

ADVERTISEMENT
REQUEST FOR PROPOSALS
ENGINEERING SERVICES

Sealed Proposals, in addition to those submitted online, will be received at the City Clerk's Office, 100 E. First Street, Grand Island, NE 68801 or P.O. Box 1968, Grand Island, NE 68802 until 4:00 PM. (local time) on October 18th, 2022, for furnishing a Proposal for "ENGINEERING SERVICES". Proposals received after the specified time will be returned unopened to sender.

The specifications, and any addenda, may be viewed on-line at www.grand-island.com under Business-Bid Calendar. Documents for use in preparing the Proposal may be downloaded from the Quest CDN website, www.QuestCDN.com for a thirty-dollars (\$30) fee.

Proposals shall be marked "ENGINEERING SERVICES". All Proposals must be signed and dated in order to be accepted. The original Proposal and two (2) additional complete copies (3 total) shall be submitted for evaluation purposes. If Proposals are being submitted online via QuestCDN, the submitter is NOT required to submit hard copies. Proposals not containing the correct number of copies will not be considered.

Proposals will be evaluated by the Purchaser based on the Vendor's responsiveness, company experience, personnel experience, commercial terms, and fees.

The chosen Vendor will be required to comply with the City's insurance requirements and fair labor standards.

Proposals shall remain firm for a period of sixty (60) days after Proposal due date. The City of Grand Island reserves the right to reject any or all Proposals and to waive technicalities therein and accept whichever Proposal that may be in the best interest of the City of Grand Island, at its sole discretion.

The City of Grand Island does not discriminate on the basis of disability in admission of its programs, services, or activities, in access to them, in treatment of individuals with disabilities, or in any aspect of their operations. The City of Grand Island also does not discriminate on the basis of disability in its hiring or employment practices.

This notice is provided as required by Title II of the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. Questions, complaints, or requests for additional information or accommodation regarding the ADA and Section 504 may be forwarded to the designated ADA and Section 504 compliance coordinator.

RaNae Edwards, City Clerk

ENGINEERING SERVICES - CONTRACT AGREEMENT

THIS AGREEMENT made and entered into by and between **[SUCCESSFUL BIDDER]**, hereinafter called the Contractor, and the City of Grand Island, **NEBRASKA**, hereinafter called the City.

WITNESSETH:

THAT, WHEREAS, in accordance with law, the City has caused contract documents to be prepared and an advertisement calling for proposals to be published for *ENGINEERING SERVICES*; and

WHEREAS, the City, in the manner prescribed by law, has evaluated the proposals submitted, and has determined the aforesaid Contractor to be the responsible proposer, and has duly awarded to the said Contractor a contract therefore, for the sum or sums named in the Contractor's proposal, portions thereof being attached to and made a part of this contract.

NOW, THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements herein contained, the parties have agreed and hereby agree, the City for itself and its successors, and the Contractor for itself, him/herself, or themselves, and its, his, or their successors, as follows:

ARTICLE I. That the following documents shall comprise the Contract, and shall together be referred to as the "Agreement" or the "Contract Documents";

1. This Contract Agreement.
2. Vendors Proposal
3. City of Grand Island's Request for Proposals.

City of Grand Island's Request for Proposals.

In the event of any conflict between the terms of the Contract Documents, the provisions of the document first listed shall prevail.

ARTICLE II. That the Contractor shall (a) furnish all tools, equipment, superintendence, transportation, and other construction materials, services and facilities; (b) provide and perform all necessary labor; and (c) in a good substantial and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the contract documents as listed in the attached General Specifications, said documents forming the contract and being as fully a

part thereof as if repeated verbatim herein, perform, execute, construct and complete all work included in and covered by the City's official award of this contract to the said Contractor, such award being based on the acceptance by the City of the Contractor's proposal;

ARTICLE III. That the City shall pay to the Contractor for the performance of the work embraced in this contract and the Contractor will accept as full compensation therefore the sum (subject to adjustment as provided by the contract) of **[DOLLAR AMOUNT] (\$00.00)** for all services and work covered by and included in the contract award and designated in the foregoing Article II; payments thereof to be made in cash or its equivalent in the manner provided in the General Specifications.

The total cost of the Contract includes:

Base Bid:	\$.00
Sales Tax on Materials/Equipment:	\$.00
Sales Tax on Labor:	<u>\$</u>	<u>.00</u>
Total	\$.00

The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

ARTICLE IV. The Contractor hereby agrees to act as agent for the City. The invoice for contractor's services will be paid after approval at the next regularly scheduled City Council meeting and occurring after departmental approval of invoice. The City Council typically meets the second and fourth Tuesday of each month. Invoices must be received well in advance of Council date to allow evaluation and processing time.

ARTICLE V. The Contractor agrees to comply with all applicable State fair labor standards in the execution of this contract as required by Section 73-102, R.R.S. 1943. The Contractor further agrees to comply with the provisions of Section 48-657, R.R.S. 1943, pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. During the performance of this contract, the Contractor and all subcontractors agree not to discriminate in hiring or any other employment practice on the basis, of race, color, religion, sex, national origin, age or disability. The Contractor agrees to comply with all applicable Local, State and Federal rules and regulations. The Contractor agrees to maintain a drug-free workplace policy and will provide a copy of the policy to the City upon request. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system

to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

GRATUITIES AND KICKBACKS

City Code states that it is unethical for any person to offer, give, or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefor. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

[SUCCESSFUL PROPOSAL]

By _____ Date _____

Title _____

CITY OF GRAND ISLAND, NEBRASKA

By _____ Date _____
Mayor

Attest: _____
City Clerk

The contract is in due form according to law and hereby approved.

Attorney for the City Date _____

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1.0 SCOPE

The City of Grand Island is requesting proposals, for engineering services, to complete the following studies/reports between January 1st, 2023, and January 1st, 2028:

- 2023 and 2026 Water Cost of Service Study
- 2023 and 2027 Wastewater Cost of Service Study
- 2024 and 2027 Electric Cost of Service Study
- 2027 Integrated Resource Plan

2.0 ELECTRIC COST OF SERVICE STUDY

2.1 BACKGROUND

The last completed cost of service study was done in 2021. No rate adjustments were made at that time. The existing rate structure can be found in Chapter 15 (Electric) of the City Code: http://city.grand-island.com/City_Code/ref_code_index.htm. Other pertinent charges can be found in the City Fee Schedule: <https://www.grand-island.com/departments/finance/audit-reports>.

It is the Departments intent to analyze how the cost burden is being allocated by class and whether The City of Grand Island can continue to project a revenue neutral budget going forward.

The Power Cost Adjustment (PCA), as detailed in the aforementioned section of the City code, is another variable that is to be analyzed in this study. The PCA is used to compensate for fluctuating variable production costs. As part of this study, it is the Departments intent to evaluate the current Power Cost Adjustment calculation to determine its suitability in recovering purchased power costs.

2.2 SCOPE

The Cost of Service Study should include the following:

2.2.1 ASSESS BURDEN BY RATE CLASS

Assess the Departments current rate burden by class (Residential, Commercial, Governmental, and Industrial). This includes assessing cost burden for each class and how the rate structure compares to other regional power providers. Information should deliver facts, numbers, and recommended burden shifts, if deemed necessary, to provide a fair price to each customer class.

2.2.2 ASSESS CLASS STRUCTURE

Assess the Departments current rate class structure. Research and recommend whether the existing class structure is the best fit for the City or if changes to the existing class structure may provide an economic benefit. Provide pros and cons of maintaining the existing class structure versus other recommended class structures.

2.2.3 ASSESS REVENUE

Assess whether the Departments current revenue stream is sufficient to fund proposed future capital and O&M expenditures while maintaining a revenue neutral budget. If projections show that revenue will not be sufficient, provide recommendations on how to incorporate the shortfall into the rate structure.

2.2.4 ASSESS CURRENT FINANCIAL SITUATION

Analyze Departments current capital expenditures, depreciation schedule, and unrestricted cash balance. Provide feedback on industry best practices involving days of cash on hand with regard to annual O&M expenses and debt services.

2.2.5 ASSESS FEES

Assess all current variables affecting the existing rate structure including (but not limited to) customer base rates, power costs, demand charges, power cost adjustment mill levy, and streetlight fees. Recommend changes, as deemed reasonable and necessary, to best minimize the Departments risk in regard to fluctuations in load demand and rate class demographics.

2.2.6 CASH RESERVES

Analyze the Utilities cash reserve policy to verify it is sufficient, yet not overabundant.

2.2.7 PROVIDE FINANCIAL FORECAST

Develop a 5-year financial forecast including projected revenues, expenses, capital improvement expenditures, debt service expenditures, O&M expenditures, cash flows, monthly power cost adjustment, and other pertinent financial criteria for the following five (5) budget years. Use projected population growth for each rate class and a projected cost of power escalator. Power cost projection assumptions shall be based on sound reasoning and detailed as to why the given projection was chosen.

2.2.8 PERFORM A SENSITIVITY ANALYSIS

A sensitivity analysis shall be run to determine rate structures susceptibility to variations in:

- Future load demand (10% increase/decrease)
- Susceptibility to SPP Wholesale Power Prices (25% increase/decrease)
- Susceptibility to Coal Prices (25% increase/decrease)
- Capital improvement expenditures (25% increase/decrease)

Determine the effect of stepped variations in each variable and their effect on revenue.

2.3 SUBMITTALS

After documents are reviewed by the City of Grand Island, the Consultant shall provide three (3) bound copies of the report in addition to a digital version. In no specific order, reports shall include but are not limited to:

- Introduction
- Historic and projected loads used in analysis (by rate class)
- Itemized historic and projected revenue/income used in analysis
- Itemized historic and projected expenditures used in analysis
- Historic and projected population growth used in analysis (by rate class)
- Historic and projected power prices used in analysis
- Historic and projected Capital Improvements/Debt Service/Depreciation used in analysis
- Detailed description of any proposed rate adjustment(s) and corresponding revenue adjustment(s) by class.
 - At minimum, the following thresholds should be detailed (both with and without recommended rate adjustment(s) in place):
 - Residential (500 kWh, 1,000 kWh, 2,500 kWh)
 - Commercial Single Phase (5,000 kWh, 10,000 kWh, 25,000 kWh)
 - Commercial Three Phase (5,000 kWh, 10,000 kWh, 25,000 kWh)
 - Power Service Three Phase (100 kW Demand, 55,000 kWh); (500 kW Demand, 225,000 kWh); (1,000 kW Demand, 525,000 kWh)
- Provide and detail reasoning regarding any proposed changes to customer base rates, power costs, demand charges, power cost adjustment mill levy, and streetlight fees.
- A graphical depiction of how any new rate structure compares, by customer, in relation to other regional power providers
- A written summary of the sensitivity analysis results
- Summary assessing current financial situation per Section 2.2.4.
- The document must be signed and sealed by a licensed Nebraska Engineer.

2.4 SCHEDULE

The City's current budget year ends on October 1st of each year. An official audit will be available, each year, by March 1st. A representative(s) for the consultant shall meet onsite, or via an online meeting application, with City of Grand Island representative(s) upon receipt of the Annual Electric Audit. (Note: Past Audits can be found here: <https://www.grand-island.com/departments/finance/audit-reports> and Past Budgets can be found here: <https://www.grand-island.com/departments/finance/audit-reports>.)

Prior to receiving the audit, and at least two (2) weeks before the kickoff meeting, the consultant should supply the City of Grand Island a list of items they anticipate needing

for their report. Documents will be presented to the Consultant at the kickoff meeting. Any 'discovery' items from the kickoff meeting will be provided at a later date.

The full parameters of this report should be completed no later than June 1st of the given year denoted in Section 1.0.

3.0 WATER COST OF SERVICE STUDY

3.1 BACKGROUND

The last completed cost of service study was done in 2020. No rate adjustments were made at that time. The existing rate structure can be found in Chapter 35 (Water) of the City Code: http://city.grand-island.com/City_Code/ref_code_index.htm. Other pertinent charges can be found in the City Fee Schedule: <https://www.grand-island.com/departments/finance/fee-schedule>.

It is the Departments intent to analyze how the cost burden is being allocated by class and whether the City of Grand Island can continue to project a revenue neutral budget going forward.

3.2 SCOPE

The Cost of Service Study should include the following:

3.2.1 ASSESS BURDEN BY RATE CLASS

Assess the Departments current rate burden by class (Within City Limits, Outside of City Limits, Industrial/Commercial, Residential). This includes assessing cost burden for each class and how the rate structure compares to other regional power providers. Information should deliver facts, numbers, and recommended burden shifts, if deemed necessary, to provide a fair price to each customer class.

3.2.2 ASSESS CLASS STRUCTURE

Assess the Departments current rate class structure. Research and recommend whether existing class structure is the best fit for the City or if changes to the existing class structure may provide an economic benefit. Provide pros and cons of maintaining the existing meter charge versus other fixed fee reimbursement options.

3.2.3 ASSESS REVENUE

Assess whether the Departments current revenue stream is sufficient to fund proposed future capital and O&M expenditures while maintaining a revenue neutral budget. If projections show that revenue will not be sufficient, provide recommendations on how to incorporate the shortfall into the rate structure.

3.2.4 ASSESS CURRENT FINANCIAL SITUATION

Analyze Departments current capital expenditures, depreciation schedule, and unrestricted cash balance. Provide feedback on industry best practices involving days of cash on hand with regard to annual O&M expenses and debt services.

3.2.5 ASSESS FEES

Assess all current variables affecting the existing rate structure including (but not limited to) meter charges and volumetric fees. Recommend changes, as deemed reasonable and necessary, to best minimize the Departments risk in regard to fluctuations in volumetric demand and rate class demographics.

3.2.6 CASH RESERVES

Analyze the Departments cash reserve policy to verify it is sufficient, yet not overabundant.

3.2.7 PROVIDE FINANCIAL FORECAST

Develop a 5-year financial forecast including projected revenues, expenses, capital improvement expenditures, debt service expenditures, O&M expenditures, cash flows, and other pertinent financial criteria for the following five (5) budget years. Use projected population growth for each rate class.

3.2.8 PERFORM A SENSITIVITY ANALYSIS

A sensitivity analysis shall be run to determine rate structures susceptibility to variations in:

- Future volumetric demand (10% increase/decrease)
- Capital improvement expenditures (25% increase/decrease)

Determine effect of stepped variations in each variable and their effect on revenue.

3.3 SUBMITTALS

After documents are reviewed by the City of Grand Island, the Consultant shall provide three (3) bound copies of the report in addition to a digital version. In no specific order, reports shall include, but is not limited to:

- Introduction
- Historic and volumetric demand used in analysis (by rate class).
- Itemized historic and projected revenue/income used in analysis.
- Itemized historic and projected expenditures used in analysis.
- Historic and projected population growth used in analysis (by rate class).
- Historic and projected Capital Improvements/Debt Service/Depreciation used in analysis.
- Detailed description of any proposed rate adjustment(s) and corresponding revenue adjustment(s) by class.
- Provide and detail reasoning regarding any proposed changes to customer base rates and volumetric rates.

- A graphical depiction of how any new rate structure compares, by customer, in relation to other regional water providers.
- A written summary of the sensitivity analysis results.
- Summary assessing current financial situation per Section 3.2.4.
- The document must be signed and sealed by a licensed Nebraska Engineer.

3.4 SCHEDULE

The City’s current budget year ends on October 1st of each year. An official audit will be available, each year, by March 1st. A representative(s) for the consultant shall meet onsite, or via an online meeting application, with the City of Grand Island representative(s) upon receipt of the Annual Water Audit. (Note: Past Audits can be found here: <https://www.grand-island.com/departments/finance/audit-reports> and Past Budgets can be found here: <https://www.grand-island.com/departments/finance/audit-reports>.)

Prior to receiving the audit, and at least two (2) weeks before the kickoff meeting, the consultant should supply the City of Grand Island a list of items they anticipate needing for their report. Documents shall be presented to the Consultant at the kickoff meeting. Any ‘discovery’ items from the kickoff meeting will be provided at a later date.

The full parameters of this report should be completed no later than June 1st of the given year denoted in Section 1.0.

4.0 WASTEWATER COST OF SERVICE STUDY

4.1 BACKGROUND

The last report on revenue requirements, cost of service, and rates for Wastewater Service was completed in 2019. Rate adjustments were made at that time. The existing rate structure can be found in Chapter 30 (Sewers and Sewage Disposal) of the City Code: http://city.grand-island.com/City_Code/ref_code_index.htm. Other pertinent charges can be found in the City Fee Schedule: <https://www.grand-island.com/departments/finance/fee-schedule>. It is the Department’s intent to analyze how the cost burden is being allocated by class and whether Grand Island Public Works can continue to project a revenue neutral budget going forward.

4.2 SCOPE

The Cost of Service Study should include the following:

4.2.1 ASSESS BURDEN BY RATE CLASS

Assess the Division’s current rate burden by class (Residential, Commercial, and Industrial). This includes assessing cost burden for each class and how the rate structure compares to other regional wastewater treatment providers. Information should deliver facts, numbers, and recommended burden shifts, if deemed necessary, to provide a fair price to each customer class.

4.2.2 ASSESS CLASS STRUCTURE

Assess the Division's current rate class structure. Research and recommend whether existing class structure is the best fit for the City or if changes to the existing class structure may provide an economic benefit. Provide pros and cons of maintaining the existing meter charge versus other fixed fee reimbursement options.

4.2.3 ASSESS REVENUE

Assess whether the Division's current revenue stream is sufficient to fund proposed future capital and O&M expenditures while maintaining a revenue neutral budget. If projections show that revenue will not be sufficient, provide recommendations on how to incorporate the shortfall into the rate structure.

4.2.4 ASSESS CURRENT FINANCIAL SITUATION

Analyze Division's current capital expenditures, depreciation schedule, and unrestricted cash balance. Provide feedback on industry best practices involving days of cash on hand with regard to annual O&M expenses and debt services.

4.2.5 ASSESS FEES

Assess all current variables affecting the existing rate structure including (but not limited to) meter charges and volumetric fees. Recommend changes, as deemed reasonable and necessary, to best minimize the Division's risk in regard to fluctuations in demand and rate class demographics.

4.2.6 CASH RESERVES

Analyze the Public Works cash reserve policy to verify it is sufficient, yet not overabundant.

4.2.7 PROVIDE FINANCIAL FORECAST

Develop a 5-year financial forecast including projected revenues, expenses, capital improvement expenditures, debt service expenditures, O&M expenditures, cash flows, and other pertinent financial criteria for the following five (5) budget years. Use projected population growth for each rate class.

4.2.8 PERFORM A SENSITIVITY ANALYSIS

A sensitivity analysis shall be run to determine rate structures susceptibility to variations in:

- Future volumetric demand (10% increase/decrease)
- Capital improvement expenditures (25% increase/decrease)

Determine the effect of stepped variations in each variable and their effect on revenue.

4.3 SUBMITTALS

After documents are reviewed by the City of Grand Island, the Consultant shall provide three (3) bound copies of the report in addition to a digital version. In no specific order, reports shall include, but are not limited to:

- Introduction
- Historic and demand used in analysis (by rate class).
- Itemized historic and projected revenue/income used in analysis.
- Itemized historic and projected expenditures used in analysis.
- Historic and projected population growth used in analysis (by rate class).
- Historic and projected Capital Improvements/Debt Service/Depreciation used in analysis.
- Detailed description of any proposed rate adjustment(s) and corresponding revenue adjustment(s) by class.
- Provide and detail reasoning regarding any proposed changes to customer base rates and volumetric rates.
- A graphical depiction of how any new rate structure compares, by customer, in relation to other regional power providers.
- A written summary of the sensitivity analysis results.
- Summary assessing current financial situation per Section 4.2.4.
- The document must be signed and sealed by a licensed Nebraska Engineer.

4.5 SCHEDULE

The City's current budget year ends on October 1st of each year. An official audit will be available, each year, by March 1st. A representative(s) for the consultant shall meet onsite, or via an online meeting application, with Grand Island Public Works representative(s) upon receipt of the Annual Wastewater Audit. Past audits can be found here: <https://www.grand-island.com/departments/finance/audit-reports>.

Prior to receiving the audit, and at least two (2) weeks before the kickoff meeting, the consultant should supply Grand Island Public Works a list of items they anticipate needing for their report. Documents shall be presented to the Consultant at the kickoff meeting. Any 'discovery' items from the kickoff meeting will be provided at a later date.

The full parameters of this report should be completed no later than June 1st of the given year denoted in Section 1.0.

5.0 INTEGRATED RESOURCE PLAN

5.1 BACKGROUND

Integrated Resource Planning (IRP) was mandated by the Energy Policy Act of 1992. It requires all Western Area Power Administration (WAPA) customers to submit IRP's every five (5) years. The City of Grand Island last submitted an IRP in May of 2022. This RFP will include analyzing and performing the 2027 IRP for the City.

5.2 SCOPE

Per WAPA guidelines

(<https://www.wapa.gov/PowerMarketing/IRP/Pages/guidelines.aspx>), the report and analysis should (at minimum) include:

- Identification and comparison of all practical energy efficiency and energy supply resource options.
- Action plan with timing set by the City of Grand Island
- Identification of efforts to minimize adverse environmental effects of new resource acquisitions
- Verification of providing the opportunity for public participation
- Conduct load forecasting
- Include brief description of measurement strategies for options identified in IRP to determine whether objectives are being met.

5.3 SUBMITTALS

After being reviewed by the City of Grand Island, the Consultant shall provide six (6) bound copies of the report in addition to a digital version.

5.4 SCHEDULE

A representative(s) for the consultant shall meet onsite, or virtually, with the City of Grand Island representative(s) in January of 2027. At least two (2) weeks before the kickoff meeting, the consultant should supply the City of Grand Island with a list of items they anticipate needing for their report. Documents shall be presented to the Consultant at the kickoff meeting. Any 'discovery' items from the kickoff meeting will be provided at a later date.

The full parameters of this report should be completed no later than May 1, 2027.

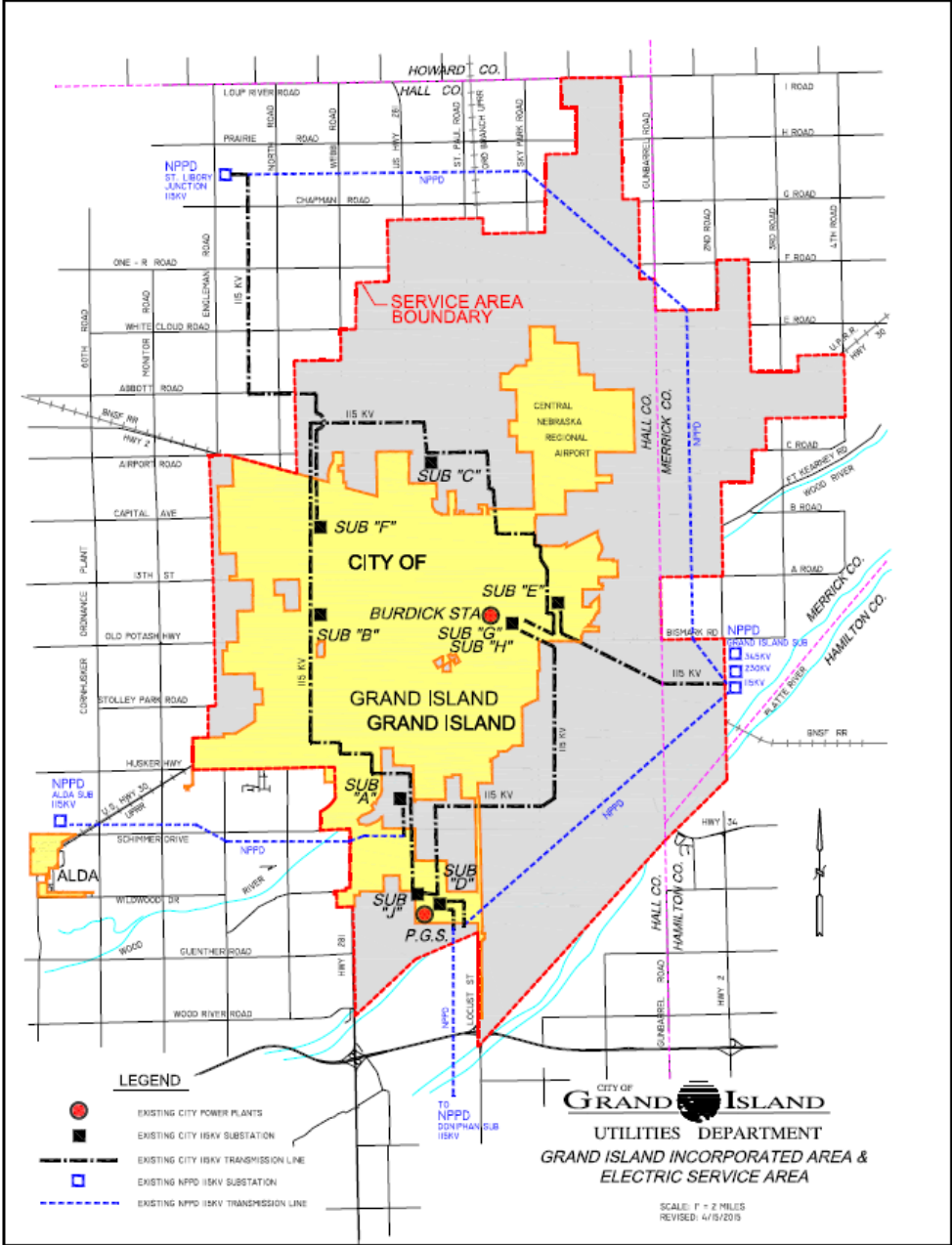
5.5 DESCRIPTION OF THE ELECTRIC UTILITY

GIUD is owned by the customers it serves and is governed by the Grand Island City Council as a financially self-supporting entity of the City of Grand Island. No taxes are used for the operation of the Utilities Department as all departmental operations are financed through electric and water rates for their respective operations. The Electric System is operated under the direction of the Mayor and Council of the City. The City Council has the power to determine and alter rates charged by the Electric System and to authorize expenditures of the system. The Utility is composed of three divisions – Production/Water, Transmission/Distribution, and Engineering/Business. These divisions facilitate both the City's water and electric services.

The City of Grand Island Department (GIUD) generates, imports and distributes power to residential, commercial, and industrial customers in and around the City of Grand Island, Nebraska. The electric system is owned, operated and controlled by the City. The

financially solvent Electric Department is regulated by the Grand Island City Council. The Electric Department serves 27,000 customers throughout an 82-square mile service territory that includes the City of Grand Island, Nebraska. Figure 5-1 below shows the electric system service territory.

Figure 5-1: Grand Island Electric System Service Territory



5.5.1 PRODUCTION DIVISION

The Grand Island Utility Department (GIUD) owns and operates two power stations with a current

combined rated capability of 181 megawatts (MW) as of September 1, 2022. GIUD also participates in several jointly utilized facilities. The capability and fuel mix of the generating capacity at each site is summarized in Table 5-1. These power stations are discussed individually in the following sections.

Table 5-1: Summary of the City of Grand Island Existing Power Supply

Station and Unit No.	In-Service Year	Primary Fuel	Rated Capability MW
Platte Generating Station	1982	Coal	100.0
Burdick Station Combustion Turbine #1	1968	Natl Gas	13.0
Burdick Station Combustion Turbine #2	2003	Natl Gas	34.0
Burdick Station Combustion Turbine #3	2003	Natl Gas	34.0
Nebraska City Unit #2 – Joint [1]	2009	Coal	34.0
Whelan Energy Center Unit #2 – Joint	2011	Coal	15.0
WAPA Firm - Contract	1991	Hydro	9.0
Grand Island Solar Farm [2]	2018	Solar	1.0
Ainsworth Wind Farm – Joint [3]	2005	Wind	1.0
Elkhorn Ridge Wind Farm – Joint [3]	2009	Wind	1.0
Laredo Ridge Wind Farm – Joint [3]	2011	Wind	1.0
Broken Bow Wind Farm – Joint [3]	2012	Wind	1.0
Prairie Breeze III Wind Farm – Joint [4]	2015	Wind	35.8
TOTAL			279.8

[1] GIUD owns 34 MW, however, it only claims capacity on 33 MW.

[2] This resource is “behind the meter” and supplements City Load demand.

[3] These wind farms sell power directly into the market and do not count as capacity for GIUD.

[4] This wind farms sells power directly into the market. Currently, GIUD is accredited for 7.6 MW, during summer months only, toward its SPP reserve margin. Additionally, 9 MW from this facility are resold to Nebraska City and Neligh.

5.5.1.1 COAL

Platte Generating Station - GIUD’s primary power plant is the Platte Generating Station (PGS). The facility consists of a single coal fired unit that began commercial operation in 1982 with a net output of 100 MW. PGS is located in City limits near the intersection of Locust and Wildwood. The plant utilizes Powder River Basin (PRB) sub-bituminous coal. The City contracts with Union Pacific to transport the coal, as they are the only rail spur into the facility. Due to CAPSR and MACT emission control regulations mandated by the EPA, PGS also utilizes the additional consumable items of lime and activated carbon (PACT).

Nebraska City Unit 2 - Beginning in 2009, GIUD began receiving 33 MW of power from Omaha Public Power District's (OPPD) Nebraska City Unit #2. This unit is a 660 MW PRB sub-bituminous coal-fired power plant. Due to modifications, the Unit realized additional efficiency gains which have increased GIUD's allocated energy on the Unit to 34 MW. The City has firm transmission on the original 33 MW it receives from this unit. It is located in Nebraska City, NE.

Whelan Unit 2 - Beginning in 2011, GIUD began receiving 15 MW of power from Public Power Generation Agency's (PPGA) Whelan Energy Center Unit #2. This unit is a 220 MW PRB sub-bituminous coal-fired power plant. The City has firm transmission on all power it receives from this unit. It is located in Hastings, NE.

5.5.1.2 GAS/OIL

The Burdick Station, located in City limits on E. Bischeld St., is home to three (3) active simple cycle gas turbines:

GT1 – This Unit is a 13 MW GE Frame 5B simple cycle combustion turbine. It was commissioned in 1968 and has 'black start' capabilities. The Unit can run on either #2 diesel fuel or natural gas. It is utilized as a peaking unit by the City and run sparingly.

GT3 and GT3 – These are identical 34 MW GE Frame 6B simple cycle sister Units commissioned in 2003. They operate on either #2 diesel fuel and natural gas. Both are utilized as peaking units by the City and run sparingly.

5.5.1.3 WIND

Ainsworth Wind Energy Farm (AWEF) - This a 59.4 megawatt facility, near Ainsworth, Nebraska, which was constructed in 2005. GIUD has a one megawatt participation level in AWEF. AWEF is operated by Nebraska Public Power District, and includes participation by Omaha Public Power District, the Municipal Energy Agency of Nebraska, GIUD, and JEA of Jacksonville, Florida. The City has firm transmission on all power it receives from this wind farm.

Elkhorn Ridge Wind, LLC (Elkhorn) - is an 80 MW wind farm located near the town of Bloomfield in northeast Nebraska. It began commercial operation in January 1, 2009. Unlike AWEF, Elkhorn is a privately-owned facility. NPPD entered into a Power Purchase Agreement with Elkhorn to purchase all power produced by the facility. GIUD then signed a Power Sales Agreement with NPPD to purchase a 1 MW share of the power produced at Elkhorn. The City has firm transmission on all power it receives from this wind farm.

Laredo Ridge Wind, LLC (LRW) - is an 80 MW wind farm located near the town of Petersburg in northeast Nebraska. It began commercial operation February 1,

2011. Like Elkhorn, LRW is a privately-owned facility. NPPD entered into a power purchase agreement (PPA) with LRW to purchase all power produced by the facility. GIUD then signed a Power Sales Agreement with NPPD to purchase a 1 MW share of the power produced at LRW. The City had firm transmission on all power it received from this wind farm up until June 1, 2017. Presently, however, the City does not own firm transmission on this power and sells all output directly into the market.

Broken Bow Wind, LLC (BBW) - is an 80 MW wind farm located near the town of Broken Bow in central Nebraska. It began commercial operation December 1, 2012. Like Laredo Ridge, BBW is a privately-owned facility. NPPD entered into a Power Purchase Agreement with BBW to purchase all power produced by the facility. Grand Island then signed a Power Sales Agreement with NPPD to purchase a 1 MW share of the power produced at BBW. The City had firm transmission on all power it received from this wind farm up until June 1, 2017. Presently, however, the City does not own firm transmission on this power and sells all output directly into the market.

Prairie Breeze III (PBIII) - is a 35.8 MW wind farm near the town of Elgin in north central Nebraska. Commercial operation began in March 2016. PBIII is a privately-owned facility. In contrast to previous projects, Grand Island has entered into a power purchase agreement directly with the developer. Since that agreement has been approved, subsequent sub-lease agreements for offtake have been signed with the City of Nebraska City for 7.0 MW and the City of Neligh for 2.0 MW, leaving GIUD with 26.8 MW. The City does not own firm transmission on this power and sells all output directly into the market, however the City is accredited for 7.6 MW of reserve margin during the summer season.

5.5.1.4 SOLAR

Grand Island commissioned a 1 MW solar farm, which was built within City limits, in 2018. Transmission is not required as the location is within the Cities service area.

5.5.1.5 HYDRO

GIUD has a long-term PPA with the Western Area Power Administration (WAPA) providing capacity and energy to the City. The firm energy and capacity provided by WAPA varies from a minimum of 5 MW in the winter to 9 MW during peak summer months.

5.5.2 TRANSMISSION DISTRIBUTION

GIUD's transmission system consists of nine (9) substations located throughout its service area. Grand Island has 115 kV transmission lines transmitting power to the distribution system throughout the City. GIUD has a looped system.

GIUD's Overhead and Underground Divisions are responsible for the maintenance of existing distribution lines and also for the construction of new lines. Primary distribution system voltage is 13.8 kV.

The City of Grand Island markets its power in the Southwest Power Pool's integrated marketplace. All power produced is sold directly into the market and then power required for City load is purchased back. As Grand Island is **NOT** currently a NITS customer, transmission credit is given for power produced within the Departments service area.

6.0 PAYMENT

Partial payment requests for work done may be made, at most, once a month. All requests for payment should include man-hours worked to date with hourly rates given.

7.0 PROPOSAL REQUIREMENTS

7.1 LOCATION, DATE, AND CONTACT INFO

Proposal 'not-to-exceed' pricing shall include all applicable material, labor, travel, living expenses, taxes, permits, and/or delivery charges to Grand Island, Nebraska. **Proposals must be received at City Hall by 4:00 p.m. on Tuesday, October 18, 2022. Bids may be mailed to the City Clerks Office (100 E. 1st Street), hand delivered, or submitted online at <https://www.grand-island.com/government/city-clerk/bid-document-information>. **LATE PROPOSALS WILL NOT BE CONSIDERED.****

7.2 QUALIFICATIONS

Consultant must provide verification that they have both financial and technically skilled staff involved in composing this report. Staff should be familiar with government accounting processes as well as experience with the power production/transmission/distribution and power sales aspects of the power industry, in addition to water and wastewater financial experience. All work shall be performed under the direct supervision of an Engineer registered with the State of Nebraska. The Department will provide all pertinent internal financial documents and records necessary to Consultant. Consultant must do their own outside research as to comparatives, projections, industry standards, etc. It will not be the responsibility of the Department to procure outside information for the Consultant.

7.3 SUBMITTALS

Each proposal must contain at least the following information:

- 1) Individual “not-to-exceed” prices for the following six (6) documents:
 - 2023 and 2026 Water Cost of Service Study
 - 2023 and 2027 Wastewater Cost of Service Study
 - 2024 and 2027 Electric Cost of Service Study
 - 2027 Integrated Resource Plan
- 2) Summary of company history regarding the requested document types
- 3) Project scope / task list for each report
- 4) Qualifications of key project personnel. Collectively, personnel must meet the requirements stated in Section 7.2.
- 5) References for reports of similar scope (including contact information)
- 6) Schedule, including estimated man-hours, for each major task or phase
- 7) Rate schedule for any work performed outside the original scope. This should include firm hourly rates for each personnel group active in facilitating the requirements of this Contract. Any annual rate adjustments or escalators and their implementation schedule must be noted.

7.4 EVALUATION

The proposals will be evaluated on the following criteria. Also indicated are the weighting factors which will be used in tabulating the evaluation scores.

1. Proposal Responsiveness (x 1)
2. Company Experience (x 2)
3. Personnel Experience (x 2)
4. Commercial Terms (x 1)
5. Engineering Fees (x 1)

7.5 AWARD

All work described in this document will be awarded to a single Consultant. However, the City reserves the right to reject all proposals during the evaluation process at their sole discretion. The City also reserves the right to remove any single requested report(s) from the scope of the work at a future date.

8.0 DEFINITIONS

The City of Grand Island/ Grand Island Utilities / The Department / GIUD / City / Owner/– An employee representative of the City of Grand Island.

Consultant / Consulting Engineer – Representative term for company being awarded a Contract for the work specified in this document

Contract – Signed agreement between the City of Grand Island and Consultant. Note: Contract will begin January 1st, 2023, and run until January 1st, 2028.