



## **SMALL WORKS CONTRACT INVITATION TO BID (ITB)**

**For**

### **Standby Generator Annual Preventative Maintenance Bid No. 24-25**

**Released: June 20, 2024**

**Due: 2:00PM, July 11, 2024 to [bids@mercerisland.gov](mailto:bids@mercerisland.gov)**

#### **PROJECT INFORMATION**

The City of Mercer Island, Washington is requesting bid proposals from qualified generator maintenance and service firms for Standby Generator Annual Preventative Maintenance, Bid 24-25. The services to be provided under this ITB are for provision of labor, supervision, equipment, miscellaneous tools and materials, and technical expertise necessary to perform complete testing, inspection, maintenance, repair and emergency services on twenty seven (27) standby generators on the Island, in accordance with manufacturer's recommendation and as further described in the Scope of Services section.

#### **GENERAL CONTRACT INFORMATION**

The purpose is to establish, through a competitive bidding process utilizing the MRSC Small Works Roster, a contractor to perform generator annual preventative maintenance at twenty-seven (27) water, sewer, facility, and fire sites as further described in the Scope of Services for the City of Mercer Island, Mercer Island, WA 98040. A non-exclusive contract is to be awarded from this request.

#### **TERM AND ESTIMATED COST**

The contract shall be effective on the date of award and shall expire December 31, 2024. It may be extended for up to two (2) twelve-month terms, for an amended expiration no later than December 31, 2026. Twelve-month term extensions shall be subject to:

- Pricing for the two optional twelve (12) month term extensions, for years 2025 and 2026.
- City of Mercer Island's approval of an extension of services.
- The Contractor's compliance with the terms and conditions as established by the pricing agreement.
- The Contractor's satisfactory performance, and timely compliance with the requirements of these specifications.

Optional Bid Item Prices for 2025 and 2026 Preventative Maintenance shall account for cost escalation. The escalation factor applied to the 2025 and 2026 Preventative Maintenance bids will apply equally to all generator sites (Schedule A Bid Items 1-27) for that year. Labor Rates for 2025 and 2026 Emergency and Incidental Repair Services will be negotiated prior to approval of extension of services. Repair part material markup percentages listed at time of bid shall be locked in for the duration of the contract.

Preventative maintenance services shall be scheduled for completion by October 15<sup>th</sup> of each year.

The engineer's estimate for the work is \$48,000 to \$56,000. The actual value the selected contractor will be paid will be based upon the actual work performed on the project and prices submitted in the Bid. It is to be understood that generators can be added, replaced, or subtracted from the list during the life of the agreement without penalty or premium. Over the contract term if more work arises, the City reserves the right to increase the overall contract amount through a Change Order.

#### **DELIVERY OF BID**

All required bid forms shall be submitted as a PDF. Submit electronically to [bids@mercerisland.gov](mailto:bids@mercerisland.gov).

All submittals shall be clearly titled: "BID PROPOSAL – Standby Generator Annual Preventative Maintenance".

Due Date: **July 11, 2024**

Time: **by 2:00 PM (PST)**

Contractors that deviate from this format or alter this form shall be deemed non-responsive. Contractors accept all risk of late delivery regardless of fault. Any pricing quote received after the due date and time shall be deemed non-responsive. The City of Mercer Island reserves the right to reject any and all submittals and to waive irregularities and informalities in the submittal and evaluation process. This Invitation to Bid does not obligate the City to pay any costs incurred by respondents in the preparation and submission of a bid proposal. Furthermore, this request does not obligate the City to accept or contract for any expressed or implied services. The selected contractor will be required to meet and agree to all the conditions in this Invitation to Bid (ITB) and its attachments, as well as the Required Bid Forms, **EXHIBIT "A"**, the SAMPLE Contract Documents, **EXHIBIT "B"**, and the City's General Terms and Conditions, **EXHIBIT "C"**.

#### **SUBMITTAL REQUIREMENTS**

No bid shall be considered except those submitted in the forms referenced below. Substitutions will not be accepted during the bid process. Do not leave any space blank.

Please complete and sign ALL five (5) **EXHIBIT "A" REQUIRED BID FORMS**.

##### **EXHIBIT "A" REQUIRED BID FORMS**

- 1)  Bid Proposal Form
- 2)  Non-Collusion Declaration
- 3)  Contractor Declaration
- 4)  Bidders Qualification Certificate

All required submittal documents must be signed by an authorized representative, having authority to sign on behalf of the Contractor.

By signing these documents, the Contractor agrees that they are familiar with the local conditions affecting the performance of the work and the cost of the work at the place where the work is to be done. The Contractor further agrees to furnish all labor, materials, equipment, tools, traffic control measures, and any other items necessary to perform and complete the work.

## **SITE VISITATION**

No pre-bid meeting will be held. Site visitation can be arranged by contacting Chris Marks at 206-677-1027, or sending email request to [chris.marks@mercerisland.gov](mailto:chris.marks@mercerisland.gov). The attachments to this ITB show the location of the work. Bidders in their own interest are advised to inspect and examine the site of proposed work and obtain, at their own responsibility, all information that may be necessary for preparing the Bid and entering into a Contract.

## **INTERPRETATION OF CONTRACT DOCUMENTS**

Questions regarding the project may be directed to Chris Marks, Utilities Engineer, at [chris.marks@mercerisland.gov](mailto:chris.marks@mercerisland.gov). Questions are to be received no later than 12:00 PM, July 5, 2024. Any oral communication will be considered unofficial and non-binding. Questions via phone will not be accepted. All questions received will be compiled, and responses will be sent to all solicited contractors prior to the closing of bids.

## **BID ERRORS**

In the event of a discrepancy between the unit price and the total price for any bid item, the unit price will govern, and the total item price will be adjusted accordingly. If the Bid is an incorrect total of all bid items included in the bid proposal, the total bid price will be corrected.

## **BIDDER RESPONSIBILITY**

It is the intent of the City to award the contract to the lowest responsible bidder. In accordance with the Revised Code of Washington (RCW) 39.04, before award of a public works contract, a bidder must meet the following state responsibility criteria, to be considered a responsible bidder and qualified to be awarded the project.

The Bidder must, at the time of bid submittal, have the following:

1. A current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal.
2. A current Washington Unified Business Identifier (UBI) number.
3. Not be disqualified from bidding on any public works contract under RCW 39.06.010, RCW 39.12.050, RCW 39.12.055, or 39.12.065.
4. If applicable:
  - a. Have Industrial Insurance (workers' compensation) coverage for the Bidder's employees working in Washington State, as required in Title 51 RCW.
  - b. Have a Washington State Employment Security Department number, as required in Title 50 RCW.
  - c. Have a Washington State Department of Revenue state excise tax registration number, as required in Title 82 RCW.
  - d. An electrical contractor license, if required by Chapter 19.28 RCW.
  - e. An elevator contractor license, if required by Chapter 70.87 RCW.
5. Completed the L&I online training or meet the prior experience requirements in RCW 39.04.350(1)(f).
6. Within the three-year period immediately preceding the date of the bid solicitation, not have been determined by a final and binding citation and notice of assessment issued by the department of labor and industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of chapter 49.46, 49.48, or 49.52 RCW.

## **SUBCONTRACTOR RESPONSIBILITY**

In accordance with RCW 39.06.020, a public works contractor must verify responsibility criteria for each first tier subcontractor, and a subcontractor of any tier that hires other subcontractors must verify responsibility criteria for each of its subcontractors. Verification shall include that each subcontractor, at the time of subcontract execution, meets all of the requirements in the previous Bidder Responsibility criteria. The City reserves the right to review the procedure that the selected Bidder uses in validating the responsibility of any subcontractors.

## **QUESTIONS/CLARIFICATIONS**

The City reserves the right to request any respondent to clarify or correct its proposal or to supply any additional material deemed necessary to assist in determining a responsive proposal. Modification of a submitted proposal will be considered only if the request is received prior to the submittal deadline. All modifications and/or corrections must be made in writing and executed and submitted in the same format and manner as the original proposal. The City reserves the right to change the scope of work, duration of term, or issue addendums at any time. The City also reserves the right to cancel, change or re-issue this request at any time.

## **ACKNOWLEDGEMENT OF ADDENDA**

Each Bidder shall include on the Bid Proposal Form, **EXHIBIT "A"**, specific acknowledgment of receipt of each Addendum issued by the City during the bidding period. If the Bidder does not specifically acknowledge each addendum, the City may reject the bid as non-responsive unless the City determines from delivery records or from inclusion of information in the bid of information contained in the addenda that the Bidder received constructive notice of the addenda.

## **BASIS OF AWARD**

The City of Mercer Island will select and award the contract to the lowest responsible bidder, as determined by the City. Contract shall be awarded as per the Bid Proposal Form, **EXHIBIT "A"**. All rates and pricing submitted shall include all costs, including but not limited to all wages, benefits, the cost of tools, equipment, ancillary supplies, overhead, profit, taxes, permits, and other administrative fees associated with the performance of this contract. Washington State Prevailing Wage rates for King County shall apply. Contractor, and all subcontractors, must obtain a valid City of Mercer Island Business License at their sole expense. All applicable permits and bonds must also be obtained at the contractor's sole expense.

All blanks on the Bid Proposal Form shall be completed. A bid price shall be indicated in each section. Bidders electing to not furnish pricing for Optional Bid Items may enter the words "No Bid" or "Not Applicable" in the extended price column for those items.

Optional Bid Items are for consideration by the City and will not be used for determination of the apparent low bidder. The City has sole discretion to include or exclude Optional Bid Items for the Contract Award.

## **AWARD OF CONTRACT**

Upon selecting the lowest responsible bidder, the successful bidder will receive a Notice of Award letter and any required Contract Documents. The successful bidder must sign and return all Contract Documents to the City within ten (10) business days. If not returned within ten (10) business days, the City retains the right to cancel the award and go to the next lowest responsive, responsible bidder.

## **BID PROTEST**

Protests shall be in accordance with RCW 39.04.105. Only bidders that submitted a bid, subcontractors, or others that can show substantial economic interest in the bid award and who are aggrieved, are eligible to protest. After bid opening, protests are limited to issues related to bid opening, evaluation of bids, and intention to award decisions, and are further limited to those items that were not known or could not have been reasonably known prior to bid opening.

## **LABOR**

The Contractor shall, at all times, provide sufficient skilled personnel to complete and meet all deadlines for work orders or projects in a timely manner. At all times, there shall be one person or foreman authorized in making project decisions, including: ordering materials, negotiating change orders, attending project meetings when required, and ordering additional manpower when needed.

## **PREVAILING WAGE**

Before any payment shall be made, the selected Contractor and each subcontractor shall submit a "Statement of Intent to Pay Prevailing Wages" to the City. The Contractor is responsible for payment of all fees and shall make all applications and payments directly to the State Department of Labor and Industries.

Any contract resulting from this Invitation to Bid is subject to the requirements of RCW Chapter 39.12 and RCW 35.23.352, and as it may be amended, relating to prevailing wages and as set forth in the Sample Contract, included in **EXHIBIT "B"**. Current prevailing wage rates for King County can be obtained from the Washington State Department of Labor and Industries at <https://lni.wa.gov/licensing-permits/public-works-projects/prevailing-wage-rates/>.

## **PERMITS**

A right of way use permit will be required for generators located within the right of way. The City will perform all work necessary to secure these permits on behalf of the Contractor, at no cost to the Contractor.

## **BUSINESS LICENSE**

As mandated by Mercer Island City Code 4.10.100, the General Contractor awarded the contract and each Subcontractor working on the project will be required to obtain a City of Mercer Island Business License at their sole expense. The Contractor and each Subcontractor shall obtain a City of Mercer Island Business License prior to performing any work and maintain a current business license throughout the term of this contract with the City. A business license application can be obtained online at <https://dor.wa.gov/manage-business/city-license-endorsements/mercer-island>.

## **INSURANCE REQUIREMENTS**

The Contractor awarded the contract shall maintain current insurance as set forth in the Sample Contract, included in **EXHIBIT "B"**, and the Contractor shall name the City of Mercer Island as additionally insured on the policy endorsements. The Contractor is responsible for submitting all new insurance documents, via electronic transmission, to the City within ten (10) business days after expiration.

## **BID GUARANTEE:**

Not required.

## **PERFORMANCE/PAYMENT BOND**

The Contractor awarded the contract, at their sole expense, shall furnish a separate Performance Bond and Payment Bond each equal to one hundred percent (100%) of the contract, as set forth in the Sample Contract Documents, included in **EXHIBIT "B"**. Alternatively, pursuant to RCW 39.08.010, on contracts of one hundred fifty thousand dollars (\$150,000) or less, at the option of the Contractor, the City may, in lieu of the Performance and Payment Bond retain ten percent (10%) of the Contract amount.

The Performance Bond and Payment Bond shall be in force throughout the entire term of the contract including any extensions until final completion and acceptance by the City. All contract bonds shall be furnished by a corporate surety company authorized to do business in the State of Washington. The surety must be approved and appear on the most current revision of the U.S. Treasury Circular 570.

## **MEASUREMENT AND PAYMENT**

The Contract price shall constitute full compensation for furnishing all labor, materials, tools and equipment for performing all work and operations required as specified herein and shall be considered full compensation and shall include all minor items required for a complete job but not specifically mentioned in the scope of services, and items mentioned in the scope of services but not having a specific pay item. The Contract pricing shall include all overhead costs, transportation, insurance, profit, permitting, L&I filing fees, taxes and any other costs related to the work.

## **TAXES**

The bid form may include a line item for sales tax on the whole amount, or on items which are not exempt from tax under Washington State Department of Revenue rules, including WAC 458-20-170 and WAC 458-20-171. Unless there are separate line items in the bid form for Washington State sales tax, Contractor shall include all sales tax in its lump sum bid or unit prices. The Contractor should contact the Washington State Department of Revenue for answers to questions in this area. The City will not adjust its payment if the Contractor bases a bid on a misunderstood tax liability. Except as provided above, the Contractor is required to pay all applicable taxes. No adjustment will be made in the amount to be paid by City under the Contract because of any change in law or regulations covering any applicable taxes, or because of any misunderstanding by the Contractor as to its liability for or the amount of any taxes.

## **INVOICES**

Contractor shall submit properly completed invoice(s) electronically to Chris Marks, [chris.marks@mercerisland.gov](mailto:chris.marks@mercerisland.gov), or designated representative, and also to the Public Works Mailbox at [publicworks@mercerisland.gov](mailto:publicworks@mercerisland.gov). The awarded Contractor shall be paid upon submission of a properly itemized invoice based on the prices stipulated in the Bid Proposal Form, **EXHIBIT "A"**, for work performed in accordance with all payment and retainage.

Invoices must contain the following minimum information:

- A. Project Title
- B. Description of items/work completed with unit and total
- C. This statement, per RCW 39.12.040: "We certify that the prevailing wages have been paid in accordance with the pre-file statement or statements of intent to pay prevailing wages on file with the City of Mercer Island."

Invoices will be reviewed by the City before payment is made and the City's designated representative shall not authorize payment until, in their opinion, the work has been satisfactorily completed. The City may request that the Contractor file the affidavit prior to processing the final invoice.

#### **RETAINAGE**

The Contractor awarded the contract shall have five percent (5%), or ten percent (10%) if the In Lieu of Bond Contract was signed, of the Total Compensation retained by the City to assure payment of Contractor's state taxes as well as payment of subcontractors, suppliers, and laborers. If the Contractor awarded the contract submits a retainage bond, this will be at the sole expense of the Contractor.

#### **GIFTS & FAVORS:**

The City's Code of Ethics and Washington State law prohibit City employees from soliciting, accepting, or receiving any gift, gratuity or favor from any person, firm or corporation involved in a contract or transaction. To ensure compliance with the City's Code of Ethics and state law, the Contractor shall not give any gift, favor, or promise of any kind to City employees or officials.

#### **TERMINATION**

At any time, upon written notice, the City has the right to terminate this contract, with or without clause.

#### **WARRANTY & GUARANTY**

Contractor warrants that all Work conforms to the requirements of the Contract and is free from any defect in equipment, material, design, or workmanship performed by Contractor or its Subcontractors and Suppliers, as set forth in the City's General Terms and Conditions, **EXHIBIT "C"**. The warranty period shall be for the longer period of one year from the date of Final Acceptance of the entire Project's Work Orders or the duration of any special extended warranty offered by a supplier or common to the trade. The Contractor shall submit in writing their agreement to provide free of charge, replacement materials and labor for all failed or otherwise inoperative equipment. If, within an applicable warranty period, any part of the Work is found not to conform to the Contract, the Contractor shall correct it promptly after receipt of written Notice from the City to do so.

#### **TITLE VI NON-DISCRIMINATION**

The City of Mercer Island, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 23 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award

## **SCOPE OF SERVICES**

### **A. Scope**

1. Contractor shall provide all labor, supervision, equipment, miscellaneous tools and materials, and technical expertise necessary to perform complete testing, inspection, maintenance, repair and emergency services on twenty seven (27) standby generators located at various locations on the Island.
2. Contractor shall furnish all equipment required for these services in accordance with industry standards. All material and equipment supplied shall be new and of the highest quality and condition.
3. Any details of service not explicitly stated in this scope of services, but considered customary and accepted in accordance with industry standards, shall be provided to the City by the awarded contractor.
4. Generator locations and specifications are provided as attachments to this ITB.

### **B. Contractor Requirements**

1. All Contractors shall be qualified to test and service the equipment in accordance with the National Fire Protection Association (NFPA) and manufacturer's requirements.
2. All testing, inspection, and maintenance services shall be per NFPA 110, Standards for Emergency and Standby Power Systems, most current edition.
3. The Contractor shall have experience testing and servicing standby, commercial/industrial generators for a minimal period of at least three (3) years.
4. The City will secure all necessary ROW permits at no cost to the Contractor. The Contractor shall be responsible for meeting all the requirements of the approved ROW permit, to include providing all traffic control for sites impacting the traveled ROW. Traffic control shall meet WSDOT standard plan TC5 for Shoulder Closure – Low Speed, or equivalent.
5. The Contractor shall follow all confined space procedures based on their business practices and use their sole discretion to determine if a space can be de-classified according to their safety program.
6. The Contractor shall be responsible for providing and following their own established confined space entry equipment, procedures, and personnel. The City will NOT be responsible for providing personnel to act as confined space attendant.
7. The Contractor must be able to provide timely service as described in this proposal and maintain adequate stock of replacement parts inventory in order to meet the service requirements of the City.
8. The Contractor is required to submit an inspection sheet after the performance of each preventative maintenance service. This sheet shall include the results of each inspection, any corrective action taken and any recommended action to be taken.
9. The Contractor will supply a detailed report for each emergency service or repair. This report must contain a description of the problem and any corrective action taken.
10. All work shall be performed in a safe and professional manner and the work area shall be left in a neat and clean condition.
11. All generator inspections and load bank tests shall occur during these normal business hours, Monday through Friday between the hours of 7:00 am and 3:30 pm.
12. Inspections and Load Bank tests can be arranged based on the Contractor's schedule, but Contractor will need to notify the City 2 weeks prior to when the inspection date will happen.
13. Preventative maintenance services shall be completed by October 15<sup>th</sup> of each year.



## **C. Preventative Maintenance Tasks**

### **1. Starting System:**

- Clean batteries and cables.
- Check and record specific gravity if batteries are lead-acid or, check and record voltage readings if batteries are nickel-cadmium.
- Check for proper starter operations, noting any unusual noises.
- Check for proper cranking motor disconnect.
- Replace plugs, points, cap, rotor, condenser, clean as required. Check all connections in fuel, oil, cooling, battery, and exhaust systems.
- Inspect spark plugs, magneto and coils.

### **2. Battery Charging System:**

- Check battery charger for proper operation.
- Check battery charging alternator for proper output.
- Tighten and clean all battery connections.
- Check electrolyte level and fill.

### **3. Fuel System:**

- Check engine and supply system for any fuel leaks.
- Check operation of day tank pump and float switch.
- Check electrical and piping connections to day tank.
- Drain condenser from the bottom of the day tank.
- Change fuel filters
- Take sample of fuel for analysis [one (1) per year] and submit written report of the results of the analysis and recommend appropriate action.
- Fuel treatment (add stabilizer and biocide to fuel tanks)

### **4. Lube Oil System:**

- Check engine oil level.
- Check engine oil pressure.
- Take sample of lube oil for analysis [one (1) per year] and submit written report of the results of the analysis and recommend appropriate action.

- Change lube oil filter annually.
- Visual inspection of crankcase breather.

### **5. Air Intake System:**

- Check air cleaner condition. Replace air filters.
- Check turbocharger for excessive end play.
- Listen for any unusual noises from this area.
- Check air intake louvers for proper operation.
- Insure that air intake flow is not unduly restricted.

### **6. Exhaust System:**

- Inspect exhaust silencer, flexible connection, exhaust piping and manifold.
- Visually check exhaust outlet for excessive smoking.
- Visually check crankcase breather for excessive smoking.

### **7. Cooling System:**

- Check coolant level.
- Check for proper amount of anti-freeze.
- Check radiator core for obstruction or buildup of foreign matter.
- Check general condition of engine coolant.
- Check all belts for wear and proper tension.
- Check all hoses for cracks and brittleness.
- Check jacket water heaters and thermostats for proper operation.
- Take sample of coolant for analysis [one (1) per year] and submit written report of the results of the analysis and recommend appropriate action.

### **8. Speed Control System:**

- Check governor rods and linkage for loose or worn parts.
- Check governor operation under load.
- Tighten loose wiring connections and note any potential problems.

## **C. Preventative Maintenance Tasks**

### **9. Safety System:**

- Test over speed device.
- Test water temperature contactor.
- Test lube oil pressure contactor.
- Test over crank device.

### **10. A.C. Power Generator:**

- Make a general inspection of all electrical connections on regulator and generator.
- Grease bearings if necessary.
- Check and adjust voltage regulator.
- Inspect slip rings.

### **11. Engine Control Panel:**

- Inspect all electrical connections and tighten where necessary.
- Inspect condition of relay contacts.
- Thoroughly clean control panel.
- Check operation of all lights and replace any indicator lights not working.
- Replace any blown fuses.
- Check operation of main circuit breaker and leave in "READY" position.

### **12. General:**

- Carefully inspect engine for leaks or deterioration.
- Make note of any unusual sounds during walk-around inspections.
- Check and adjust voltage and frequency.
- Add engine fluids as required.
- Grease necessary fittings.
- General maintenance on jacket water heaters, engine plumbing, etc.

### **13. Fluid Change**

- One (1) engine oil and oil filter change per year.
- Coolant change as requested by owner.

### **14. Load Testing:**

- 2 hrs @ 100% factory rated output
- Check lube oil pressure
- Check water temperature
- Check Frequency
- Check current (all three phases)
- Check voltage (all three phases)
- Check Kilowatts
- Check auto start - stop move
- Check operation of transfer switch when requested by owner.

#### **D. Emergency and Incidental Repair Service**

1. Repair service shall be defined to include all corrective and incidental work needed to maintain proper operation of the equipment as identified by the annual inspections, and/or recommended by the manufacturer, and/or as requested by the City, excluding those services covered by NFPA Testing and Inspection Service (Preventative Maintenance Tasks).
2. The contractor awarded Emergency and Repair Service under this proposal for each facility shall maintain a twenty-four (24) hour, seven (7) day per week emergency service coverage and a telephone number manned by personnel employed by the Contractor. Contractors must respond by phone within one (1) hour of notification, and be on site within four [4] hours of notification to attend to the respective equipment malfunction and/or failure. Serious equipment and/or system deficiencies or failures must be immediately reported to the City's representative or designee.
3. Emergency and Incidental Repairs shall only be performed with the authorization of an authorized City Representative.
4. Estimated quantities included on the bid form are for bid evaluation purposes only. Actual Emergency and Incidental Repair Service shall be billed separately on a time and material basis. Additional charges for travel time, mileage, fuel, and travel expenses shall not be allowed. Labor, travel, mileage, fuel, and/or truck charges shall be combined as one labor rate. The City will not accept nor authorize payment for travel time or expense of service personnel to any of the City locations. Labor hours shall accrue to the nearest quarter hour.
5. Replacement parts must be original manufacturer or meet original manufacturer specification. The Contractor is required to replace defective or failed parts with the same OEM brand ("like for like") unless otherwise authorized and instructed by the City's authorized designee. Replacement parts must be stocked locally and be available within twenty-four (24) hours. For UL listed parts, the Contractor will be responsible for replacing UL listed components with other UL listed components so as to maintain the entire system's UL rating. Replacement parts no longer covered by manufacturer warranty shall be paid for after installation and successful testing. All replacement parts, where applicable, shall be dated using a black permanent marker.
6. The City may, at their discretion, call an OEM factory authorized contractor for emergency repair and/or trouble-shooting, or any other service work for those components specific to the manufacturer requiring special knowledge and/or tools for expediency in restoring equipment to full service. The agency assumes responsibility for costs associated for this type of "non contract" service, and payments for this type of service shall be made directly to the OEM factory authorized contractor.

#### **E. Information on Generators**

1. The City has limited information on The generator specifications attached to this ITB may be incomplete and/or inaccurate. The Contractor shall, over the course of the Contract, confirm the generator specifications provided and submit to the City a complete and accurate record.
2. The date of last service for all sites was July 2023.



Summary of Generator Specifications

| No. | Address            | Location           | Location Description  | ROW Permit | Feature Type           | Generator Make/Model        | Generator S/N      | Engine                 | Engine S/N | Fuel Type | KW  | Output Voltage | Service Hours | Service    |
|-----|--------------------|--------------------|---|------------|------------------------|-----------------------------|--------------------|------------------------|------------|-----------|-----|----------------|---------------|------------|
| 1   | 8002 SE 20TH ST    | PS 1               | Enclosure on NE corner of 80TH AVE SE and SE 22ND WAY   | Y          | Above Ground Enclosure | Onan DKAE-5739081           | I050830013 Spec C  | Kubota V2203           | 05Q5670    | Diesel    | 20  | 120/240 3φ     | 2.0           | SEWER      |
| 2   | 2239 60TH AVE SE   | PS 4               | Generator building below EB I-90  | N          | Inside building        | Onan DSGAC-545819           | F090012069 Spec B  | Cummins QSB7-G3-NR3    | 73006744   | Diesel    | 150 | 120/240 3φ     | 2.0           |            |
| 3   | 9036 N MERCER WAY  | PS 10              | On parcel: 9042 N Mercer Way  | N          | Above Ground Enclosure | Onan DKAE-5739081           | I050830012         | Kubota V2203           | 05Q5539    | Diesel    | 20  | 120/240 3φ     | 671.9         |            |
| 4   | 3309 97TH AVE SE   | PS 11              | Vault adjacent to roadway   | Y          | Vault                  | Onan 40.0DL-6TL/25326A      | F880131432         | Cummins L834T-I/101480 | K873294254 | Diesel    | 40  | 120/240 3φ     | 1825.7        |            |
| 5   | 3897 W MERCER WAY  | PS 13              | Vault in middle of roadway adjacent to sport court  | Y          | Vault                  | Onan C25 D6                 | B190508122         |                        |            | Diesel    | 20  | 120/240 3φ     | 117.9         |            |
| 6   | 4315 FOREST AVE SE | PS 14              | N side Forest Ave SE  | Y          | Vault                  | Onan DSKBA-1404497          | E140680076         | Kubota V2203           | 70V1683    | Diesel    | 25  | 120/240 3φ     | 234.8         |            |
| 7   | 4765 FOREST AVE SE | PS 15              | Up the hill from pump station. On left side of road while driving down to access pump station | Y          | Above Ground Enclosure | Onan DGBB-5930470           | I070104553 Spec L  | Cummins 4BTA3.9-G5     | 21793321   | Diesel    | 35  | 120/240 3φ     | 539.2         |            |
| 8   | 5495 W MERCER WAY  | PS 16              | Above ground enclosure straight ahead from access road  | N          | Above Ground Enclosure | Onan DGBB-5930471           | I070104552 Spec L  | Cummins 4BTA3.9-G5     | 21798687   | Diesel    | 35  | 120/240 3φ     | 695.2         |            |
| 9   | 6415 77TH AVE SE   | PS 17              | East of pump station approx. 200' along road  | Y          | Vault                  | Onan C30 D6/GD03C-1655393   | J160111947         | Cummins 4BT3.3G5       | 72028948   | Diesel    | 30  | 120/240 3φ     | 136.9         |            |
| 10  | 7220 HOLLY HILL DR | PS 18              | N side Holly Hill Dr  | N          | Vault                  | Onan C40 D6                 | L160126136 Spec A  | Cummins 4BT3.3G5       | 72021380   | Diesel    | 40  | 120/240 3φ     | 90.7          |            |
| 11  | 7697 W MERCER WAY  | PS 19              | Along WMW on East side. Across from Pump station access driveway                              | Y          | Above Ground Enclosure | Onan DGCA-5930468           | I070104554 Spec U  | Cummins 4BTA3.9-G5     | 21798693   | Diesel    | 50  | 120/240 3φ     | 554.3         |            |
| 12  | 8790 85TH AVE SE   | PS 20              | North of pump station approx. 50'   | Y          | Vault                  | Onan DGCA-5744834           | K05087216 Spec T   | Cummins 4BT3.9-G4      | 46547637   | Diesel    | 50  | 120/240 3φ     | 985.9         |            |
| 13  | 8004 E MERCER WAY  | PS 21              | Above ground entrance in gated enclosure  | N          | Vault                  | Onan DSFAC-6071239          | J100162561         | Cummins QSB5-G3-NR3    | 73135495   | Diesel    | 50  | 120/240 3φ     | 374.0         |            |
| 14  | 6223 E MERCER WAY  | PS 22              | In backyard of 6210 EMW, on E end of property approx. 90' from road.                          | N          | Vault                  | Onan DKAF-5764419           | F0609342470 Spec E | Kubota F2803           | 5Y0070     | Diesel    | 25  | 120/240 3φ     | 673.3         |            |
| 15  | 5406 96TH AVE SE   | PS 23              | Vault in parking lot to west of PS23  | N          | Vault                  | Onan DKAF                   | F060932470         |                        |            | Diesel    | 25  | 120/240 3φ     |               |            |
| 16  | 4606 E MERCER WAY  | PS 24              | Vault in parking space above house  | N          | Vault                  | Cummins C25D6/GD03C-1659591 | K160119820 Spec A  |                        |            | Diesel    | 25  | 120/240 3φ     | 124.1         |            |
| 17  | 4266 E MERCER WAY  | PS 25              | North of pump station by approx. 10'  | N          | Vault                  | Cummins 20.0DL4-15R/25258D  | KB70946532         | Onan LF23D-I/103906    | K873236410 | Diesel    | 20  | 120/240 3φ     | 1989.4        |            |
| 18  | 4350 88TH AVE SE   | Reservoir BPS      | SW wall of pump room  | N          | Inside building        | Cummins 500FDR8041GG-F500 W | RH-322-4633        | Cummins NT-855-G       | 44326      | Diesel    | 235 | 120/240 3φ     | 749.6         | WATER      |
| 19  | 7401 SE 32ND ST    | First Hill BPS     | North wall of vault   | N          | Vault                  | Onan 50.0DGCA-L/30481A      | D900310372         | Cummins 4BT-3.9        | 44454655   | Diesel    | 50  | 120/240 3φ     | 952.8         |            |
| 20  | 9601 SE 36TH ST    | City Hall          | West of DSG wing  | N          | Above Ground Enclosure | Onan DGDB-4483858           | G000123945 Spec M  | Cummins 6BT5.9-G6      | 46004436   | Diesel    | 100 | 120/240 3φ     |               | FACILITIES |
| 21  | 9611 SE 36TH ST    | PW                 | West of Fred's Office   | N          | Above Ground Enclosure | Onan DGHE-5696235           | K04715213 Spec B   | Cummins B3.3-G2        | 68027443   | Diesel    | 50  | 120/240 3φ     |               |            |
| 22  | 9601 SE 36TH ST    | City Hall Portable | In upper garage   | N          | Portable               | Onan C60D6R                 | A130441296 Spec C  | Cummins QSB5-G1 NR3    | 73378594   | Diesel    | 60  | 120/240 3φ     | 25.9          |            |
| 23  | 9601 SE 36TH ST    | EOC Portable       | In upper garage   | N          | Portable               | Kohler 20RZ                 | 177780             |                        |            | Propane   | 20  | 120/240 3φ     |               |            |
| 24  | 8236 SE 24TH ST    | MICEC              | North of building   | N          | Above Ground Enclosure | Onan DSHAC-5937744          | K070122607 Spec C  |                        |            | Diesel    | 200 | 277/480 3φ     |               |            |
| 25  | 8473 SE 68TH ST    | Fire Station 92    | Behind building   | N          | Above Ground Enclosure | Onan 60DGCB                 | A050739502         | Cummins 4B             | 60134855   | Diesel    | 60  | 120/240 3φ     |               | FIRE       |
| 26  | 3030 78TH AVE SE   | Fire Station 91    | Behind building   | N          | Above Ground Enclosure | Onan DSFAD-6316557          | A110186758 Spec D  |                        |            | Diesel    | 60  | 120/240 3φ     |               |            |
| 27  | 3030 78TH AVE SE   | Fire Portable      | In back parking lot   | N          | Portable               | Onan 20 DL4-3R/26707D       | I840727650         | Onan L423D-I/10198B    | G843810321 | Diesel    | 20  | 120/240 1φ     |               |            |

| SIGN SPACING = X (1)  |                |            |
|---|----------------|------------|
| RURAL ROADS & URBAN ARTERIALS                                     | 35 / 40 MPH    | 350' ±     |
| RURAL ROADS, URBAN ARTERIALS,<br>RESIDENTIAL & BUSINESS DISTRICTS | 25 / 30 MPH    | 200' ± (2) |
| URBAN STREETS   | 25 MPH OR LESS | 100' ± (2) |

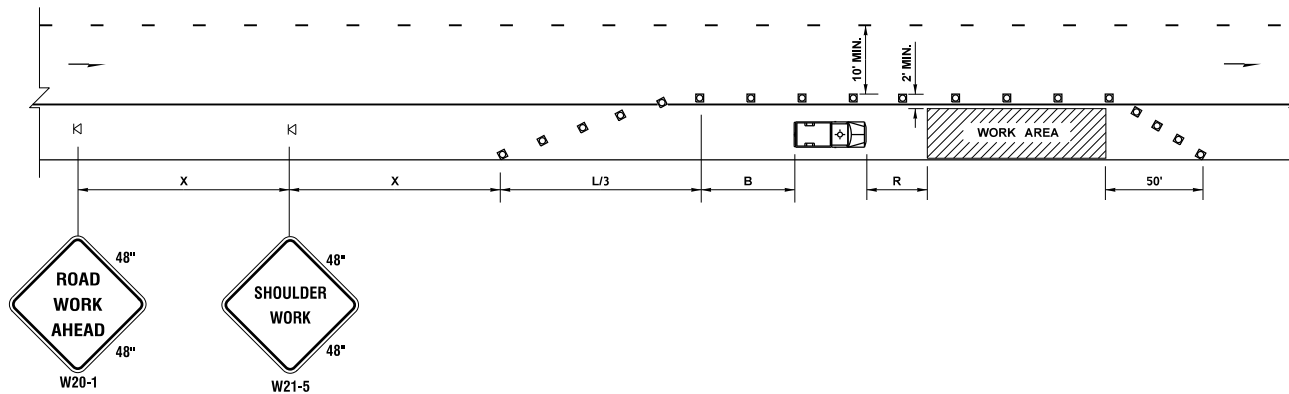
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

| MINIMUM SHOULDER TAPER LENGTH = L/3 (feet) |                    |    |    |    |    |    |    |    |    |    |
|--|--------------------|----|----|----|----|----|----|----|----|----|
| SHOULDER WIDTH (feet)                      | Posted Speed (mph) |    |    |    |    |    |    |    |    |    |
|  | 25                 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 8'   | 40                 | 40 | 60 | 90 | -  | -  | -  | -  | -  | -  |
| 10'  | 40                 | 60 | 90 | 90 | -  | -  | -  | -  | -  | -  |

USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'

| BUFFER DATA                                      |           |          |          |           |                                      |          |           |          |          |           |
|--|-----------|----------|----------|-----------|--------------------------------------|----------|-----------|----------|----------|-----------|
| LONGITUDINAL BUFFER SPACE = B                    |           |          |          |           |                                      |          |           |          |          |           |
| SPEED (MPH)                                      | 25        | 30       | 35       | 40        | 45                                   | 50       | 55        | 60       | 65       | 70        |
| LENGTH (feet)                                    | 155       | 200      | 250      | 305       | 360                                  | 425      | 495       | 570      | 645      | 730       |
| TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R |           |          |          |           |                                      |          |           |          |          |           |
| HOST VEHICLE WEIGHT<br>9,900 TO 22,000 lbs.      |           |          |          |           | HOST VEHICLE WEIGHT<br>> 22,000 lbs. |          |           |          |          |           |
| < 45 MPH   | 45-55 MPH | > 55 MPH | < 45 MPH | 45-55 MPH | > 55 MPH                             | < 45 MPH | 45-55 MPH | > 55 MPH | < 45 MPH | 45-55 MPH |
| 100'   | 123'      | 172'     | 74'      | 100'      | 150'                                 |          |           |          |          |           |
| PROTECTIVE VEHICLE (WORK VEHICLE) = R            |           |          |          |           |                                      |          |           |          |          |           |
| NO SPECIFIED DISTANCE REQUIRED                   |           |          |          |           |                                      |          |           |          |          |           |

| CHANNELIZATION DEVICE SPACING (feet) |       |         |
|--------------------------------------|-------|---------|
| MPH                                  | TAPER | TANGENT |
| 35/40                                | 30    | 60      |
| 25/30                                | 20    | 40      |



| LEGEND |                         |
|--------|-------------------------|
| K      | TEMPORARY SIGN LOCATION |
| □      | CHANNELIZING DEVICES    |
| ☐      | PROTECTIVE VEHICLE      |

## SHOULDER CLOSURE - LOW SPEED (40 MPH OR LESS)

NOT TO SCALE

### NOTES

1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
2. ALL SIGNS ARE BLACK ON ORANGE.

|   |  |                  |  |                  |  |      |  |                |  |
|---|--|------------------|--|------------------|--|------|--|----------------|--|
| FILE NAME: S:\Design_R_P&_S\4-Standards\2-Plan Sheet Library\01-Published_PSL(TC) Work Zone Traffic Control(TC-5) Shoulder Closure -Low Speed (40 MPH or Less)\TC-5.dgn |  | REGION NO. STATE |  | FED.AID PROJ.NO. |  | DATE |  | PLOT 1         |  |
| TIME: 2:59:41 PM  |  | WASH             |  |                  |  |      |  | PLAN REF NO    |  |
| DATE: 1/2/2018  |  | JOB NUMBER       |  |                  |  |      |  | TC5            |  |
| PLOTTED BY: lldelf  |  | CONTRACT NO.     |  | LOCATION NO.     |  |      |  | SHEET          |  |
| DESIGNED BY:  |  |                  |  |                  |  |      |  | OF             |  |
| ENTERED BY:   |  |                  |  |                  |  |      |  | SHEETS         |  |
| CHECKED BY:   |  |                  |  |                  |  |      |  |                |  |
| PROJ. ENGR.:  |  |                  |  |                  |  |      |  |                |  |
| REGIONAL ADM.:  |  | REVISION         |  | DATE             |  | BY   |  | DATE           |  |
|   |  |                  |  |                  |  |      |  | P.E. STAMP BOX |  |
|   |  |                  |  |                  |  |      |  | P.E. STAMP BOX |  |



TRAFFIC CONTROL PLAN