

CITY COUNCIL PROCEEDINGS

April 5, 2023

The City Council of the City of David City, Nebraska, met in open public session in the meeting room of the City Office, 490 E Street, David City, Nebraska. The Public had been advised of the special meeting by publication of notice in The Banner Press on March 30th, and an affidavit of the publisher is on file in the office of the City Clerk. The Mayor and members of the City Council acknowledged advance notice of the meeting by signing the Agenda which is a part of these minutes. The advance notice to the Public, Mayor, and Council members conveyed the availability of the agenda, which was kept continuously current in the office of the City Clerk and was available for public inspection during regular office hours. No new items were added to the agenda during the twenty-four hours immediately prior to the opening of the Council meeting.

Present for the meeting were: Mayor Jessica Miller, Council members Thomas Kobus, Patrick Meysenburg, Kevin Woita, Jim Angell, Bruce Meysenburg, and Interim Administrator/City Clerk Tami Comte. Council member Keith Marvin was absent. City Attorney Michael Sands was present via Zoom.

Also present for the meeting were: Electric Supervisor Pat Hoefft, Wastewater Supervisor/Water Operator In Charge Dan Sobota, Wastewater employee Anthony Kobus, Matt Kalin representing JEO, Randy Isham, David McPhillips, Jessica Johnson and Eric Cox, representing the Nebraska Department of Environment and Energy.

The meeting opened with the Pledge of Allegiance.

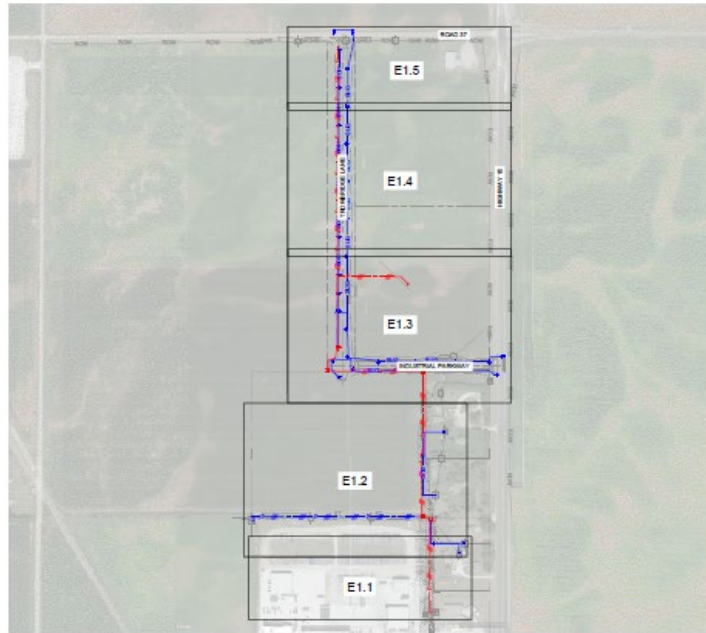
Mayor Jessica Miller informed the public of the "Open Meetings Act" posted on the east wall of the meeting room asked those present to please silence their cell phones. Mayor Miller read the Speaking Guidelines for Council Meetings.

Matt Kalin, representing JEO, introduced himself and explained the electrical extension project and asked for the approval of the bid documents and the authorization to advertise for bids.

Council member Kevin Woita made a motion to approve the bidding documents for the '2023 Industrial Parkway-Trowbridge Lane Electrical Extension' project and authorize JEO to advertise. Council Member Jim Angell seconded the motion. The motion carried.
Jim Angell: Yea, Tom Kobus: Yea, Keith Marvin: Absent, Bruce Meysenburg: Yea, Pat Meysenburg: Yea, Kevin Woita: Yea
Yea: 5, Nay: 0, Absent: 1

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MILESTONE COLOR LEGEND
 MILESTONE 1: RED
 MILESTONE 2: BLUE



GRAPHIC SCALE
 0 50 100
 UNIT OF MEASURE IS FEET



2023 INDUSTRIAL PARKWAY/TROWBRIDGE LANE
 ELECTRICAL EXTENSION
 DAVID CITY, ME

ELECTRICAL DISTRIBUTION MAP



NO.	REVISION	DATE
1	ISSUED	04/20/23
2	REVISED	04/20/23
3	REVISED	04/20/23
4	REVISED	04/20/23
5	REVISED	04/20/23
6	REVISED	04/20/23
7	REVISED	04/20/23
8	REVISED	04/20/23
9	REVISED	04/20/23
10	REVISED	04/20/23



E1.5

MILESTONE COLOR LEGEND
 MILESTONE 1: RED
 MILESTONE 2: BLUE

GENERAL NOTES
 1. ALL NEW 250A BUSBAR PANELS TO BE MOVED TO THE NORTH TO BE MOVED TO PARKING STRIPS



GRAPHIC SCALE
 0 50 100
 UNIT OF MEASURE IS FEET



2023 INDUSTRIAL PARKWAY/TROWBRIDGE LANE
 ELECTRICAL DISTRIBUTION EXTENSION PLAN
 DAVID CITY, ME

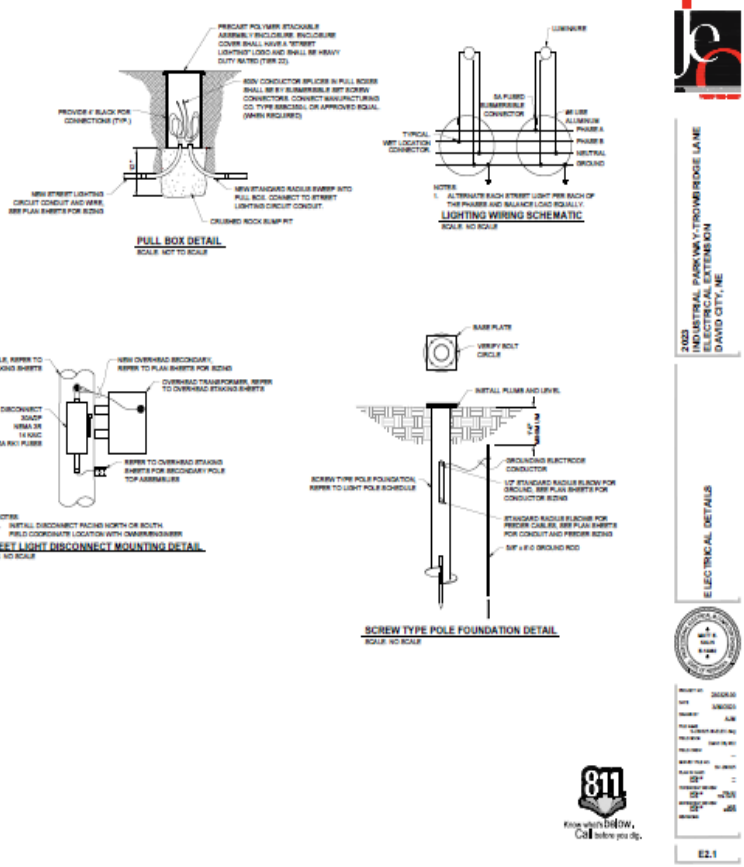
ELECTRICAL DISTRIBUTION EXTENSION PLAN



NO.	REVISION	DATE
1	ISSUED	04/20/23
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6	REVISED	04/20/23
7	REVISED	04/20/23
8	REVISED	04/20/23
9	REVISED	04/20/23
10	REVISED	04/20/23



E1.1



Council member Bruce Meysenburg made a motion to authorize JEO to advertise the electrical for the new RV campground for bids. Council Member Pat Meysenburg seconded the motion. The motion carried.
 Jim Angell: Yea, Tom Kobus: Yea, Keith Marvin: Absent, Bruce Meysenburg: Yea, Pat Meysenburg: Yea, Kevin Woita: Yea
 Yea: 5, Nay: 0, Absent: 1

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**SECTION 26 00 00
ELECTRICAL WORK**

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. Extent of electrical work is indicated by drawings and schedules and by requirements of this section. Work includes the following:
- B. General Work: The work associated with electrical systems and equipment to be performed as electrical work includes excavating, conduit sleeves, conduit supports, anchors, metering, power, miscellaneous systems, identification, coordination of drawings, record drawings, permits, tests, inspection, utility connection, starting up systems, training of Owner's operating personnel, producing operating and maintenance manuals, and construction permits.
 - 1. Power: The extent of the power work is indicated in the contract documents by E-Series drawings. This work includes conduit, wire, boxes, receptacles, disconnects, panels, and all equipment required for a complete installation. Wiring of equipment furnished by other specification Divisions or by the Owner that requires electrical power connections shall be wired in accordance with manufacturer's instructions.
- C. Refer to Section 31 23 33 for trenching, excavating and backfilling required in connection with the underground telephone, television and electrical service. This work to be performed as part of the electrical contract.
- D. Refer to Section 03 30 00 for concrete work associated with the electrical work.

1.02 QUALITY ASSURANCE

- A. General: In addition to complying with local codes, ordinances, standards and regulations, comply with:
 - 1. Independent Testing Laboratories (ITL)
 - 2. Electrical Testing Laboratories (ETL)
 - 3. Factory Mutual (FM)
 - 4. Institute of Electrical and Electronic Engineers (IEEE)
 - 5. Underwriters' Laboratories, Inc. (UL)
 - 6. National Fire Protection Association (NFPA)
 - 7. American Society for Testing and Materials (ASTM)
 - 8. American National Standards Institute (ANSI)
 - 9. National Electrical Code (NEC)
 - 10. National Electrical Safety Code (NESC)
 - 11. Insulated Power Cable Engineers Association (IPCEA)
 - 12. American Institute of Steel Construction (AISC)
 - 13. State & Municipal Codes in Force in the Specific Project Area
 - 14. Occupational Safety and Health Association (OSHA)

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1.03 SUBSTITUTIONS

- A. Pre-Bid Substitution Requests: Unless indicated otherwise, in general, products indicated are a basis of design and pre-bid substitutions are allowed per the requirements of Section 01 10 00 and the Instructions to Bidders.
1. If a specific product is listed without an "or approved equal/equivalent" clause, then the product listed shall be the product provided. This is generally restricted to products in which compatibility with other equipment or existing equipment is necessary.
 2. If a specific product is specified without a Basis of Design manufacturer and product catalog number/series, or a list of approved manufacturers then a pre-bid substitution request is not required.

1.04 SUBMITTALS

- A. General: The Contractor shall submit to the Engineer, for approval, electronic PDF copies of shop drawings of all major items of equipment and/or systems, giving manufacturer's name, catalog numbers, etc., and shall in particular set forth any variation or substitution from that intended by plans and specifications. Submittals shall consist of a Bill of Materials for major items included in the submittal, manufacturer's catalog page indicating general features and listings, and shop drawings. Electronic PDF files shall be text searchable and include bookmarks for major sections for ease of navigation.
- B. Shop drawings shall be submitted for review for the following:
1. Direct Bury Cables
 2. Campsite Pedestals
 3. Above Grade Secondary Pedestals
 4. Disconnect Switches
 5. Panels
 6. SPD
- C. Operational & Maintenance Manuals: Provide O & M Manuals in accordance with Sections 01 10 00, 01 30 00 and 01 77 00.
1. Provide manufacturer's O & M or instruction Manuals for panelboards and campsite pedestals.
 2. In addition to paper copies, an electronic version shall be provided in PDF format. The PDF file shall be text searchable and organized the same as paper copy complete with bookmarks for each indexed tab section.

1.05 COORDINATION OF ELECTRICAL WORK

- A. Coordination of Work: The Contractor shall be responsible for the coordination electrical work with the work all other suppliers and installers for this Project.

- B. Coordinate and install wiring for appliances and systems furnished under other specification Divisions, furnished by the Owner, Bid Packages or in some instances furnished under separate Contract. It is the intent of this requirement, that anything with an electrical connection will have power, and be working properly at Substantial Completion unless indicated otherwise. Verify outlet box sizes for various components such as wall switches and indicators. Install electrical wiring in accordance with manufacturer's instructions. Items requiring some installation by the Electrical Contractor that are furnished by others include, but not limited to: prepackaged lift station.
- C. For some items that are provided for this Project provided by others, product substitutions may result in changes to the electrical systems indicated. When Contractor initiated product variations result in electrical system changes, coordinate those changes at no additional cost to the Owner.
- D. The Electrical Contractor shall be responsible for coordinating the electrical requirements of items provided under Division 26. Make field adjustments as necessary for variations in product requirements provided under Division 26 at no additional cost to the Owner.
- E. Coordinate service outages of the service utilities with the Owner and General Contractor for proper sequencing of work and for protection of the Owner's operations.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Handle all electrical equipment carefully to prevent breakage, denting, and scoring finishes.
- B. Deliver all electrical equipment in factory fabricated fiberboard type containers.
- C. Store all equipment to be installed on the job that is stored on the site for any period of time shall be protected from the weather in a manner acceptable to the Engineer. All conduit shall be stored off the ground to insure that no dirt or debris is allowed to enter them before installation. Failure to store material correctly shall be just cause for the Architect to direct the Contractor to remove the material from the site.

1.07 PERMITS AND FEES

- A. The Contractor shall familiarize himself with all requirements as to permits, fees, codes and ordinances, etc., and arrange to comply with them.
- B. All permits, licenses, fees, inspections, and arrangements required for the work under this contract shall be obtained by the Contractor at his expense.
- C. The Contractor shall field coordinate and provide all temporary power required.
- D. Utility Coordination: The Contractor shall coordinate electrical service with the providing electric utility. All utility fees associated with this project shall be billed to the Owner.
 - 1. The electrical utility point of contact is:
Pat Hoeft
David City Electrical Department
402-367-3197
pat3197@windstream.net

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1.08 CODES

- A. All work shall be in accordance with applicable State and Local Codes. All work shall comply with the rules and recommendations of the National Fire Protection Association, all requirements of local utility companies, and the State Fire Inspection Bureau. These codes, rules, recommendations, and requirements shall take precedence if the drawings and specifications are not in conformance therewith.

1.09 LABELS AND IDENTIFICATION

- A. Equipment Identification: All identification labels shall be installed in a neat and workmanlike manner. Cleans surfaces prior to installation.
1. All Panels shall have identification labels of the equipment neatly stenciled on the equipment. Labels shall be 1 inch wide plastic "black" with 3/8 inch engraved letters "white". Labels shall be permanently glued to equipment in a neat fashion. Label shall have the complete name of the equipment as well as its mark or number, such as "Panel EL1".
 2. All disconnect switches shall have identification of the equipment being served neatly stenciled on the switch. Labels shall be 1 inch wide plastic "black" with 3/8 inch engraved letters "white". Labels shall be permanently glued to equipment in a neat fashion. Label shall have the complete name of the equipment as well as its mark or number, such as "Electric Unit Heater EH-1".
- B. Wiring: At each above-grade secondary pedestal, cables shall be labeled by destination and phase. Identification shall be self-adhesive wraparound type labels.
- C. Panelboards: All panelboards shall have a machine printed, flexible self-adhesive vinyl label with the following identifications:
1. A label with the available short-circuit current shall be included on each panelboard, switchboard, switchgear, and motor control center per NEC 408.6. Contractor to verify with Engineer to provide the available short-circuit currents which incorporate shop drawing transformer impedances and field installed feeder lengths. For information provided subsequent to bidding, use the date of receipt of information.
 2. Ungrounded conductor color coding system per NEC 210.5.
 3. Label that identifies the equipment where the power originates per NEC 408.4(B).
 4. Arc Flash Hazard Warning per NEC 110.16. The Contractor is responsible for generic arc flash warning labels.
- D. Circuit Directories: Provide machine printed circuit directory card for the As-Built conditions for each panelboard. In lieu of a circuit directory card, it is acceptable to utilize machine printed flexible self-adhesive vinyl labels at each circuit breaker.
1. Campsite Feeder Circuits shall be identified by campsite numbers fed.
- E. The main disconnect shall have a preprinted, flexible self-adhesive vinyl label that identifies the available fault current per NEC 110.24. If the available fault is not identified on the drawings, verify levels with the Engineer.
- F. At each RV Pedestal, provide machine printed flexible, self-adhesive vinyl label identifying campsite number. Label shall be placed inside the cabinet. Label text shall be a minimum of one-inch text height.

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PART 2 - PRODUCTS

2.01 ELECTRICAL RACEWAYS

- A. General: For each electrical raceway system indicated, provide assembly of conduit, tubing or duct, and fittings, included but not necessarily limited to, connectors, couplings, off sets, elbows, straps, bushings, expansion joints, hangers, and other components and accessories as needed for a complete system. Minimum size of conduit shall be 3/4 inch. All conduit shall be new.
- B. RMC: Rigid steel conduit complying with ANSI C80.1 shall be listed to UL 6, standard weight, mild-steel, hot-dipped galvanized or sherardized inside and out.
- C. Stainless Steel IMC: Intermediate Metal Conduit, complying with ANSI C80.6 and listed to UL 1242. Stainless steel type 316 with threaded connections.
- D. Flexible Couplings for Hazardous Locations: Explosionproof, dust-ignitionproof, watertight listed to UL 886. Stainless steel braid with insulating liner. End fittings made from stainless steel. For corrosive environments, provide PVC outer coating.
- E. Nonmetallic: Rigid non-metallic conduit shall be PVC schedule 40 or 80 PVC conduit, NEMA TC 2, listed to UL 651 and listed for direct sunlight. 90° bends shall utilize schedule 80 conduit to prevent burn through during pulling.
 - 1. RTRC: Fiberglass Reinforced Thermosetting Resin Conduit (RTRC), heavy wall Type XW may be used in lieu of PVC. Raceway shall be listed to UL 2525 and UL 94 HB.
 - 2. For horizontal directional boring, HDPE, NEMA TC 7, listed to UL 651A, schedule 80, outside and inside smoothwall, black or red may be used in lieu of PVC.
- F. Each length of conduit shall be stamped with the name or trademark of the manufacturer and shall bear the Underwriter's label.

2.02 RACEWAY FITTINGS

- A. All raceway fittings shall be listed to UL 514B.
- B. Coupling and connections in non-hazardous areas (steel) for thin wall conduit shall be compression type. For outdoor or wet locations couplings shall also be rain tight, and concrete-tight. Indent or set screw type fittings shall not be used. Fittings for rigid conduit shall be threaded. Fittings for liquid tight flexible conduit shall be liquid tight. Fittings for stainless steel raceways shall be stainless steel. Unless noted otherwise, die-cast fittings in whole or part shall not be acceptable.
- C. Coupling and connections in hazardous areas for galvanized rigid steel shall be Class 1 Division 1 Appleton Type SFM or approved equal with breathers and drains. Include sealing compound.
- D. Seal fittings in hazardous areas for SS-IMC shall be Class 1 Division 1 Type 316 stainless steel Type EYS with breathers and drains for 1" sizes and below. For conduit sizes 1-1/4" and larger, seal fittings made from copper free aluminum or alloys with epoxy coat paint may be used. Include sealing compound.
- E. Bushings and lockouts for galvanized steel raceway shall be made of galvanized malleable iron and shall have sharp clean-out threads for rigid conduit. Compression type shall be used for EMT. Bushings and lockouts for stainless steel raceway shall be made of stainless steel.

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- F. Expansion joint fittings shall be Type XJ/XJG-long or other conduit fittings as manufactured by Crouse-Hinds or equal for RMC and IMC. Use PVC expansion joints with length of travel suitable for 120°F temperature differential and the length of raceway for non-metallic raceways.

2.03 RACEWAY SUPPORT

- A. Galvanized Steel Support Systems: Structural-grade, factory formed, galvanized steel channels and angles with 9/16 inch diameter holes at a maximum of 8 inches o.c. in at least 1 surface.
 - 1. Fitting and Accessory materials: Same as channels and angles. Stainless steel may also be used.
 - 2. Rated Strength: Selected to suit applicable load criteria.

2.04 CONDUCTORS

- A. Direct Bury Cables: Provide either multi-conductor cable, quadruplex cable or single conductor cables listed for direct burial applications, size as indicated on the plans. Aluminum alloy conductor, compact stranding, rated 600-V, 90°C, cross-linked polyethylene (XLP or XLPE) insulation. Where connecting to a box or enclosure, watertight connectors intended for the type of conductor shall be used.
- B. Circuits not designated direct bury on the plans shall consist of a complete system of copper conductors shall be installed in a raceway system with green ground wire throughout the building for all feeder and branch circuits, etc. Wire shall be copper, 600-V minimum rating, except for special systems. No wire smaller than No. 12 gauge shall be used, except for signal or control systems, or where otherwise indicated.
- C. Insulation Types:
 - 1. #10 and smaller shall be Type THWN-2 rated for 90°C.
 - 2. #8 and larger shall be Type THWN-2 or XHHW-2 rated for 90°C.
- D. Cables shall conform to the requirements of the Underwriter's Laboratories, Inc and shall be listed by a Nationally Recognized Testing Laboratory. THWN-2 cable shall be listed to UL 83. XHHW-2 cable shall be listed to UL 44.
- E. All wire shall be brought to the job in unbroken packages and shall bear the date of manufacture and shall not be older than 12 months.
- F. Color Coding: All wiring shall be color-coded throughout its entire length.
 - 1. 1 phase SN 120/240V
 - a. Line 1 – Black
 - b. Line 2 – Red
 - c. Neutrals – White
 - d. Ground – Green
- G. Conductor Splices and Taps:
 - 1. Interior and Dry Locations:
 - a. Splicing of Conductors #10 AWG or smaller shall be by one of the following methods:
 - (1) Conductors shall be twisted together and soldered. All uninsulated splices, joints and free ends of conductors shall be covered with heat shrink rubber insulating sleeve or equal.

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- (2) Preinsulated spring-pressure connectors, such as "Scotch-lok" or equal.
 - b. Splicing and Termination of Conductors #8 AWG or larger:
 - (1) Conductors shall be connected using insulated secondary set-screw connectors. Connector Manufacturing Co. Type NACC or approved equal.
 - (2) Connection to ground conductors No. 1/0 AWG and larger shall be cast by Cadweld, or Burndy "Thermoweld", fusible-metal process.
 2. Wet Locations: Unless indicated otherwise, conductor splices and taps in wet locations shall utilize connectors listed to UL 486D for wet locations.
 - a. Splicing of conductors in ground level pull boxes or above grade secondary pedestals shall be connected using secondary set-screw connectors listed to UL 486D with either "submersible" or "direct burial" listing mark. Connector Manufacturing Co. Type SSBC series or approved equal.
 3. Hazardous Location Cable Terminations: Cable termination shall be listed for Class I, Division 1 or 2 as required by the environment, made from nickel plated brass or 316 stainless steel, and equipped with IP68 deluge seal. Crouse-Hinds ADE-1FC series or equal from Killark, or Appleton.

2.05 GROUNDING

- A. Ground Rods: UL 467 listed, Copper-clad steel, sectional threadless type. Unless noted otherwise, minimum size shall be $\frac{3}{4}$ " \varnothing x 10 feet.
- B. Clamps and Connectors: Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.
 1. Bolted Connectors: Clamp type, sized for pipe, copper or copper alloy, bolted pressure type with at least two bolts.
 2. Welded Connectors: Exothermic welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.
 3. Compression Connectors: UL listed, 600 V, and minimum 75°C, dual rated for copper and aluminum, one or two-hole type as applicable, irreversible compression type connectors.

2.06 PANELBOARDS

- A. All equipment shall be the product of one manufacturer as manufactured by Square D, General Electric, Cutler Hammer or Siemens.
- B. All panelboards shall be listed to UL 67. All panels shall be dead front with circuit breakers and copper buses in accordance with schedule and notations on the electrical drawings.
- C. All busses shall be silver-plated copper, or tin-plated copper.
- D. Service Equipment Label: NRTL labeled for use as service equipment for panelboards or load centers with one or more main service disconnecting and overcurrent protective devices.

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- E. Overcurrent Protective Devices: Unless indicated otherwise, overcurrent protective devices shall be molded case type circuit breakers. Circuit breakers shall comply with and be listed to UL 489. The individual breakers shall be calibrated and sealed to eliminate tampering or unauthorized changes in calibration. Breakers shall be interchangeable and capable of being operated in any position.
 - 1. Individual circuit breakers shall be fully rated for the available short-circuit rating of the panelboard, series ratings are prohibited.
 - 2. Circuit breakers are thermal magnetic trip units unless electronic trip units are indicated by "LSIG" or any combination of those letters. Adjustable trip setting dials shall be accessible from the front.
 - 3. Circuit breakers of frame size of 200 Amperes and greater shall have an adjustable instantaneous trip.
 - 4. Two-pole and three-pole branch breakers shall be single-handle, common trip type. 15 and 20 amp breakers shall be (SWD) switching duty rated. All branch breakers shall be 20 amp one-pole unless indicated otherwise.
 - 5. Tandem or half-sized circuit breakers will not be acceptable.
 - 6. Breakers shall be the bolt-on type.
 - 7. Where circuit breakers are indicated to be GFCI type, they shall be listed to UL 943, Class A, with a trip at 4-6 mA.
- F. A suitable directory or card holder shall be mounted on the inside of each cabinet door. Each circuit thereon shall bear a typewritten notation covered with transparent celluloid designated exactly what it controls. These cards shall be made out after the circuits have been connected.
- G. Enclosures: Cabinets, wiring gutters, etc., shall be in strict accordance with the standard practice of the NEMA and the National Electric Code. All panels shall be flush or surface mounted as shown on the drawings. Provide the NEMA environmental rating suitable for the environment or as indicated.
 - 1. Doors shall have concealed hinges.
 - 2. Panel and trim shall be factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - 3. Back Boxes: Unless indicated otherwise, galvanized steel.
- H. Distribution Panelboards:
 - 1. NEMA PB 1, power and feeder distribution type.
 - 2. Distribution panel shall have voltage and wiring configuration indicated, main breaker as indicated, minimum AIC as indicated fully rated and branch breakers as indicated. Square D type I-Line.

2.07 SAFETY AND DISCONNECT SWITCHES

- A. Disconnect switches for all equipment and motors indicated on the plans shall be by one Manufacturer Square D, General Electric, Cutler Hammer or Siemens. Square D catalog numbers are specified herein as a basis for quality and type of device to be installed.
- B. Disconnect horsepower rating shall be appropriate for the motor(s) served.

- C. Disconnects for integral horsepower motors, 3/4 horsepower and larger, and for equipment of similar capacity shall be NEMA KS 1, Type HD, industrial type, 600 V, fused or non-fused as indicated, 3 blades with solid neutrals where required and have provision of padlocking in the "ON" or "OFF" positions. Disconnect switches shall be listed to UL 98.
 - 1. At exterior locations enclosures shall be NEMA Type 3R.
- D. Fuses for feeders, branch circuits, motors and other equipment shall be selected in types of ratings in accordance with NEC to provide a coordinated system of overcurrent protection, whereby if a fault or harmful overload should occur, only the fuses nearest the fault or overload will open.
- E. Fuses: Provide fuses for safety switches, as recommended by switch manufacturer, of classes, types, and ratings needed to fulfill electrical requirements for service indicated.
 - 1. Fuse Types:
 - a. Service Entrance: Class RK1, time delay.
- F. Provide one spare set of three of each size and type of fuses installed on the project.

2.08 SURGE PROTECTIVE DEVICE (SPD)

- A. SPD shall be Component Recognized in accordance with UL 1449 4th Edition, Standard for Safety, Surge Protective Devices, and UL 1283, Electromagnetic Interference Filters.
- B. SPD shall be a Type 2 device and shall be installed on the load side of the service disconnect overcurrent device per NEC.
- C. SPD shall incorporate thermally protected metal-oxide varistors (MOV's) as the core surge suppression component for the service entrance and all other distribution levels.
- D. SPD shall provide suppression for all modes of protection: L-L, L-N, L-G and N-G in WYE systems. For delta configured systems, the SPD shall have components directly connected between each phase conductor and between each phase conductor and ground.
- E. SPD shall have a minimum Short Circuit Current Rating (SCCR) of 200kA.
- F. SPD shall have a minimum surge current rating of 100 kA per phase (50 kA per mode).
- G. SPD shall be capable of protecting against and surviving 20,000 ANSI/IEEE C62.41 Category C3 impulses with less than 10% change in the baseline to final let-through voltage.
- H. UL 1449 Listed Voltage Protection Ratings (VPRs) shall not exceed the following:

VOLTAGE	L-N	L-G	N-G	L-L
240/120	700V	700V	700V	1200V
- I. SPD shall be designed to withstand a maximum continuous operating voltage (MCOV) of not less than 115% of nominal RMS operating system voltages.
- J. SPD shall have a minimum EMI/RFI filtering of -50dB at 100kHz using the MIL STD. 220A insertion loss test method.

- K. SPD shall be equipped with onboard visual and audible diagnostic monitoring. Red and green indicator lights shall provide full time visual diagnostic monitoring of the operational status of each phase. The SPD diagnostic monitoring devices shall be mounted on the front of the device. The diagnostic monitoring circuits shall continually monitor the operational status of the surge current diversion modules. No other test equipment shall be required for SPD monitoring or testing before or after installation.
- L. SPD shall have a response time no greater than one nanosecond for any of the individual protection modes.
- M. SPD manufacturer shall provide a warranty for a period of ten (10) years from the date of shipment against any SPD part failure.
- N. SPD shall not be integral to the panelboard. Unit shall be mounted adjacent to panelboard.
- O. Provide Square D HWA series, Eaton SPC series, or equal.

2.09 ABOVE GRADE SECONDARY PEDESTALS

- A. Pedestal shall house free standing secondary connectors.
- B. Pedestal shall be made from fiberglass molded with fire retardant additives, UV additives, and green colored pigment additives. Material shall be comprised so that the fiberglass does not peel over time and shall be resistant to fertilizers, salt, and ultraviolet rays.
- C. Pedestal shall have 3" perimeter flange around the base to provide stability when buried.
- D. Provide locking assembly with stainless steel or aluminum hardware to prevent rusting or corrosion.
- E. Nordic Fiberglass PRMC series or equal, nominal dimensions of 9"W x 14"D x 30"H, with 18" Bottom Base Height. Provide "Electrical" molded labeled in raised lettering on top of pedestal.

2.10 CAMPSITE ELECTRICAL PEDESTALS

- A. General: Electrical pedestal specifically designed to comply with Article 551 of NFPA 70-2017. Pedestals shall be UL listed.
- B. Features:
 - 1. Enclosure: Galvanized steel construction with factory paint overcoat. NEMA 3R for outdoor installations. Lid covering receptacles shall be weatherproof while in use.
 - 2. Post Installation: Earth burial/embedded post.
 - 3. Unmetered.
 - 4. Short Circuit Rating: 10 kAIC
 - 5. Circuit Breakers and Receptacles: Unless noted otherwise, each pedestal shall have:
 - a. (1) 50A/2P circuit breaker
 - b. (1) 30A/1P circuit breaker
 - c. (1) 20A/1P/GFCI circuit breakers
 - d. (1) NEMA 14-50R, 50A, 125/250V, 3P/4W grounding type receptacle
 - e. (1) 30A, 125V, 2P/3W, grounding type receptacle

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- f. (1) Duplex NEMA 5-20R, 20A, 125V, 2P/3W, grounding type receptacle.
- 6. Terminals: Terminals shall be suitable for copper or aluminum conductors, rated 75°C, and sized to handle the conductors indicated.

2.11 UNDERGROUND UTILITIES MARKER TAPE

- A. General: Provide non-detectable marker tape with tracer wire.
- B. Marker Tape: Minimum of 4 inch wide by 5 mil thick non-detectable type. APWA approved colors with "Buried (Utility type)" permanently imprinted at intervals not to exceed 36 inches. Maximum elongation of < 50% at Break per ASTM D2578.
- C. Tracer Wire: Provide at same height as marker tape for accurate locates and bring up into handholes for connection of signal generator. Flexible copper clad steel tracer wire, #12 AWG with minimum break load of 55 kpsi to meet ASTM B910. Insulation 30 mil, high molecular polyethylene, HMW-HDPE per ASTM D1248. For directional boring utilize 45 mil HMW-HDPE insulation. Use Pro-Trace line from Pro-Line Safety or equal.
- D. Colors & Legend:
 - 1. Electrical: Red color with "Buried Electrical" legend.
 - 2. Communications: Orange color with "Buried Communications" legend.

PART 3 - EXECUTION

3.01 ELECTRICAL WORK, GENERAL

- A. All electrical work shall be done in a neat and workmanlike manner as defined by NECA 1 "Standard Practices for Good Workmanship in Electrical Contracting".
- B. Installation of electrical systems, equipment and raceways shall be done in accordance with the latest version of the appropriate NECA standard.
 - 1. Aluminum wire and conductors (where indicated) shall be installed in accordance with NECA 104.
 - 2. Installation of motors and motor controllers shall be in accordance with NECA 230.
 - 3. Installation of panelboards shall be in accordance with NECA 407.

3.02 ELECTRICAL SERVICE

- A. The Contractor shall verify the requirements of the utilities. The locations shown on the plot plan are reasonably accurate but the Contractor shall verify all conditions with each separate utility company. All work must be acceptable to the utilities.
- B. Provide electrical service as indicated on the drawings.
- C. Provide secondary conduit and wire from serving utility transformer to the main disconnect as indicated on the drawings.
- D. Grounding of the electrical service shall be in accordance with the NEC and NECA 331 "Standard for Building and Service Entrance Grounding and Bonding". Provide grounding electrode conductor to each grounding electrode at each structure.

3.03 EQUIPMENT SUPPORT

- A. Application of Support Systems: Unless noted otherwise, types of raceway and equipment support systems shall be as follows:
 - 1. Outdoors and Exterior Environment: Galvanized steel strut and raceway support system.

- B. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
1. To Wood: Fasten with lag screws or through bolts.
 2. To New Concrete: Bolt to concrete inserts.
 3. To Existing Concrete: Expansion anchor fasteners.
 4. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units. In corrosive environments, bolts shall be stainless steel.
 5. To Steel: Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69.
 6. To Light Steel: Sheet metal screws.
 7. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate.
- C. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.

3.04 MINIMUM BRANCH CIRCUITS

- A. Power Branch Circuits: Unless indicated otherwise, minimum branch circuits shall consist of #12 ungrounded conductors, #12 grounded conductor, and #12 equipment grounding conductor in ¾" raceway.
1. Where single pole circuit breakers or fuses are used for the branch circuit overcurrent protection, use of common neutrals on multi-wire branch circuits is prohibited.

3.05 CONDUIT

- A. Electrical raceways shall be installed in accordance with NECA 101 "Standard for Installing Steel Conduit (Rigid, IMC, EMT)" and NECA 111 "Standard for Installing Nonmetallic Raceways (RNC, ENT, LFNC)" and NECA 605 "Installing Underground Nonmetallic Utility Duct".
- B. Application of Raceways: Unless noted otherwise, types of raceways shall be applied as follows.
1. Exterior:
 - a. Above-grade: RMC.
 - b. Corrosive Environment: Stainless Steel IMC.
 2. Below Grade: RNC PVC, HDPE, or RTRC-XW.
 - a. Below Grade, general: RNC Schedule 40, or RTRC-XW.
 - b. Below Grade, Under Roadways, Railroads: HDPE Schedule 80.
 - c. Below Grade, Under creeks, lakes, rivers or similar: HDPE Schedule 80.
 - d. Embedded in Concrete: RNC-40 or RTRC-XW.

3. Hazardous Locations: All conduit entries and electrical enclosures within a hazardous location shall have seals per Article 501 of the National Electrical Code. A sealing compound recommended by the fitting manufacturer shall be installed in all sealing fittings.
 - a. Corrosive Environment: Stainless Steel IMC.
 - b. Exterior: Stainless Steel IMC.
 - c. Below Grade: Either stainless steel IMC. PVC-80 may be used if encased in 2 inches of concrete with a burial depth of 24 inches or more.
- C. RMC: Each joint shall be made up wrench tight at couplings and unions, threaded hubs of junction box, device boxes, conduit bodies, etc. All sealing fittings shall be accessible.
- D. Conduit sizes for various numbers and sizes of wire shall be as recommended by the latest edition of the National Electric Code and the latest supplements thereto. Conduit size shall be increased in size when lead-covered cable is required by the National Electric Code or this specification.
- E. No conduit shall be used where the required number and sizes of wires cannot be easily "pulled in" and the Contractor shall be responsible for the selection of the conduit sizes. Conduit sizes shown on the drawings are "minimum" sizes in accordance with appropriate tables in the National Electric Code. If because of bends or elbows a larger conduit size is required, the Contractor shall so furnish without further cost to the Owner.
- F. The entire conduit system shall be installed complete, thoroughly cleaned and all conduit fished before the wires are pulled in. Conduit shall be continuous from outlet to outlet, cabinet or junction box, and shall be so arranged that wire may be pulled in with the minimum practicable number of junction boxes.
- G. The ends of all conduits shall be securely plugged, and all boxes temporarily covered to prevent plaster or dirt from entering the conduits. All conduit shall be thoroughly swabbed out with a dry swab to remove moisture and debris before conductors are drawn into place.
- H. The Contractor shall be entirely responsible for the proper protection of this work from the other trades on the job. When conduit becomes bent or holes are punched through same, or outlets moved after being roughed-in, the Contractor shall repair same as directed, without additional cost to the Owner.
- I. Changes in direction shall be made by bends in the pipe wherever possible and these shall be made smooth and even without flattening the pipe or flaking the finish. Bends shall be as long radius as possible and in no case smaller than the corresponding trade elbow. Long-radius elbows shall be used where necessary.
- J. RNC and RTRC: Nonmetallic raceway bends shall be made with factory fabricated bends whenever possible. Field bends shall be made with a hot-box designed for the purpose. Field bends shall not be made using a torch or flame. Raceways with torch burn marks shall be removed and replaced.
- K. Not more than four 90 degree bends will be allowed in one raceway run. Where more bends are necessary, a conduit or pull box shall be installed. All bends in 1 inch and smaller shall be made with a conduit bender and all larger sizes shall have machine bends.

- L. Where rigid conduits enter boxes, panels, cabinets, etc., they shall be rigidly clamped to the box by a locknut on the outside, and a bushing on the inside of the box for each conduit.
- M. All conduits shall enter the box squarely.
- N. Furnish and install insulated bushings as required by NEC Article 300.4(G). The use of insulated bushings does not exclude the use of double locknuts to fasten conduit to the box.
- O. For all exterior/outdoor conduit risers from below grade to above grade shall have an expansion fitting.
- P. All conduit work installed in concrete slabs resting on earth shall be RNC in ordinary locations, and stainless steel IMC/RMC in hazardous locations and corrosive locations. All conduit laid in earth or under slab shall be RNC in ordinary locations, and stainless steel IMC/RMC in hazardous locations and corrosive locations.
- Q. Where conduits are run individually, they shall be supported by approved pipe straps, or beam clamps. Straps shall be secured by means of toggle bolts on hollow masonry; expansion shields and machine screws or standard preset inserts on concrete or solid masonry; machine screws or bolts on metal surfaces; and wood screws on wood construction.
- R. No perforated straps or wire hangers of any kind will be permitted.
- S. All steel bolts, washers and screws shall be stainless steel, galvanized, or cadmium-plated in ordinary locations and shall be stainless steel in corrosive environments.

3.06 LUBRICANTS

- A. Where lubrication is required for pulling conductors or cables it shall be a compound specifically prepared for cable pulling and shall not contain petroleum and other products which will have a deteriorating effect on the cable insulation.

3.07 PULL WIRE

- A. A pull wire shall be installed in all empty conduits. In dry locations, pull wire shall be No. 16 gauge galvanized iron.
- B. In conduits under slab on fill below grade, or in damp locations pull wire shall be No. 12 AWG copper wire.
- C. Both ends of all pull wires shall be identified by means of labels or tags, reading "PULL WIRE" and shall be numbered to refer to the same pull wire.

3.08 EQUIPMENT GROUND

- A. Any conductor used solely for grounding purpose, equipment grounding, etc., shall be green unless bare.
- B. All wiring throughout the entire project for all of the various systems shall be furnished with a ground wire and color coded in accordance with the needs of the particular system. Wire must be color coded throughout its entire length.
- C. The practice of color coding or tagging wire ends will not be acceptable, except for feeders which shall be color coded at both ends.

3.09 INSTALLATIONS IN ABOVE GRADE SECONDARY PEDESTALS / CAMPSITE ELECTRICAL PEDESTALS

- A. Install pedestals level and plumb and with the orientation and depth coordinated with connecting raceways to minimize bends and deflections required for proper entrance. Set pedestal depth in accordance with manufacturer's recommendations.
- B. Unless otherwise indicated, support pedestal on a level bed of crushed stone or gravel, graded from ½ inch sieve to No. 4 sieve and compacted to same density as adjacent undisturbed earth. Minimum of 4 inches of gravel below box and for 6 inches beyond the outside walls of the box.
- C. Provide prefabricated raceway sweep bends to turn raceway up so that the raceway enters the enclosure vertically from the bottom
- D. Install all splices and taps, in a neat, professional and workmanlike manner, using insulated, booted, wiring connectors created especially for the intended application. Only wiring connectors with a "submerible" or "Direct Burial (DB)" designation will be accepted. Do not use hand-made squeeze-ons, tape wrapped ball connections, or connectors not suitable for use with conductors utilized.
- E. For pedestals with more than one conduit entry and exit, identify each raceway within the pedestal. Identify the destination of each raceway. For raceways containing power circuits, identify the circuit by campsite served and identify the circuit originating panel. Identification may be legibly handwritten with permanent ink (Sharpie) or with permanent pre-printed vinyl adhesive label.

3.10 DIRECT BURIAL CONDUCTOR INSTALLATION

- A. Minimum Depth = 24"
- B. Bedding: Minimum 3" below conductor shall be required in the bottom of all trenches. Bedding shall consist of finely crushed dirt.
- C. Cover: Minimum 3" over conductors shall be required in all trenches. Cover shall consist of finely crushed dirt.
- D. Trench bed, cover, and backfill dirt shall be free of large rocks and any sharp angular material to avoid damage to direct bury conductors.

END OF SECTION

Mayor Miller stated that the next item on the agenda was Agreement amendment for the extension of sewer main to the soccer field.

David McPhillips introduced himself and asked how much this was going to cost and if the Ag Society was going to cost share.

Council member Bruce Meysenburg stated that we haven't gotten that far. This is just the agreement for the engineering services but he is certain that they will cost share.

Council member Tom Kobus made a motion to approve the agreement amendment for the extension of sewer main to the soccer field. Council Member Pat Meysenburg seconded the motion. The motion carried.

Jim Angell: Yea, Tom Kobus: Yea, Keith Marvin: Absent, Bruce Meysenburg: Yea, Pat Meysenburg: Yea, Kevin Woita: Yea
Yea: 5, Nay: 0, Absent: 1

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AMENDMENT TO OWNER-ENGINEER AGREEMENT
Amendment No. 1

The Effective Date of this Amendment is: April 5th, 2023.

ARTICLE 1 – BACKGROUND DATA

Effective Date of Owner-Engineer Agreement: May 4th, 2022.
Owner: City of David City, Nebraska
Engineer: JEO Consulting Group, Inc.
Project: David City Campground JEO # 220784

ARTICLE 2 – NATURE OF AMENDMENT

- Additional Services to be performed by Engineer
- Modifications to services of Engineer
- Modifications of payment to Engineer

ARTICLE 3 – DESCRIPTION OF MODIFICATIONS

Add additional design/construction phase services to extend a sanitary sewer main from the RV campground north across 'H' Street, See Exhibit A, attached.

ARTICLE 4 – AGREEMENT SUMMARY

See Exhibit A, attached.

The foregoing Agreement Summary is for reference only and does not alter the terms of the Agreement, including those set forth in the original Exhibit B.

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this, or previous Amendments remain in effect.

OWNER:

ENGINEER: JEO Consulting Group, Inc.

By:

By: 

Print name: _____

Print name: David C. Henke

Title: _____

Title: Project Manager

Date Signed: _____

Date Signed: March 28, 2023

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AMENDMENT # 1-EXHIBIT A
Scope of Services – David City Campground
JEO Project No. 220784.00

PROJECT UNDERSTANDING

The City of David City would like to extend the gravity sanitary sewer main from manhole # 3, thence north under the railroad tracks, thence northwesterly to the west side of a tree row, thence north to the north side of 'H' Street near the soccer field parking lot.

Our services will include site topography survey, design, NDEE approval, bidding, and construction phase services. This also includes additional construction staking as needed and the railroad permit design task that has already been completed.

SCOPE OF SERVICES:

TASK 1 – SITE SURVEY PHASE

Task Description: JEO proposes to complete a topographic survey of the proposed sanitary sewer route.

1. Establish vertical and horizontal control using the local coordinate system.
2. Conduct a topographic survey of the area for the proposed sanitary sewer main route and other expected construction area.
3. Survey the locations of physical features within the proposed site location(s) (concrete, asphalt, gravel, rock, driveways, sidewalks, trees, utility poles, utility locates, valves, manholes, signs, drainage structures, curb stops, water meter pits, terrain profiles, buildings, trees, and landscaping, etc.).
4. Schedule utility location information (a One-Call Utility located request will be made) and incorporate on preliminary plans (gas, telephone, electric, water, sanitary sewer, communications, etc.).
5. Create an electronic drawing illustrating elevation, site features, water, sanitary sewer, stormwater collection and discharge points, electrical service, other known utilities resulting from the surveys performed.

TASK 2 –DESIGN/CONCEPTUAL PHASE

Preliminary Design:

1. Confirmation of the proposed utility improvements at kickoff meeting. (1 Meeting)
2. Create 30% drawings that include the plan view of the proposed utility improvements & campground site orientation/layout.
3. Conduct an internal 30% QA/QC of the project documents and incorporate necessary revisions.
4. Prepare 60% plans, technical specifications, and opinion of probable cost for the sanitary sewer utility improvements. The 60% plans to include the following:
 - A. Title Sheet.
 - B. Abbreviation Sheet.
 - C. Project Location Sheet.
 - D. Utility (Sanitary Sewer) Improvements Plan and Profile Sheet(s).

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- E. Details Sheet.
- 5. Conduct an internal 60% QA/QC of the project documents and incorporate necessary revisions.
- 6. Provide 60% drawings, opinion of probable cost to Owner.

Final Design:

- 1. Run title search and create easement drawings and descriptions for new easements along proposed sewer line. Provide to city attorney for securing.
- 2. Revise drawings and technical specifications following receipt of 60% review comments from internal QA/QC and comments from 60% design review by Owner. (1 Meeting)
- 3. Prepare 90% plans, technical specifications for the sanitary sewer utility improvements.
- 4. Provide drawings and assistance for the railroad undercrossing permit.
- 5. Conduct an internal 90% QA/QC of the project documents and incorporate necessary revisions.
- 6. Electronically provide 90% drawings, specifications, and opinion of probable cost to Owner. JEO will meet with David City personnel via conference call upon receipt of review comments.
- 7. Revise plans, specifications, and opinion of probable cost with items noted during review with Client and 90% QA/QC review.
- 8. Prepare a SWPPP book complying with State regulations.
- 9. Coordinate the Owner's signature and submit a Notice of Intent (NOI) to the Nebraska Department of Environment & Energy (NDEE) to obtain NPDES Stormwater permit. (if needed)
- 10. Create final drawings and specification package and sign and seal by engineer and a coordinating professional (if required) all registered in the State of Nebraska.
- 11. Following confirmation from the Owner, submit final drawings, specifications, and permit schedules for the utility improvements to NDEE for review, approval, and issuance of a construction permits. Owner to pay all review fees either directly or via reimbursement to JEO.
- 12. Provide the Owner will furnish the final plans and specifications to the Owner.

TASK 4-BIDDING AND NEGOTIATION PHASE

- 1. Obtain approval of plans and specifications and authorization to advertise for bids from Owner.
- 2. Provide assistance with authorizing the advertisement for bids and setting the bid date and time.
- 3. Send Notice to Bidders to Contractors, Builder Bureaus, and Plan Rooms.
- 4. Furnish electronic or paper copies of plans, specifications, and contract documents of the project to prospective bidders, material suppliers, and other interested parties upon their request.
- 5. Respond to inquiries from prospective bidders and prepare any addenda required. A pre-bid meeting will not be held.
- 6. Assist the Owner in securing construction bids for the project.
- 7. Assist the Owner at the bid opening. Bid opening will be held at City of David City offices. (1 meeting)

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8. Tabulate and analyze construction bids and report on them to the Owner, together with advice and assistance to the Owner in award of construction contract.
9. Review all bids received and assist the Owner in award of the construction contract.
10. Prepare and submit necessary information to the Owner for project award approval.
11. Prepare Contract Documents (Construction Contract and Notice to Proceed) for execution by the Prime Contractor(s) and the Owner; provide cursory reviews of all insurance and bonds submittals; then advise the Owner to proceed with execution of all documents.
12. Provide copies of all executed Contract Documents to the Owner and Prime Contractor(s).

TASK 5 –CONSTRUCTION ADMINISTRATION PHASE

1. Schedule and conduct a Pre-construction Conference prior to construction beginning. This conference (Pre-Con) will review the required timelines set forth in the specifications, lines of communication, key contacts of those involved, review any conflicts with utilities or schedules, review the schedule proposed by the Contractor, review any requirements of the Contractor for locates and staking needs, etc. Minutes of the Pre-construction Conference will be provided to all participants by the Engineer. Up to two JEO personnel will attend. (1 meeting)
2. Provide baseline survey for horizontal and vertical controls for the proposed improvements, to be referenced by both the Engineer and Contractor during the construction of the project. Provide construction staking of the proposed improvements, including location and grade of the proposed access and grading improvements. Staking of the proposed improvements will be provided in up to three (3) trips.
3. Construction staking to include staking of gravity sanitary sewer trunk line alignment & elevation and sanitary sewer railroad undercrossing alignment.
4. Review shop drawings and related data supplied by the Contractor.
5. Provide interpretation of the plans and specifications, when necessary.
6. Review and process Contractor's monthly payment applications and change orders (if necessary) and provide to Owner for review and approval.
7. Consult with and advise Owner during construction regarding all aspects of the project.
8. Conduct monthly progress meeting with the Owner, Engineer, and Contractor. (1 meeting anticipated)
9. Coordinate and review geotechnical soil and concrete testing results, as needed. Construction material testing (compaction and concrete compressive strength) cost to be paid for by the Owner. Any retesting will be the responsibility of the Contractor.
10. Conduct a final inspection of project with the Contractor and Owner. Prepare a final punch list of outstanding items needing completion prior to finalization of the project based on field observations and reviews by the Resident Project Representative, Contractor, and Owner. (1 Meeting)
11. Recommend to the Owner the acceptance of the project and complete the necessary certificate(s). This recommendation will be based on the Engineer's observation of construction utilizing professional judgment and accepted tests to determine that the Contractor has completed their contracts in substantial compliance with the plans, specifications, and contract documents.

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TASK 6 –RESIDENT PROJECT REPRESENTATIVE (RPR) PHASE

1. JEO will furnish a part-time Resident Project Representative (RPR) to observe construction progress and quality of the work up to 40 hours. The duration of construction is estimated at 2 months.
 - A. The duties and responsibilities of the RPR are described as follows:
 - i. Review of contractors work for general compliance with the plans and specifications.
 - ii. Complete construction observation Reports when on site.
 - iii. Coordinate pay quantities with contractor and engineer.
 - iv. Review of materials delivered to the site for specification compliance.
 - v. Assist the engineer in interpretation of the plans and specifications to the contractor.
 - vi. Review and coordinate materials testing by assigned testing firm.
 - vii. Attend progress meetings.
 - viii. Compile records.

TASK 7 –POST CONSTRUCTION PHASE

1. Prepare As-Built Drawings for Owner, provide GIS data to be incorporated into Owner's existing GIS platform.
2. Assist the Owner during the 12-month warranty period with questions and coordination with the contractor for warranty period correction items.
3. Issue 6 and 11-month warranty letters to the Owner and Contractor.

ESTIMATED TIME FRAME:

1. Design Phase – 45 days from effective date of the additional work authorization.
2. Bidding and Negotiation Phase – 45 to 60 calendar days from authorization to advertise.
3. Construction Phase – Assumed to be 4-months from notice to proceed with 2 months of active construction time.
4. Post Construction Phase – 12 months after project acceptance.

FEE SCHEDULE (LUMP SUM):

1. Design Phase	\$ 20,900
2. Bidding and Negotiation Phase	\$ 4,500
3. Construction Phase	\$ 11,500
4. <u>Post Construction Phase</u>	<u>\$ 1,500</u>
5. Total Lump Sum Phase	\$ 38,400

FEE SCHEDULE (HOURLY NOT TO EXCEED):

1. Resident Project Representative \$ 5,900

CONTRACT EXCLUSIONS

- a. Services not explicitly detailed in scope of service.
- b. Special meetings and meetings not outlined in the Scope of Services.

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- c. Geotechnical investigation of subsurface soil conditions.
- d. Wetland Delineation or other Environmental Field Investigation.
- e. Securing land rights or negotiating easements.
- f. Individual Corps 404 permitting, Environmental assessments.
- g. SWPPP administration and inspections during construction.
- h. Payment of permit application/review fees.
- i. Construction testing services fees.

OWNER RESPONSIBILITY

1. The Owner must provide the following information to the Engineer/Consultant:
 - A. Access to all potential project sites.
 - B. Utility site maps of potential project sites.

Mayor Miller stated that the next item on the agenda was a Presentation by representatives of Nebraska Department of Environment and Energy.

Jessica Johnson and Eric Cox, with the Nebraska Department of Environment and Energy introduced themselves and gave a presentation on lead water lines in residential and commercial buildings. The deadline for the water department to submit the inventory is October 16, 2024.

They suggested sending out the following brochures to all of the water system customers.

Do You Have a Lead Service Line?

Answer a few questions to protect your family's health and help your utility identify the drinking water service line materials in your community

Adverse Health Effects of Lead
Drinking water that contains lead can damage a developing brain. It is especially harmful for children 6 and under and in adults, lead can increase blood pressure. With your help, your utility can reduce elevated levels of lead in your community.

Source of Lead
Your water system tests for lead levels regularly, but as you know, the source of lead in drinking water is often lead pipes and plumbing components in the distribution system that provides drinking water to your home.

Service Lines
Drinking water for your home is delivered from the water main to your home by a service line. Service lines can contain lead. Identifying homes with lead service lines or lead components is crucial because corrosion of these materials over time can cause lead to accumulate in your drinking water.

Take Action Now
Be a part of the solution. This is a large project and your utility needs your help!

The diagram illustrates the path of water from the water main to a house. It shows a cross-section of the ground with a house on the left and a water main on the right. A red car is parked on the street. A blue line represents the service line, starting from the water main, passing through a corporation stop, a curb stop, and a service line to the house. Inside the house, the line goes through a water meter and into the house. Labels include: WATER MAIN, CORPORATION STOP, CURB STOP, SERVICE LINE, PROPERTY BOUNDARY, HOUSE, and WATER METER. The LSLR logo is in the bottom right corner.

Please Provide the Following Information

Name: _____

Address: _____

Year home was built: _____

Is the original Service Line material still present? (Yes, No or Unknown):

Service Line Material (Lead, Non-Lead, Galvanized or Unknown):

Are there other Lead Materials present? (Unknown, None, Goose Neck, Pig Tail, or other):

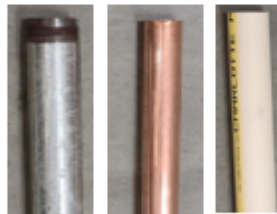
Once complete, please return this flyer to your water utility

Is it Lead?

Start with a magnet or scratch test. Gently scratch the surface of the pipe with a coin. If the pipe is soft, easily scraped, silver, and a magnet doesn't stick, it is most likely lead.

If Not Lead, Then What?

1. Does a magnet stick? If so and the line is dull grey when scratched, this portion of the service line is galvanized steel.
2. If the magnet doesn't stick, it is same color as a penny when scratched or has greenish blue build up, this portion of the service line is copper.
3. If the magnet doesn't stick, it is white-ish yellow or grey, is joined with a clamp, screw or glue, this portion of the service line is plastic or Chlorinated polyvinyl chloride (CPVC).



If you are still unsure about the materials present and have questions, contact us.

Sources: EPA.gov, Lead Service Line Replacement Collaborative, "How Can I Find Out If I Have a Lead Service Line?" [Galaxus](#), 2020.

How to Determine If I Have a Lead Service

Check your records. Have you completed maintenance on your service line? Do you know when your home was built? If your home is older than 1988 and has the original service line or plumbing, then your home may have a lead service line or a lead component.



Inspect the service line yourself. You can save time and money and inspect the service line yourself. These lines typically enter your home through the wall facing the street on the lowest level but each setup can be unique to each home. If you do not own your home, please contact the homeowner for this information.

Council member Pat Meysenburg made a motion to adjourn. Council Member Kevin Woita seconded the motion. The motion carried and Mayor Miller declared the meeting adjourned at 8:17 p.m.

Jim Angell: Yea, Tom Kobus: Yea, Keith Marvin: Absent, Bruce Meysenburg: Yea, Pat Meysenburg: Yea, Kevin Woita: Yea
Yea: 5, Nay: 0, Absent: 1



CERTIFICATION OF MINUTES
April 5, 2023

I, Tami Comte, duly qualified and acting City Clerk for the City of David City, Nebraska, do hereby certify with regard to all proceedings of April 5, 2023; that all of the subjects included in the foregoing proceedings were contained in the agenda for the meeting, kept continually current and available for public inspection at the office of the City Clerk; that such subjects were contained in said agenda for at least twenty-four hours prior to said meeting; that the minutes of the meeting of the City Council of the City of David City, Nebraska, were in written form and available for public inspection within ten working days and prior to the next convened meeting of said body; that all news media requesting notification concerning meetings of said body were provided with advance notification of the time and place of said meeting and the subjects to be discussed at said meeting.

Tami Comte, City Clerk