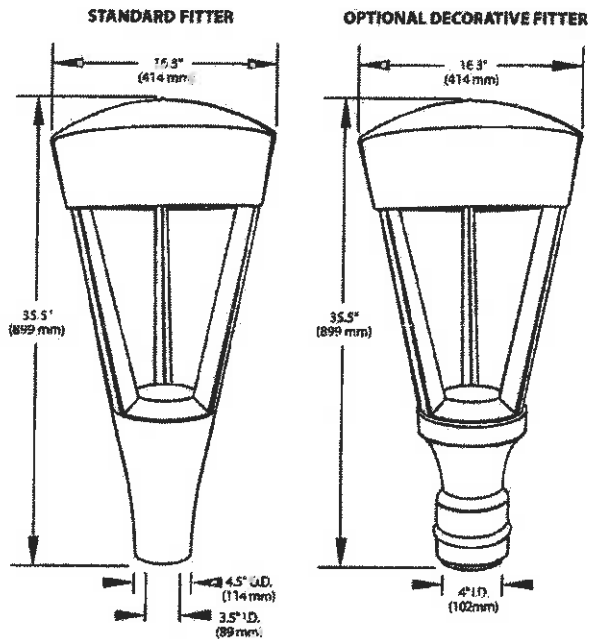
www.eyelighting.com

Dimensions

Standard smooth fitter



Weight 33 lbs.
EPA 2.14 ft²



Performance Data

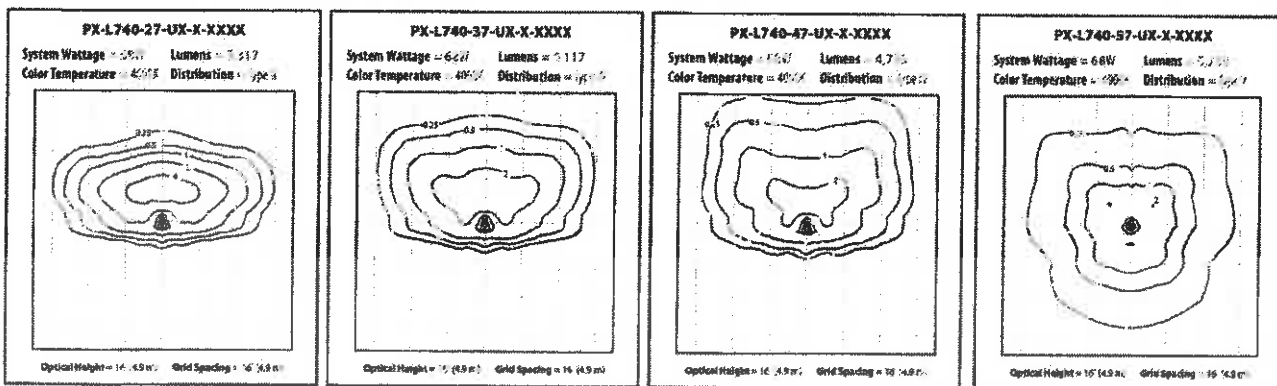
Wattage Summary

LED Model	LED Qty.	Drive Current	Luminaire Wattage	Average Lumens	Lumen Maintenance (L70 At)	
					25°C	40°C
L4	10	1050 mA	34	2,900	129,000 hrs.	129,000 hrs.
L7	10	2100 mA	68	5,200	129,000 hrs.	156,000 hrs.
L10	10	3150 mA	97	8,250	129,000 hrs.	163,000 hrs.

Ambient Data

Ambient Temperature	Lumen Multiplier
15°C	1.02
25°C	1.00
35°C	0.99
40°C	0.98

Photometric Data



- Results may vary from test due to power, ambient conditions and individual component performance variations
- Data is provided to estimate typical performance
- Engineering estimates and data based on ISO 9001 absolute lumens
- Lumen output may vary 10% due to LED manufacturer flux specification

- Predicted performance calculated from LED manufacturer data and engineering estimates based on test methodologies of IESNA LM-80, LM-79, and LM-Z1
- L70 Hours is the predicted time when LED performance degrades to 70% of initial beam output
- EYE Lighting reserves the right to change materials or modify the design of its product without notification

- Consult factory for lead time and availability
- Other modes of failure may occur after the 60,000 hour period
- Reference photometric data sheet for lumen levels based on color temperature and distribution type
- Patents Pending

EYE Lighting International of North America, Inc.
a division of Iwasaki Electric of Japan

9150 Hendricks Road
Mentor, Ohio 44060

Tel: (888) 665-2677
Fax: (440) 350-7001

www.eyelighting.com

EQSN 1278-0073 (12/11)



Monday, March 21, 2015

City of Darien
Daniel Gombac
Director of Municipal Services
1702 Plainfield Road
Darien, Illinois 60561

Dear Daniel Gombac & City of Darien

Lakeshore Lighting, LLC is extending this letter to you to confirm Lakeshore Lighting, LLC's direct buying relationship with Leotek Electronics USA LLC as requested for purposes regarding the 2016 Darien LED Streetlight Program.

Lakeshore Lighting, LLC is a direct distributor that submits purchase orders directly to Leotek Electronics USA LLC. The Pricing recently quoted to The City of Darien by Lakeshore Lighting is substantially lower than pricing obtained in the original bid, as Lakeshore Lighting secured lower utility pricing in order to make this project financially feasible.

If you would like further supplemental documentation, please let me know what you need from us in order to satisfy your requirements. Below, is a signature from Archibald & Meek, manufacturer's rep for Leotek Electronics LLC USA, acknowledging the validity of this document.

Sincerely,

Nicholas W. Betzold
Principal / Lakeshore Lighting, LLC

X Nicholas W. Betzold 3/21/16

Ray Doerrler
Sales Manager / Archibald & Meek (AMI)

X Ray Doerrler 3/21/16

Lakeshore Lighting, LLC
1204 E. Central Road
Arlington Heights, IL 60005

Phone: (847)-989-5843
Fax: (847)-387-3950
Email: nbetzold@lakeshorelight.com
Web: www.lakeshorelight.com

WARRANTY STATEMENT
General Illumination Products
AR, EC, GC, LWS, LSF, LCN, CL Series

Leotek AR, EC, GC, and LCN3-T Series Products are covered by a ten-year limited warranty, from the date of delivery. Leotek LWS, LSF, LCN1, LCN2, LCN3-K and CL Series Products are covered by a five-year limited warranty, from the date of delivery. Leotek warrants these products to be free of defects in workmanship and/or material. This warranty includes all electrical and mechanical components including finish and gaskets. Failure of over 10% of the LEDs in the luminaire during the warranty period will constitute a luminaire "failure" (except CL Series: 1 LED failure will constitute a unit failure).

Leotek Electronics USA Corp. will repair or replace any units found to be defective or that fail within this period. Leotek's liability under this warranty is limited to repair or replacement of the unit with a comparable product utilizing the current technology at the time of replacement.

Leotek will not be liable for defects due to improper handling, misuse, negligence, accidents, acts of God or nature, exposure to casualty of elements, or unauthorized alteration/repair. In all such cases, the warranty is immediately null and void. This warranty does not cover photocells or any control or monitoring devices.

This warranty is exclusive of all other warranties, expressed or implied, and Leotek hereby specifically disclaims all other warranty claims of any type; including without limitation, a warranty of merchantability of any unit or its fitness for any particular use or purpose. The customer's remedy under this warranty is exclusive. In no event shall Leotek be liable for interruption of business loss, profits or indirect or consequential damages, injury to person or damage to property from any cause whatsoever.

Please contact your local Sales Representative prior to directly contacting Leotek. Leotek Technical assistance is available from our Technical Support Department during the hours of 8:00 AM to 5:00 PM Pacific Standard Time (PST), Monday through Friday, excluding major U.S. holidays. Please provide the model number of the product.

Return Material Authorization

Prior to returning any product for repair or replacement, Leotek requires that a Return Material Authorization (RMA) be issued. The RMA can only be issued by Leotek. When requesting an RMA, the following information must be provided to Leotek; product Model and Serial Numbers, Date of Manufacture, and a detailed description of the reason for return. A Leotek representative will document the issue at hand and make the appropriate arrangement for the return of the unit/product.

When returning the product, the customer must adhere to the following procedure(s):

- Prior to returning, contact customer support at (408) 380-1788 to obtain an RMA number (Return Material Authorization).
- Clearly mark shipment container with RMA number.
- Include a return address and contact information with the shipment.
- RMA's are shipped via customer paid postage to:
 - Leotek Electronics USA Corp. - 1955 Lundy Ave., San Jose, CA 95131

Verification of purchase may be required. Leotek will not be held responsible for any damage to the product that occurs during shipment. Failure to exercise the above RMA policy and procedures will void all warranty responsibilities on behalf of Leotek Electronics USA Corp.

Dan Gombac

From: Patrick A. Durkin <ragselectric@aol.com>
Sent: Monday, February 15, 2016 4:16 PM
To: Dan Gombac
Subject: Re: 2016 LED Retrofit Program Proposed Negotiation

Dan,

We are comfortable with the \$40.00 removal and \$40.00 installation of LEDs. Sorry for the delay in this response.

Pat Durkin

Rag's Electric

630-739-RAGS (7247) = Office

773-619-7640 = Cell

-----Original Message-----

From: Dan Gombac <dgombac@darienil.gov>

To: Rags Electric <ragselectric@aol.com>

Cc: Bryon Vana <bvana@darienil.gov>; Kathy Weaver (Kathy_Weaver@AJG.com) <Kathy_Weaver@AJG.com>; nbetzold <nbetzold@lakeshorelight.com>

Sent: Wed, Feb 3, 2016 10:19 am

Subject: 2016 LED Retrofit Program Proposed Negotiation

Good morning Pat:

We are currently reviewing the LED Street Light Program portion of the recent Street Light contract. While you are the awarded vendor for the program, the City has been unable to secure a grant to offset the costs. We have recently had the opportunity to reduce fixture costs through the manufacture on two items. Upon review of the costs, the City is requesting a review of your installation and removal costs as proposed within the highlighted section. Pending your review and response, Staff would like to request the City Council for consideration to complete all 627 fixtures over the next year. The manufacture would be passing on the fixture costs to you for our project.

Sincerely,

Daniel Gombac

Director of Municipal Services

630-353-8106

To receive important information from the City of Darien sign up for our electronic newsletter:

DARIEN DIRECT CONNECT

Follow the link below and subscribing is simple!

<http://www.darien.il.us/Departments/Administration/CityNews.html>

RESOLUTION NO. R-41-16

A RESOLUTION AUTHORIZING THE MAYOR AND CITY CLERK TO ACCEPT A PROPOSAL FROM LAKE SHORE LIGHTING, FOR THE PURCHASE OF LED STREET LIGHT HEADS AT A COST NOT TO EXCEED \$187,160.00 AS THEY RELATE TO THE CITY'S LED STREETLIGHT RETROFIT PROJECT

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council of the City of Darien hereby authorizes the Mayor and City Clerk to accept a proposal from Lake Shore Lighting for the purchase of LED Street Light Heads at a cost not to exceed \$187,160.00, as they relate to the City's LED Streetlight Retrofit Project, a copy of which is attached hereto as "**Exhibit A**", and is, by this reference, expressly incorporated herein.

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 4th day of April, 2016.

AYES: 6 - Beilke, Belczak, Kenny, Marchese, McIvor, Schauer

NAYS: 0 - NONE

ABSENT: 1 - Chlystek

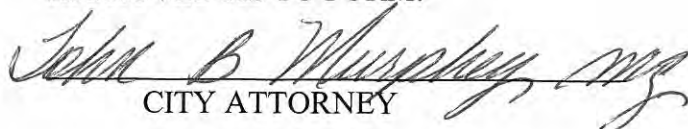
APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 4th day of April, 2016.


KATHLEEN MOESLE WEAVER, MAYOR

ATTEST:


JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM:


CITY ATTORNEY



PROPOSED PROGRAM WITH RENEGOTIATED PRICING									
2015 PRICING-BID TALLY MARCH 12, 2015									
	ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8	
Company Name	Eye Lighting LES-37W-333-840-HWD	Eye Lighting LES-57W-443-840-HWD	Eye Lighting PD-L4-40-5-7-U-Y-G-R-E1	Leotek Hss GCM 40	Leotek GCM2-40F-MV-NW-2-GY-1A	Leotek GC2-80F-MV-NW-3-GY-1A	Installation Costs	Cost to remove existing light head fixture	Total
Rag's Electric	\$ 444.00	\$ 504.00	\$ 794.00	\$ 18.00	\$ 312.00	\$ 571.00	\$ 49.50	\$ 49.50	\$ 2,742.00
Revised Pricing	\$ 393.00	\$ 438.00	\$ 724.00	\$ 18.00	\$ 256.00	\$ 449.00	\$ 40.00	\$ 40.00	\$ 2,358.00
Meade Electric	\$ 450.75	\$ 511.32	\$ 800.80	\$ 18.37	\$ 315.73	\$ 578.20	\$ 63.00	\$ 47.00	\$ 2,785.17
Lyons Electric	\$ 465.00	\$ 528.00	\$ 830.00	\$ -	\$ 335.00	\$ 597.00	\$ 140.00	\$ 20.00	\$ 2,915.00

QUANTITY BREAKDOWN-BID TALLY MARCH 12, 2015 UNIT PRICING									
QUANTITY	ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8	
	Eye Lighting LES-37W-333-840-HWD	Eye Lighting LES-57W-333-840-HWD	Eye Lighting P-L4-45-5-7-U-Y-N-R-E1	Leotek Hss GCM 40	Leotek GCM2-40F-MV-NW-2-GY-1A	Leotek GC2-80F-MV-NW-3-GY-1A	Installation Costs	Cost to remove existing light head fixture	Total
198					\$ 61,776.00				\$ 61,776.00
224					\$ 61,776.00				\$ 61,776.00
45						\$ 25,695.00			\$ 25,695.00
12						\$ 6,852.00			\$ 6,852.00
17	\$ 7,548.00								\$ 7,548.00
61		\$ 30,744.00							\$ 30,744.00
14			\$ 11,116.00						\$ 11,116.00
571							\$ 28,264.50	\$ 28,264.50	\$ 56,529.00
BID TALLY COST									\$ 262,036.00

REVISED PROGRAM SUMMARY-WITH RE-NEGOTIATED PRICING									
QUANTITY	ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8	
	Eye Lighting LES-37W-333-840-HWD	Eye Lighting LES-57W-333-840-HWD	Eye Lighting P-L4-45-5-7-U-Y-N-R-E1	Leotek Hss GCM 40	Leotek GCM2-40F-MV-NW-2-GY-1A	Leotek GC2-80F-MV-NW-3-GY-1A	Installation Costs	Cost to remove existing light head fixture	Total
198					\$ 50,688.00				\$ 50,688.00
224					\$ 57,344.00				\$ 57,344.00
45						\$ 20,205.00			\$ 20,205.00
12						\$ 5,388.00			\$ 5,388.00
17	\$ 6,681.00								\$ 6,681.00
61		\$ 26,718.00	\$ -						\$ 26,718.00
14			\$ 10,136.00						\$ 10,136.00
571	\$ 6,681.00	\$ 26,718.00	\$ 10,136.00	\$ -	\$ 108,032.00	\$ 25,593.00			\$ 177,160.00
MATERIAL COSTS									\$ 177,160.00
CONTINGENCY-MATERIAL									\$ 10,000.00
TOTAL MATERIAL COSTS									\$ 187,160.00
571							\$ 22,840.00	\$ 22,840.00	\$ 45,680.00
CONTINGENCY-LABOR									\$ 10,000.00
TOTAL LABOR COSTS									\$ 55,680.00
TOTAL PROJECT COST									\$ 242,840.00

ROI	Energy Savings	Maintenance	Total
Annual Cost Savings	\$ 15,000.00	\$ 12,000.00	\$ 27,000.00
Project Cost Material and Labor	\$ 222,840.00		
Contingency	\$ 20,000.00		
Total Cost	\$ 242,840.00		
Illinois Clean Energy Grant	\$ 25,000.00		
Adjusted Project Cost	\$ 197,840.00		
No of years to recoup costs	7.33		

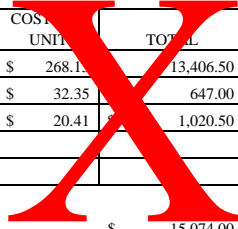


MEMO

**CITY OF DARIEN PUBLIC WORKS
1702 PLAINFIELD ROAD
DARIEN, IL 60561**

REQUEST FOR QUOTE: 2023 Street Light Fixtures
OPENING DATE/TIME: October 3, 2023 @ 10:00 a.m.

			Green Way LLC DBA Star LED		Bell Electrical Supply Co., Inc.		Connexion		Facility Solutions Group		Cooper Lighting /The Lighting Digest		City Electric Supply	
ITEM	DESCRIPTION	UNITS	COST PER UNIT	TOTAL	COST PER UNIT	TOTAL	COST PER UNIT	TOTAL	COST PER UNIT	TOTAL	COST PER UNIT	TOTAL	COST PER UNIT	TOTAL
#65775	AREAFLD4A/S100NVD830/T4/GR	50	\$ 370.00	\$ 18,500.00	\$ 268.13	\$ 13,406.50	\$ 359.00	\$ 17,950.00	\$ 369.38	\$ 18,469.00	\$ 358.00	\$ 17,900.00	\$ 382.24	\$ 19,112.00
#63164	AREAFLD4A/SMALLGLARESHIELD	20	\$ 33.90	\$ 678.00	\$ 32.35	\$ 647.00	\$ 46.00	\$ 920.00	\$ 47.32	\$ 946.40	\$ 370.00	\$ 7,400.00	\$ 50.06	\$ 1,001.20
#61393	AREAFLDXA/NEMAPHOTOCELL/UNV	50	\$ 25.75	\$ 1,287.50	\$ 20.41	\$ 1,020.50	\$ 21.00	\$ 1,050.00	\$ 21.03	\$ 1,051.50	\$ 380.00	\$ 19,000.00	\$ 22.25	\$ 1,112.50
Total			\$ 20,465.50		\$ 15,074.00		\$ 19,920.00		\$ 20,466.90		\$ 44,300.00		\$ 21,225.70	



NON-RESPONSIVE

item #'s bid to match color request
65837
65836
61393

item #'s bid are from Cooper Lighting fixtures
USSL-PAZA-730-U-T4W-SA-AP-10K-PR7-10X
USSL-PAZA-730-U-T4W-SA-AP-10K-PR7-10X-HSS-HP
USSL-PAZA-730-U-T4W-SA-AP-10K-PR7-10X-LLPC



RESOLUTION NO. _____

A RESOLUTION ACCEPTING A PROPOSAL FROM CONNEXION TO PURCHASE STREET LIGHT FIXTURES AND SHIELD AT THE SUBMITTED UNIT PRICE THROUGH APRIL 30, 2024

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council of the City of Darien hereby accepts a proposal from Connexion to purchase street light fixtures and shield at the submitted unit price through April 30, 2024. a copy of which is attached hereto as "[Exhibit A](#)".

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November, 2023.

AYES: _____

NAYS: _____

ABSENT: _____

APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November, 2023.

JOSEPH MARCHESE, MAYOR

ATTEST:

JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM:

CITY ATTORNEY



**City of Darien
Street Light Fixtures**

Vendor Name : CONNEXION

The City of Darien is requesting quotes for the following: fixtures as per the attached specs.
 The City will be purchasing fixtures as required with an initial quantity of 20.
 Pending field outages the City may be purchasing up to 100 on an annual basis.
 Annual contract - October 2023 - April 2024 w/two extensions

	Units	Cost per Unit	Total Unit Cost
Item # 65775 AREAFLD4A/S100UNVD830/T4/GR NEW 65837	50	\$ <u>359.00EA</u>	\$ <u>17,950.00</u>
Item # 63164 AREAFLD4A/SMALLGLARESHIELD NEW 65836	20	\$ <u>46.00EA</u>	\$ 2300.00 S/B \$920.00
Item # 61393 AREAFLDXA/NEMAPHOTOCELL/UNV NEW 61393	50	\$ <u>21.00</u>	\$ <u>1050.00</u>
		Total Cost	\$ 21300.00 CORRECTED TOTAL \$19,920.00

DUE BY: October 3, 2023 - 10:00 a.m.

City of Darien 1702 Plainfield Road Darien, IL 60561

Office: 630-852-5000 Fax: 630-852-4709 www.darienil.us

CITY OF DARIEN

This form must be completed & faxed to 630-852-4709 or emailed to rkokkinis@darienil.gov by no later than October 3, 2023 @ 10:00 a.m. attn: Municipal Services
Questions may be directed to Municipal Services at 630-353-8105

Submitted by: Scott Rice

Vendor Name: Connexion

Address: 1700 lieder lane Buffalo Grove il 60089

Date: 9-29-2023

Phone: 847-499-8300

Cell: 630-330-3946

Fax: 847-499-8301

E-mail Address: scott.rice@cxconnect.com

Authorized Signature: scott rice

The vendor shall provide three references with phone numbers below:

1. Robert Brankin (connor construction) 773-209-9482
2. Troy Rivera (round lake school district) 224-944-4028
3. Jena Sarvis (Carey electric) 224-412-2686

Acceptance of Quote:

By: _____ Date: _____
City of Darien

Authorized and Accepted:

By: _____

Title: _____

Date: _____

LEDVANCE Luminaires

AREA FLOOD

SUPERIOR CLASS

Application

The LEDVANCE Superior Class Area Flood luminaires boast a 10 year warranty and are TAA compliant. An optional sensor can be installed to allow for daylight harvesting and provides additional energy savings. Each luminaire ships with a universal mounting bracket allowing easy installation to round and square poles or slipfitters.



Benefits and Features

- Integrated 7 pin photocontrol receptacle compatible with Standard NEMA photocell or 5 pin and 7 pin controllers. Shorting cap included.
- DLC 5.1 Premium listed to maximize rebate opportunities and to provide even, uniform lighting
- IP65 rated body offered in a modern and sleek design
- 3G Vibration rated
- Optional photosensor provides additional energy savings
- Up to 160 LPW
- 3000K, 4000K or 5000K color temperature
- CRI >80
- Offered in 3 wattage selectable versions:
 - 50, 70, 100; 120, 150, 190; or 240, 270, 290 watts
 - Up to 15,900; up to 30,300; up to 43,800 lumens respectively
- Type II, III, IV, V or Front Row distribution
- Energy savings up to 77%

Electrical

- 120-277V_{AC} (UNV) or 277-480V_{AC} (HUV)
- Power Factor >0.9
- THD <20%
- Continuous 0-10V dimmable down to 10% of power
- 0-10V ANSI C137.1 (9V)
- Surge protection: 10kV

Rated Life

- 150,000 hours (L₇₀) – 100W and 190W
- 130,000 hours (L₇₀) – 290W

Warranty

- 10-year warranty (if operated up to 114°F/45°C) or 7-year warranty (if operated up to 122°F/50°C)
- NLB Trusted Warranty Program

Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
70W HPS	91	50	45%
100W HPS	120	50	58%
100W MH	130	50	62%
100W HPS	120	70	42%
100W MH	130	70	46%
150W HPS	170	70	59%
150W MH	188	70	63%
175W MH	210	100	52%
175W MH	210	100	52%
250W MH	290	100	66%
250W HPS	295	100	66%
250W MH	290	120	59%
250W HPS	295	120	59%
320W MH	370	150	59%
400W HPS	460	150	67%
400W MH	450	150	67%
750W MH	820	190	77%
750W HPS	840	190	77%
400W HPS	460	240	48%
400W MH	450	240	47%
750W MH	820	270	67%
750W HPS	840	270	68%
1000W MH	1080	290	73%
1000W HPS	1100	290	74%

Operating Temperature

- -40°F to +122°F (-40°C to +50°C)

Certifications and Listings

- cULus listed to UL1598 standards, wet location
- RoHS
- FCC
- IP65
- DLC 5.1 Premium
- TAA
- Dark Sky Compliant*
- Luna Qualified

*DLC LUNA and Dark Sky Compliant for 3000K products with fixed mounting bracket only



Catalog #	Type
Project	
Comments	
Prepared by	

Installation

- Universal mounting bracket for round/square pole and slipfitter mounting
- Fixed mounting bracket with 0° tilt for round/square pole mounting – required for Dark Sky Compliance

Additional Specifications


- Specifications subject to change without notice. IES files available online.
- Cast aluminum alloy housing with powder coat paint finish and UV stabilized polycarbonate lens. The standard colors are bronze and white.

Ordering Guide


AREAFLD	4A	/	SXXX	XXV	D	8	XX	XX	/	XX	/	XXX
Product Name	Generation		Selectable Wattage	Voltage	Dimming	CRI	Color Temp	Distribution		Color / Finish		Options
AREAFLD = Area Floodlight Luminaire	4A = Generation 4A		S100 = 50, 70 or 100W S190 = 120, 150 or 190W S290 = 240, 270 or 290W	UNV = 120-277V HUV = 277-480V	D = 0-10V Dimming	8 = >80	30 = 3000K 40 = 4000K 50 = 5000K	T2 = Type II T3 = Type III T4 = Type IV T5 = Type V FR = Front Row		BZ = Bronze BL = Black* GR = Gray* WH = White*		BLE = Bluetooth Zhaga Sensor D = Daylight/Motion Sensor**

*MTO finishes – Other MTO finishes available upon request; contact Sales Rep.
**Daylight/Motion Sensor MTO only

Ordering Information


Item Number	Ordering Abbreviation	Power (W)	Input Voltage (V)	Dimming	CRI	Color Temp	Distribution	Total Fixture Lumens (lm)	DLC	LPW	Options	 MTO*	BUG Rating
62844	AREAFD4A/S100UNVD830/FR/BZ	50/70/100	120-277V	0-10V	>80	3000K	Front Row	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65773	AREAFD4A/S100UNVD830/T2/BZ	50/70/100	120-277V	0-10V	>80	3000K	Type II	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65774	AREAFD4A/S100UNVD830/T3/BZ	50/70/100	120-277V	0-10V	>80	3000K	Type III	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65775	AREAFD4A/S100UNVD830/T4/BZ	50/70/100	120-277V	0-10V	>80	3000K	Type IV	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65776	AREAFD4A/S100UNVD830/T5/BZ	50/70/100	120-277V	0-10V	>80	3000K	Type V	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
62845	AREAFD4A/S100UNVD840/FR/BZ	50/70/100	120-277V	0-10V	>80	4000K	Front Row	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65777	AREAFD4A/S100UNVD840/T2/BZ	50/70/100	120-277V	0-10V	>80	4000K	Type II	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65778	AREAFD4A/S100UNVD840/T3/BZ	50/70/100	120-277V	0-10V	>80	4000K	Type III	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65779	AREAFD4A/S100UNVD840/T4/BZ	50/70/100	120-277V	0-10V	>80	4000K	Type IV	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65780	AREAFD4A/S100UNVD840/T5/BZ	50/70/100	120-277V	0-10V	>80	4000K	Type V	7750/10,850/14,700	5.1 Prm	155	–	–	B4U0G2
62846	AREAFD4A/S100UNVD850/FR/BZ	50/70/100	120-277V	0-10V	>80	5000K	Front Row	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65781	AREAFD4A/S100UNVD850/T2/BZ	50/70/100	120-277V	0-10V	>80	5000K	Type II	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65782	AREAFD4A/S100UNVD850/T3/BZ	50/70/100	120-277V	0-10V	>80	5000K	Type III	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65783	AREAFD4A/S100UNVD850/T4/BZ	50/70/100	120-277V	0-10V	>80	5000K	Type IV	7750/10,850/14,700	5.1 Prm	155	–	MTO	B4U0G2
65784	AREAFD4A/S100UNVD850/T5/BZ	50/70/100	120-277V	0-10V	>80	5000K	Type V	7750/10,850/14,700	5.1 Prm	155	–	–	B4U0G2
63141	AREAFD4A/S190UNVD830/FR/BZ	120/150/190	120-277V	0-10V	>80	3000K	Front Row	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65749	AREAFD4A/S190UNVD830/T2/BZ	120/150/190	120-277V	0-10V	>80	3000K	Type II	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65750	AREAFD4A/S190UNVD830/T3/BZ	120/150/190	120-277V	0-10V	>80	3000K	Type III	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65751	AREAFD4A/S190UNVD830/T4/BZ	120/150/190	120-277V	0-10V	>80	3000K	Type IV	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65752	AREAFD4A/S190UNVD830/T5/BZ	120/150/190	120-277V	0-10V	>80	3000K	Type V	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
63142	AREAFD4A/S190UNVD840/FR/BZ	120/150/190	120-277V	0-10V	>80	4000K	Front Row	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65753	AREAFD4A/S190UNVD840/T2/BZ	120/150/190	120-277V	0-10V	>80	4000K	Type II	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65754	AREAFD4A/S190UNVD840/T3/BZ	120/150/190	120-277V	0-10V	>80	4000K	Type III	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65755	AREAFD4A/S190UNVD840/T4/BZ	120/150/190	120-277V	0-10V	>80	4000K	Type IV	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65756	AREAFD4A/S190UNVD840/T5/BZ	120/150/190	120-277V	0-10V	>80	4000K	Type V	18,000/22,500/28,500	5.1 Prm	150	–	–	B4U0G2
63143	AREAFD4A/S190UNVD850/FR/BZ	120/150/190	120-277V	0-10V	>80	5000K	Front Row	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65757	AREAFD4A/S190UNVD850/T2/BZ	120/150/190	120-277V	0-10V	>80	5000K	Type II	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65758	AREAFD4A/S190UNVD850/T3/BZ	120/150/190	120-277V	0-10V	>80	5000K	Type III	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65759	AREAFD4A/S190UNVD850/T4/BZ	120/150/190	120-277V	0-10V	>80	5000K	Type IV	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
65760	AREAFD4A/S190UNVD850/T5/BZ	120/150/190	120-277V	0-10V	>80	5000K	Type V	18,000/22,500/28,500	5.1 Prm	150	–	–	B4U0G2
65761	AREAFD4A/S290UNVD830/T2/BZ	240/270/290	120-277V	0-10V	>80	3000K	Type II	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65762	AREAFD4A/S290UNVD830/T3/BZ	240/270/290	120-277V	0-10V	>80	3000K	Type III	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65763	AREAFD4A/S290UNVD830/T4/BZ	240/270/290	120-277V	0-10V	>80	3000K	Type IV	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65764	AREAFD4A/S290UNVD830/T5/BZ	240/270/290	120-277V	0-10V	>80	3000K	Type V	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65765	AREAFD4A/S290UNVD840/T2/BZ	240/270/290	120-277V	0-10V	>80	4000K	Type II	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65766	AREAFD4A/S290UNVD840/T3/BZ	240/270/290	120-277V	0-10V	>80	4000K	Type III	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65767	AREAFD4A/S290UNVD840/T4/BZ	240/270/290	120-277V	0-10V	>80	4000K	Type IV	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65768	AREAFD4A/S290UNVD840/T5/BZ	240/270/290	120-277V	0-10V	>80	4000K	Type V	37,200/41,850/43,000	5.1 Prm	155	–	–	B5U0G3
65769	AREAFD4A/S290UNVD850/T2/BZ	240/270/290	120-277V	0-10V	>80	5000K	Type II	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65770	AREAFD4A/S290UNVD850/T3/BZ	240/270/290	120-277V	0-10V	>80	5000K	Type III	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65771	AREAFD4A/S290UNVD850/T4/BZ	240/270/290	120-277V	0-10V	>80	5000K	Type IV	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
65772	AREAFD4A/S290UNVD850/T5/BZ	240/270/290	120-277V	0-10V	>80	5000K	Type V	37,200/41,850/43,000	5.1 Prm	155	–	–	B5U0G3

*Made To Order

Item Number	Ordering Abbreviation	Power (W)	Input Voltage (V)			Color Temp	Distribution	Total Fixture Lumens (lm)	DLC	LPW	Options	 MTO*	BUG Rating
			Dimming	CRI									
63004	AREAFLD4A/S100UNVD830FR/BZ/BLE	50/70/100	120-277V	0-10V	>80	3000K	Front Row	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62964	AREAFLD4A/S100UNVD830T2/BZ/BLE	50/70/100	120-277V	0-10V	>80	3000K	Type II	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62965	AREAFLD4A/S100UNVD830T3/BZ/BLE	50/70/100	120-277V	0-10V	>80	3000K	Type III	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62966	AREAFLD4A/S100UNVD830T4/BZ/BLE	50/70/100	120-277V	0-10V	>80	3000K	Type IV	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62967	AREAFLD4A/S100UNVD830T5/BZ/BLE	50/70/100	120-277V	0-10V	>80	3000K	Type V	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
63005	AREAFLD4A/S100UNVD840FR/BZ/BLE	50/70/100	120-277V	0-10V	>80	4000K	Front Row	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62968	AREAFLD4A/S100UNVD840T2/BZ/BLE	50/70/100	120-277V	0-10V	>80	4000K	Type II	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62969	AREAFLD4A/S100UNVD840T3/BZ/BLE	50/70/100	120-277V	0-10V	>80	4000K	Type III	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62970	AREAFLD4A/S100UNVD840T4/BZ/BLE	50/70/100	120-277V	0-10V	>80	4000K	Type IV	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62971	AREAFLD4A/S100UNVD840T5/BZ/BLE	50/70/100	120-277V	0-10V	>80	4000K	Type V	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
63006	AREAFLD4A/S100UNVD850FR/BZ/BLE	50/70/100	120-277V	0-10V	>80	5000K	Front Row	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62972	AREAFLD4A/S100UNVD850T2/BZ/BLE	50/70/100	120-277V	0-10V	>80	5000K	Type II	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62973	AREAFLD4A/S100UNVD850T3/BZ/BLE	50/70/100	120-277V	0-10V	>80	5000K	Type III	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62974	AREAFLD4A/S100UNVD850T4/BZ/BLE	50/70/100	120-277V	0-10V	>80	5000K	Type IV	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62975	AREAFLD4A/S100UNVD850T5/BZ/BLE	50/70/100	120-277V	0-10V	>80	5000K	Type V	7750/10,850/14,700	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2
62976	AREAFLD4A/S190UNVD830T2/BZ/BLE	120/150/190	120-277V	0-10V	>80	3000K	Type II	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62977	AREAFLD4A/S190UNVD830T3/BZ/BLE	120/150/190	120-277V	0-10V	>80	3000K	Type III	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62978	AREAFLD4A/S190UNVD830T4/BZ/BLE	120/150/190	120-277V	0-10V	>80	3000K	Type IV	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62979	AREAFLD4A/S190UNVD830T5/BZ/BLE	120/150/190	120-277V	0-10V	>80	3000K	Type V	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62980	AREAFLD4A/S190UNVD840T2/BZ/BLE	120/150/190	120-277V	0-10V	>80	4000K	Type II	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62981	AREAFLD4A/S190UNVD840T3/BZ/BLE	120/150/190	120-277V	0-10V	>80	4000K	Type III	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62982	AREAFLD4A/S190UNVD840T4/BZ/BLE	120/150/190	120-277V	0-10V	>80	4000K	Type IV	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62983	AREAFLD4A/S190UNVD840T5/BZ/BLE	120/150/190	120-277V	0-10V	>80	4000K	Type V	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62984	AREAFLD4A/S190UNVD850T2/BZ/BLE	120/150/190	120-277V	0-10V	>80	5000K	Type II	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62985	AREAFLD4A/S190UNVD850T3/BZ/BLE	120/150/190	120-277V	0-10V	>80	5000K	Type III	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62986	AREAFLD4A/S190UNVD850T4/BZ/BLE	120/150/190	120-277V	0-10V	>80	5000K	Type IV	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62987	AREAFLD4A/S190UNVD850T5/BZ/BLE	120/150/190	120-277V	0-10V	>80	5000K	Type V	18,000/22,500/28,500	5.1 Prm	150	Bluetooth Zhaga Sensor	MTO	B4U0G2
62988	AREAFLD4A/S290UNVD830T2/BZ/BLE	240/270/290	120-277V	0-10V	>80	3000K	Type II	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62989	AREAFLD4A/S290UNVD830T3/BZ/BLE	240/270/290	120-277V	0-10V	>80	3000K	Type III	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62990	AREAFLD4A/S290UNVD830T4/BZ/BLE	240/270/290	120-277V	0-10V	>80	3000K	Type IV	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62991	AREAFLD4A/S290UNVD830T5/BZ/BLE	240/270/290	120-277V	0-10V	>80	3000K	Type V	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62992	AREAFLD4A/S290UNVD840T2/BZ/BLE	240/270/290	120-277V	0-10V	>80	4000K	Type II	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62993	AREAFLD4A/S290UNVD840T3/BZ/BLE	240/270/290	120-277V	0-10V	>80	4000K	Type III	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62994	AREAFLD4A/S290UNVD840T4/BZ/BLE	240/270/290	120-277V	0-10V	>80	4000K	Type IV	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62995	AREAFLD4A/S290UNVD840T5/BZ/BLE	240/270/290	120-277V	0-10V	>80	4000K	Type V	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62996	AREAFLD4A/S290UNVD850T2/BZ/BLE	240/270/290	120-277V	0-10V	>80	5000K	Type II	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
62997	AREAFLD4A/S290UNVD850T3/BZ/BLE	240/270/290	120-277V	0-10V	>80	5000K	Type III	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3

Item Number	Ordering Abbreviation	Power (W)	Input Voltage (V)	Input			Color Temp	Distribution	Total Fixture Lumens			Options	MTO*	BUG Rating
				Dimming	CRI				DLI	LPW	(lm)			
62998	AREAFLD4A/S290UNVD850T4/BZ/BLE	240/270/290	120-277V	0-10V	>80	5000K	Type IV	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3	
62999	AREAFLD4A/S290UNVD850T5/BZ/BLE	240/270/290	120-277V	0-10V	>80	5000K	Type V	37,200/41,850/43,000	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3	
63235	AREAFLD4A/S100HUVDB830/FR/BZ	50/70/100	277-480V	0-10V	>80	3000K	Front Row	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63238	AREAFLD4A/S100HUVDB830/T2/BZ	50/70/100	277-480V	0-10V	>80	3000K	Type II	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63239	AREAFLD4A/S100HUVDB830/T3/BZ	50/70/100	277-480V	0-10V	>80	3000K	Type III	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63232	AREAFLD4A/S100HUVDB830/T4/BZ	50/70/100	277-480V	0-10V	>80	3000K	Type IV	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63240	AREAFLD4A/S100HUVDB830/T5/BZ	50/70/100	277-480V	0-10V	>80	3000K	Type V	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63236	AREAFLD4A/S100HUVDB840/FR/BZ	50/70/100	277-480V	0-10V	>80	4000K	Front Row	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63241	AREAFLD4A/S100HUVDB840/T2/BZ	50/70/100	277-480V	0-10V	>80	4000K	Type II	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63242	AREAFLD4A/S100HUVDB840/T3/BZ	50/70/100	277-480V	0-10V	>80	4000K	Type III	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63233	AREAFLD4A/S100HUVDB840/T4/BZ	50/70/100	277-480V	0-10V	>80	4000K	Type IV	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63243	AREAFLD4A/S100HUVDB840/T5/BZ	50/70/100	277-480V	0-10V	>80	4000K	Type V	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63237	AREAFLD4A/S100HUVDB850/FR/BZ	50/70/100	277-480V	0-10V	>80	5000K	Front Row	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63244	AREAFLD4A/S100HUVDB850/T2/BZ	50/70/100	277-480V	0-10V	>80	5000K	Type II	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63245	AREAFLD4A/S100HUVDB850/T3/BZ	50/70/100	277-480V	0-10V	>80	5000K	Type III	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63234	AREAFLD4A/S100HUVDB850/T4/BZ	50/70/100	277-480V	0-10V	>80	5000K	Type IV	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63246	AREAFLD4A/S100HUVDB850/T5/BZ	50/70/100	277-480V	0-10V	>80	5000K	Type V	7750/10,850/15,900	5.1 Prm	155	--	MTO	B4U0G2	
63283	AREAFLD4A/S100HUVDB830FR/BZ/BLE	50/70/100	277-480V	0-10V	>80	3000K	Front Row	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63271	AREAFLD4A/S100HUVDB830T2/BZ/BLE	50/70/100	277-480V	0-10V	>80	3000K	Type II	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63272	AREAFLD4A/S100HUVDB830T3/BZ/BLE	50/70/100	277-480V	0-10V	>80	3000K	Type III	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63273	AREAFLD4A/S100HUVDB830T4/BZ/BLE	50/70/100	277-480V	0-10V	>80	3000K	Type IV	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63274	AREAFLD4A/S100HUVDB830T5/BZ/BLE	50/70/100	277-480V	0-10V	>80	3000K	Type V	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63284	AREAFLD4A/S100HUVDB840FR/BZ/BLE	50/70/100	277-480V	0-10V	>80	4000K	Front Row	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63275	AREAFLD4A/S100HUVDB840T2/BZ/BLE	50/70/100	277-480V	0-10V	>80	4000K	Type II	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63276	AREAFLD4A/S100HUVDB840T3/BZ/BLE	50/70/100	277-480V	0-10V	>80	4000K	Type III	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63277	AREAFLD4A/S100HUVDB840T4/BZ/BLE	50/70/100	277-480V	0-10V	>80	4000K	Type IV	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63278	AREAFLD4A/S100HUVDB840T5/BZ/BLE	50/70/100	277-480V	0-10V	>80	4000K	Type V	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63285	AREAFLD4A/S100HUVDB850FR/BZ/BLE	50/70/100	277-480V	0-10V	>80	5000K	Front Row	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63279	AREAFLD4A/S100HUVDB850T2/BZ/BLE	50/70/100	277-480V	0-10V	>80	5000K	Type II	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63280	AREAFLD4A/S100HUVDB850T3/BZ/BLE	50/70/100	277-480V	0-10V	>80	5000K	Type III	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63281	AREAFLD4A/S100HUVDB850T4/BZ/BLE	50/70/100	277-480V	0-10V	>80	5000K	Type IV	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63282	AREAFLD4A/S100HUVDB850T5/BZ/BLE	50/70/100	277-480V	0-10V	>80	5000K	Type V	7750/10,850/15,900	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B4U0G2	
62935	AREAFLD4A/S190HUVDB830/T2/BZ	120/150/190	277-480V	0-10V	>80	3000K	Type II	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62936	AREAFLD4A/S190HUVDB830/T3/BZ	120/150/190	277-480V	0-10V	>80	3000K	Type III	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62937	AREAFLD4A/S190HUVDB830/T4/BZ	120/150/190	277-480V	0-10V	>80	3000K	Type IV	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62938	AREAFLD4A/S190HUVDB830/T5/BZ	120/150/190	277-480V	0-10V	>80	3000K	Type V	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62939	AREAFLD4A/S190HUVDB840/T2/BZ	120/150/190	277-480V	0-10V	>80	4000K	Type II	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62940	AREAFLD4A/S190HUVDB840/T3/BZ	120/150/190	277-480V	0-10V	>80	4000K	Type III	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62941	AREAFLD4A/S190HUVDB840/T4/BZ	120/150/190	277-480V	0-10V	>80	4000K	Type IV	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62942	AREAFLD4A/S190HUVDB840/T5/BZ	120/150/190	277-480V	0-10V	>80	4000K	Type V	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62943	AREAFLD4A/S190HUVDB850/T2/BZ	120/150/190	277-480V	0-10V	>80	5000K	Type II	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62944	AREAFLD4A/S190HUVDB850/T3/BZ	120/150/190	277-480V	0-10V	>80	5000K	Type III	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62945	AREAFLD4A/S190HUVDB850/T4/BZ	120/150/190	277-480V	0-10V	>80	5000K	Type IV	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
62946	AREAFLD4A/S190HUVDB850/T5/BZ	120/150/190	277-480V	0-10V	>80	5000K	Type V	19,200/24,000/30,300	5.1 Prm	160	--	MTO	B4U0G2	
63007	AREAFLD4A/S190HUVDB830T2/BZ/BLE	120/150/190	277-480V	0-10V	>80	3000K	Type II	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63008	AREAFLD4A/S190HUVDB830T3/BZ/BLE	120/150/190	277-480V	0-10V	>80	3000K	Type III	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63009	AREAFLD4A/S190HUVDB830T4/BZ/BLE	120/150/190	277-480V	0-10V	>80	3000K	Type IV	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63010	AREAFLD4A/S190HUVDB830T5/BZ/BLE	120/150/190	277-480V	0-10V	>80	3000K	Type V	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63011	AREAFLD4A/S190HUVDB840T2/BZ/BLE	120/150/190	277-480V	0-10V	>80	4000K	Type II	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63012	AREAFLD4A/S190HUVDB840T3/BZ/BLE	120/150/190	277-480V	0-10V	>80	4000K	Type III	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2	
63013	AREAFLD4A/S190HUVDB840T4/BZ/BLE	120/150/190	277-480V	0-10V	>80	4000K	Type IV	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2	

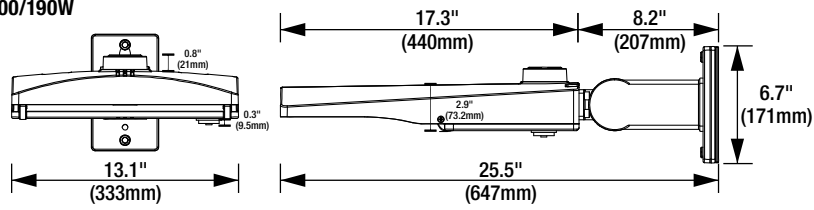
*Made To Order

Item Number	Ordering Abbreviation	Power (W)	Input Voltage (V)	Dimming	CRI	Color Temp	Distribution	Total Fixture Lumens (lm)	DLC	LPW	Options	 MTO*	BUG Rating
63014	AREAFLD4A/S190HUV850T5/BZ/BLE	120/150/190	277-480V	0-10V	>80	4000K	Type V	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2
63015	AREAFLD4A/S190HUV850T2/BZ/BLE	120/150/190	277-480V	0-10V	>80	5000K	Type II	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2
63016	AREAFLD4A/S190HUV850T3/BZ/BLE	120/150/190	277-480V	0-10V	>80	5000K	Type III	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2
63017	AREAFLD4A/S190HUV850T4/BZ/BLE	120/150/190	277-480V	0-10V	>80	5000K	Type IV	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2
63018	AREAFLD4A/S190HUV850T5/BZ/BLE	120/150/190	277-480V	0-10V	>80	5000K	Type V	19,200/24,000/30,300	5.1 Prm	160	Bluetooth Zhaga Sensor	MTO	B4U0G2
62947	AREAFLD4A/S290HUV830/T2/BZ	240/270/290	277-480V	0-10V	>80	3000K	Type II	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62948	AREAFLD4A/S290HUV830/T3/BZ	240/270/290	277-480V	0-10V	>80	3000K	Type III	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62949	AREAFLD4A/S290HUV830/T4/BZ	240/270/290	277-480V	0-10V	>80	3000K	Type IV	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62950	AREAFLD4A/S290HUV830/T5/BZ	240/270/290	277-480V	0-10V	>80	3000K	Type V	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62951	AREAFLD4A/S290HUV840/T2/BZ	240/270/290	277-480V	0-10V	>80	4000K	Type II	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62952	AREAFLD4A/S290HUV840/T3/BZ	240/270/290	277-480V	0-10V	>80	4000K	Type III	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62953	AREAFLD4A/S290HUV840/T4/BZ	240/270/290	277-480V	0-10V	>80	4000K	Type IV	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62954	AREAFLD4A/S290HUV840/T5/BZ	240/270/290	277-480V	0-10V	>80	4000K	Type V	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62955	AREAFLD4A/S290HUV850/T2/BZ	240/270/290	277-480V	0-10V	>80	5000K	Type II	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62956	AREAFLD4A/S290HUV850/T3/BZ	240/270/290	277-480V	0-10V	>80	5000K	Type III	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62957	AREAFLD4A/S290HUV850/T4/BZ	240/270/290	277-480V	0-10V	>80	5000K	Type IV	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
62958	AREAFLD4A/S290HUV850/T5/BZ	240/270/290	277-480V	0-10V	>80	5000K	Type V	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
63019	AREAFLD4A/S290HUV830T2/BZ/BLE	240/270/290	277-480V	0-10V	>80	3000K	Type II	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63020	AREAFLD4A/S290HUV830T3/BZ/BLE	240/270/290	277-480V	0-10V	>80	3000K	Type III	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63021	AREAFLD4A/S290HUV830T4/BZ/BLE	240/270/290	277-480V	0-10V	>80	3000K	Type IV	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63022	AREAFLD4A/S290HUV830T5/BZ/BLE	240/270/290	277-480V	0-10V	>80	3000K	Type V	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63023	AREAFLD4A/S290HUV840T2/BZ/BLE	240/270/290	277-480V	0-10V	>80	4000K	Type II	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63024	AREAFLD4A/S290HUV840T3/BZ/BLE	240/270/290	277-480V	0-10V	>80	4000K	Type III	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63025	AREAFLD4A/S290HUV840T4/BZ/BLE	240/270/290	277-480V	0-10V	>80	4000K	Type IV	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63026	AREAFLD4A/S290HUV840T5/BZ/BLE	240/270/290	277-480V	0-10V	>80	4000K	Type V	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63027	AREAFLD4A/S290HUV850T2/BZ/BLE	240/270/290	277-480V	0-10V	>80	5000K	Type II	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63028	AREAFLD4A/S290HUV850T3/BZ/BLE	240/270/290	277-480V	0-10V	>80	5000K	Type III	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63029	AREAFLD4A/S290HUV850T4/BZ/BLE	240/270/290	277-480V	0-10V	>80	5000K	Type IV	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63030	AREAFLD4A/S290HUV850T5/BZ/BLE	240/270/290	277-480V	0-10V	>80	5000K	Type V	37,200/41,850/43,800	5.1 Prm	155	Bluetooth Zhaga Sensor	MTO	B5U0G3
63605	AREAFLD4A/S190HUV850/T2/WH	120/150/190	277-480V	0-10V	>80	5000K	Type II	19,200/24,000/30,300	5.1 Prm	160	–	MTO	B4U0G2
63606	AREAFLD4A/S190HUV850/T3/WH	120/150/190	277-480V	0-10V	>80	5000K	Type III	19,200/24,000/30,300	5.1 Prm	160	–	MTO	B4U0G2
63607	AREAFLD4A/S190HUV850/T4/WH	120/150/190	277-480V	0-10V	>80	5000K	Type IV	19,200/24,000/30,300	5.1 Prm	160	–	MTO	B4U0G2
63608	AREAFLD4A/S190HUV850/T5/WH	120/150/190	277-480V	0-10V	>80	5000K	Type V	19,200/24,000/30,300	5.1 Prm	160	–	MTO	B4U0G2
63609	AREAFLD4A/S290HUV850/T2/WH	240/270/290	277-480V	0-10V	>80	5000K	Type II	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
63610	AREAFLD4A/S290HUV850/T3/WH	240/270/290	277-480V	0-10V	>80	5000K	Type III	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
63611	AREAFLD4A/S290HUV850/T4/WH	240/270/290	277-480V	0-10V	>80	5000K	Type IV	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
63612	AREAFLD4A/S290HUV850/T5/WH	240/270/290	277-480V	0-10V	>80	5000K	Type V	37,200/41,850/43,800	5.1 Prm	155	–	MTO	B5U0G3
63613	AREAFLD4A/S190UNVD850/FR/WH	120/150/190	120-277V	0-10V	>80	5000K	Front Row	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
63614	AREAFLD4A/S190UNVD850/T2/WH	120/150/190	120-277V	0-10V	>80	5000K	Type II	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
63615	AREAFLD4A/S190UNVD850/T3/WH	120/150/190	120-277V	0-10V	>80	5000K	Type III	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
63616	AREAFLD4A/S190UNVD850/T4/WH	120/150/190	120-277V	0-10V	>80	5000K	Type IV	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
63617	AREAFLD4A/S190UNVD850/T5/WH	120/150/190	120-277V	0-10V	>80	5000K	Type V	18,000/22,500/28,500	5.1 Prm	150	–	MTO	B4U0G2
63618	AREAFLD4A/S290UNVD850/T2/WH	240/270/290	120-277V	0-10V	>80	5000K	Type II	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
63619	AREAFLD4A/S290UNVD850/T3/WH	240/270/290	120-277V	0-10V	>80	5000K	Type III	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
63620	AREAFLD4A/S290UNVD850/T4/WH	240/270/290	120-277V	0-10V	>80	5000K	Type IV	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3
63621	AREAFLD4A/S290UNVD850/T5/WH	240/270/290	120-277V	0-10V	>80	5000K	Type V	37,200/41,850/43,000	5.1 Prm	155	–	MTO	B5U0G3

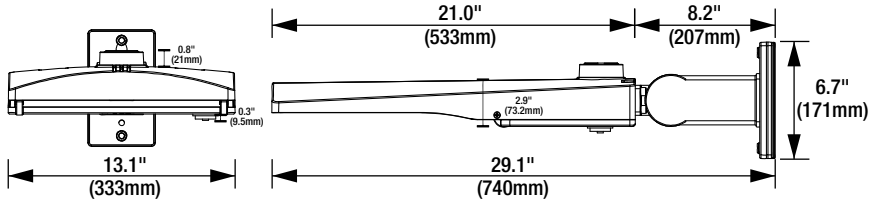
*Made To Order

Physical Information

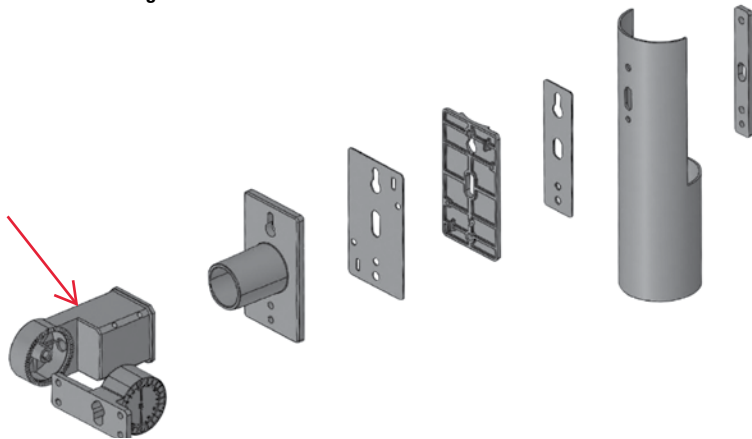
100/190W



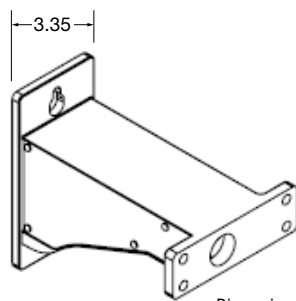
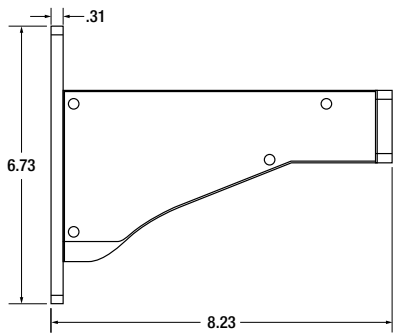
290W



Universal Mounting Bracket

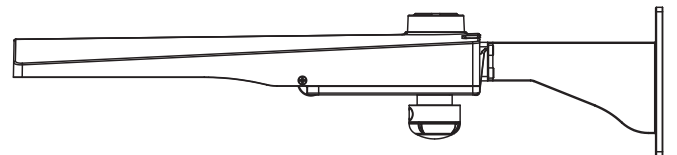


Fixed Mounting Bracket



Dimensions in inches

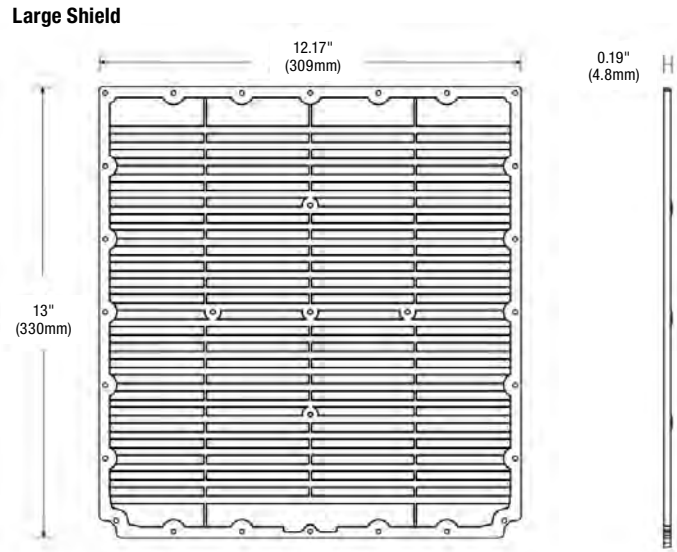
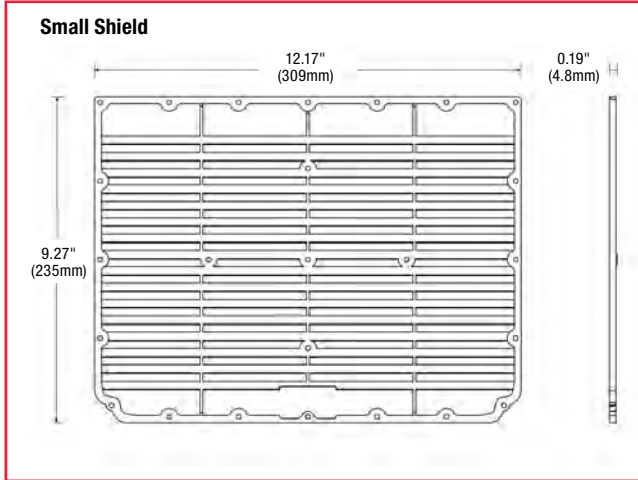
0° Angle



The Universal Mounting Bracket is included with all units and the Fixed Mounting Bracket is included with all 3000K units.

Accessories

Item Number	Ordering Abbreviation	Description
61393	AREAFLDXA/NEMAPHOTOCELL/UNV	NEMA locking photocell, 120-277V, 3-pin
61395	AREAFLDXA/NEMAPHOTOCELL/480	NEMA locking photocell, 480V, 3-pin
63031	SENSOR1A/ODPIRZ10BLE/WH	Bluetooth Sensor, White Finish
63032	SENSOR1A/ODPIRZ10BLE/BZ	Bluetooth Sensor, Bronze Finish
63033	CONTROL1A/OD12VZ10BLE/WH	Bluetooth Controller, White Finish
63164	AREAFLD4A/SMALLSHIELD	Small Shield
63165	AREAFLD4A/LARGESHIELD	Large Shield
63166	AREAFLD4A/BIRDSPIKE	Bird Spike



Poles

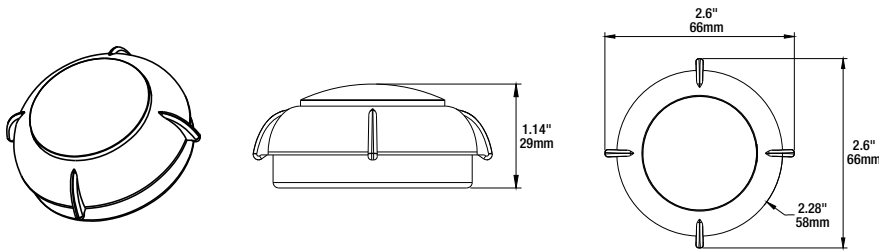
Click or scan QR tag for Poles information.

Benefits and Features

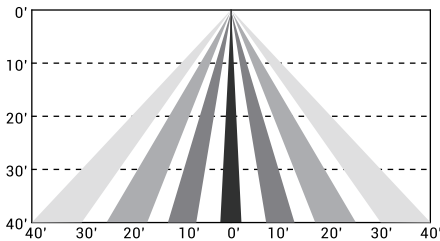
- The LEDVANCE LINK Bluetooth® Mesh Low Voltage components use Bluetooth technology for easy and secure wireless communication
- Enables regular LEDVANCE luminaires to become Bluetooth enabled and allows for luminaires to be turned on/off and dimmed (manual or auto)
- Components can be used up to 40ft height
- Control using either the LEDVANCE LINK smart phone app or the wireless wall switch

Sensor Information

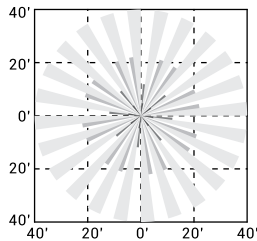
Input voltage: 12Vdc
Bluetooth transmit line distance: 100ft
Detection range: 48-80ft
Rated current: 55mA
Dimming: 0-10V
Infrared sensor: Omni-directional quad element pyroelectric
Mounting height: 15-40ft
Detectable speed: 1~10 ft/sec (0.3~3 m/sec)
Operating temperature: -40°F~131°F (-40°C~55°C)
Operating humidity: IP66
Protocol: Bluetooth Mesh BLE Proprietary



Zhaga Bluetooth Sensor Side View



Zhaga Bluetooth Sensor Coverage Top View



Click or scan QR code for more information on LEDVANCE LINK



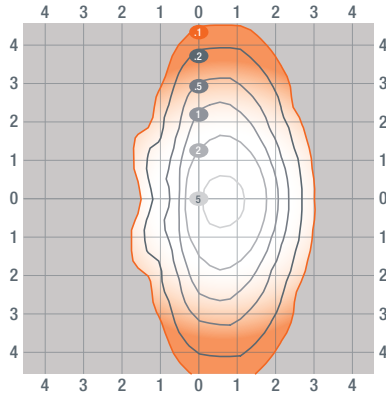
COMMISSIONING
GUIDE



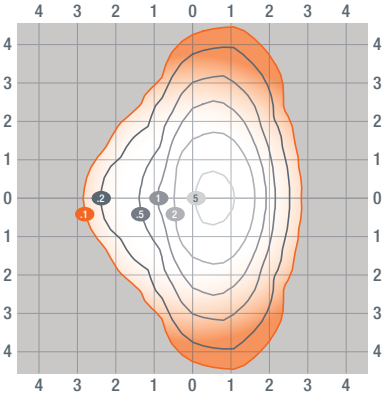
Photometric Information

100W

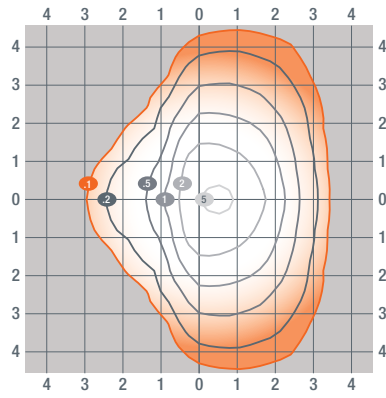
AREAFLD4AS100UNVD840FR-25FT



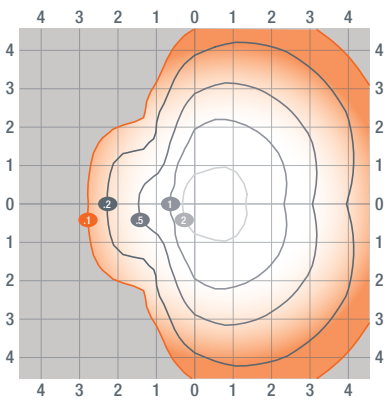
AREAFLD4AS100UNVD840T2-25FT



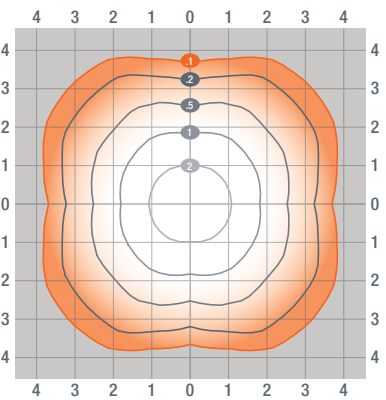
AREAFLD4AS100UNVD840T3-25FT



AREAFLD4AS100UNVD840T4-25FT

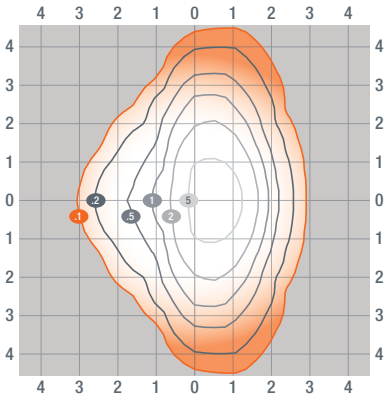


AREAFLD4AS100UNVD840T5-25FT

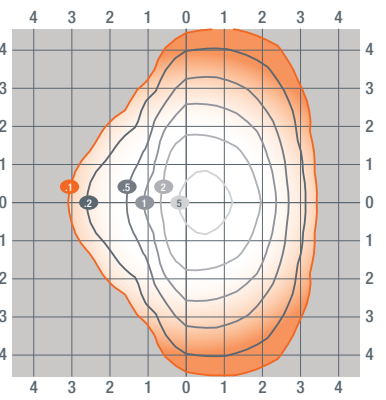


190W

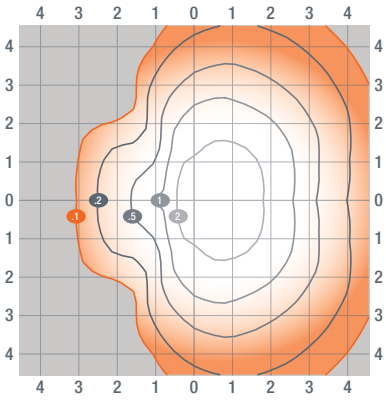
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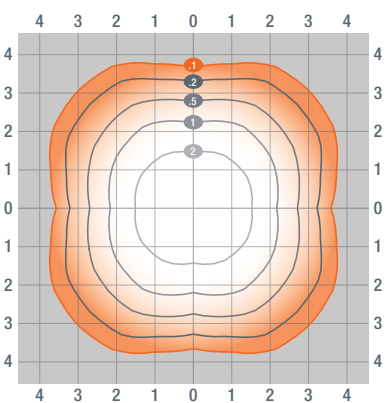
AREAFLD4AS190UNVD840T3-30FT



AREAFLD4AS190UNVD840T4-30FT



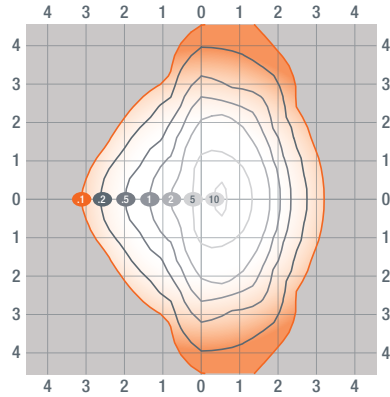
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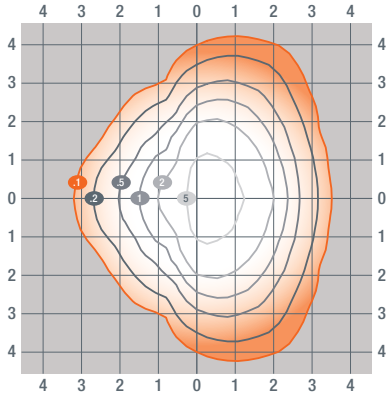
Photometric Information (continued)

290W

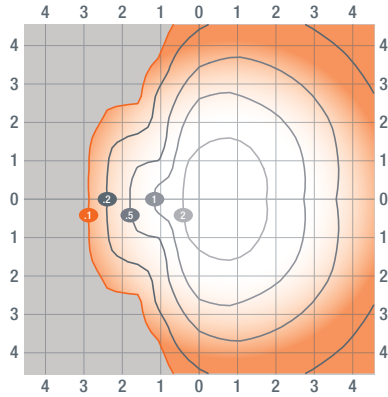
AREAFLD4AS290UNVD840T2-35FT



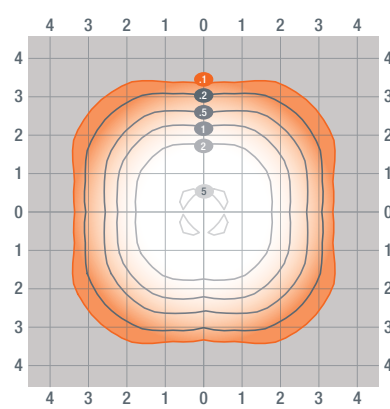
AREAFLD4AS290UNVD840T3-35FT



AREAFLD4AS290UNVD840T4-35FT



AREAFLDS290UNVD840T5-35FT



LEDVANCE LLC
 181 Ballardvale Street, Suite 203
 Wilmington, MA 01887 USA
 Phone 1-800-LIGHTBULB (1-800-544-4828)
 www.ledvanceUS.com

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AGENDA MEMO
Municipal Services Committee
October 23, 2023

ISSUE STATEMENT

Approval of a [resolution](#) accepting a proposal from Connexion to purchase street light poles at the submitted unit price through April 30, 2024.

BACKGROUND/HISTORY

Throughout the year the City Budget allows for residents to petition for street lights adjacent to their home. The City typically receives 3-5 requests per year for a new street light. In addition, street lights are replaced due to vehicular accidents.

Since Covid, lead times for many goods and services continues to be backlogged. An example of such is an aluminum light pole which has taken anywhere from 6 to 9 months to receive and install. To reduce the lead times to accommodate requests or knock-downs Staff is recommending to purchase an initial inventory of 5 light poles to hold in inventory. The cost for the initial 5 poles will be \$9,490, (\$1,898 x 5). The City will continue to replace poles as to keep 5 in inventory at all times. The new poles meet the current City standard of a 25 foot aluminum street light pole with an 8 foot mast arm.

Staff requested quotes for street light poles and received three (3) quotes. The lowest quote was submitted from Connexion, see [Attachment A](#). The request for quotes included two optional extensions for 2024 and 2025.

The funding street light fixtures are funded through the following account:

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	FY 23/24 BUDGET	PROPOSED EXPENDITURE
01-30-4359	Street Light Operations & Maintenance	\$ 78,000.00	\$ 9,490.00

STAFF RECOMMENDATION

Staff recommends approval of a resolution accepting a proposal from Connexion to purchase street light poles at the submitted unit price through April 30, 2024.

ALTERNATE DECISION

As recommended by the Committee.

DECISION MODE

This item will be on the November 6, 2023 City Council agenda for formal consideration.



**CITY OF DARIEN PUBLIC WORKS
1702 PLAINFIELD ROAD
DARIEN, IL 60561**

REQUEST FOR QUOTE: 2023 Street Light Poles
OPENING DATE/TIME: October 12, 2023 @ 10:00 a.m.

		LIGHTMART		CONNEXION		TECHNOLOGY INTERNATIONAL, INC.	
		Cost per Unit	Total	Cost per Unit	Total	Cost per Unit	Total
part #25A7RT1881M8	5	\$ 2,309.00	\$ 11,545.00	\$ 1,898.00	\$ 9,490.00	\$ 2,967.00	\$ 14,835.00
25 foot street light pole with 8 foot mast arm & 7 inch bottom diameter.188 inch wall thickness			\$ -				
			\$ -				
Total			<u>\$ 11,545.00</u>		<u>\$ 9,490.00</u>		<u>\$ 14,835.00</u>

quoted - HAPCO RTA25D7B4M18



RESOLUTION NO. _____

A RESOLUTION ACCEPTING A PROPOSAL FROM CONNEXION TO PURCHASE STREET LIGHT POLES AT THE SUBMITTED UNIT PRICE THROUGH APRIL 30, 2024

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council of the City of Darien hereby accepts a proposal from Connexion to purchase street light poles at the submitted unit price through April 30, 2024. a copy of which is attached hereto as "[Exhibit A](#)".

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November, 2023.

AYES: _____

NAYS: _____

ABSENT: _____

APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November, 2023.

JOSEPH MARCHESE, MAYOR

ATTEST:

JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM:

CITY ATTORNEY

RES



City of Darien
Street Light Poles

Vendor Name : Connexion

The City of Darien is requesting quotes for the following: light poles as per the attached specs
The City will be purchasing light poles as required with an initial quantity of 5
Annual contract - October 2023 - April 2024 w/two extensions

	Units	Cost per Unit	Total Unit Cost
25 foot street light pole with 8 foot mast arm & 7 inch bottom diameter .188 inch wall thickness - part # 25A7RT1881M8	5	\$ 1898.00 EACH	9490.00

i am quoting Hapco RTA25D7B4M18-** SPEC SHEET IS INCLUDED

LIGHTMART POLE IS THE HAPCO POLE

Total Cost \$ 9490.00

note lead time is 26 to 28 weeks no anchorbolts are included

note : min order is 2 poles other wise add 30 percent to price for shipping

DUE BY: October 12, 2023 - 10:00 a.m.

Hapco price quote is good thru 2023 for ordered placed

we can ask the vendor if they will accept a hold per release order to ship q4 2024

City of Darien 1702 Plainfield Road Darien, IL 60561

Office: 630-852-5000 Fax: 630-852-4709 www.darienil.us

CITY OF DARIEN

This form must be completed & faxed to 630-852-4709 or emailed to rkokkinis@darienil.gov by no later than October 12, 2023 @ 10:00 a.m. attn: Municipal Services
Questions may be directed to Municipal Services at 630-353-8105

Submitted by: Scott Rice

Vendor Name: Connexion

Address: 1700 leider ln buffalo grove il 60089

Date: 10-10-2023

Phone: 847-499-8300 Cell: 630-330-3946

Fax: 847-499-8301

E-mail Address: scott.rice@cxconnect.com

Authorized Signature: scott rice

The vendor shall provide three references with phone numbers below:

1. robert brankin connor construction 773-209-9482
2. troy rivera round lake schools 224-944-4028
3. ben belcore belcore electric 708-906-9239

Acceptance of Quote:

By: _____ Date: _____
City of Darien

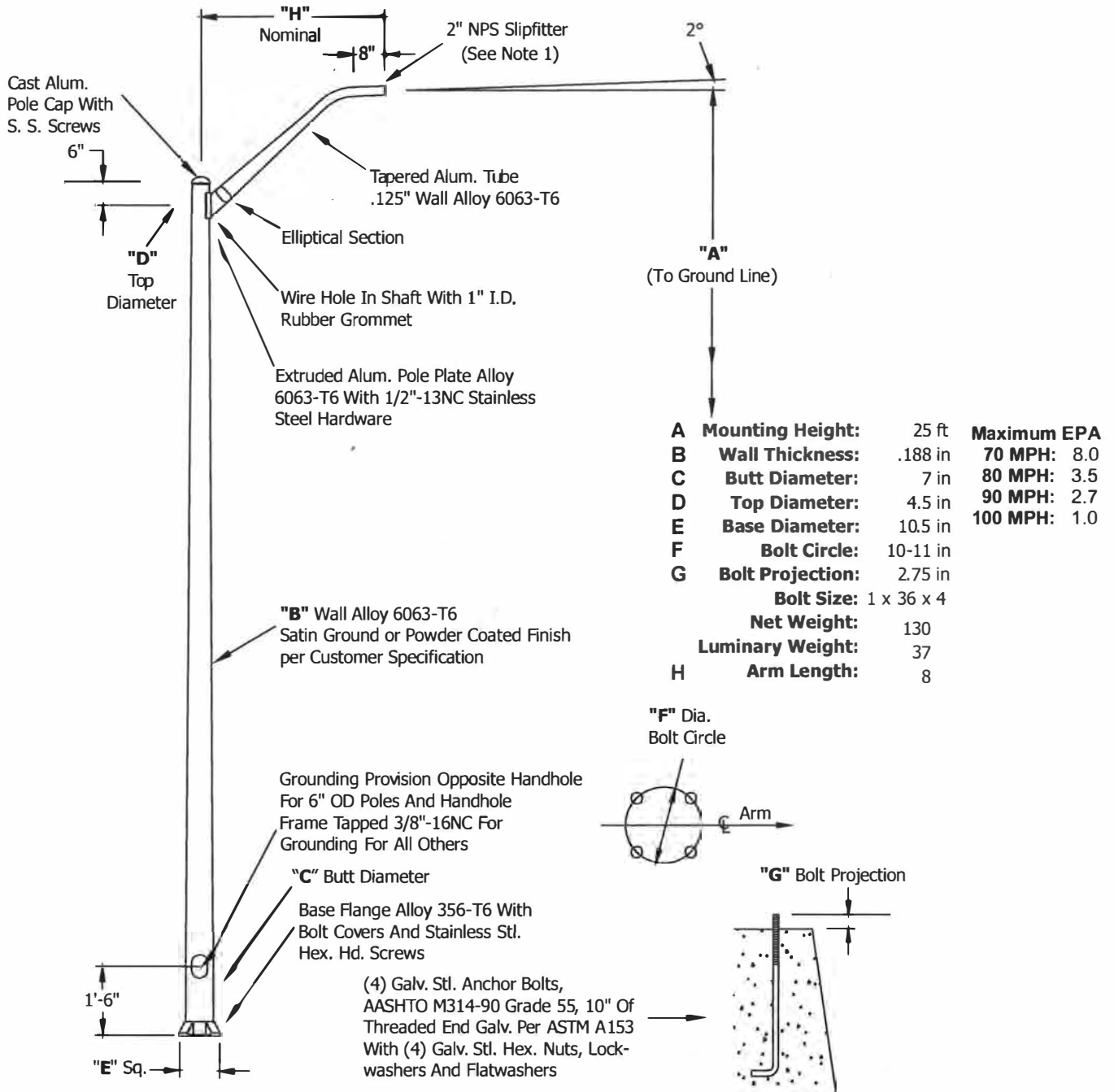
Authorized and Accepted:

By: _____

Title: _____

Date: _____

25 Foot Street Light Pole with 8 Foot Mast Arm and 7 Inch Bottom Diameter .188 Inch Wall Thickness - Part #: 25A7RT1881M8

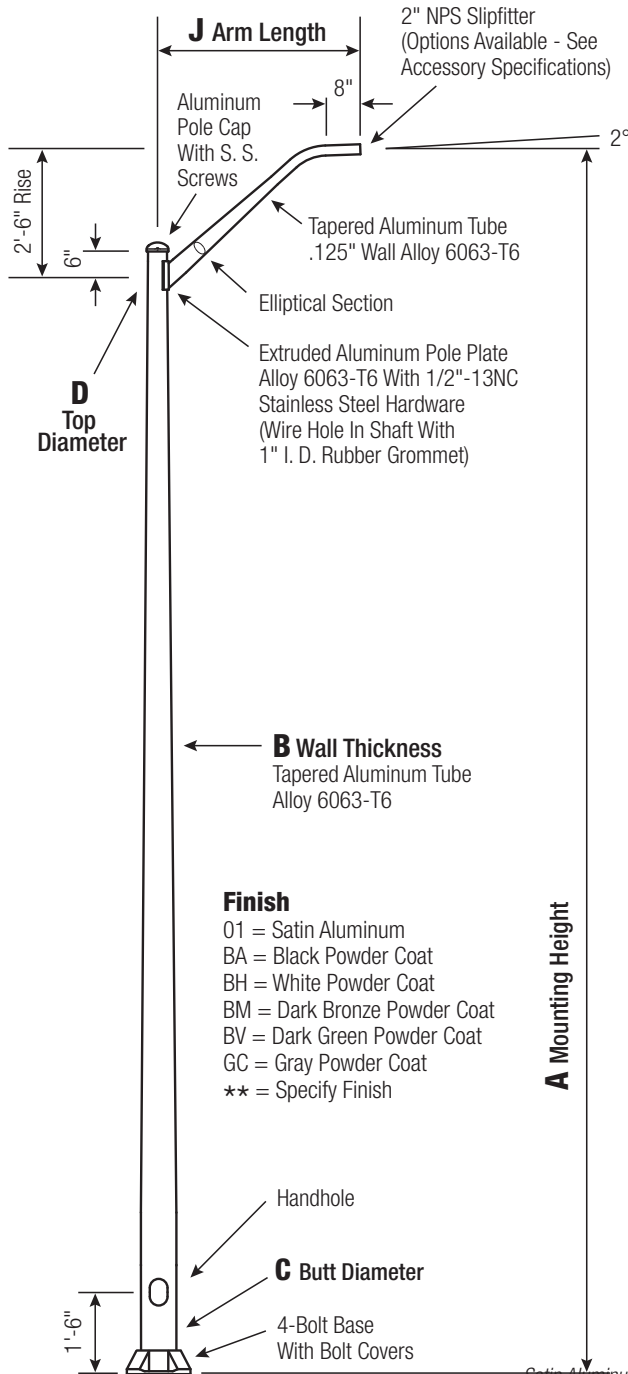


Notes:

- (1) Brackets Supplied With 2" NPS Slipfitter. Specify Modification 140 For 1.25" NPS Slipfitter.

RTA

Round Tapered Aluminum Pole with Arms Single Mast — 4-Bolt Base



WARNING: Do not install light pole without luminaire. *Satin Aluminum or Powder Coated Finish per Customer Specification.*

A Mtg. Hgt.	B Wall Thickness	C Butt Diameter	J Arm Length	Lum. Weight	MAXIMUM EPA					Old Cat. Number	Catalog Number
					90	100	110	120	130		
25	0.188"	7	8'	40	6.4	5.0	4.6	3.8	3.0	21-297	RTA25D7B4M18-**

C Butt Dia.	D Top Dia.	F Bolt Cir. Dia.	G Base Sq.	H Bolt Proj.	I Bolt Size
7	4.5	10 - 11	10.5	2.75	1 x 36 x 4

Dimensions in Inches

CUSTOMER NAME:	
PROJECT:	LOCATION:
NOTES:	QUANTITY:

RTA25D7B4M18

CATALOG NUMBER

FINISH

Pole

Shaft and arm will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shall be full-length heat treated after base weld to produce a T6 temper.

Base Style

4-Bolt Cast Aluminum Base Flange of Alloy 356-T6 with Aluminum Bolt Covers (Alloy 356-F) and Stainless Steel Hex Head Attaching Screws.

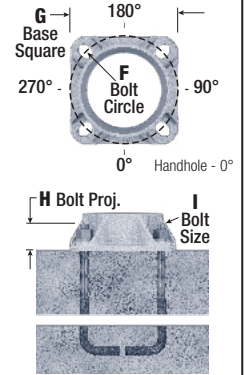


Handhole

Reinforced, 4" x 6" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. Reinforced Frame will contain a tapped 3/8" - 16NC Grounding Provision.

Anchorage

Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153. Kits will contain four (4) Hex Nuts, four (4) Lock Washers, and four (4) Flat Washers (all components Galvanized Steel). A bolt circle template will be provided.



Vibration Damper

When determined necessary by Hapco, a Vibration Damper will be factory-installed inside the pole shaft. Customer specification of the damper is available.



EPA Notes: Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.



26252 Hillman Highway
Abingdon, VA 24210
800.368.7171
www.hapco.com

AGENDA MEMO
Municipal Services Committee
October 23, 2023

ISSUE STATEMENT

A [resolution](#) authorizing the purchase of Biomelt AG 64, the organic deicing accelerator product, from SNI Solutions, in an amount not to exceed \$11,205(4,500 gallons x \$2.49/gallon).

BACKGROUND/HISTORY

Included within the FY23/24 Budget are supplies as it relates to the enhancement of deicing roadways within the City. The deicing program was initiated in 2018 and will be in its 5th year of use. There are two distinct snow and ice control strategies that make use of chemical freezing-point effective: deicing and anti-icing. Deicing operations are performed to break the bond of already bonded snow and ice on the roadway and is commonly initiated only after (1 in) or more of snow has accumulated and bonded to the road. Anti-icing operations are conducted to prevent the formation of bonded snow and ice for easy removal. The benefits of anti-icing are considerable. Pretreating surfaces with ice melter before a storm arrives can increase winter safety, make subsequent snow and ice removal easier and less costly, minimize salt usage, and reduce the potential for impact on properties.

VENDOR	PRODUCT	COST PER GALLON
SNI Solutions	Bio-Melt AG64	*\$2.49

The Biomelt product would be utilized for the deicing and anti-icing operations and would require approximately 4,500 gallons of the Biomelt product.

The FY23/24 Budget includes funding for the abovementioned items from the following accounts:

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	FY23/24 BUDGET	EXPENDITURE	BALANCE
03-60-4249	Streets-Operating Supplies Anti-icing/de-icing	\$9,450	\$11,205	(\$1,755)

STAFF RECOMMENDATION

The minimal load is 4,500 gallons and funds from the Motor Fuel Tax Fund will be able to cover the shortfall. Staff recommends approval of this resolution accepting a proposal from SNI Solutions for the purchase of Biomelt AG 64 in an amount not to exceed \$11,205(4,500 gallons x \$2.49/gallon).

ALTERNATE CONSIDERATION

As directed by the Municipal Services Committee.

DECISION MODE

This item will be placed on the November 6, 2023 City Council agenda for formal consideration.

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE PURCHASE OF BIOMELT AG 64, THE ORGANIC DEICING ACCELERATOR PRODUCT, FROM SNI SOLUTIONS, IN AN AMOUNT NOT TO EXCEED \$11,205(4,500 GALLONS X \$2.49/GALLON)

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council of the City of Darien hereby authorizes the purchase of Biomelt AG 64, the organic deicing accelerator product, from SNI Solutions, in an amount not to exceed \$11,205(4,500 gallons x \$2.49/gallon), a copy of which is attached hereto as "[Exhibit A](#)".

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November 2023.

AYES: _____

NAYS: _____

ABSENT: _____

APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November 2023.

JOSEPH MARCHESE, MAYOR

ATTEST:

JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM:

CITY ATTORNEY

Kris Throm

From: Kris Throm
Sent: Friday, September 15, 2023 11:29 AM
To: Mike Bellovics
Subject: RE: Biomelt AG 64

Sounds good, thank you!

Thanks,

Kris Throm

City of Darien Municipal Services
Superintendent
 (630) 514-3453

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From: Mike Bellovics <mike@snisolutions.com>
Sent: Friday, September 15, 2023 11:28 AM
To: Kris Throm <kthrom@darienil.gov>
Subject: RE: Biomelt AG 64

I will keep you email and when I know any changes, I will let you know ASAP. I will also ask if he can extend this price again too.

He is pouring concrete today, so I may not have any answers until first of next week.

Thanks again, Kris.
 Anne

From: Kris Throm <kthrom@darienil.gov>
Sent: Friday, September 15, 2023 10:30 AM
To: Mike Bellovics <mike@snisolutions.com>
Subject: RE: Biomelt AG 64

Ok thank you. Will I need to check back if I need to get pricing after Nov. 30th or will Mike be extending the IDOT pricing to us for that contract period as well?

Thanks,

Kris Throm

City of Darien Municipal Services
Superintendent
 (630) 514-3453

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From: Mike Bellovics <mike@snisolutions.com>
Sent: Friday, September 15, 2023 9:45 AM
To: Kris Throm <kthrom@darienil.gov>
Subject: RE: Biomelt AG 64

Hello Kris,

I just doubled checked my notes and the IL DOT \$2.49 per gallon for Biomelt AG 64 is good until 11-30-2023. That gives you some extra time as well.

Thanks again,
Anne

From: Kris Throm <kthrom@darienil.gov>
Sent: Friday, September 15, 2023 8:56 AM
To: Mike Bellovics <mike@snisolutions.com>
Subject: RE: Biomelt AG 64

Hello Anne and Mike,

I wanted to check and see if you could give me the delivered price for Bio-Melt AG64 for the upcoming season. Possible multiple deliveries at different points in the season (so anywhere between November 2023 and April 2024).

Thanks,

Kris Throm
City of Darien Municipal Services
Superintendent
(630) 514-3453

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From: Mike Bellovics <mike@snisolutions.com>
Sent: Wednesday, October 12, 2022 1:56 PM
To: Kris Throm <kthrom@darienil.gov>
Subject: RE: Biomelt AG 64

Hello Kris,

Mike said we will extend the same price that the IDOT is paying for this 2022-23 season.

4500 gallons – Biomelt AG 64 - @\$2.49 per gallon
Delivered to one site, one tank.

Thank you,

Anne Happel
SNI Solutions Inc
205 N Stewart Street
Geneseo IL 61254
888-840-5564 toll free
309-944-3168 office
309-944-4620 fax

From: Kris Throm <kthrom@darienil.gov>
Sent: Wednesday, October 12, 2022 1:35 PM
To: Mike Bellovics <mike@snisolutions.com>
Subject: RE: Biomelt AG 64

Mike,

I wanted to check and see if you could give me the delivered price for Bio-Melt AG64 for the upcoming season. Possible multiple deliveries at different points in the season (so anywhere between November 2022 and April 2023).

Thanks,

Kris Throm
City of Darien Municipal Services
Superintendent
(630) 514-3453

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DARIEN DIRECT CONNECT
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From: Mike Bellovics <mike@snisolutions.com>
Sent: Wednesday, October 6, 2021 2:02 PM
To: Kris Throm <kthrom@darienil.gov>
Subject: RE: Biomelt AG 64

Not a problem. Let me know if I can be of further help.

Anne Happel
SNI Solutions Inc
205 N Stewart Street
Geneseo IL 61254
888-840-5564 toll free
309-944-3168 office
309-944-4620 fax

From: Kris Throm <kthrom@darienil.gov>
Sent: Wednesday, October 6, 2021 1:38 PM
To: Mike Bellovics <mike@snisolutions.com>
Cc: Dan Gombac <dgombac@darienil.gov>; David Fell <dfell@darienil.gov>
Subject: RE: Biomelt AG 64

Great thanks Anne, I will see what I can find. Thanks for the call earlier about the pricing as well, makes sense now.

Thanks,

Kris Throm
City of Darien Municipal Services
Superintendent
(630) 514-3453

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From: Mike Bellovics <mike@snisolutions.com>
Sent: Wednesday, October 6, 2021 12:42 PM
To: Kris Throm <kthrom@darienil.gov>
Subject: RE: Biomelt AG 64

Kris,

Jennifer who submits our bids and is working with IDOT, said that on Bidbuy – where all the state info is, said to look up B-18528. (she said that there is several numbers in front of the B-18528, but the B-18528 is the bid or contract renewal number)

She also said you could contact IDOT and speak with someone regarding this contract B-18528 too.

Let me know if you are still having problems on this verification.

Thank you,

Anne Happel
SNI Solutions Inc
205 N Stewart Street
Geneseo IL 61254
888-840-5564 toll free
309-944-3168 office
309-944-4620 fax

From: Kris Throm <kthrom@darienil.gov>
Sent: Wednesday, October 6, 2021 11:43 AM
To: Mike Bellovics <mike@snisolutions.com>

Cc: David Fell <dfell@darienil.gov>; Dan Gombac <dgombac@darienil.gov>

Subject: RE: Biomelt AG 64

I thought that Public entities were allowed to take advantage of the bid prices through the State Bid process. This is how we have bought vehicles in the past as well for example. There wasn't any markup on those because we were only buying 1 vehicle whereas the State may have bid out to buy 50.

Thanks,

Kris Throm

City of Darien Municipal Services

Superintendent

(630) 514-3453

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DARIEN DIRECT CONNECT

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From: Mike Bellovics <mike@snisolutions.com>

Sent: Wednesday, October 6, 2021 11:37 AM

To: Kris Throm <kthrom@darienil.gov>

Subject: RE: Biomelt AG 64

The state bid is actually 2.05 until 11-30-2021. Starting 12-01-2021 it goes to 2.49 per gallon.

The 2.00 ended earlier this year. The reason the state bid is lower than what you were quoted, is, they bid in large quantity. It is based on volume.

Please let me know if you need further information.

Thank you,

Anne Happel

SNI Solutions Inc

205 N Stewart Street

Geneseo IL 61254

888-840-5564 toll free

309-944-3168 office

309-944-4620 fax

From: Kris Throm <kthrom@darienil.gov>

Sent: Wednesday, October 6, 2021 11:26 AM

To: Mike Bellovics <mike@snisolutions.com>; David Fell <dfell@darienil.gov>

Subject: RE: Biomelt AG 64

Hello Mike,

Hope all is well. Just wanted to check with you regarding the price that we were quoted for the delivery of BioMelt AG 64. Looks like the State Purchase Contract price is \$2.00/gallon delivered but we were quoted \$2.35/gallon. So if we

ordered 4,500 gallons then it would be \$9,000.00 for the load, correct? Let me know if I am missing something. I was preparing to send this up to my boss and I know he will have the same exact question.

Item # 4: (192 - 46) DEICER, ORGANIC ACCELERATOR WITH POLYOL (ALCOHOL), FULL-TRUCKLOAD, IDOT DISTRICT QUANTITIES. * FULL-TRUCKLOAD ORDER = 4,500 GALLONS * BIOMELT AG64 ORGANIC ACCELI _____ GALLONS*

NIGP Code: 192-46
Ice and Snow Removal Chemicals (See 775-45 for Road Salt)

Qty	Unit Cost	UOM	To
60,000.0	\$2.00	EA - Each	
Manufacturer:			Brand:
Make:			Packag

Additional NIGP Code :

Item # 5: (192 - 46) DEICER, ORGANIC ACCELERATOR WITH POLYOL (ALCOHOL), PARTIAL-TRUCKLOAD IDOT DIST, I QUANTITIES. * MINIMUM ORDER QUANTITY 1,000 GALLONS * BIOMELT AG64 ORGANIC ACCELI _____ GALLONS*

NIGP Code: 192-46
Ice and Snow Removal Chemicals (See 775-45 for Road Salt)

Qty	Unit Cost	UOM	To
10,000.0	\$2.75	EA - Each	
Manufacturer:			Brand:
Make:			Packag

Additional NIGP Code :



Master Contracts

☰ //PERIGPNN/JOB09428//

Contract Number
4018328

Close



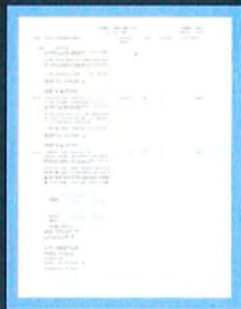
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Windows taskbar with search bar (Type here to search) and application icons (Edge, Chrome, File Explorer, Mail, etc.)

Thanks,

Kris Throm

City of Darien Municipal Services

Superintendent

(630) 514-3453

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DARIEN DIRECT CONNECT

Follow the link below and subscribing is simple! <http://www.darien.il.us/Reference-Desk/DirectConnect.aspx>

From: Mike Bellovics <mike@snisolutions.com>

Sent: Monday, September 13, 2021 2:17 PM

To: David Fell <dfell@darienil.gov>

Cc: Kris Throm <kthrom@darienil.gov>

Subject: RE: Biomelt AG 64

Hello David,

Per your request, please find the following quote – provide by Mike;

4500 gallons – Biomelt AG 64 - @2.35 per gallon

Delivered to one site

If you have any further questions, please let us know.

Thank you,

Anne Happel

SNI Solutions Inc

205 N Stewart Street

Geneseo IL 61254

888-840-5564 toll free

309-944-3168 office

309-944-4620 fax

From: David Fell <dfell@darienil.gov>

Sent: Monday, September 13, 2021 9:42 AM

To: mike@snisolutions.com

Cc: Kris Throm <kthrom@darienil.gov>

Subject: chemical

Hi Mike , Can you give me a delivery quote for one Geomelt tanker truck load of the stock pile treatment Chemical.

David Fell

City of Darien Street Foreman

1041 S Frontage Rd

Darien Il 60561

630-429-1711

CAUTION: This e-mail originated outside of the City's email system. DO NOT click links or open attachments unless you confirm the incoming address of the sender and know the content is safe.

AGENDA MEMO
Municipal Services Committee
October 23, 2023

ISSUE STATEMENT

A [resolution](#) authorizing the purchase of alternative liquid de-icer and anti-icing products from Industrial Systems Ltd., in an amount not to exceed \$17,235.00

AND

A motion for a contingency in the amount of \$10,000 for unforeseen winter conditions that may require the use of additional liquid de-icer and anti-icing products.

BACKGROUND/HISTORY

Included within the FY23/24 Budget are liquid rock salt additives commonly known as de-icing products for roadways. There are two distinct snow and ice control strategies that make use of chemical freezing point effective: de-icing and anti-icing. De-icing operations are performed to break the bond of already bonded snow and ice on the roadway and is commonly initiated only after (1 in) or more of snow has accumulated and bonded to the road. Anti-icing operations are conducted to prevent the formation of bonded snow and ice for easy removal. The benefits of anti-icing are considerable. Pretreating surfaces with ice melter before a storm arrives can increase winter safety, make subsequent snow and ice removal easier and less costly, minimize deicer usage, and reduce the potential for impact on properties and the environment.

Increased safety

Applying ice-melting chemicals before or at the start of freezing precipitation prevents formation of bonded ice on pavement, which can help ensure safe passage for pedestrians and motorists from the outset of a storm.

Labor and cost savings

Pretreating pavement surfaces with ice melter can provide significant labor and cost-saving benefits. Anti-icing treatment before a storm can often eliminate the need to remove light accumulations and can make removal of heavy snow and ice faster and easier. The residual ice-melting effect of these treatments can reduce the need for subsequent deicing applications after plowing.

Material selection

Material selection depends on many factors, including available equipment, pavement temperatures, and current and expected weather conditions. Anti-icing is a proven way to provide safer conditions for motorists and pedestrians starting at the very outset of a winter storm event. It is also a practical way to help minimize rock salt use, reduce labor and cost, and minimize the impact on properties and the environment before, during and after a storm. It is an effective and practical strategy for municipalities whenever they have advance warning that a storm is on the way.

Staff has implemented the use of these products during the course of the prior 3 years and continuous to review additives as they become available for potential further implementation. Staff also conducts reviews with the adjacent municipalities for products use, comparison evaluations along with feedback. There are various products that have been introduced within the last several

years and Staff is requesting to utilize the various products as listed below throughout the winter season for further review of optimal performance including reducing rock salt usage. The following is a schedule for the de-icing products and are listed and attached as [Attachment A](#).

- Item 1.** InfernalMelt R-no mixing pre-wetting, anti-icing & de-icing(-41°F) 4500 gallons at \$1.11/gallon - \$4,995
- Item 2.** 23.3% Sodium Chloride Salt brine 4500 gallons at \$.62/gallon - \$2,790
- Item 3.** CryoMelt S (Stockpile) keeps salt pliable (-25°F) 4500 gallons at \$2.10/gallon - \$9,450

Please note all quantities are based on a minimal purchase of 4,500 gallons. Industrial Systems Ltd. is the exclusive proprietary distributor for these products thus, no additional quotes were obtained. See [Attachment B](#). The past three years, the City has used up to 15,000 gallons. It is estimated that up to an additional 10,000 gallons could have been utilized for the remainder of the winter season. Due to trucking and supply line issues the City was unable to receive product. To combat the concern of product availability additional storage containers are being incorporate to the Municipal Services facility for inventory. Upon review of the winter occurrences, Staff will review the cost effectiveness of the various products and provide an update to the Snow Operations Policy.

The FY23/24 Budget includes funding for the abovementioned items from the following accounts:

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	FY23/24 BUDGET	EXPENDITURE	BALANCE
01-30-4257	Streets-Operating Supplies Anti-Icing/De-Icing- InfernalMelt R	\$ 62,000	\$ 4,995	\$ 57,005
	Streets-Operating Supplies Anti-Icing/De-Icing- Sodium Chloride Salt brine		\$ 2,790	\$ 54,215
	Streets-Operating Supplies Anti-Icing/De-Icing-CryoMelt S		\$ 9,450	\$ 44,765
	Contingency		\$10,000	\$34,765

***Contingency will be based upon performance review and availability of the above products and staff requests the ability to purchase additional product as required not to exceed.**

STAFF RECOMMENDATION

Staff recommends approval of this resolution authorizing the purchase of alternative liquid de-icer and anti-icing products from Industrial Systems Ltd., in an amount not to exceed \$17,235.00

AND

A motion for a contingency in the amount of \$10,000 for unforeseen winter conditions that may require the use of additional liquid de-icer and anti-icing products.

ALTERNATE CONSIDERATION

As directed by the Committee.

DECISION MODE

This item will be placed on the November 6, 2023 City Council agenda for formal consideration.

INFERNALMELT

InfernalMelt Blending Concentrate

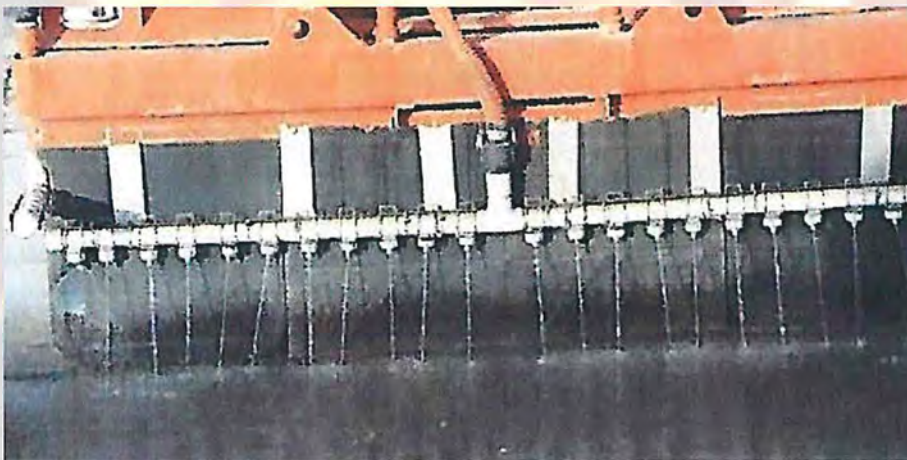
*Amp up your salt brine with this powerful
Organic Biopolymer additive*

InfernalMelt Blending Concentrate liquid is a premium engineered Biopolymer Organic liquid formulated from renewable resources. It is used as an additive to your salt brine blends such as sodium chloride, calcium chloride or others.

InfernalMelt BC, with its powerful Organic Biopolymer provides significant corrosion inhibition due to the high concentration of sugars and carbs. In addition to corrosion inhibition the abundance of sugars ensures your end product sticks tenaciously to the pavement. As a result anti-icing operations can be performed farther in advance with less chance of being washed or blown away than standard sodium brines. The more you add the better your finished blend will be.

InfernalMelt BC has been formulated with more refined raw materials than most organics to minimize the product separation and fallout associated with organics of the past along with some cutting edge freeze point depressants to get your finished product down to the low freeze points which contribute to road safety.

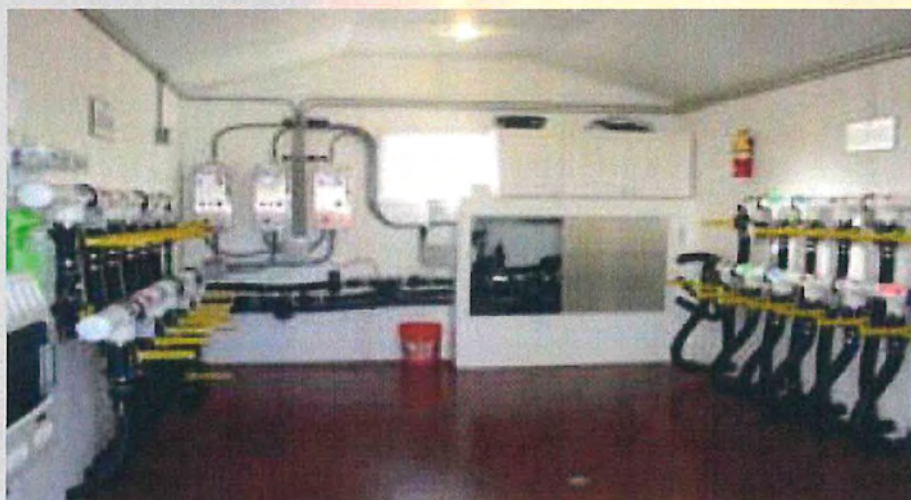
InfernalMelt BC is unlike other InfernalMelt product in that it is formulated with **No Magnesium Chloride!** **InfernalMelt BC** is available in a dark brown or clear version.



InfernalMelt BC in Salt Brines:

Anti-icing – InfernalMelt BC will help adhere your blended brine to the road better and longer because it bonds tenaciously. The residual effect it will impart to your brine will exceed all competitive products by a healthy margin allowing greater flexibility in timing of product application to pavements.

Pre-Wetting – Adding InfernalMelt BC to your pre-wetting blend will help you reduce salt usage by 30-50% thus saving money and the environment. It will also reduce the corrosion levels of a typical liquid by up to 85%. **InfernalMelt BC is your best tool to meet the more stringent chloride reduction guidelines in many areas!**



“McHenry County Blending Facility”

TYPICAL PROPERTIES

Appearance.....Brown or Clear liquid
Specific Gravity.....1.25 -1.27
Freezing Point.....-24°F (-31°C)

Weight/gallon.....10.3 -10.8
pH.....6.0 -8.0



Ice-Melt-Products.com

**Industrial Systems Ltd. 10917 Commercial St. Richmond, IL. 60071
Office 815-344-5566 or (815) 344-5588 O E-mail: steve@isltd.us**

INFERNALMELT R

High performance Winter Liquid

"Road Ready Organic Polymer Liquid for Pre-Wetting, Anti-Icing, & De-Icing"

DESCRIPTION & USES

InfernalMelt R is the ultimate ready to use winter liquid. Formulated with a blend of 2 Organic Polymer ingredients that are sustainably biorefined. Biorefining is the optimal strategy for large-scale sustainable use of biomass in the economy. **InfernalMelt R** has a low freeze point of -40°F. with performance down to the lowest temperature levels where other brines or supermix style mixes are making ice. It is more biologically stable than many other organics. The organic components of **InfernalMelt R** are responsible for two important aspects of the product: 1.) Due to the high levels of sugars in the product we get significant corrosion inhibition. 2.) The sugars, along with the long molecular chains of the polymers give it a tenacious bond to the pavement. This residual effect equates to the product remaining on the pavement longer which ultimately means less is needed for the same level of service.



APPLICATION GUIDELINES

Liquids are your most valuable tool to reducing the amount of road salt used while still increasing public safety on the roads. However liquids are not meant to completely replace all dry melters. Liquids are most effective when either used before an event or to pre-wet dry products. They can be used for de-icing also but there are practical limits as to how much snow & ice liquids can melt after an event. See the section on de-icing for more information.

Pre-wetting – Application rate is 5-25 gallons / ton of material used at the spinner, in the auger or onto loader bucket when loading truck. Industry experts say “**The wetter the better**” when describing liquid pre-wetting!

- Melting starts fast. If applied to salt it acts as a liquid accelerator.
- Proven 20% - 35% reduction in material use due to less bounce & scatter.
- Lower corrosion rate than plain rock salt or brines.

Anti-icing – Application rate for anti-icing is 20-30 gls / lane mile. For frost prevention use 15-20 gls / lane mile.

- Prevents bonding of snow and ice to pavement
- Prevents “black ice”.
- Quick and easy application using spray rig with solid stream nozzles.

De-icing – Application rate is 40 gallons per lane mile.

- When used as a liquid deicer **InfernalMelt R** quickly melts through ice and thin amounts of dry packed snow using straight stream nozzles where it will spread and break the bond between ice & snow and the pavement allowing plows to remove it more easily.



PHYSICAL PROPERTIES

Appearance/Odor: Dark brown liquid with mild pleasant odor *Weight:* 9.6 – 10.3 lbs / gal *pH:* 6.0 – 9.0
Specific Gravity: 1.27 – 1.296 *Freeze Point:* -40°F (-39°C)

*Caution – InfernalMelt R is a road ready product not a blending concentrate nor is it intended for stockpiles.

Industrial Systems Ltd. • 10917 Commercial St. Richmond, IL 60071

P: 815-344-5566 or 815-344-5588

www.Ice-Melt-Products.com

MEMO


ISL

09-20-2023

To Whom it May Concern,

I am writing to let you know that Industrial Systems Ltd. is the sole manufacturer of InfernalMelt & CryoMelt in the 3 state area comprising Illinois, Wisconsin and Iowa. We maintain ourselves as the sole manufacturer to your area.

Sincerely,


Greg Schams

President

Industrial Systems Ltd.

Industrial Systems Ltd.

112 West Route 120
Tel: 815.344.5566

Lakemoor, IL 60051
Fax: 815.344.5588



RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE PURCHASE OF ALTERNATIVE LIQUID DE-ICER AND ANTI-ICING PRODUCTS FROM INDUSTRIAL SYSTEMS, LTD., IN AN AMOUNT NOT TO EXCEED \$17,235.00

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council of the City of Darien hereby authorizes the purchase of alternative liquid de-icer and anti-icing products from Industrial Systems, Ltd., in an amount not to exceed \$17,235.00, a copy of which is attached hereto as "**Exhibit A**" and is by this reference expressly incorporated herein.

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November 2023.

AYES: _____

NAYS: _____

ABSENT: _____

APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November 2023.

JOSEPH MARCHESE, MAYOR

ATTEST:

JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM

CITY ATTORNEY

Industrial Systems Ltd.

112 West Route 120

Lakemoor, IL 60051

Tel: 815-344-5566 • Fax: 815-344-5588

**ISL
Quote**

Darien Public Works Attn: David Fell
Darien, IL.

Date: September 19, 2023
Reference: Liquid De-icer / Anti-icer

LOCAL* Manufactured, stored & distributed in Chicagoland *LOCAL

Submitted By	FOB	Delivery	Terms
Steve Adler		Included	Net 30 days from delivery

Quantity	Product Description	Price
	No Mixing! READY-TO-GO PRODUCT No mixing!	
4,500 gl	InfernaMelt R- <i>No mixing!</i> pre-wetting, anti-icing & de-icing (-41°F) Cleaner more refined functional equivalent to ThermaPoint R	\$1.11/gl
	NON-CaCl or MgCl LIQUID DE-ICER	
4,500 gl	CryoBlend 80-20 <i>No mixing!</i> Pre-wetting, anti-icing & de-icing (-7°F) This is the CryoMelt C Concentrate below @ 20% added to 80% Sodium Chloride Salt Brine. If you have salt brine make it yourself with CryoMelt C and save money!	\$1.29/gl
	BREWERS INGREDIENTS for 2 or 3 part blending	
4,500 gl	InfernaMelt B/C – Blending Concentrate mix Ingredient	\$1.95/gl
4,500 gl	CryoMelt C (Concentrate) <i>NON CHLORIDE!</i> mix ingredient	\$2.09/gl
4,500 gl	Liquidow 32% Liquid Calcium Chloride (-17 F) (add an addition \$0.05 per gallon for corrosion inhibitor)	\$0.63/gal
4,500 gl	23.3 % Sodium Chloride Salt brine	\$0.62/gal

STOCK PILE TREATMENT

4,500 gl	CryoMelt S (Stockpile) The BEST Stockpile available! Keep salt pliable & sticky w/ amber color. Works down to -25°F	\$2.10/gl
----------	---	-----------

Also available the following for blending operations

Defoamer – Biocides – Storage Tanks – Pre-Wet Dispensing System

Important Prices in effect at time of delivery and subject to availability, unless such time is extended in writing. Quantities shown above are not guaranteed.
Internal Use (TP-R) GPS 527.20

Steve Adler

AGENDA MEMO
Municipal Services Committee
October 23, 2023

ISSUE STATEMENT

A [resolution](#) authorizing the purchase of alternative liquid de-icer and anti-icing products from K-Tech Specialty Coatings, Inc., in an amount not to exceed \$23,276.00

AND

A motion for a contingency in the amount of \$10,000 for unforeseen winter conditions that may require the use of additional liquid de-icer and anti-icing products.

BACKGROUND/HISTORY

Included within the FY23/24 Budget are liquid rock salt additives commonly known as de-icing products for roadways. There are two distinct snow and ice control strategies that make use of chemical freezing point effective: de-icing and anti-icing. De-icing operations are performed to break the bond of already bonded snow and ice on the roadway and is commonly initiated only after (1 in) or more of snow has accumulated and bonded to the road. Anti-icing operations are conducted to prevent the formation of bonded snow and ice for easy removal. The benefits of anti-icing are considerable. Pretreating surfaces with ice melter before a storm arrives can increase winter safety, make subsequent snow and ice removal easier and less costly, minimize deicer usage, and reduce the potential for impact on properties and the environment.

Increased safety

Applying ice-melting chemicals before or at the start of freezing precipitation prevents formation of bonded ice on pavement, which can help ensure safe passage for pedestrians and motorists from the outset of a storm.

Labor and cost savings

Pretreating pavement surfaces with ice melter can provide significant labor and cost-saving benefits. Anti-icing treatment before a storm can often eliminate the need to remove light accumulations and can make removal of heavy snow and ice faster and easier. The residual ice-melting effect of these treatments can reduce the need for subsequent deicing applications after plowing.

Material selection

Material selection depends on many factors, including available equipment, pavement temperatures, and current and expected weather conditions. Anti-icing is a proven way to provide safer conditions for motorists and pedestrians starting at the very outset of a winter storm event. It is also a practical way to help minimize rock salt use, reduce labor and cost, and minimize the impact on properties and the environment before, during and after a storm. It is an effective and practical strategy for municipalities whenever they have advance warning that a storm is on the way.

Staff has reviewed various products with adjacent municipalities as well as manufacturers de-icing

representatives. There are various products that have been introduced within the last several years and Staff is requesting to utilize the various products as listed below throughout the winter season for further review of optimal performance including reducing rock salt usage. The following is a schedule for the de-icing products and are listed and attached as [Attachment A](#).

- Item 1.** BEET HEET Concentrate – ready to use salt stockpile treatment (4600 gallons at \$1.82/gallon - \$8,372)
- Item 2.** BEET HEET Super Severe – ready to use anti-icer, deicer and pre-wetting agent (4600 gallons at \$1.67/gallon - \$7,682)
- Item 3.** BEET HEET Severe – ready to use anti-icer, deicer and pre-wetting agent (4600 gallons at \$1.57/gallon - \$7,222)

Please note all quantities are based on a minimal purchase of 4,600 gallons. K-Tech Specialty Coatings, Inc., is the exclusive proprietary distributor for these products thus, no additional quotes were obtained. See [Attachment B](#).

The FY23/24 Budget includes funding for the abovementioned items from the following accounts:

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	FY23/24 BUDGET	EXPENDITURE	BALANCE
01-30-4257	Streets-Operating Supplies Anti-Icing/De-Icing- BEET HEET Concentrate	\$ 62,000	\$ 8,372	\$ 53,628
	Streets-Operating Supplies Anti-Icing/De-Icing- BEET HEET Super Severe		\$ 7,682	\$ 45,946
	Streets-Operating Supplies Anti-Icing/De-Icing-BEET HEET Severe		\$ 7,222	\$ 38,724
	Contingency		\$10,000	\$ 28,724

***Contingency will be based upon performance review and availability of the above products and staff requests the ability to purchase additional product as required not to exceed.**

STAFF RECOMMENDATION

Staff recommends approval of this resolution authorizing the purchase of alternative liquid de-icer and anti-icing products from Industrial Systems Ltd., in an amount not to exceed \$23,276.00

AND

A motion for a contingency in the amount of \$10,000 for unforeseen winter conditions that may require the use of additional liquid de-icer and anti-icing products

ALTERNATE CONSIDERATION

As directed by the Committee.

DECISION MODE

This item will be placed on the November 6, 2023 City Council agenda for formal consideration.

What You Need To Know About BEET HEET® (BH)

BH is **NOT “beet juice”**. It won't plug strainers or fill tanks with sludge

BH contains **more total active ingredient** than any deicer in North America

BH is **“ready” bio-degradable**. It's safe for the environment.

BH, when blended with brine 50/50, has a **biochemical oxygen demand** of **NOT DETECTABLE** at 39.2°F.

BH has the ability to **reduce chloride emissions** more than any other liquid pre-wet in North America.

What You Need To Know About BEET HEET® Users

Some of the **largest agencies** in North America use BH. 8 state DOTs will be using BH this winter.

Some of the **most advanced agencies** in North America use BH. BH users have been awarded the national APWA *Excellence In Snow & Ice Control Award* 9 times in the last 13 years.

Agencies in Wisconsin and Minnesota have deiced highways with BH treated rock salt at **-25°F**. Some anti-iced at **-15°F**.

Agencies in or near Duluth, MN, International Falls, MN, Bismarck, ND and Fargo, ND have had **unparalleled success** with BH. In their own words, they've never seen a deicer perform like BH.

What You Need To Know About K-Tech

K-Tech has the **quickest deliveries** in the industry, bar none.

K-Tech has the most extensive collection of **deicer test data** in the industry. Would you like to know what's in your current deicer?

K-Tech has the most **comprehensive user's guide** in the industry.

K-Tech has the only **temperature driven blend and application rate guide** in the industry making transition to BH quick, easy and failsafe.

For more details, or to schedule a meeting or webinar, reply to: dpreston@ktechcoatings.com, for IL, IN, MI, OH, KY, PA and east.



Hundreds of agencies in 15 states have transitioned away from 32% CaCl₂, “beet juice” and various “super-mix” deicers in favor of ***BEET HEET***. In fact, ***BEET HEET*** users have won the National APWA *Excellence In Snow & Ice Control Award* 9 times in the last 13 years! What do all of these agencies see in ***BEET HEET***? Please read on

MEMO



Date: 10-6-23

To: Kris Throm
 Superintendent
 Darien, City of
 1041 S Frontage Rd
 Darien, IL 60561
 Office: (630) 514-3453
 Email: kthrom@darienil.gov

From: Denver Preston
 Sales Manager – Winter Products
 K-Tech Specialty Coatings, Inc.
 P.O.B. 428
 Ashley, IN 46705
 Office: (260) 587-3888
 Fax: (260) 587-3889
 Cell: (260) 585-0332
 Email: dpreston@ktechcoatings.com

Re: Sole Source Proprietary Product

Mr. Figuray:

BEET HEET[®] deicers are sole source products solely developed, manufactured and distributed by K-Tech Specialty Coatings, Inc.

Sincerely,

Denver L. Preston

P.O. Box 428 • ASHLEY, IN 46705 • 260-587-3888 • FAX 260-587-3889

DPRESTON@KTECHCOATINGS.COM



RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE PURCHASE OF ALTERNATIVE LIQUID DE-ICER AND ANTI-ICING PRODUCT FROM K-TECH SPECIALTY COATINGS, INC., IN AN AMOUNT NOT TO EXCEED \$23,276.00

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council of the City of Darien hereby authorizes the purchase of alternative liquid de-icer and anti-icing products from K-Tech Specialty Coatings, Inc., in an amount not to exceed \$23,276.00, a copy of which is attached hereto as "[Exhibit A](#)" and is by this reference expressly incorporated herein.

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November 2023.

AYES: _____

NAYS: _____

ABSENT: _____

APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 6th day of November 2023.

JOSEPH MARCHESE, MAYOR

ATTEST:

JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM

CITY ATTORNEY

RES

K-TECH

SPECIALTY COATINGS, INC.

**Road Maintenance
Specialist
High Performance
De-Icers - Anti-Icers
Pre-Wetting Agents**

2023-2024 Price Quote

10/10/2023

Kris Throm

Superintendent

Darien, City of

1041 S Frontage Rd

Darien, IL 60561

630-514-3453

kthrom@darienil.gov

190

Notes: BEET HEET Concentrate is an intelligently designed deicer/salt pre-wetting agent. BEET HEET Concentrate contains the most active ingredient of any deicer in North America. That's why **BEET HEET Concentrate outperforms all other deicers in North America**. BEET HEET Concentrate is also the most environmentally friendly salt pre-wet in North America. Call, text or email for documentation and explanation.

Salesperson	Customer Name	Terms	Expiration
D. Preston	Darien, City of	Net 30	5/1/2024
Quantity	Product Description/Details	Delivered Price/Gal.	Line Total
(+/- 100 gal.)			
4,600	BEET HEET Concentrate - Best performing deicer in North America! Ready-to-Use salt stockpile treatment and/or admixture to 23.3% NaCl brine. K-Tech Full Load Pricing - Delivered	\$1.82	\$8,372.00
4,600	BEET HEET Super Severe (BHSS) - Ready-to-use anti-icer, deicer and pre-wetting agent. BHSS is a 50/50 blend of BEET HEET Concentrate & a CaCl ₂ /MgCl ₂ solution. BHSS is our hottest & best performing ready-to-use salt pre-wet agent, anti-icer/deicer. K-Tech Full Load Pricing	\$1.67	\$7,682.00
4,600	BEET HEET Severe (BHS) - Ready-to-use anti-icer, deicer and pre-wetting agent. BHS is a 50/50 blend of BEET HEET Concentrate & 23.3% NaCl brine. BHS is our second best performing ready-to-use salt pre-wet agent, anti-icer/deicer. K-Tech Full Load Pricing	\$1.57	\$7,222.00
BEET HEET Concentrate contains much more active ingredient!			
• 93% more than 55% solids waste-stream beet juice deicers, on average.			
• 60.9% more than 23.3% sodium chloride brine			
• 14.0% more than 32% calcium chloride			
At 15°F, BEET HEET Concentrate treated salt melts much more ice!			
• 150.0% more than 23.3% sodium chloride treated rock salt			
• 43.9% more than 32% CaCl ₂ treated rock salt			
• 37.8% more than 55% solids beet juice treated rock salt			
Important Information			
50% OF FULL FREIGHT CHARGES APPLY IF ANY PRODUCT IS ORDERED AND DELIVERED BUT NOT TAKEN. Please don't order more product than you can take.		Subtotal	
ALL credit card purchases will be assessed a 4% credit card processing fee.		Sales Tax	
		Total	

K-Tech Specialty Coatings, Inc. P.O. Box 428 Ashley, IN 46705

Phone (260) 587-3888 Fax (260) 587-3889

Email dpreston@ktechcoatings.com Cell/Text (260) 585-0332

Website: ktechcoatings.com YouTube: ktechcoatings

AGENDA MEMO
MUNICIPAL SERVICES COMMITTEE
OCTOBER 23, 2023

CASE/ISSUE STATEMENT

Annexation Petition: Petitioner Requests Annexation into City of Darien
 (10S360 Kearney Road/PIN 10-05-204-005)

ATTACHMENTS

1. [ANNEXATION PETITION](#)
2. [PLAT OF ANNEXATION](#)
3. [PLAT OF SURVEY](#)

GENERAL INFORMATION

Petitioner/Owner:	Huzefa Amar Haider
Property Location:	10S360 Kearney Road
PIN Number:	10-05-204-005
Existing Zoning:	Single Family (R-3) – DuPage County
Proposed Zoning:	Single-Family Residence District (R-1)
Existing Land Use:	Vacant
Proposed Land Use:	Single-Family Residence
Size of Property:	0.77 Acres
Floodplain:	None
Natural Features:	None

OVERVIEW/DISCUSSION

The petitioner seeks to annex the subject property into the City of Darien. Staff has verified that the subject lot is contiguous to the existing corporate boundary of Darien. The annexation of this lot will not trigger further annexations based on any previous pre-annexation agreements.

The lot is located at the southwest corner of South Frontage Road and Kearney Road and is currently vacant. The petitioner requests to annex the property and construct a single-family residence under the Single-Family Residence District (R-1) standards. Note that properties are automatically zoned R-1 District upon annexation.

Proposed access to the lot is from Kearney Road, which runs north/south directly adjacent to the lot on its eastern boundary. The road is owned/maintained by the City of Darien. Note that water service will be provided by the City of Darien and sanitary sewer will be provided through DuPage County. The City will assign a new address.

DECISION MODE

As recommended by the Municipal Services Committee.

MEETING SCHEDULE

Municipal Services Committee	October 23, 2023
City Council	November 6, 2023

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

PETITION FOR ANNEXATION TO THE CITY OF DARIEN,
DUPAGE COUNTY, ILLINOIS

TO: MAYOR AND ALDERMAN
OF THE CITY OF DARIEN,
DUPAGE COUNTY, ILLINOIS

The undersigned Petitioner(s) (hereinafter referred to as "Petitioner(s)"), respectively represents:

- 1. Petitioner(s) is (are) the sole owner(s) of record of the property (hereinafter sometimes referred to as the "Lot"), hereinafter more particularly described in Exhibit "A", attached hereto.
2. The Lot is not situated within the limits of any other municipality, but is contiguous to the City of Darien.
3. Such registered voters (or electors) residing on this Lot, as required by Statute, have signed this Petition.

PETITIONER(S) RESPECTFULLY REQUEST(S):

- 1. That the Lot described in Exhibit "A", attached hereto, be annexed to the City of Darien by Ordinance of the Mayor and the Alderman of the City of Darien, pursuant to 65 ILCS 5/7-1-8, as amended.
2. That such other action be taken as is appropriate in the premises.

Dated this 7th day of October, 2023.

Huzefa Amar Haider

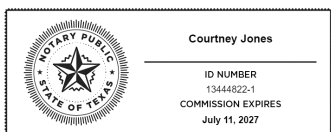
Huzefa Amar Haider

ATTEST:

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, Courtney Jones, a Notary Public in and for said County, in State of Texas, do hereby certify that Huzefa Amar Haider, personally known to me to be the same person(s) whose name(s) are subscribed to the foregoing instrument, respectively appeared before me this day in person and acknowledged that they signed and delivered the said instrument as their own free and voluntary act, for the uses and purposes therein set forth and that the statements made therein are true.

Given under my hand and Notarial Seal this 7th day of October, 2023.



Courtney Jones Courtney Jones
Notary Public 07/11/2027

• BOUNDARY • TOPOGRAPHICAL • SUBDIVISIONS • ALTA/NSPS • CONDOMINIUMS • SITE PLANS • CONSTRUCTION • FEMA CERTIFICATES •



RUSSELL W. SCHOMIG, PLS
WILLIAM K. SCHOMIG

SCHOMIG LAND SURVEYORS, LTD. PLAT OF ANNEXATION TO THE CITY OF DARIEN

909 EAST 31st STREET
LA GRANGE PARK, ILLINOIS 60526
E-MAIL: SCHOMIG-SURVEY@SBCGLOBAL.NET
WEB: WWW.LAND-SURVEY-NOW.COM
PHONE: 708-352-1452
FAX: 708-352-1454

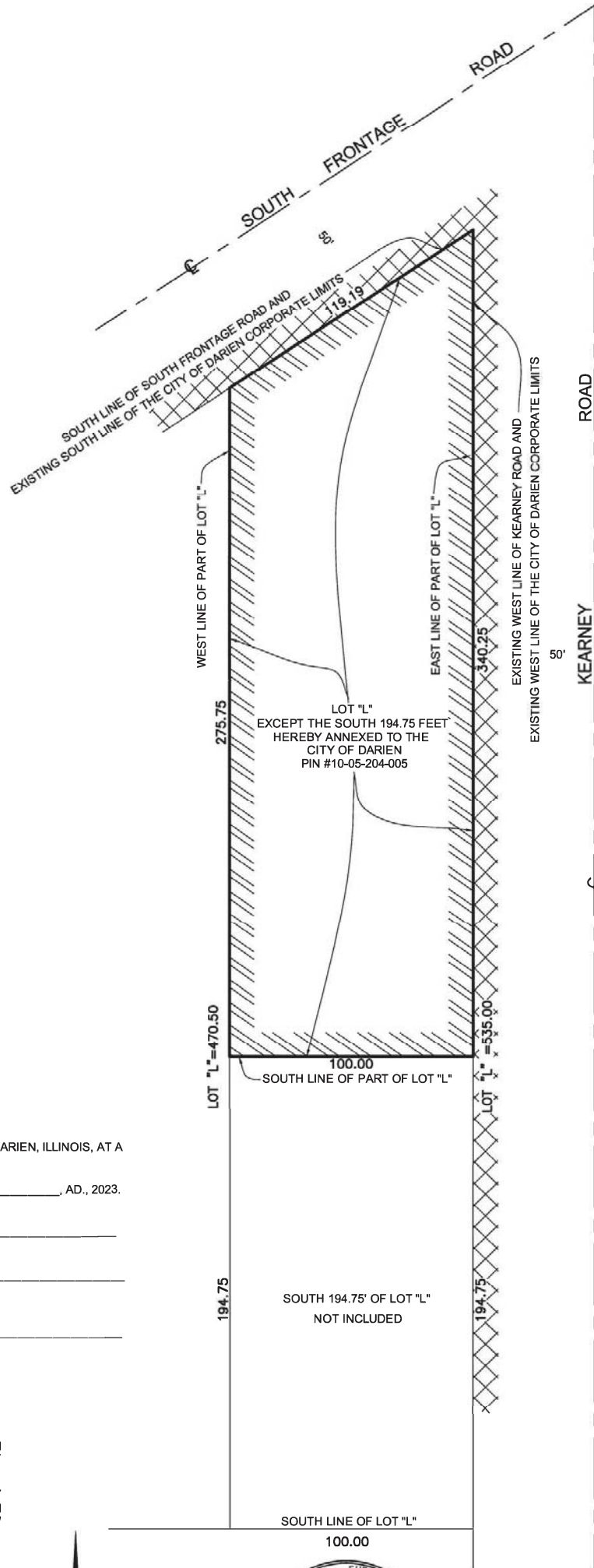
LOT "L" (EXCEPT THE SOUTH 194.75 FEET THEREOF) IN WUNDERLICH WOODS, A SUBDIVISION DESCRIBED AS THAT PART OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 5, LYING SOUTH OF CENTER LINE OF JOLIET ROAD, UNITED STATES HIGHWAY 66 AND OF THE NORTH 36 RODS OF THE EAST 1/2 OF THE SOUTHEAST 1/4 OF SAID SECTION 5, TOWNSHIP 37 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED NOVEMBER 26, 1945, AS DOCUMENT 487744, IN DU PAGE COUNTY, ILLINOIS.

COMMON ADDRESS: VACANT LOT, SOUTH FRONTAGE ROAD.

PROPERTY INDEX NUMBER 10-05-204-005-0000

LEGEND

- = EXISTING CITY OF DARIEN CORPORATE LIMITS
- = LIMITS OF AREA HEREBY ANNEXED



CITY COUNCIL'S CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF DUPAGE) ss.

APPROVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF DARIEN, ILLINOIS, AT A

MEETING HELD THIS _____ DAY OF _____, AD., 2023.

BY ORDINANCE NUMBER _____

BY: _____ MAYOR

ATTEST: _____ CITY CLERK

COUNTY RECORDER'S CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF DUPAGE) ss.

THIS INSTRUMENT NUMBER _____, WAS FILED FOR RECORD IN THE RECORDERS OFFICE OF DUPAGE COUNTY, ILLINOIS:

ON THE _____ DAY OF _____ A.D. 2023.

AT: _____ O'CLOCK _____ M.

BY: _____ RECORDER OF DEEDS
DUPAGE COUNTY

THE CUSTOMER LISTED BELOW PROVIDED THE LEGAL DESCRIPTION SHOWN HEREON. WE DO NOT GUARANTEE THAT THIS IS THE CORRECT LEGAL DESCRIPTION FOR THE TRANSACTION INTENDED.

IMPORTANT: COMPARE LEGAL DESCRIPTION TO DEED OR TITLE POLICY AND REPORT ANY DISCREPANCY FOR CLARIFICATION OR CORRECTION IMMEDIATELY. UNLESS OTHERWISE NOTED, THIS PLAT DOES NOT SHOW ORDINANCES.

DO NOT SCALE DIMENSIONS FROM THIS PLAT; THE LOCATION OF SOME FEATURES MAY BE EXAGGERATED FOR CLARITY. NO EXTRAPOLATIONS MAY BE MADE FROM THE INFORMATION SHOWN WITHOUT THE WRITTEN PERMISSION OF SCHOMIG LAND SURVEYORS, LTD. ONLY PLATS WITH AN EMBOSSED SEAL ARE OFFICIAL DOCUMENTS. FIELD WORK WAS COMPLETED PER SURVEY DATE LISTED BELOW.
© COPYRIGHT, ALL RIGHTS RESERVED.

ANNEXATION DATE: JUNE 15TH, 2023.

ORDERED BY: RASHIDA KHARKHARIWALA

PLAT NUMBER: 219920-AX & H27-170

SCALE: 1" = 40'



STATE OF ILLINOIS)
COUNTY OF COOK) ss.

WE, SCHOMIG LAND SURVEYORS, LTD. AS AN ILLINOIS PROFESSIONAL DESIGN FIRM, LAND SURVEYOR CORPORATION, DO HEREBY CERTIFY THAT WE HAVE PREPARED THIS PLAT OF ANNEXATION FROM OFFICIAL RECORDS AND THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE SAME

ALL DIMENSIONS ARE IN FEET AND DECIMAL PARTS OF A FOOT. DIMENSIONS SHOWN ON BUILDINGS ARE TO THE OUTSIDE OF BUILDINGS. THE BASIS OF BEARINGS, IF SHOWN AND UNLESS OTHERWISE NOTED, ARE ASSUMED AND SHOWN TO INDICATE ANGULAR RELATIONSHIP OF LOT LINES.

BY: Russell W. Schomig
PROFESSIONAL ILLINOIS LAND SURVEYOR LICENSE # 035-002446

MEMO

PLAT OF SURVEY

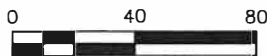
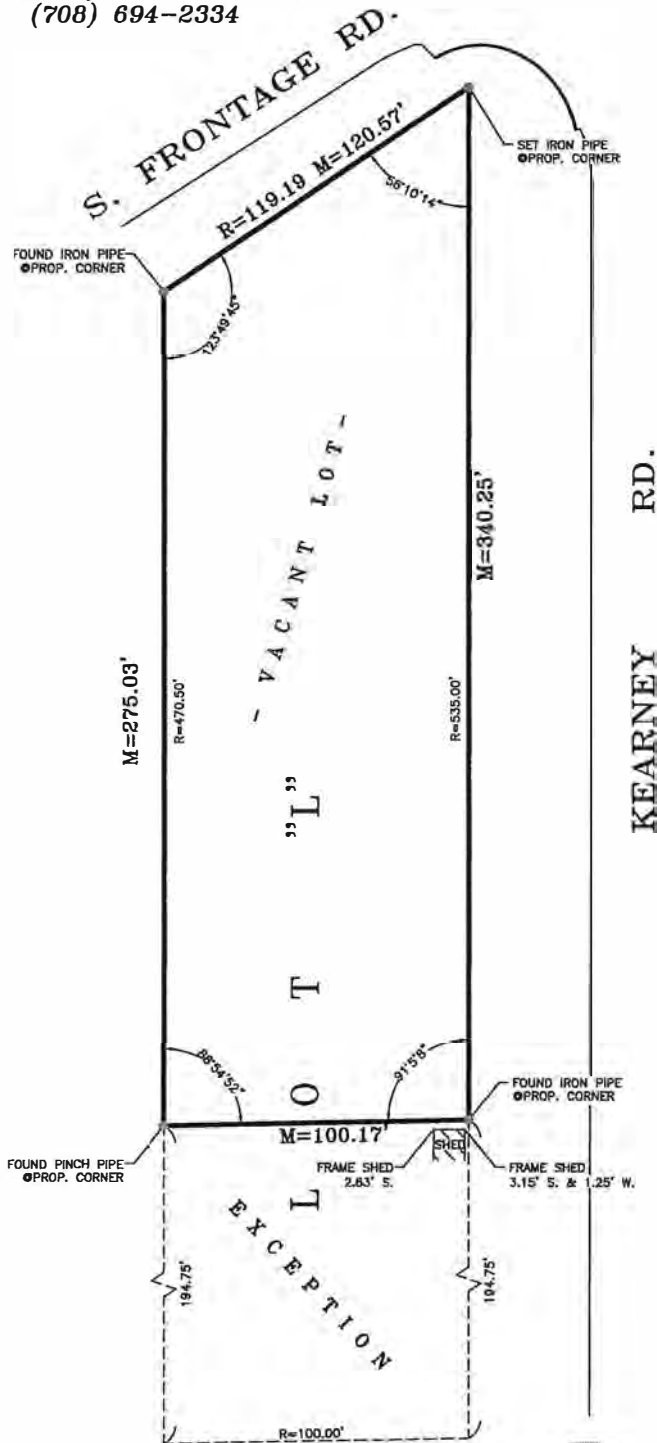
Townline Surveying, PLLC

TownlineSurveying@gmail.com

20125 N. Woodland Cir.
Mokena, Illinois 60448
(708) 694-2334

ALTA
Condominium
Residential
Commercial

LOT "L" (EXCEPT THE SOUTH 194.75 FEET THEREOF) IN WUNDERLICH WOODS, A SUBDIVISION DESCRIBED AS THAT PART OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 5, LYING SOUTH OF CENTER LINE OF JOLIET ROAD, UNITED STATES HIGHWAY 66 AND OF THE NORTH 36 RODS OF EAST 1/2 OF THE SOUTHEAST 1/4 OF SAID SECTION 5, TOWNSHIP 37 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED NOVEMBER 26, 1945 AS DOCUMENT 487744, IN DU PAGE COUNTY, ILLINOIS.



Scale: 1" = 40 feet

Distances are marked in feet and decimals.

Ordered by: Skaar Law Office

Order No.: 23-2-21

Compare all points before building by same and at once report any difference. For building lines, restrictions, or easements not shown hereon, refer to abstract, deed or ordinance.

Field work completed: 2/28/23

Drawn by: L.M.

Proofed by: J.M.

Design Firm Registration # 184-008790

STATE OF ILLINOIS }
COUNTY OF WILL } ss



Townline Surveying PLLC, an Illinois Land Surveying Corporation does hereby certify that this professional service conforms to the current Illinois standards for boundary survey.

Mokena, IL. March 21, A.D. 2023

by J. McArthur
License No. 4040 Expires 11/30/24