

CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

INFRASTRUCTURE COMMITTEE

**Thursday, March 3, 2022
7:00 P.M. – City Council Chambers**

AGENDA

1. Call to Order, Roll Call, and Establishment of a Quorum
2. Approval of Minutes
 - A. Infrastructure Committee of February 3, 2022
3. Public Participation / Presentations
4. Items for Consent
 - A. An Ordinance Amending the Municipal Code, Chapter 15, Article VI – General Standards for Small Wireless Facility Design, Stealth, and Concealment
 - B. Resolution No. 22-R-0012 – Approval of a Contract with the Layne Company for Professional Services Related to the Rehabilitation of the Pump and Motor Assembly Associated with the City's Well Station No. 6 for an Amount Not to Exceed \$162,015.00
 - C. Resolution No. 22-R-0013 – Layne Company – Approval of Contract for Professional Services Related to the Rehabilitation of the Pump and Motor Assembly Associated with the City's Well Station No. 5 for an Amount Not to Exceed \$317,960.00
 - D. Resolution No. 22-R-0015 – Contract Award – Emerald Tree Care, LLC for the 2022 Emerald Ash Borer Insecticidal Treatment Program for an Amount Not to Exceed \$22,155.00
 - E. Resolution No. 22-R-0017 – Contract Award – SKC Construction, Inc. for the 2022 Crack Sealing Program for a Not to Exceed Amount of \$100,000.00
 - F. Resolution No. 22-R-0018 – Contract Award – Classic Landscape, Ltd. for the 2022 Right-of-Way (ROW) Maintenance Program (Base Bid + Alternate) for a Not to Exceed Amount of \$149,860.00
5. Items for Discussion
6. Unfinished Business
7. New Business
8. Reports from Staff
9. Adjournment

475 Main Street
West Chicago, Illinois
60185

T (630) 293-2200
F (630) 293-3028
www.westchicago.org

Ruben Pineda
MAYOR
Nancy M. Smith
CITY CLERK

Michael L. Guttman
CITY ADMINISTRATOR

CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

Draft

MINUTES

INFRASTRUCTURE COMMITTEE

February 3, 2022 7:00 P.M.

1. Call to Order, Roll Call, and Establishment of a Quorum. Chairman Beifuss called the meeting to order at 7:00 P.M. Roll call found Alderman James Beifuss present in-person at City Hall, and Aldermen Heather Brown, Sandra Dimas, Alton Hallett, Joe Morano, and Jeanne Short present via Zoom teleconference. Alderman Matt Garling was absent.

Staff present in-person included Director of Public Works Mehul Patel. Administrative Assistant Ashley Heidorn was present via Zoom teleconference. Mayor Pineda has determined that in-person meetings are not practical and prudent at this time.

2. Approval of Minutes

A. Infrastructure Committee Minutes of January 6, 2022. Alderman Brown made a motion, seconded by Alderman Morano to approve the Meeting Minutes of January 6, 2022.

Voting Yea: Aldermen Beifuss, Brown, Hallett, Morano, and Short. Voting Nay: 0. Abstaining: Alderman Dimas.

3. Public Participation / Presentations. None.

4. Items for Consent. Alderman Brown requested discussion on Consent Item B. Alderman Dimas made a motion, seconded by Alderman Brown to approve:

- A. Resolution No. 22-R-0003 – A Resolution for Maintenance of Streets and Highways by the City of West Chicago Relating to Fiscal Year 2022 MFT Estimate of Maintenance Costs
- C. Rejection of all Bids and Re-bid – Headworks Influent Gate Replacement Project at West Chicago/Winfield Wastewater Authority Regional Wastewater Treatment Plant

Roll call found the vote unanimous for approval. Voting Yea: Aldermen Beifuss, Brown, Dimas, Hallett, Morano, and Short. Voting Nay: 0.

5. Items for Discussion.

4.B. Resolution No. 22-R-0010 – Contract Award – Professional Engineering Design Service to Gewalt Hamilton Associates, Inc. for IL 38 and Technology Boulevard Traffic Signal Project. Alderman Brown wanted to know if the signals would have traffic sensors like similar lights along IL 38 since there are other nearby traffic signals in the area already. Mr. Patel explained that the signal would be interconnected with the signals at Washington Street and Kautz Road so the green lights are matching in the same direction, and IL 38 would have a longer green than Technology Boulevard. **Alderman Brown made a motion, seconded by Alderman Dimas to approve.**

Roll call found the vote unanimous for approval. Voting Yea: Aldermen Beifuss, Brown, Dimas, Hallett, Morano, and Short. Voting Nay: 0.

6. Unfinished Business. None.

7. New Business. Alderman Brown asked if it would be possible for the Aldermen to get some information about the agreement with Winfield regarding the Wastewater Treatment Plant, and if it would be possible to have more trees or foliage planted to help combat the odors produced by the Plant. Mr. Patel explained that the contribution of each municipality is based on the amount of flow to the Plant from each. It typically ends up being around 72-73% from West Chicago and the remaining from Winfield, so the costs are split similarly. Part of the headworks project referenced in Consent Item C was meant to address the odor control issue, but as it has been rejected and will be re-bid, staff will be looking into it in more detail.

8. Reports from Staff. Mr. Patel advised the Committee that some of the structural rehabilitation work on 200 Main Street will begin in mid-February, with the masonry work to follow sometime in April. Roofing work will also be done, and the project will hopefully be completed by the end of August. Interior buildout of the commercial stories will then come before the Committee sometime around July or August.

Mr. Patel also noted there is a four-inch water main on Bishop Street that is undersized for the area and has a history of breakage. Staff will be adding that scope of work to the Fair Meadows Subdivision Project, which is a CDBG project. Staff reached out to DuPage County, and it is anticipated that the County will cover \$200,000.00 of the anticipated \$300,000.00 for that additional work. The revised agreement will likely be brought before the Committee in April, along with an award for the Stockberry Lane and Grove Avenue Resurfacing Project.

The City also recently went out to joint-bid for the Crack Sealing Program, which should come before the Committee in March. The Lift Station No. 5 Project should also be coming to the Committee in April following some redesign of the generator size.

Mr. Patel also made a special mention of the Public Works staff for a job well done during the recent snow event. Aldermen Beifuss and Hallett both commented that West Chicago's streets were cleaner than neighboring areas as well as the State roads nearby.

9. Adjournment. At 7:15 P.M., Alderman Hallett made a motion to adjourn, seconded by Alderman Brown. Roll call found the vote unanimous for approval.

Respectfully submitted,

Ashley Heidorn
Administrative Assistant of Public Works

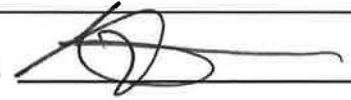
CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

An Ordinance Amending the Municipal Code, Chapter 15, Article VI – General Standards for Small Wireless Facility Design, Stealth, and Concealment

Ordinance No. 22-O-0002

AGENDA ITEM NUMBER:4.A**FILE NUMBER:****COMMITTEE AGENDA DATE:** Feb 3, 2022**COUNCIL AGENDA DATE:****STAFF REVIEW:** Tom Dabareiner, AICP**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael Guttman**SIGNATURE****ITEM SUMMARY:**

In December of 2019, the City Council approved Ordinance No. 19-O-0038, which provided a comprehensive amendment to the City's cell tower siting regulations in Chapter 15 of the Municipal Code. When the Infrastructure Committee reviewed the proposed amendment, the Committee requested that staff develop a design, stealth, and concealment ordinance for small wireless facilities to supplement the new siting regulations. As was done with the development of the comprehensive ordinance in 2019, the City contracted with Municipal Services Associates, Inc. to prepare this ordinance. The consultant has prepared a draft ordinance based on input from both Community Development and Public Works.

Highlights from the Ordinance include:

- Minimum height of eight feet from grade for all antennas and related mounting equipment.
- Maximum height of 45 feet from grade and maximum height of ten feet above the existing pole if it is attached.
- Restrictions for allowable coverings such as cylinders, caps, shrouds, and shields.
- Required color schemes to be neutral or closely identical to supporting structure.
- Prohibition of lighting on top of antennas, unless required by state or federal law.
- Power meters proposed in a right-of-way require review and approval by Public Works.
- Antennae must appear hidden within the utility pole or to appear as an original part of the pole.
- Required review by Public Works for mounting on City-owned infrastructure.
- Required review by Community Development for new wireless support structures.
- Location and setback requirements.
- Regulations for small cell facilities in Historic Districts and Landmarks.

The proposed Ordinance will complement the City's existing regulations for small cell tower siting and are consistent with design standards other municipalities in the region have adopted. Staff recommends approval of the proposed ordinance.

ACTION PROPOSED:

Approval of the proposed Ordinance for Small Wireless Facility Design, Stealth, and Concealment

COMMITTEE RECOMMENDATION:

Attached: Draft Ordinance

ORDINANCE NO. 22-O-0002

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE CITY OF WEST CHICAGO – CHAPTER 15 (PUBLIC WAYS), ADDING A NEW ARTICLE VI – GENERAL STANDARDS FOR SMALL WIRELESS FACILITY DESIGN, STEALTH, AND CONCEALMENT, SECTION 15-68 – 15-77

WHEREAS, the City of West Chicago (the “City”) is a home-rule municipality pursuant to Article VII, Section 6, of the Constitution of the State of Illinois, and as such is authorized to take all reasonable action pertaining to its affairs in accordance therewith; and

WHEREAS, the City is further authorized under the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*, and Illinois law to adopt ordinances pertaining to the public health, and safety and welfare; and

WHEREAS, the City is further authorized to adopt the amendments contained herein pursuant to its authority to regulate the public right-of-way under section 11-80-1 *et seq.*, of the Illinois Municipal Code; and

WHEREAS, the City uses public right-of-way within its City limits to provide essential public services to its residents and businesses. The public right-of-way within the City is a limited public resource held by the City for the benefit of its citizens and the City has a custodial duty to ensure that the public right-of-way is used, repaired, and maintained in a manner that best serves the public interest; and

WHEREAS, growing demand for personal wireless telecommunications services has resulted in increasing requests nationwide and locally from the wireless industry to place small cell facilities, distributed antenna systems, and other personal wireless telecommunications facilities on utility and street light poles and other structures in the public right-of-way. While State and federal law limit the authority of local governments to enact laws that unreasonable discriminate among providers of functionally equivalent services, prohibit, or have the effect of prohibiting the provision of telecommunication services by wireless services providers, the City is authorized, under existing State and federal law, to enact appropriate regulations and restrictions relative to small cell facilities, distributed antenna systems, and other personal wireless telecommunication facility installations in the public right-of-way; and

WHEREAS, in anticipation of continued increased demand for placement of small cell facilities, distributed antenna systems, and other personal wireless telecommunication facility installations in the public right-of-way, the City Council finds that it is in the best interests of the public health, safety and general welfare of the City to adopt the Ordinance below to establish general standards for small wireless facility design, stealth, and concealment.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of West Chicago, Illinois, as follows:

Section 1. Recitals. The facts and statements contained in the preambles to this Ordinance are found to be true and correct and are hereby adopted as part of this Ordinance.

Section 2. Adoption. Chapter 15 of the Code of Ordinances of the City of West Chicago shall be amended by the adoption of a new Article VI as stated herein, which will read as follows:

“ARTICLE VI.
GENERAL STANDARDS FOR SMALL WIRELESS FACILITY DESIGN, STEALTH, AND
CONCEALMENT

Sec. 15-68 Purpose and scope.

The following standards for design, stealth, and concealment apply to the placement of small wireless facilities within the City. Every small wireless facility collocation shall comply with the standards contained in this Article.

Sec. 15-69 Definitions.

Small Wireless Facilities are defined and are regulated by Chapter 15, Article V of the Municipal Code and all terms used herein are as defined in that Chapter.

Sec. 15-70 Height.

- (1) Antennas and their related mounting equipment shall locate the base of the equipment or appurtenances, including, but not limited to, power disconnection boxes, fiber optic connection boxes, and radio support units, at a height no lower than eight (8) feet above grade as measured to the lowest point of installation.
- (2) No aboveground wireless facility shall exceed a height of forty-five (45) feet above ground level (AGL) or more than ten (10) feet above the highest point of the utility pole or wireless support structure, or city-owned infrastructure, as required by the Illinois Small Wireless Facilities Deployment Act (50 ILCS 840/15(d)(5)).
- (3) The height of a proposed utility pole that includes the antennas of a small wireless facility, shall match the pole height of utility poles in an area surrounding the location of the proposed utility pole no more than two hundred feet (200') in diameter. A proposed utility pole that includes a small wireless facility may be no higher or no lower than other utility poles of the same type within the surrounding area.

Sec. 15-71 Antennas.

- (1) Antennas shall, to the extent technically feasible, be designed and installed to appear hidden within the utility pole or to appear like an original part of the utility pole or wireless support structure. A wireless provider may use coverings such as radome cylinders, caps, shrouds, shields, or other design elements to comply with this section. A radome or shroud enclosure shall be not more than six (6) cubic feet in volume, and shall be capable of accepting paint to match the approved color of the small wireless facility. Such covering should not result in a larger or more noticeable facility.

- (2) Each antenna, including coverings and all support equipment, shall be of a neutral color identical to, or closely compatible with, the color of the supporting structure so as to minimize visual obtrusiveness.
- (3) Where an approved antenna has elements that are exposed, including panels, jumper cables, and mounting equipment, the antenna and all of its exposed elements shall be able to fit within a conceptual enclosure of no more than six (6) cubic feet.
- (4) Top-mounted antennas shall be mounted directly to the top of the utility pole with a smooth transition between the antenna mount and the utility pole or wireless support structure. Antenna installations requiring a vertical extension arm or a horizontal arm extending more than three (3) feet beyond the diameter of the utility pole or wireless support structure at the level of the antenna attachment shall require approval by the Director of Public Works or his or her designee.
- (5) Side-mounted small wireless facility antennas within a shroud enclosure and side-mounted small wireless facility equipment enclosures shall be, if possible, flush mounted to the utility pole or wireless support structure at the level of the attachment.
- (6) Side-mounted antennas shall be mounted on the side of the utility pole or wireless support structure at a 90-degree angle from the right-of-way and opposite the direction of vehicular traffic traveling along the same side of the right-of-way.
- (7) Unless otherwise required by applicable federal or state law, antennas mounted to the top of a utility pole or wireless support structure shall not contain lighting or marking of any kind.
- (8) The City shall encourage wireless providers to utilize integrated antenna and radio units whenever possible in order to improve the appearance of the utility pole or wireless support structure.

Sec. 15-73 City-Owned Infrastructure

- (1) All small wireless facilities installed on City-owned infrastructure shall be mounted on existing street lights, unless otherwise approved by the Director of Public Works or his or her designee. In the event that new wireless support structures are proposed, the support structure shall be proposed to include a street light unless otherwise approved by the Director of Public Works or his or her designee.
- (2) Small wireless facilities located on street light poles or traffic control structures shall be designed to prevent the blocking of light emanating from the street light fixture or traffic control structure.
- (3) Small wireless facilities attached to a street light pole, traffic control structure, or other City-owned utility pole shall be attached to the pole or structure using rigid steel clamping mounts or stainless steel banding to the exterior of any metal pole. All mounts and banding shall be the same color as the pole or structure, except as otherwise approved

by the Director of Public Works or his or her designee. Care should be taken to integrate the mounting elements into the small wireless facility design. Through-bolting or lag bolts on City-owned poles or structures are prohibited.

(4) For attachments to existing City-owned utility poles or wireless support structures, wires serving the small wireless facility shall be concealed within the hollow interior of the utility pole, or wireless support structure, or if concealment is not technically feasible, flush mounted to an existing utility pole in an enclosed wire riser on which the facilities are collocated. The color of the enclosed wire riser shall match the color of the pole. For new utility poles or wireless support structures, wires serving the small wireless facility shall be concealed within the hollow interior of the utility pole or wireless support structure.

(5) Any new utility pole proposed by a wireless carrier that includes a street light luminaire shall provide photometric calculations prepared by the manufacturer of the luminaire illustrating the spread of light distribution from the luminaire.

(6) Small wireless facilities collocated on City-owned utility poles shall not use the same power or communication source providing power and/or communication for the existing infrastructure, except as otherwise provided by the Director of Public Works or his or her designee. Power for the small wireless facilities equipment, shall be sheathed in a separate HDPE conduit from power lines serving the street light or other municipal facility. The conduit shall rise through the interior of the pole unless it is determined by the City that an exterior installation of the conduit is acceptable. The wireless provider shall bundle its wires concealed inside the pole using zip ties or other fasteners allowed by the National Electrical Code, and shall provide color coded tags identifying their wires that are located immediately inside the access portal of the pole. The wireless provider shall coordinate, establish, maintain, and pay for all power and communications connections with private utilities, provided, however, a separate power meter for the small wireless facility proposed for location and installation in the Right-of-Way shall require the review and approval of the Director of Public Works or his or her designee.

(7) The City will not authorize any attachments of small wireless facilities to a City-owned utility pole that negatively impacts the structural integrity of the pole. The City may condition approval of the collocation on replacement or modification of the City-owned utility pole if necessary to meet municipal standards

(8) Replacement of Existing Street Light Poles. The following standards apply when replacing an existing street light pole, including ornamental lighting, with a combination of a small wireless facility and a street light pole. Such replacements should only be located where an existing street light pole can be removed and replaced, or at a new

location where it has been identified by the Department of Public Works that a new street light is necessary. All such replacements shall meet the following standards:

(a) All replacement street light poles shall conform to a design or designs provided by the City as part of its Design Standards, as may be amended from time to time, unless an alternative design is approved by the Director of Public Works or his or her designee.

In areas where the City-approved designs set forth in the City Design Standards are not applicable, replacement street light poles shall be of a similar design, material, and color as the replaced existing street light pole and other poles within the immediate vicinity as established by the City Design Standards, unless an alternative design is approved by the Director of Public Works or his or her designee. The additional City Design Standards may be amended from time to time.

(b) All replacement street light poles and pole foundations shall conform to the City's standards and specifications for street light design and construction, unless an alternative design is approved by the Director of Public Works, or his or her designee. Street light pole height shall be measured from the ground to the top of the street light pole. All replacement street light pole heights shall be consistent with those of existing street lights.

(c) Replacement street light poles shall be an equal distance from other street light poles based upon the average distance between existing street light poles within the designated area and shall adhere to the photometric standard established by the additional City Design Standards, as amended from time to time.

(d) Street light poles shall be designed and engineered to support a luminaire and, if applicable, a mast arm of length equal to that of the mast arm and luminaire that is being replaced. For a new street light pole, the mast arm and luminaire shall be of a length that exists on street light poles in the immediate area, or of a length approved by the Director of Public Works or his or her designee.

(e) All luminaires and mast arms, if applicable, shall match the arc and style of the original luminaire and mast arm, unless otherwise approved by the Director of Public Works or his or her designee.

(f) The replacement luminaire and mast arm shall be at the same height above

the ground as the existing luminaire and mast arm.

(g) All replacement street light poles shall have new light-emitting diode (LED) light fixtures of the same manufacturer, model and light output as the removed fixture and nearby light fixtures, or as otherwise approved by the Director of Public Works or his or her designee.

(h) Replacement street light poles shall have a five (5) year manufacturer's replacement warranty.

(i) Replacement street light poles shall meet American Association of State Highway and Transportation Officials (AASHTO) structural guidelines for roadway applications and the American National Standards Institute (ANSI) requirements for vibrations.

(j) The small wireless facility components shall be sized appropriately to the scale of the street light pole. Components that are excessive in weight or size, including multiple components of the same type, in relation to the scale of the street light pole, shall not be allowed.

(k) A decorative transition shall be installed over the equipment enclosure upper bolts, or a decorative base cover shall be installed to match the equipment enclosure size. All hardware connections shall be hidden from view. Each street light pole component shall be architecturally compatible to create a cohesive aesthetic.

(l) Replacement street light poles shall continue to be owned by the City. Poles that have been replaced by wireless providers that were the property of the City shall be returned to the Department of Public Works.

(m) New utility poles proposed by a wireless carrier shall meet the standards for poles established by the City for that area of the City where the proposed pole is to be located. All new utility poles that include a small wireless facility shall be mounted on a concrete foundation, including anchor bolts, that is buried no more than twelve (12) feet below grade.

The City may require the wireless carrier to suspend its application for any small wireless facility to be located on a pole that does not meet City standards for design, appearance, or foundation mounting, until the wireless carrier proposes a pole that meets City standards, that are of a design and appearance that are jointly agreed upon by the City and the wireless carrier, or that will be mounted and anchored to a concrete foundation buried below grade.

(n) Damages and Indemnification.

(i) City-owned utility poles that are damaged by the wireless carrier or by a third party, including “Knock-downs” shall require the replacement of the utility pole, including all re-installations and attachments. The wireless provider shall have a procedure in place prior to approval of its permit application regarding notification of its Network Operations Center, or other type of alarm system, in the event of a service outage or pole “Knock-down.” The City shall not be responsible for notifying the wireless provider of a disruption in service due to a pole “Knock-down”, pole collapse, or other type of physical disruption of service. The replacement of the pole, including attachments, its cost, and the cost of replacing any City infrastructure that is attached to the pole (e.g., street light arm, luminaire, street signs) shall be the responsibility of the wireless carrier or that of the third party that incurred the damage to the utility pole.

(ii) In the event that an uninsured third party incurs damage to a utility pole containing a street light or other City-owned infrastructure, the City may seek any remedy to recover its losses and costs that are available to it at law or in equity.

(iii) Where such damage to City-owned infrastructure is caused by a wireless provider, a wireless provider shall indemnify and hold the City harmless against any and all liability or loss from personal injury or property damage resulting from or arising out of, in whole or in part, the use or occupancy of the wireless provider’s improvements or right-of-way associated with such improvements by the wireless provider or its employees, agents, or contractors arising out of the rights and privileges granted under a Right-of-Way Use Agreement between the City and the wireless provider, and the Small Wireless Facilities Deployment Act.

(9) In the event that the relocation of a small wireless facility located on a utility pole is necessitated by a City infrastructure improvement, the City shall provide written notice to the wireless carrier no later than one hundred eighty (180) days prior to the first day of the month of scheduled construction of the infrastructure improvement. The wireless carrier shall relocate its small wireless facilities within one hundred fifty (150) days from date of notification to a location that shall not interfere with the planned infrastructure improvement, and the wireless carrier shall notify the City in writing upon completion of the relocation. The wireless carrier shall notify the City in writing of its intent to relocate the facility to its original location upon receiving written notification from the City of the completion of the infrastructure improvement. The wireless carrier shall relocate its facility at its own expense.

Sec. 15-74 Stealth and Concealment Requirements.

Wireless providers shall comply with the design and construction standards that are generally applicable to utility installations in the public right-of-way as set forth in Chapter 15, Article III of the Municipal Code (Construction of Utility Facilities in the Rights-of-Way). In addition, wireless providers shall comply with these standards, any other written design standards for decorative utility poles, or reasonable stealth, concealment, and aesthetic requirements that are otherwise identified by the City in an ordinance, written policy adopted by the City Council, in the City's comprehensive plan, or in another written design plan that applies to other occupiers of the rights-of-way, including on a historic landmark or in a historic district, and any requirements adopted pursuant to the Illinois State Agency Historic Resources Preservation Act or the National Historic Preservation Act of 1996, 54 U.S.C. Section 300101*et seq.*, and the regulations promulgated to implement those laws.

(1) The use of stealth applications in the location and construction of small wireless facilities is required wherever and whenever possible. Stealth applications mean using the least visually and physically intrusive design and equipment that are not technologically or commercially impracticable under the facts and circumstances, to employ methods that blend into surroundings and not be visible, and to minimize aesthetic and visual impacts on the right-of-way, property, buildings and/or other facilities adjacent to surrounding and, in generally the same area as the requested location of such small wireless facilities. The wireless provider shall use the smallest suitable wireless facilities then in industry use, regardless of location, for the particular application.

(2) Color: Small wireless facilities, including, but not limited to, antennas, radios, equipment enclosures, mounting brackets and hardware, posts, cables, shrouds or other coverings, and cables, shall be of a color that is identical to the utility pole or wireless support structure, or of a neutral color that is compatible with the color of the utility pole or wireless support structure, and any surrounding elements so as to camouflage or conceal their appearance, create consistency among right-of-way infrastructure, and to make such small wireless facilities as unobtrusive as possible. The Director of Community Development, or his or her designee, may approve compatible color schemes for antennas and other components of small wireless facilities. A clear, color digital photo simulation of the utility pole or wireless support structure location providing "Before and after" views demonstrating the true visual impact of the proposed small wireless facility on the surrounding environment shall be included in the application.

(3) Underground and Pole-Mounted Concealment: Mechanical equipment and devices shall be concealed underground, mounted within a concealment box designed as a decorative pole base, or within unobtrusive equipment enclosures or other devices buried in an underground handhole with a flush-to-grade covering, or mounted directly to the pole or wireless support structure at a minimum of eight (8) feet AGL and screened

by means of City-approved banners or other approved concealment methods.

(4) Equipment Mounted Above Ground: Equipment included in a small wireless facility that is mounted above ground, such as radios, battery boxes, power distribution equipment, signal routing and processing equipment, Ethernet switches and fiber optic interface connections, shall be installed in accordance with the requirements concerning placement and screening of aboveground mounted equipment described in Article III, Section 15-23 and Article V, Section 15-62 of the Municipal Code.

(5) Blockage: Small wireless facilities must be located and oriented in such away as to minimize view blockages as established by Municipal Code requirements and additional City design standards.

(6) Landscaping and Fencing: Additional landscaping and fencing shall be required to help mitigate the effects of the installation of any ground-mounted equipment. The wireless provider shall coordinate with the Director of Public Works to identify a mutually agreed upon solution. All ground-mounted equipment must be fully screened at all times.

(7) Alternative Measures: Alternative measures for stealth or concealment may be proposed by the wireless provider and approved by the Director of Community Development or his or her designee, if the Director of Community Development or his or her designee determines that the optional measures will be at least as effective in concealing the small wireless facilities as the measures stated hereinabove.

Sec. 15-75 Historic Districts and Landmarks

For the East Washington Street Historic District and the Turner Junction Historic District that have been designated as such by the City Council, or on buildings or structures designated as historic landmarks, in addition to the stealth, concealment, and design standards referenced above, the following additional restrictions/conditions shall apply to the installation of small wireless facilities.

(1) Small wireless facilities shall consist of materials that are consistent with the surrounding elements so as to blend architecturally with any buildings or structures designated as historic landmarks or located within a designated historic district, and shall be designed to blend in with the surrounding historical landmarks or district in design and color.

(2) Small wireless facilities shall not be mounted upon any structure designated as a historic landmark.

(3) No ground-mounted equipment enclosures shall be permitted within a designated historic district except as approved by the City as stealth installations.

(4) Small wireless facilities shall not be mounted upon City-owned ornamental street lights except in cases where the equipment enclosure is concealed within the base of the ornamental street light, and the antenna and its related shroud is incorporated in a seamless enclosure on the top of the ornamental street light, pursuant to these design standards and as approved by the Director of Community Development or his or her designee.

(5) No Prohibition of Wireless Provider's Technology: The above design or concealment measures with respect to a historic district or historic landmark, including restrictions on a specific category of utility poles, may not have the effect of prohibiting any provider's technology. Such design and concealment measures shall not be considered a part of the small wireless facility for purposes of the size restrictions of a small wireless facility.

(6) Enforcement of State and Federal Historic Preservation Regulations: These standards shall not be construed to limit the City's enforcement of historic preservation in conformance with the requirements adopted pursuant to the Illinois State Agency Historic Resources Preservation Act or the National Historic Preservation Act of 1966, 54 U.S.C. Section 300101 et seq., and the regulations adopted to implement those laws.

Sec. 15-77 Severability.

Each section, paragraph, clause, and provision of these guidelines and standards is severable and if any portion is held unconstitutional or invalid for any reason by a court of competent jurisdiction, such decision shall not affect the remainder of these guidelines and standards, nor any part thereof, other than that part affected by such decision."

Section 3. The findings and recitals herein are declared to be prima facie evidence of the law of the City and shall be received in evidence as provided by the Illinois Compiled Statutes and the courts of the State of Illinois.

Section 4. Effective Date. This Ordinance shall be in full force and effect ten (10) days from and after its passage, approval and publication in pamphlet form as provided by law.

Section 5. All ordinances and resolutions, or parts thereof, in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby appealed.

PASSED, this ____ day of _____, 2022.

Alderman L. Chassee	_____	Alderman J. Beifuss	_____
Alderman J. Sheahan	_____	Alderman H. Brown	_____
Alderman A. Hallett	_____	Alderman C. Dettmann	_____
Alderman S. Dimas	_____	Alderman M. Birch-Ferguson	_____
Alderman C. Swiatek	_____	Alderman M. Garling	_____
Alderman R. Stout	_____	Alderman J. Short	_____
Alderman J. Jakabcsin	_____	Alderman J. Morano	_____

APPROVED as to form: _____

City Attorney

APPROVED this ____ day of _____, 2022.

Mayor, Ruben Pineda

ATTEST:

Nancy M. Smith, City Clerk

PUBLISHED: _____

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0012 – Approval of a Contract with the Layne Company for Professional Services Related to the Rehabilitation of the Pump and Motor Assembly Associated with the City's Well Station No. 6 for an Amount Not to Exceed \$162,015.00

AGENDA ITEM NUMBER:4.B.**COMMITTEE AGENDA DATE:** March 3, 2022**COUNCIL AGENDA DATE:** March 21, 2022**STAFF REVIEW:** Mehul T. Patel, P.E., CFM, Director of Public Works**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE****ITEM SUMMARY:**

Well No. 6, located at 525 Industrial Drive, is one of the four City-owned shallow wells. The pump and motor assembly is a Byron Jackson assembly installed in 1987. The well pump operates at a depth 211' below ground, and is rated to pump approximately 850 gallons per minute (gpm). The well is powered by a 75 HP Byron Jackson Type H submersible motor with a mercury seal.

Starting in the spring of 2018, Well No. 6 began exhibiting decreased performance. Currently, the well output has decreased to 670 gpm. Based on the decrease in performance, Well No. 6 is currently in need of inspection and rehabilitation. If left unchecked, the well assembly will likely experience complete failure or, in the worst case, the column pipe may separate and drop the assembly to the bottom of the casing. A casing is the pipe structure that is placed in the hole drilled in the earth to maintain the well opening.

The City has multiple Byron Jackson assemblies at various well sites. Typically, these assemblies have lasted 15 to 20 years before needing rehabilitation. Well Station No. 6 was last serviced in 2008. Please note Layne Company (Layne) is the only company that can provide a Byron Jackson factory authorized service person. Due to their history of being a factory-authorized sales and service representative for Byron Jackson pumps and motors (including those containing mercury seals), as well as its satisfactory history of servicing the City's well assemblies, staff solicited a proposal from Layne of Aurora, Illinois, to pull and rehabilitate the Well No. 6 Assembly (see attached proposal).

Layne's proposal includes a complete rebuild and rehabilitation of the existing well equipment including a television survey of the well casing. The estimated total for these services is \$93,215.00. One additional item addressed in Layne's proposal is replacement of the well motor, if needed. The existing motor has a mercury seal system that needs to be inspected before reinstallation. If inspection determines the mercury seal has failed and cannot be reused, a factory exchange replacement motor with mechanical seal has been quoted at a net cost of \$68,800.00, for a total project cost estimate of \$162,015.00. At this time staff does not foresee a need to replace the motor.

City staff recommends the rehabilitation of the well assembly associated with Well Station No. 6 before the start of peak summer water system demand. Staff requests that a professional services contract be awarded to the Layne Company of Aurora, Illinois, related to the rehabilitation of the pump and motor assembly at the City's Well No. 6, for an amount not to exceed \$162,015.00. This is a budgeted item at

CITY OF WEST CHICAGO

\$500,000.00 in Water Fund Account #06-34-47-4420. Please note Well No. 5 is located on this site and is in need of similar maintenance work. Staff will be presenting these projects to City Council as separate resolutions since both wells are independently operating pieces of equipment. Well No. 5 will also be billed to the same Account. The cost of Well No. 5 is not to exceed \$317,960.00.

ACTIONS PROPOSED:

Approve a Resolution No. 22-R-0012 authorizing the Mayor to execute a contract with Layne Company for professional services related to the rehabilitation of the pump and motor assembly associated with the City's Well No. 6 for an amount not to exceed \$162,015.00.

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0012

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A
CONTRACT AGREEMENT WITH LAYNE COMPANY
FOR PROFESSIONAL SERVICES RELATED TO THE
2022 WELL STATION NO. 6 REHABILITATION PROJECT**

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a Contract Agreement for Professional Services related to the 2022 Well Station No. 6 Rehabilitation Project, between the City of West Chicago and Layne Company, for an amount not to exceed \$162,015.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 21st day of March, 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez



January 24, 2022

City of West Chicago
475 Main Street
West Chicago, IL 60185

Attn: Rocky Horvath, Water Superintendent

Re: Well No. 6 – 75HP Byron Jackson Type H Submersible pump repair

Rocky,

Per your request, we submit this letter as our proposal for the pulling, repairs, and reinstallation of the 75HP Byron Jackson submersible pump in Well No. 6. The pulling would be done to determine the reason for the decrease in the well production, that the City has noticed.

The 75HP Byron Jackson submersible pump consists of a Baker pitless adapter, approximately 203' of 6" T&C line pipe, #1/0, 600V power cable, 1-6" surge control valve, a 6 Stage - 11MQL all bronze Byron Jackson bowl assembly, and a 75HP, 10", 4 pole, Type H Byron Jackson submersible motor.

Layne installed the new 75HP Byron Jackson submersible pump in 1987. Layne performed subsequent repairs in 1994 and 2007/2008. In the last repair, the 75HP Byron Jackson motor was serviced, the all bronze bowl assembly was rebuilt, a new pitless spool was furnished, a new flat cable installed, and all new coated pipe was installed.

Well No. 6 was drilled in 1980 by Hoover Water Well Service out of Zion, IL. The well was cased with 12" steel pipe to a depth of 71' followed by 12" open hole to the reported, finished depth of 325'. In the 2008 pump repair, we noted that the total depth was 305'. In 2008, we also had an issue with the pump hanging up during reinstallation with approximately 106' of pipe installed (along with the motor and bowl assembly). This is well below the bottom of the 12" casing, so there must be a dog leg in the well at this point. This caused the removal of the pump to repair the scraped up cable. We will assume that we can deal with the dog leg issue during the next repair with no issues.

Due to the nature of the situation, an exact cost cannot be determined until the pump has been pulled and inspected. However, for our proposal, we have developed the list below, which includes all items that we believe will be required, as well as some items

WATER RESOURCES

that may be needed on this 75HP, Type H 460-volt Byron Jackson submersible well pump.

- Mobilization to the site, pull the pump, briefly inspect on-site and measure the total depth and static water level.
- Television Survey of the well to check the integrity of the well casing and open borehole.
- Disassemble, inspect & probable rebuilding of the Byron Jackson bronze bowl assembly.
- Mobilize 6" column pipe to our yard; sandblasting for inspection; and remobilize back to site.
- Possible 6" T&C pipe repairs and re-epoxy coating, inside and out.
- Service the Byron Jackson motor – change oil, epoxy coat exterior, check the seal float, etc.
- New materials contingencies.
- Reinstallation of the pump, including a test of the well and pump.

Please note that the 75HP Byron Jackson Type H mercury motor seal should be balanced, and the motor dewatered in accordance with our exclusive procedure. This will allow the motor to be put in the proper shipping position with the mercury seal secured and will minimize the potential for water entering the motor windings, which would result in damage to the motor.

Only Layne can provide a Byron Jackson factory authorized serviceman to complete this procedure properly. As a result of the new July 1, 2012, IEPA guidelines, we no longer conduct the seal servicing or motor dewatering over the well. To our knowledge Layne is the only contractor in the country that is currently utilizing a sealed motor service containment module that is transported to the project site to meet the new IEPA regulations. Our work will include COMPLETE adherence to these regulations.

A pump repair of this type is normally performed on a time and material basis. With this outdoor set-up, we would utilize a medium-sized Pump Service Rig and crew of 2 Men.

The listing of the items for our T&M estimate is broken down as follows:

• Mobilization, pulling, and brief inspection on the site with pump service crew	\$11,000.00
• Hydro crane and crew to load and haul bowl, cable, motor, etc. to yard	\$1,200.00
• Disassemble, clean, & inspect all bronze bowl assembly	\$1,750.00
• Sandblast 6" pipe for inspection	\$1,800.00
• Complete servicing of 75HP Type H Byron Jackson motor, by Byron Jackson certified technician	\$5,300.00
• Hypot check of cable, lump sum	\$1,175.00
• Television survey of well, lump sum	\$1,600.00
• Rebuild 6 Stage – 10MQL Byron Jackson all bronze fitted bowl assembly, <i>if required.</i>	\$9,000.00
• Refurbish Baker pitless adapter spool	\$2,000.00
• Miscellaneous materials, such as, sodium hypochlorite, HTH tablets, stainless steel banding and buckles, etc.	\$750.00
• Mobilization of bowl, cable, and motor to site and unload	\$1,700.00
• Pump service crew for reinstallation of pump, testing, and demobilization	\$13,500.00

• Power tong usage, per 8-hour shift – est. 4 at \$460.00	\$1,840.00
• Byron Jackson flat cable assembly	\$6,600.00
• 6" T&C replacement pipe contingency, 220 ft. @ \$48.00/ft.	\$10,560.00
• New No. 1/0, 600V jacketed power cable, 230 ft. @ \$23.00/ft	\$5,290.00
• 1 – 6" surge control valve @ \$1,250.00 ea.	\$1,250.00
• 5 – 6" API Pipe couplings @ \$168.00 ea.	\$840.00
• Cutting & rethreading of an estimated 10 non-coupling pipe ends.	\$2,500.00
• Mobilization of pipe, to & from our Aurora yard	\$3,800.00
• Sandblasting & epoxy coating of the 6" pipe, inside & out – 220' @ \$33/ft.	\$7,260.00
• Miscellaneous Repairs Contingency	\$2,500.00
TOTAL ESTIMATED COST	\$93,215.00

We assume the pump can be pulled in a normal fashion without the need for any fishing for its removal from the well.

Since the motor is currently operating satisfactorily, the above pricing schedule is based upon the 75HP motor being *reusable* and completely serviceable, utilizing our unique, multi-step Byron Jackson Type H motor servicing procedure.

If there are issues with the motor, requiring it be sent back to Flowserve/Byron Jackson for teardown & inspection, then a Byron Jackson 75HP factory exchange, Type M motor may be required. If so, the NET price to the City would be \$68,800.00, which includes the \$7,250.00 credit for the City's motor and shipping costs. The estimated time frame for the factory exchange motor would be at least 12-14 weeks, after the City's Motor is inspected.

Once the pump has been removed, cleaned, & inspected, *Layne would provide an updated repair cost estimate BEFORE proceeding with any repairs.* Of course, if we encounter something needed that is out of the ordinary, we will include that in the updated estimate. This has been standard practice on the many repairs performed for the City in the past.

One possible item NOT listed in the pricing schedule is the need for any well rehabilitation. We suggest the City review the recent flow & drawdown readings to check the present specific capacity.

This proposal includes current pricing for any new 6" T&C line pipe needed. Our suppliers' quote is valid for only 7 days, so there is potential for an increase in the unit price when the job is executed (perhaps even a decrease is possible? We can hope).

The time to execute this work, of course, depends upon what work is done. But if the motor is reusable and we can completely service it in our Aurora Service Center as part of this repair, we would estimate the following time frames:

- Mobilize, pull & inspect. – 2 weeks
- Repairs – 4 to 6 weeks
- Reinstallation and testing – 1 week.

Our current rig schedule would allow us to start this work in 2 to 3 weeks.

We appreciate the opportunity to submit this proposal and hopefully it meets your favorable response. If you have any questions, please don't hesitate to contact us.

Yours very truly,

Michael McDonald
Michael McDonald
Account Manager
Layne Christensen Company

Thomas P. Healy
Thomas P. Healy, P.E.
Sr. Project Manager
Layne Christensen Company

TPH

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0013 – Layne Company – Approval of Contract for Professional Services Related to the Rehabilitation of the Pump and Motor Assembly Associated with the City's Well Station No. 5 for an Amount Not to Exceed \$317,960.00

AGENDA ITEM NUMBER:4.C.**COMMITTEE AGENDA DATE:** March 3, 2022**COUNCIL AGENDA DATE:** March 21, 2022**STAFF REVIEW:** Mehul T. Patel, P.E., CFM, Director of Public Works**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE****ITEM SUMMARY:**

City's Well No. 5, located at 525 Industrial Drive, is one of the five City-owned deep wells. It is the City's oldest well in operation. The well assembly consists of a Gould's Pump and Sunstar Motor with a mechanical seal, set at a depth of approximately 750 feet. The well is rated to pump 900 gallons per minute (gpm). The Well was constructed in 1967 and was last serviced in 2008. The 2008 project included replacement of the motor assembly, which had failed. Starting in 2018, Well No. 5 began to exhibit a decline in capacity (gpm). The well capacity is currently 650 gpm. Reduced capacity is indicative of an overall problem with the well assembly. If left unchecked, the well assembly may experience complete failure or, in the worst case, the column pipe may separate and drop the assembly to the bottom of the casing. A casing is the pipe structure placed in the hole drilled in the earth to maintain the well opening.

Due to the observed performance issues, an inspection and service is required. Well No. 6, also located at 525 Industrial Drive is slated for rehabilitation in 2022. Well No. 6 is being presented as a separate project as both wells are separate, self-contained pieces of equipment. Layne is the sole source for the repairs to Well No. 6 due to its use of a mercury seal system.

Due to its history servicing Well No. 5 and original equipment installation, staff solicited a proposal from the Layne Company to pull, inspect, and rehabilitate both well assemblies. Staff has also been satisfied with Layne's work to date. Layne's proposal includes a complete rebuild and rehabilitation of the existing well equipment, including a television survey of the well casing. This proposal also contains estimated provisions for new column pipe, cable, cleaning and re-coating of the existing column pipe, and an overall inspection of all well components. In staff's negotiations with Layne, a cost savings has been provided if both wells are serviced at the same time. Awarding both contracts to Layne will provide mobilization and service savings to the City.

The estimated total cost for to rehabilitate Well No. 5 is \$195,960.00. One additional item addressed in this proposal is replacement of the well motor, if needed. We have had previous issues with the motor at this well site, and it will need to be inspected before reinstallation. This type of motor typically does not have a long life span. If the inspection determines the unit cannot be reused, a new motor has been quoted at \$122,000.00, for a total project cost of \$317,960.00. Following service, the well assembly will be re-installed, tested, and returned to service.

CITY OF WEST CHICAGO

City staff recommends the rehabilitation of the well assembly before the start of our 2022 peak summer water system demand. Staff requests that the City Council authorize the Mayor to execute a professional services contract with Layne Company, for an amount not to exceed \$317,960.00, for services necessary to remove, inspect, repair, re-install, test, and place the well assembly at Well Station No. 5. There is \$500,000.00 budgeted in the Water Fund (06-34-47-4420) for needed pump station repairs, which is adequate to rehabilitate Well No.5, including the replacement of the motor, if needed. Well No. 6 will also be billed to the same Account. The cost of Well no. 6 is not to exceed \$162,015.00.

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0013 authorizing the Mayor to execute a contract with Layne Company for professional services related to the rehabilitation of the pump and motor assembly at the City's Well No. 5 for an amount not to exceed \$317,960.00.

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0013

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A
CONTRACT AGREEMENT WITH LAYNE COMPANY
FOR PROFESSIONAL SERVICES RELATED TO THE
2022 WELL STATION NO. 5 REHABILITATION PROJECT**

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a Contract Agreement for Professional Services related to the 2022 Well Station No. 5 Rehabilitation Project, between the City of West Chicago and Layne Company, for an amount not to exceed \$317,960.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 21st day of March, 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez



January 24, 2022

City of West Chicago
475 Main Street
West Chicago, IL 60185

Attn: Rocky Horvath, Water Superintendent

Re: Well No. 5 – 250HP Submersible pump repair

Rocky,

Per your request, we submit this letter as our proposal for the pulling, repairs, and reinstallation of the 250HP Byron Jackson submersible pump in Well No. 5. The pulling would be done to determine the reason for the significant decrease in the well production, that you have noticed.

Layne originally installed a deep – set Layne and Bowler oil lubricated line shaft pump in Well No. 5. In 2002, the line shaft pump was converted to a 250HP, 480V submersible pump by Meadow Well and Pump. Approximately 11 – 12 years ago, Layne purchased the assets of Meadow's commercial division, which included all files on prior work performed. This included information on the 2002 conversion, as well as additional repairs in 2005 and 2008. In the 2008 repair, the 6 year old motor had failed. According to your records, this is the last time that the pump was pulled for repair.

According to the Meadow information, the submersible pump consists of a surface plate assembly, 745' of 8" T&C line pipe in single random lengths, a 5' - 8" stainless steel piece of pipe off the all bronze bowl assembly, 2 – 8" surge control valves, 500MCM jacketed power cable, an 11 Stage – 12CMC Goulds all bronze bowl assembly designed for 900GPM at 803' TDH, and a 250HP, 480V, 4 pole Sun Star submersible motor.

According to the Illinois State Water Survey Bulletin 60, Well No. 5 was drilled in 1967 by the Mileager Well and Pump Company out of Wisconsin. The original total depth of the well was 1376' and the well is cased with 20" OD pipe to 340' along with a 16" liner from 1029' to 1141'. After the well was drilled, the well was explosively shot with 1,050lbs the initial time, then 900lbs the second time. The original history of the well development is mentioned since the Meadow 2008 TV Survey was stopped short at 1,315' due to dangerous, large caverns threatening the retrieval of their television equipment. There were numerous, large caverns in the open borehole between 1,230' – 1,315' that represent potential for excellent production.

WATER RESOURCES

In their 2008 Television Survey Report, Meadow noted that the "16-inch liner is deteriorating and needs replacement". There really is *no way to provide a reasonable liner replacement estimate until the pump has been pulled and the well is televised*.

Due to the nature of the situation, an exact cost for the pump repair cannot be determined until the pump has been pulled and inspected. However, for our proposal, we have developed the list below, which includes all items that we believe will be required, as well as some items that may be needed on this 250HP, 480 volt submersible deep sandstone well pump.

- Mobilization to the site, pull the pump, briefly inspect on-site and measure the total depth and static water level.
- Disassemble, inspect & possibly rebuilding of the Goulds bronze bowl assembly.
- Mobilize 8" column pipe to our yard; sandblasting for inspection; and remobilize back to site.
- Possible 8" T&C pipe repairs and re-epoxy coating, inside and out.
- Inspect the Sun Star motor to determine if it is suitable for reuse.
- Television Survey of Well
- New materials contingencies.
- Reinstallation of the pump, including a test of the well and pump.

Pump repairs of this nature are normally performed on a time & material basis. We would typically use a Large Pump Service rig, along with a Large Truck Crane, with combinations of 2-, 3-, & 4-man crews.

The listing of the items for our T&M estimate is broken down as follows:

• Mobilization, pulling, and brief inspection on the site with pump service crew	\$42,500.00
• Hydro crane and crew to load and haul bowl, cable, motor, etc. to yard	\$1,700.00
• Disassemble, clean, & inspect all bronze bowl assembly	\$2,200.00

• Sandblast 8" pipe for inspection	\$3,500.00
• Inspection of 250HP Sun Star motor, in yard	\$1,200.00
• Hypot check of cable, lump sum	\$1,300.00
• Television survey of well, lump sum	\$1,750.00
• Rebuild 11 Stage – 12CMC all bronze fitted bowl assembly, <i>if required.</i>	\$15,500.00
• Miscellaneous materials, such as, sodium hypochlorite, HTH tablets, stainless steel banding and buckles, etc.	\$950.00
• Mobilization of bowl, cable, and motor to site and unload	\$1,850.00
• Pump service crew for reinstallation of pump, testing, and demobilization	\$36,500.00
• Power tong usage, per 8-hour shift – est. 6 at \$460.00	\$2,760.00
• Byron Jackson flat cable assembly	\$7,000.00
• 8" T&C replacement pipe contingency, <u>300 ft.</u> @ \$69.50/ft.	\$20,850.00
• New 500MCM jacketed power cable, 770 ft. @ \$97.00/ft = \$74,690.00 – <i>assume reusable</i>	\$0.00
• 2 – 8" surge control valves @ \$1,600.00 ea.	\$3,200.00
• 15 – 8" API Pipe couplings @ \$230.00 ea.	\$3,450.00

• Cutting & rethreading of an estimated 25 non-coupling pipe ends.	\$6,500.00
• Mobilization of pipe, to & from our Aurora yard	\$9,500.00
• Sandblasting & epoxy coating of the 8" pipe, inside & out – 750' @ \$35/ft	\$26,250.00
• Miscellaneous Repairs Contingency	\$7,500.00
TOTAL ESTIMATED COST	\$195,960.00

We assume the pump can be pulled in a normal fashion without the need for any fishing for its removal from the well.

If there are issues with the 250HP, 460V motor, it would need to be sent back to Sun - Star for teardown & inspection. We are not able to provide an accurate repair cost but would think a rebuild would be in the range of \$60,000.00 - \$70,000.00. An Alternative would be the installation of a new 250HP, 14", 460Volt Byron Jackson motor at an estimated cost of \$122,000.00. This is still an estimate, since a pricing increase was supposed to happen in the fall, but has not yet.

Once the pump has been removed, cleaned, & inspected, *Layne would provide an updated repair cost estimate BEFORE proceeding with any repairs.* Of course, if we encounter something needed that is out of the ordinary, we will include that in the updated estimate. This has been standard practice on the many repairs performed for the City in the past.

We have not included a contingency for sand bailing, which in the past, does not look to have been needed.

This proposal includes current pricing for any new 8" T&C line pipe needed. Our suppliers' quote is valid for only 7 days, so there is potential for an increase in the unit price when the job is executed (perhaps even a decrease is possible? We can hope).

The time to execute this work, of course, depends upon what work is actually done. But if the motor is reusable and we can completely service it in our Aurora Service Center as part of this repair, we would estimate the following time frames:

- Mobilize, pull & inspect. – 2+ weeks
- Repairs – 6 to 7 weeks
- Reinstallation and testing – 2 weeks.

Our current rig schedule would allow us to start this work in 2 - 4 weeks.

Layne appreciates the opportunity to help the City with its water resource needs. If you have any questions, please do not hesitate to contact us.

Yours Very Truly,

Layne Christensen Company

Michael McDonald

Michael McDonald
Account Manager
Layne, a Granite Company

Thomas P. Healy, P.E.

Thomas P. Healy, P.E.
Senior Project Manager
Layne, a Granite Company

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0015 – Contract Award – Emerald Tree Care, LLC for the 2022 Emerald Ash Borer Insecticidal Treatment Program for an Amount Not to Exceed \$22,155.00

AGENDA ITEM NUMBER:4.D**COMMITTEE AGENDA DATE:** March 3, 2022**COUNCIL AGENDA DATE:** March 21, 2022**STAFF REVIEW:** Mehul T. Patel, P.E., CFM, Director of Public Works**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE****ITEM SUMMARY:**

Emerald Tree Care, LLC has provided annual Emerald Ash Borer (EAB) treatment services related to the application of insecticidal treatments, in the form of trunk injections and Basil System Soil Injections, to manage the spread and negative impact of the EAB since 2011.

There are currently approximately 1,163 City-owned Ash trees that would require treatment in 2022. To date, there have been approximately 643 Ash trees lost since EAB treatment began in 2011, or about 35% of the original treatment set. Many of these trees were lost due to storm related damage or other reasons; however, the majority were removed due to failing health caused by early damage from the EAB.

Wayne White of Emerald Tree Care has provided the City with his recommendation for continuing with a monitor and treatment program for the City's Ash trees. Furthermore, Mr. White recommends the continued use of Boxer for trunk injections bi-annually and soil treatment using "Imidicloprid" on an annual basis.

In FY 2021, Emerald Tree Care, LLC provided annual soil treatment of "Imidicloprid" and the bi-annual trunk injections using Boxer (a.k.a. Emamectin Benzoate) for protection against the EAB. In 2022, the EAB program will only require the soil treatment. Emerald Tree Care has provided a proposal for soil treatment during 2022, in the amount of \$22,155.00 at the same unit prices as the previous contract(s). Please see attached for additional information.

Staff recommends continuing soil treatment in Fiscal Year 2022, along with continued monitoring of the City's Ash trees and conducting an evaluation of all remaining Ash trees to assess the benefits of continuing application of insecticidal treatments for the EAB.

In FY 2022, there is \$40,000.00 budgeted for the 2022 EAB Insecticidal Treatment Program in the Capital Projects Fund Account 08-34-53-4886.

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0015 authorizing the Mayor to execute a Contract with Emerald Tree Card, LLC of Roselle, Illinois, for the 2022 Emerald Ash Borer Insecticidal Treatment Program for an amount not to exceed \$22,155.00.

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0015

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE
CONTRACT AGREEMENT WITH EMERALD TREE CARE, LLC FOR
SERVICES ASSOCIATED WITH THE
2022 EMERALD ASH BORER INSECTICIDAL TREATMENT PROGRAM**

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a contract with Emerald Tree Care, LLC of Roselle, Illinois, for the 2022 Emerald Ash Borer Insecticidal Treatment Program in the amount not-to-exceed \$22,155.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 21st day of March, 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez



60 Monaco Dr | Roselle, IL 60172
Office: 630-480-4090 | www.emeraldtreecarellc.com

February 18, 2022

City of West Chicago
Attn: Dept. of Public Works
475 Main Street
West Chicago, IL 60185

To Mr. Timothy Wilcox,

It is important to continue treating the City's Ash population for Emerald Ash Borer control. Without continued treatments, the preservation efforts the City has put forth thus far would be at risk.

The treatment program has yielded successful results. For the 2022 Season, there are 1,163 Ash on the treatment list for preservation. These Ash had a total of 9,384 diameter inches in 2010. These Ash now have a total of 17,124 diameter inches, which reflects an 82.4% increase in growth. While the City is aware, it is nice to reiterate the many benefits of these municipal trees. Benefits include reducing air pollution, conserving water, reducing soil erosion, and providing shade for residents.

The 2022 Season recommended Ash treatment consists of the soil drench. This soil drench is a mixture of fertilizer, bio-root stimulant, and insecticide (a.i. imidacloprid) that is applied in the Spring. The trunk injections were performed in 2021, and therefore injections do not need to be performed this year. The chemical (a.i. emamectin benzoate) is labeled for up to two-year control and is recommended for application every-other-year. The consideration of injections is not needed until the 2023 Season.

Sincerely,

Wayne A. White
Board Certified Master Arborist
Emerald Tree Care LLC



Emerald Tree Care

Family Owned and Operated Since 2005
Celebrating over 15 years of quality tree care!

Contact Information:
60 Monaco Dr | Roselle, IL 60172
emeraldtreecarellc@gmail.com
www.emeraldtreecarellc.com
630-480-4090

Customer Contact:
630-293-2255 W
twilcox@westchicago.org

City of West Chicago
Attn: Dept. of Public Works
475 Main Street
West Chicago, IL 60185

2022 Tree Care Quote

Quote No: 2022-0239 Issued: 2/18/2022

Qty	Tree Care Description	Cst/Unit	Total
	Your 2022 Tree Care Quote is below.		
17,724	total diameter inches of Ash to be SOIL treated with Imidacloprid for the control of the Emerald Ash Borer. This soil application includes balanced fertilizers, micronutrients, and organic bio-stimulants to support plant functions, promote root growth, and improve overall plant health.	1.25	22,155.00
0	Boxer is labeled for 'up to two year control.' Trunk injections are not recommended until 2023. total diameter inches of Ash to be TRUNK injected (non-drill) with Boxer (a.i. emamectin benzoate) for the control of the Emerald Ash Borer and native Clearwing Borers. Provides 'up to two year' control.	3.20	0.00
Thank you for choosing the Emerald Tree Care team as your preferred tree care provider! CHECK PAYMENT PREFERRED CREDIT CARDS ACCEPTED			Total: \$22,155.00

Customer Signature

By signing above, I authorize Emerald Tree Care, LLC
to proceed with the work described for the 2022 season.

Wayne A. White

Wayne A. White

ISA Board Certified Master Arborist, MI-0793B
ISA Tree Risk Assessment Qualified



CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY


ITEM TITLE:

Resolution No. 22-R-0017 - Contract Award – SKC Construction, Inc. for the 2022 Crack Sealing Program for a Not to Exceed Amount of \$100,000.00

AGENDA ITEM NUMBER: 4.E.

COMMITTEE AGENDA DATE: March 3, 2022
COUNCIL AGENDA DATE: March 21, 2022

STAFF REVIEW: Mehul T. Patel, P.E., CFM- Director of Public Works

SIGNATURE

APPROVED BY CITY ADMINISTRATOR: Michael L. Guttman

SIGNATURE
ITEM SUMMARY:

The 2022 Crack Sealing Program consists of approximately 310,000 lineal feet of crack routing and sealing of bituminous and concrete pavements. A location map detailing the Program areas is included for your reference. Please note, the 2021 Crack Sealing Program was deferred and the previously identified locations in the 2021 Crack Sealing Program will be the new 2022 Crack Sealing Program.

As part of the DuPage Municipal Partnering Initiative (MPI) program, the Village of Downers Grove, Village of Lombard, Village of Woodridge, Village of Burr Ridge, DuPage County, City of Wheaton, City of Darien, City of Elmhurst, and City of West Chicago jointly developed bid documents and specifications for a Crack Sealing Program in 2022. The 2022 MPI Crack Sealing Program (CFB#2022-01) was advertised as a one-year program (2022), with two one-year extensions. Per the Contract, each Municipality reserves the right to renew the Contract for two additional one-year terms, subject to acceptable performance by the Contractor and 5% price increase each year. The project was advertised for bids on January 11, 2022, and bid opening was conducted on February 1, 2022. The City's quantity for this year's project includes approximately 16,000 lbs. of Crack and Joint Sealing PCC Pavement and approximately 36,000 lbs. of Fiber Asphalt Crack Sealing Asphalt Pavement. Below are the results of the bid.

COMPANY	OVERALL BID RESULTS	CITY OF WEST CHICAGO PORTION OF BID	OVERALL RANK
SKC Construction, Inc.	\$869,701.16	\$74,400.00	1
Denlar, Inc.	\$883,504.20	\$106,200.00	2
National Industrial Maintenance Inc.	\$1,043,057.08	\$82,680.00	3
Engineer's Estimate	N/A		N/A

At this bid price, the staff would like to request an increase in quantity to maximize the budget. For the 2022 Crack Sealing Program, City staff recommends that the City Council award a contract to SKC Construction, Inc. of West Dundee, Illinois, for an amount not to exceed \$100,000.00. If approved, Staff will identify additional locations to maximize the budget.

This year's Program will be paid for using Capital Project Funds (08-34-53-4868) in which \$100,000.00 have been budgeted.

CITY OF WEST CHICAGO

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0017 authorizing the Mayor to execute a Contract with SKC Construction, Inc. of West Dundee, Illinois, for an amount not to exceed \$100,000.00 for the 2022 Crack Sealing Program.

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0017

**AUTHORIZING THE MAYOR TO EXECUTE A CONTRACT WITH
SKC CONSTRUCTION, INC. OF WEST DUNDEE, ILLINOIS,
IN AN AMOUNT NOT TO EXCEED \$100,000.00 FOR
THE 2022 CRACK SEALING PROGRAM**

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a Contract with SKC Construction, Inc. of West Dundee, Illinois, in an amount not to exceed \$100,000.00 for the 2022 Crack Sealing Program, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 21st day of March, 2022

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Lopez

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0018 – Contract Award – Classic Landscape, Ltd. for the 2022 Right-of-Way (ROW) Maintenance Program (Base Bid + Alternate)

AGENDA ITEM NUMBER:

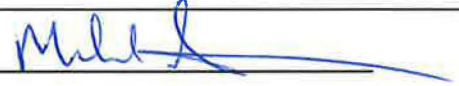
4.F.

COMMITTEE AGENDA DATE: March 3, 2022

COUNCIL AGENDA DATE: March 21, 2022

STAFF REVIEW: Mehul T. Patel, P.E., CFM, Director of Public Works

SIGNATURE



APPROVED BY CITY ADMINISTRATOR: Michael L. Guttman

SIGNATURE

ITEM SUMMARY:

Annually, since 2005, the City has contracted landscape maintenance services for multiple City-owned and maintained rights-of-way and properties at various locations for a period of approximately 30 consecutive weeks. Services include, but are not limited to, mowing, trimming, edging, weed removal, shredded hardwood mulch installation, chemical broadleaf control, fall leaf removal, and lawn fertilization.

The 2022 program consists of 100 City owned properties and/or right-of-ways. This years' bid also included an alternate bid for 31 additional locations currently maintained by Public Works staff. This operation over a 30-week timeframe ties up two members of the Public Works Street Division crew for approximately 1,000 hours. This operation takes away from other critical infrastructure maintenance tasks such as storm sewer and catch basin cleaning, which are more essential than mowing.

On January 27, 2022, the City advertised for 2022 ROW Maintenance Program with a bid opening date of February 17, 2022. In the past, the City typically received one to three bids; however, this time no bids were received by bid opening. Staff re-advertised for this Program with a new bid opening date of February 25, 2022. Staff also made contact with numerous landscaping maintenance contractors in the area informing them of the bid opportunity. The results of the as read bids are listed below.

Contractor	Base Bid	Alternate Bid	Total Bid
Classic Landscape, Ltd	\$135,760.00	\$14,100.00	\$149,860.00
Addlawn Landscaping, Inc	\$230,408.75	\$17,768.93	\$248,177.68

Services for the 2022 ROW Maintenance Program will be funded from the Capital Projects Fund, Water Fund, Sewer Fund, General Fund, and Commuter Parking Fund. Across, all aforementioned Fund accounts, total funds budgeted for this program are \$126,000.00. However, due to the elimination of the Downtown Tax Increment District Fund, there is a shortfall in the overall funding for the 2022 ROW Maintenance Program of \$16,000.00. Additionally, there were no funds budgeted in FY 2022 for the alternate areas. The total shortfall is \$23,860.00. These shortfalls can be resolved by using the savings from other funds (\$17,500 can be used from 08-34-53-4886 since the EAB insecticidal program will be \$22,500 with a \$40,000 budget). Staff will seek other savings throughout the year to make up the remainder of the shortfall.

Staff recommends that a contract (Base bid + Alternate) be awarded to Classic Landscape, Ltd of West Chicago, Illinois, for the 2022 Right-of-Way Maintenance Program, for an amount not to exceed \$149,860.00. Classic Landscape satisfactorily performed right-of-way maintenance services for the City of West Chicago from 2008 through 2011 and 2019 through 2021. All references contacted indicated satisfaction with the landscape maintenance and mowing services Classic Landscape provided.

CITY OF WEST CHICAGO

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0018 authorizing the Mayor to execute a contract (Base bid + Alternate) with Classic Landscape, Ltd., for landscape maintenance services related to the 2022 Right-of-Way Maintenance Program, for an amount not to exceed \$149,860.00.

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0018

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A
CONTRACT (BASE + ALTERNATE) WITH CLASSIC LANDSCAPE, LTD.
FOR LANDSCAPE MAINTENANCE SERVICES RELATED TO THE
2022 RIGHT-OF-WAY MAINTENANCE PROGRAM FOR AN AMOUNT NOT
TO EXCEED \$149,860.00**

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a Contract (Base + Alternate) with Classic Landscape, Ltd., for landscape maintenance services related to the 2022 Right-of-Way Maintenance Program, for an amount not to exceed \$149,860.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 21st day of March, 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez