



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

REQUEST FOR PROPOSALS

Item Description: Cellular Distributed Antenna System (DAS)

Procurement/MinuteTraq #: 52843

Date to be opened: 5/18/2026

Issuing Department: Providence Water Supply Board

QUESTIONS

- Please direct questions related to the process, how to fill out forms, and how to submit an application(Pages 1-8) to the Purchasing Department.
 - Email: purchasing@providenceri.gov
 - Please use the subject line “**Solicitation Question**”
- Please direct questions relative to the Minority and Women’s Business Enterprise Program and the corresponding forms (Pages 10-11) to the MBE/WBE Outreach Director for the City of Providence, Grace Diaz
 - Email: gdiaz@providenceri.gov
 - Please use subject line “**MBE WBE Forms**”
- Please direct questions relative to the specifications outlined (beginning on page 14) to the issuing department’s subject matter expert:
 - Name: Hughe Meier
 - Title: Consultant
 - Email Address: specs@brnx.com

Pre-submission Conference

There is no pre-bid conference scheduled for this item.

Deadline for questions submissions:

Monday, May 4, 2026

INSTRUCTIONS FOR SUBMISSION

Meeting Date: 5/18/2026

Bids may be submitted up to **2:15 P.M.** on the above meeting date at the **Department of the City Clerk, Room 311, City Hall, 25 Dorrance Street, Providence.** At 2:15 P.M. all bids will be publicly opened and read at the Board of Contract Meeting in Conference Room 305, on the 3rd floor of City Hall.

- Bidders must submit **2 copies** of their bid in sealed envelopes or packages labeled with the captioned **Item Description** and the **City Department to which the solicitation and bid are related and must include the company name and address on the envelope as well.** (On page 1).
- If required by the Department, please keep the original bid bond and check in only one of the envelopes.
- Communications to the Board of Contract and Supply that are not competitive sealed bids (i.e. product information/samples) should have “**NOT A BID**” written on the envelope or wrapper.
- Only use form versions and templates included in this solicitation. If you have an old version of a form **do not recycle it for use in this bid.**
- The bid envelope and information relative to the bid must be addressed to:

**Board of Contract and Supply
Department of the City Clerk – City Hall, Room 311
25 Dorrance Street
Providence, RI 02903**

****PLEASE NOTE:** This bid may include details regarding information that you will need to provide (such as proof of licenses) to the issuing department before the formalization of an award.

*This information is **NOT** requested to be provided in your initial bid by design.*

All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city’s Open Meetings Portal and made available as a public record. The City has made a conscious effort to avoid the posting of sensitive information on the City’s Open Meetings Portal, by requesting that such sensitive information be submitted to the issuing department only at their request.

BID PACKAGE CHECKLIST

Digital forms are available in the City of Providence Purchasing Department Office or online at <http://www.providenceri.gov/purchasing/how-to-submit-a-bid/>

The bid package **MUST** include the following, in this order:

- Bid Form 1: Bidder's Blank as the cover page/ 1st page (*see page 6 of this document*)
- Bid Form 2: Certification of Bidder as 2nd page (*see page 7 of this document*)
- Bid Form 3: Certificate Regarding Public Records (*see page 8 of this document*)
- Bid Form 4: Affidavit of City Vendor (*see pages 9 and 10 of this document*)
- Forms from the Minority and Women Business Enterprise Program: Based on Bidder Category. *See forms and instructions enclosed (pages 10-11) or on:*
<https://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>

***Please note: MBE/WBE forms must be completed for EVERY bid submitted and must be inclusive of ALL required signatures. Forms without all required signatures will be considered incomplete.**

- Bidder's Proposal/Packet: Formal response to the specifications outlined in this RFP, including pricing information and details related to the good(s) or service(s) being provided. Please be mindful of formatting responses as requested to ensure clarity.
- Financial Assurance, *if requested* (as indicated on page 5 of this document under "Bid Terms")

All of the above listed documents are REQUIRED. (With the exception of financial assurances, which are only required if specified on page 5.)

******Failure to meet specified deadlines, follow specific submission instructions, or enclose all required documents with all applicable signatures will result in disqualification, or in an inability to appropriately evaluate bids.***

NOTICE TO VENDORS

1. The Board of Contract and Supply will make the award to the lowest qualified and responsible bidder.
2. In determining the lowest responsible bidder, cash discounts based on preferable payment terms will not be considered.
3. Where prices are the same, the Board of Contract and Supply reserves the right to award to one bidder, or to split the award.
4. No proposal will be accepted if the bid is made in collusion with any other bidder.
5. Bids may be submitted on an “equal in quality” basis. The City reserves the right to decide equality. Bidders must indicate brand or the make being offered and submit detailed specifications if other than brand requested.
6. A bidder who is an out-of-state corporation shall qualify or register to transact business in this State, in accordance with the Rhode Island Business Corporation Act, RIGL Sec. 7-1.2-1401, et seq.
7. The Board of Contract and Supply reserves the right to reject any and all bids.
8. Competing bids may be viewed in person at the Department of the City Clerk, City Hall, Providence, immediately upon the conclusion of the formal Board of Contract and Supply meeting during which the bids were unsealed/opened. Bids may also be accessed electronically on the internet via the City’s [Open Meetings Portal](#).
9. As the City of Providence is exempt from the payment of Federal Excise Taxes and Rhode Island Sales Tax, prices quoted are not to include these taxes.
10. In case of error in the extension of prices quoted, the unit price will govern.
11. The contractor will **NOT** be permitted to: a) assign or underlet the contract, or b) assign either legally or equitably any monies or any claim thereto without the previous written consent of the City Purchasing Director.
12. Delivery dates must be shown in the bid. If no delivery date is specified, it will be assumed that an immediate delivery from stock will be made.
13. A certificate of insurance will normally be required of a successful vendor.
14. For many contracts involving construction, alteration and/or repair work, State law provisions concerning payment of prevailing wage rates apply ([RIGL Sec. 37-13-1 et seq.](#))
15. No goods should be delivered, or work started without a Purchase Order.
16. **Submit 2 copies of the bid to the City Clerk, unless the specification section of this document indicates otherwise.**
17. Bidder must certify that it does not unlawfully discriminate on the basis of race, color, national origin, gender, gender identity or expression, sexual orientation and/or religion in its business and hiring practices and that all of its employees are lawfully employed under all applicable federal, state and local laws, rules and regulations. (See Bid Form 2.)

BID TERMS

1. Financial assurances may be required in order to be a successful bidder for Commodity or Construction and Service contracts. If either of the first two checkboxes below is checked, the specified assurance must accompany a bid, or the bid will not be considered by the Board of Contract and Supply. The third checkbox indicates the lowest responsible bidder will be contacted and required to post a bond to be awarded the contract.
 - a) A certified check for \$_____ must be deposited with the City Clerk as a guarantee that the Contract will be signed and delivered by the bidder.
 - b) A bid bond in the amount of _____ per centum (%) of the proposed total price, must be deposited with the City Clerk as a guarantee that the contract will be signed and delivered by the bidder; and the amount of such bid bond shall be retained for the use of the City as liquidated damages in case of default. Any person signing a bid bond as an attorney-in-fact shall include with the bid bond an original, or a photocopy or facsimile of an original, power of attorney.
 - c) A performance and payment bond with a satisfactory surety company will be posted by the bidder in a sum equal to one hundred per centum (100%) of the awarded contract.
 - d) No financial assurance is necessary for this item.
2. Awards will be made within **nighty (90) days of bid opening**. All bid prices will be considered firm, unless qualified otherwise. Requests for price increases will not be honored.
3. Failure to deliver within the time quoted or failure to meet specifications may result in default in accordance with the general specifications. It is agreed that deliveries and/or completion are subject to strikes, lockouts, accidents, and Acts of God.

The following entry applies only for COMMODITY BID TERMS:

4. Payment for partial delivery will not be allowed except when provided for in blanket or term contracts.

The following entries apply only for CONSTRUCTION AND SERVICE BID TERMS:

5. Only one shipping charge will be applied in the event of partial deliveries for blanket or term contracts.
6. Prior to commencing performance under the contract, the successful bidder shall attest to compliance with the provisions of the Rhode Island Worker's Compensation Act, [RIGL 28-29-1, et seq.](#) If exempt from compliance, the successful bidder shall submit a sworn Affidavit by a corporate officer to that effect, which shall accompany the signed contract.
7. Prior to commencing performance under the contract, the successful bidder shall, submit a certificate of insurance, in a form and in an amount satisfactory to the City.

BID FORM 1: Bidders Blank

1. Bids must meet the attached specifications. Any exceptions or modifications must be noted and fully explained.
2. Bidder’s responses must be in ink or typewritten, and all blanks on the bid form should be completed.
3. The price or prices proposed should be stated both in **WRITING** and in **FIGURES**, and any proposal not so stated may be rejected. **Contracts exceeding twelve months must specify annual costs for each year.**
4. Bids **SHOULD BE TOTALED** so that the final cost is clearly stated (unless submitting a unit price bid), however **each item should be priced individually**. Do not group items. Awards may be made on the basis of *total* bid or by *individual items*.
5. All bids **MUST BE SIGNED IN INK.**

Name of Bidder (Firm or Individual): _____

Contact Name: _____

Business Address: _____

Business Phone #: _____

Contact Email Address: _____

Agrees to bid on (Write the “Item Description” here): _____

If the bidder’s company is based in a state *other than Rhode Island*, list name and contact information for a local agent for service of process that *is located within Rhode Island* _____

Delivery Date (if applicable): _____

Name of Surety Company (if applicable): _____

Total Amount in Writing*: _____

Total Amount in Figures*: _____

****If you are submitting a unit price bid, please insert “Unit Price Bid”***

Use additional pages if necessary for additional bidding details.

Signature of Representation

Title

BID FORM 2: Certification of Bidder
(Non-Discrimination/Hiring)

Upon behalf of _____ (Firm or Individual Bidding),

I, _____ (Name of Person Making Certification),

being its _____ (Title or "Self"), hereby certify that:

1. Bidder does not unlawfully discriminate on the basis of race, color, national origin, gender, sexual orientation and/or religion in its business and hiring practices.
2. All of Bidder's employees have been hired in compliance with all applicable federal, state and local laws, rules and regulations.

I affirm by signing below that I am duly authorized on behalf of Bidder, on

this _____ day of _____ 20____.

Signature of Representation

Printed Name

BID FORM 3: Certificate Regarding Public Records

Upon behalf of _____ (Firm or Individual Bidding),

I, _____ (Name of Person Making Certification),

being its _____ (Title or "Self"), hereby certify an

understanding that:

1. All bids submitted in response to Requests for Proposals (RFP's) and Requests for Qualification (RFQ's), documents contained within, and the details outlined on those documents become public record upon receipt by the City Clerk's office and opening at the corresponding Board of Contract and Supply (BOCS) meeting.
2. The Purchasing Department and the issuing department for this RFP/RFQ have made a conscious effort to request that sensitive/personal information be submitted directly to the issuing department and only at request if verification of specific details is critical the evaluation of a vendor's bid.
3. The requested supplemental information may be crucial to evaluating bids. Failure to provide such details may result in disqualification, or an inability to appropriately evaluate bids.
4. If sensitive information that has not been requested is enclosed or if a bidder opts to enclose the defined supplemental information prior to the issuing department's request in the bidding packet submitted to the City Clerk, the City of Providence has no obligation to redact those details and bears no liability associated with the information becoming public record.
5. The City of Providence observes a public and transparent bidding process. Information required in the bidding packet may not be submitted directly to the issuing department at the discretion of the bidder in order to protect other information, such as pricing terms, from becoming public. Bidders who make such an attempt will be disqualified.

I affirm by signing below that I am duly authorized on behalf of Bidder, on

this _____ day of _____ 20_____.

Signature of Representation

Printed Name

BID FORM 4: Affidavit of City Vendor

Per our Code of Ordinances [Sec. 21.-28.1 \(e\)](#), this form applies to a) the business, b) any political action committee whose name includes the name of the business, c) all persons holding ten (10) percent or greater equity interest or five thousand dollars (\$5,000.00) or greater cash value interest in the business at any time during the reporting period, d) all executive officers of the business entity, e) any spouse or dependent child of any individual identified in a) though d) above.

Executive officers who are not residents of the state of Rhode Island are exempted from this requirement.

Per [R.I.G.L. § 36-14-2](#), “Business” means a sole proprietorship, partnership, firm, corporation, holding company, joint stock company, receivership, trust, or any other entity recognized in law through which business for profit or not for profit is conducted.

Name of the person making this affidavit: _____

Position in the “Business” _____

Name of Entity _____

Address: _____

Phone number: _____

The number of persons or entities in your entity that are required to report under [Sec. 21.-28.1 \(e\)](#): _____

Read the following paragraph and answer one of the options:

Within the 12 month period preceding the date of this bid submission with the City of Providence, or with respect to the contracts that are not in writing within the 12 month period preceding the date of notification that the contract has reached the \$100,000 threshold, have you made campaign contributions within a calendar year to (please list all persons or entities required under [Sec. 21.-28.1 \(e\)](#)).

- a. Members of the Providence City Council? Yes No
 - If Yes, please complete the following:
 Recipient(s) of the Contribution: _____
 Contribution Date(s): _____ Contribution Amount(s): _____

- b. Candidates for election or reelection to the Providence City Council? Yes No
 - If Yes, please complete the following:
 Recipient(s) of the Contribution: _____
 Contribution Date(s): _____ Contribution Amount(s): _____

- c. The Mayor of Providence? Yes No
 - If Yes, please complete the following:
 Recipient(s) of the Contribution: _____
 Contribution Date(s): _____ Contribution Amount(s): _____

- d. Candidates for election or reelection to the office of Mayor of Providence? Yes No
 - If Yes, please complete the following:
 Recipient(s) of the Contribution: _____
 Contribution Date(s): _____ Contribution Amount(s): _____

Signed under the pains and penalties of perjury.

Position

MBE/WBE Participation Plan

Please complete separate forms for each MBE/WBE subcontractor/supplier to be utilized on the solicitation.

Bidder's Name:				
Bidder's Address:				
Point of Contact:				
Telephone:				
Email:				
Procurement #:				
Project Name:				
Which one of the following describes your business' status in terms of Minority and/or Woman Owned Business Enterprise certification with the State of Rhode Island? (Check all that apply).	<input type="checkbox"/> MBE	<input type="checkbox"/> WBE	<input type="checkbox"/> Neither MBE nor WBE	
<p>This form is intended to capture commitments between the prime contractor/vendor and MBE/WBE subcontractors and suppliers, including a description of the work to be performed and the percentage of the work as submitted to the prime contractor/vendor. Please note that all MBE/WBE subcontractors/suppliers must be certified by the Office of Diversity, Equity and Opportunity at the time of bid. The MBE/WBE Directory can be found here. Please visit, the City's MBE/WBE page for details of the program (e.g. instructions and requirements).</p> <ul style="list-style-type: none"> Nonprofit organizations are not required to complete the rest of this form. Construction projects unable to identify subcontractors prior to bid submission (e.g. Design Build) are required to provide updates to the MBE/WBE Outreach Office 				
Name of Subcontractor/Supplier:				
Type of RI Certification:	<input type="checkbox"/> MBE	<input type="checkbox"/> WBE	<input type="checkbox"/> Neither	
Address:				
Point of Contact:				
Telephone:				
Email:				
Detailed Description of Work to Be Performed by Subcontractor or Materials to be Supplied by Supplier Per the Scope of Work provided in the RFP				
Total Contract Value (\$):		Subcontract Value (\$):		Participation Rate (%):
Anticipated Date of Performance:				
I certify under penalty of perjury that the forgoing statements are true and correct.				
Prime Contractor/Vendor Signature		Title		Date
Subcontractor/Supplier Signature		Title		Date

***If you did not meet the 20% MBE/WBE combined participation goal, submit a Waiver Request Form.**

MBE/WBE Waiver Request Form

**Fill out this form only if you did not meet the 20% MBE/WBE participation goal.
State-certified MBE or WBE Prime Bidders are NOT REQUIRED to fill out this form.**

Submit this form to the City of Providence MBE/WBE Outreach Director, Grace Diaz, at gdiaz@providenceri.gov, for review **prior to bid submission**. This waiver applies only to the current bid which you are submitting to the City of Providence and does not apply to other bids your company may submit in the future. **In case a waiver is needed, City Department Directors should not recommend a bidder for an award if this form is not included, absent or is not signed by the city of Providence MBE/WBE director.**

Prime Bidder: _____ Contact Email and Phone _____
 Company Name, Address: _____ Trade _____
 Project /Item Description (as seen on RFP): _____

To receive a waiver, you must list the certified MBE and/or WBE companies you contacted, the name of the primary individual with whom you interacted, and the reason the MBE/WBE company could not participate on this project.

MBE/WBE Company Name	Individual's Name	Company Name	Why did you choose not to work with this company?

I acknowledge the City of Providence's goal of a combined MBE/WBE participation is 20% of the total bid value. I am requesting a waiver of _____ % MBE/WBE (20% minus the value of **Box F** on the Subcontractor Disclosure Form). If an opportunity is identified to subcontract any task associated with the fulfillment of this contract, a good faith effort will be made to select MBE/WBE certified businesses as partners.

 Signature of Prime Contractor /
 or Duly Authorized Representative

 Printed Name

 Date Signed

 Signature of City of Providence
 MBE/WBE Outreach Director /
 or Duly Authorized Representative

 Printed Name of City of Providence
 MBE/WBE Outreach Director

 Date Signed

FOR CONSTRUCTION PROJECTS

APPRENTICE REQUIREMENTS (Construction Projects Valued at \$100,000 or More).

Attention of prospective bidders is called to the fact that this project is to be bid upon and executed under the City of Providence Code of Ordinances Chapter 21 Art. II [Section 21-28.1](#) c(1) and (2) related to utilizing apprentices in the contract. This ordinance outlines requirements for utilizing not less than 15% of total hours worked by apprentices. The City may lower this percentage only if it determines in writing that compliance is not feasible or that it would be unduly cost prohibitive to the project. The attention of prospective bidders is also called to the fact that reporting the efforts undertaken and progress towards achieving the requirements in this ordinance is a condition for payment. Compliance reporting shall be submitted with any contract payment requisition, in a format to be specified by the City. This demonstration of compliance through such reports shall be a condition of the requisition for payment to be processed. Upon the contract being awarded to the successful bidder, a mandatory meeting will be scheduled to review the project requirements relative to apprenticeship requirements and the process and protocols by which these goals will be achieved. At this meeting, specific forms and procedures for the documentation and achievement of these requirements by the successful bidder will be provided, discussed and agreed upon for the execution of the contract.

“FIRST SOURCE” REQUIREMENTS.

Attention of prospective bidders is called to the fact that this project is to be bid upon and executed under the City of Providence Code of Ordinances [Chapter 21 Art. III 1/2 First Source Agreements](#) Sec. 21-91 through 21-96. This ordinance outlines requirements for hiring Providence residents to work on this project. The City may waive this requirement only upon a determination in writing that qualified residents of Providence are not available for the project, pursuant to Sec. 21-94(e). The attention of prospective bidders is called to the fact that reporting the efforts undertaken and progress towards achieving the requirements in this ordinance is a condition for payment. Compliance reporting shall be submitted with any contract payment requisition, in a format to be specified by the City. This demonstration of compliance through such reports shall be a condition of the requisition for payment to be processed. Upon the contract being awarded to the successful bidder, a mandatory meeting will be scheduled to review the project requirements relative to the First Source Agreements and the process and protocols by which these goals will be achieved. At this meeting, specific forms and procedures for the documentation and achievement of these requirements by the successful bidder will be provided, discussed, and agreed upon for the execution of the contract.

BID PACKAGE SPECIFICATIONS



Specifications

for

Cellular DAS

Prepared by:



Broad Reach

East Greenwich, RI 02818

(401) 885-4848

broadreachnetworks.com

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1 General

1.1 Introduction

Providence Water is Rhode Island's largest water utility, providing drinking water to approximately 600,000 Rhode Islanders in more than a dozen communities through wholesale distribution. The utility has more than 75,000 direct retail customers in Providence, North Providence, Cranston, Johnston, and Smithfield.

More information can be found at <https://provwater.com/>.

1.2 Scope

This document is a Request for Proposal (RFP) for the design, installation, and commissioning of a hybrid cellular coverage system at the Philip J. Holton Purification Plant in Scituate, Rhode Island.

The scope of work includes the design, supply, installation, testing, and commissioning of a hybrid cellular coverage system for priority operational areas within the Philip J. Holton Purification Plant. The system shall consist of:

1. ISP-fed cellular coverage (e.g., Verizon Network Extenders or equivalent) for robust daily operations
2. Off-air signal amplification system (rooftop antennas and multi-carrier amplifier) for AT&T (ATT), T-Mobile (TMO), as well as Verizon (VZ) failover during ISP/network outages
3. Switchover capability between operational modes (VZ)
4. All associated cabling, antennas, mounting hardware, and accessories
5. System commissioning, testing, and documentation
6. Training for facility staff on system operation and mode switching

The work shall be performed in accordance with all applicable codes, standards, and regulations, and shall be completed in a manner that minimizes disruption to the facility's critical water purification operations.

1.3 Terms/Definitions

This is a Request for Proposal (RFP). Responses will be evaluated on the basis of the relative merits of the proposal in addition to price.

The terms vendor, bidder, contractor, proposer, and offeror used herein all refer to the vendor submitting a response to this RFP. The terms customer and owner

refer to the party that is seeking bids for services under this RFP. The terms bid and response are synonymous.

The following technical terms are used in this document:

- **DAS (Distributed Antenna System):** A network of antennas that distributes cellular signals throughout a building
- **Network Extender:** An ISP-connected small cell device that provides cellular coverage via internet backhaul
- **Femtocell/Small Cell:** Low-power cellular base station connected via internet
- **Signal Booster/Amplifier:** Device that amplifies off-air cellular signals from outdoor antennas to indoor coverage areas
- **Off-air:** Cellular signals captured from macro cell towers via rooftop antennas
- **Failover Mode:** Backup operational mode used when primary system (ISP-fed) is unavailable
- **iBwave:** Industry-standard RF design software for cellular coverage systems
- **RSRP:** Reference Signal Received Power - measure of LTE/5G signal strength

1.4 Questions and Inquiries regarding RFP

Vendors may submit questions regarding these specifications to the issuing department's subject matter expert listed on page 1.

Questions must be RECEIVED by the deadline listed on page 1. Any responses by the City will be issued to all vendors as addenda, approximately 1 week before submission deadline. Multiple vendor inquiry responses may be combined.

Vendors are also encouraged to send notice of their interest in bidding, with contact information, to SPECS@BRNX.COM to facilitate distribution of any Q+A or other pertinent info.

1.5 Partial Award

Customer reserves the right to make partial awards, by selecting only certain phases / categories from a proposal. Be sure to itemize the costs as requested, so that each category/phase stands on its own. Describe in detail any dependencies between line items, especially if receiving a partial award would affect pricing or discounts in any way.

1.6 Evaluation Criteria

The selection will be based on a three-point evaluation. These are:

- 30% compliance to specifications,
- 40% vendor capability and experience, and
- 30% cost.

1.7 Response Format

Responses shall include:

1.7.1 Completed bid forms and information requests per the attached Instructions for Submission.

This shall be followed by the Bidder's Proposal / Packet, to include:

1.7.2 A Summary section that includes:

- A description of the solution being proposed
- A summary of costs
- An exceptions listing (by paragraph number) of any specifications that have NOT been met.

1.7.3 Itemized response to RFP

Submit itemized responses where specific information is requested, following the paragraph numbering plan in this RFP. (Electronic version is available by request to SPECS@BRNX.COM).

Response should contain the actual text of the RFP followed by the Proposer's response to that paragraph. For paragraphs that only specify requirements, Proposer should reply to each with, at minimum, an acknowledgment that the requirement has been read, understood, and the vendor will comply. Alternatively, Proposer may include a statement at the beginning of a section stating that all "Section X" specifications are understood / will comply.

1.7.4 The Cost Section

Include here the itemized cost breakdown for all equipment, installation, and services. Include professional services hourly rates where applicable. Be sure to include all one-time costs, fees, shipping / delivery, permits, or other miscellaneous costs, as well as ongoing maintenance / support costs. Add alternates, where requested, should be itemized separately under the system total.

1.7.5 Supplementary Information

Proposer may include further sections or appendices containing drawings, planning documents, or any other supplementary information the Proposer wishes to include in their response.

1.7.6 Electronic Copy

To expedite review of proposals by the project team, vendors are asked to include with their package a thumb drive containing electronic versions of their response. MS Office Word, Excel or Google Docs format is acceptable, as is .pdf.

1.8 Manufacturer Substitution Policy

Providence Water has specified preferred equipment and manufacturers in this RFP based on research, vendor consultation, and industry standards. These specifications establish minimum performance capabilities and quality standards.

Requests for exception to any preferred products listed may be submitted in writing to the Customer no later than ten (10) days prior to bid due date. Such requests must include:

1. All engineering documentation, drawings, and third-party test reports proving equivalency in performance characteristics, mechanical features, and overall quality
2. Detailed comparison showing how the substituted product meets or exceeds specified requirements
3. FCC certification documentation for wireless equipment
4. Notification as to how the substituted product will impact the completion of the work, including any schedule implications
5. Evidence of manufacturer support, warranty terms, and product lifecycle status

Acceptance of equivalent products shall be at the sole discretion of the Customer, and must be in written form by the Customer to be valid. Substitutions submitted after the 10-day deadline or without complete documentation will not be considered.

1.9 Standards of Design and Workmanship

All aspects of the work shall be designed, tested, implemented, and documented in accordance with recognized professional and industry practices. All work shall be performed by properly certified and qualified personnel.

RF design and system layout should follow industry best practices for cellular coverage systems. Use of RF design software (such as iBwave) to model coverage and optimize antenna placement is strongly encouraged.

1.10 Installation

The contractor shall furnish all equipment, accessories, and material required for the proper installation and operation of the system in compliance with these specifications and applicable contract drawings. Any material and/or equipment necessary for the proper operation of the system, which is not specified or described herein, shall be deemed part of this specification, unless noted as provided by others.

1.11 Certifications

The bidder must be certified to install and maintain the selected products and components used on this project.

1.12 Coordination

The Customer may be issuing a separate contract or contracts for some portions of the work. Contractor shall be responsible for coordinating their activities with those of any other installation contractors, to ensure that the infrastructure and equipment installed under this contract and the equipment and infrastructure installed by others integrate smoothly, and work proceeds according to the construction schedule.

Contractor shall coordinate with customer operations staff regarding:

- Access to equipment rooms and rooftop areas
- Network/ISP connection requirements
- Power requirements and electrical work
- Any temporary service interruptions required during installation
- Safety procedures for working in an active facility

1.13 Site familiarity

Each vendor is responsible for being knowledgeable of all conditions of these specifications. The vendor, by making a bid, represents that the bid documents have been read and understood and vendor is familiar with the local conditions under which the work is to be performed. This includes the understanding of site and building's cable distribution peculiarities.

No approval for additional funds will be given for work resulting from the vendor or its subcontractors being unfamiliar with the conditions under which the work is to be performed.

1.14 Applicable Codes and Regulations

All work shall comply with:

- National Electrical Code (NEC) current edition
- National Fire Protection Association (NFPA) codes
- Rhode Island State Building Code
- Local municipal codes and ordinances
- OSHA safety regulations
- FCC Part 15 (RF interference), Part 20 (Consumer Signal Boosters), and/or Part 90 (Industrial/Commercial Equipment) as applicable
- All applicable telecommunications standards (TIA/EIA, BICSI, etc.)

All equipment shall perform in compliance with FCC and local PUC regulations, including but not limited to E911, Kari's Law Act, and Ray Baum's Act.

1.15 Vendor Activities

Vendor's activities are not to be disruptive of normal business activity—including excessive construction noises—and must not compromise the safety, security or self-respect of any of the Customer's employees or visitors in any way. The Customer reserves the right to insist that any individual under the direction of the vendor may, without a statement of cause, be taken off this project. The vendor will comply without compromising schedules or other contract terms.

1.16 Due Care

In delivering, installing and removing equipment, due care shall be exercised to avoid damage to, or disfigurement of, buildings, equipment, driveways or other property. Any blemish made by Vendor to the physical plant or property of Customer is to be restored by the Vendor. The successful vendor shall be required to complete restorations at its expense for any damage caused by it or by any of the subcontractors.

1.17 Rubbish

The Contractor shall maintain the premises free from rubbish caused by his work, employees, or sub-contractors, by removing it as specified in the bid or when directed by the Customer. At the completion of his work, he must remove all

surplus materials and rubbish from the premises to the satisfaction of the Customer, and in compliance with state electronic waste laws.

1.18 Obsolete Equipment and Cable

Contractor shall uninstall, demolish, remove from the job site, and dispose of all equipment and cable that is being replaced and/or made obsolete by the work under this project.

Contractor shall prepare and provide to Customer a list of all equipment and materials slated to be removed, and Customer must approve this list prior to demolition or removal.

Equipment slated for disposal must first be cleared of customer specific information and data, and memory / storage devices wiped or destroyed.

1.19 Site Visits

Vendors may request a site visit to see the equipment room(s) and familiarize themselves with the work area. Request visits by contacting the department's subject matter expert listed on page 1. Visits should take place well before the deadline for questions. If customer receives multiple requests, vendor visits may be combined.

During site visits, vendors may:

- Inspect the six priority coverage areas
- Assess rooftop antenna mounting locations
- Evaluate cable routing paths
- Review equipment room space and power availability
- Measure existing signal strength (if desired)
- Meet with facility staff to understand operational requirements

1.20 Terms of Use

The following technical specifications are to be used only by the recipient to assist in responding to the project for which it is intended.

Any other use or reproduction, in whole or in part, is prohibited without the written permission of the author.

Vendors who receive this file electronically and use the electronic file in preparing their response should note: In the event of any errors or inconsistencies in their response between the reproduced RFP language and the original RFP as

released by the City of Providence, the City release will be the controlling document.

Also note that RFP addenda, if any, may not be released in electronic format and it is the vendor's responsibility to include / merge addenda updates into their response.

Finally, this document may not include any additional instructions, forms or terms and conditions as attached by the City to the technical specifications; therefore it is important that the vendor ensure they have a complete set of bid documents as released by the City of Providence.

2 Vendor Qualifications

2.1 Capabilities and Experience

It is important that the proposing vendor have the capability and resources to support the project, both in staging and delivery, and also in post-sale technical support. To this end, please respond to the following questions and information requests. If use of subcontractor(s) are planned, include separate and complete answers from each subcontractor:

2.1.1 Company Overview: Describe the size of your company, in personnel numbers, customer base, annual revenues, and years in business.

2.1.1.1 Cellular Coverage Experience:

2.1.1.2 How many in-building cellular coverage projects (DAS, small cell, or hybrid solutions) have you completed?

2.1.1.3 How many years of experience does your company have with cellular coverage systems?

2.1.1.4 Describe experience specifically with hybrid solutions combining ISP-fed and off-air signal sources

2.1.2 Product Lines and Certifications:

2.1.2.1 Describe the product lines carried for cellular coverage solutions

2.1.2.2 List manufacturer certifications held by your company (e.g., Cel-Fi, WilsonPro, Nextivity, etc.)

2.1.2.3 Are you an authorized Verizon Network Extender installer/reseller?

2.2 References

2.2.1 Cellular coverage references: Provide at least five (5) references from past cellular coverage projects (DAS, hybrid cellular, or small cell deployments). Include:

1. Customer name and contact information (name, title, phone, email)
2. Project location and brief description
3. Size of coverage area (square footage)
4. Technologies deployed (carriers, equipment types, signal sources)
5. Completion date
6. Brief description of project success and any challenges overcome

- 2.2.2 References for projects in similar environments (critical infrastructure, water/wastewater facilities, government buildings, or facilities requiring high reliability) are particularly valuable and will be weighted more heavily in evaluation.
- 2.2.3 The owner may contact these references to inquire about performance, quality of work, and ongoing support.

2.3 Technical Staff Qualifications

Describe the qualifications of the technical staff who will work on this project:

2.3.1 RF Engineering Team:

- Number of RF engineers on staff
- iBwave certification is preferred but not required. If your team includes iBwave Level 3 certified engineers, please note in your response.
- Other relevant certifications: BICSI, CWS (Certified Wireless Specialist), carrier-specific certifications
- Experience with iBwave or similar RF design software
- Years of experience in cellular coverage design

2.3.2 Construction/Installation Team:

- Number of installation technicians
- Relevant certifications (low-voltage, BICSI installer certifications, etc.)
- Experience with similar installations
- Safety certifications (OSHA, etc.)

2.3.3 Project Management:

- Provide profile of at least one project manager who will oversee this project
- Include relevant experience managing cellular coverage installations
- PMP or similar project management certifications

2.3.4 Service Capabilities:

- 2.3.4.1 If the customer requires service on a warranty or service contract basis, describe your service organization and response capabilities
- 2.3.4.2 Do you have a Network Operations Center (NOC) for remote monitoring?
- 2.3.4.3 What is your geographic service area? Local presence in Rhode Island/New England?

2.4 Subcontractor Policy

Prime contractors may use subcontractors for specialized portions of the work (e.g., low-voltage cabling installation, rooftop antenna mounting, electrical work) provided that:

- 2.4.1 Full Responsibility: The prime contractor maintains full responsibility and supervision of all subcontractor work.
- 2.4.2 Customer Approval: All subcontractors must be identified in the proposal and are subject to Customer approval before work begins.
- 2.4.3 Qualifications: Subcontractors must provide the same qualifications information as the prime contractor, including:
 - Company background and experience
 - Relevant certifications and licenses
 - Staff qualifications for their scope of work
 - Insurance certificates
 - References for similar work
- 2.4.4 Coordination: Prime contractor is responsible for coordinating all subcontractor activities and ensuring quality, schedule, and safety compliance.
- 2.4.5 Single Point of Contact: Customer will interface only with the prime contractor. Prime contractor is responsible for managing all subcontractor communications, payments, and performance.
- 2.4.6 Please clearly identify in your proposal:
 - Which portions of work will be self-performed
 - Which portions (if any) will be subcontracted
 - Names and qualifications of proposed subcontractors
 - How subcontractor work will be managed and coordinated
- 2.4.7 Contact Information
Provide a current organizational chart, with contact info, showing day-to-day customer facing contacts, as well as organization principals, and

technical support / services staff who would be involved with this account / project. Include: Names and titles, Direct phone numbers and email addresses, Roles and responsibilities for this project, Escalation path for issues.

2.4.8 Describe service trouble escalation procedures.

2.4.8.1 Are these processes automated or manually initiated?

2.4.8.2 What are the time frames / triggers for escalation?

2.5 Financial Information

2.5.1 Describe the history and financials of your company: sales, profit/loss, growth over the past 3-5 years, and financial stability.

2.5.2 Submit, or provide a link to, the most current audited financial report for the company.

3 Hybrid Cellular Coverage System Requirements

3.1 Project Overview

Cellular coverage inside the Philip J. Holton Purification Plant is poor to non-existent. Reliable wireless service, particularly Verizon, is a critical requirement to maintain communications during normal operations and especially in the event of telephone, ISP, or network outages.

A full coverage, carrier-independent Distributed Antenna System (DAS) solution has been evaluated but is not financially feasible at this time.

This project focuses on interim solutions for priority operational areas within the main plant building, with preference for cabling and/or equipment that can be reused or built upon as the solution is expanded to other areas in the future.

3.2 Project Objectives

The objectives of this project are to:

1. Improve cellular coverage in the most critical operational spaces within the purification plant
2. Ensure robust daily service for Verizon Wireless equipment.
3. Provide reliable failover capability during network outages (off-air signal source)
4. Provide reliable service for ATT and TMO via off-air signal sources.
5. Support Emergency Operations Center (EOC) activation scenarios with multi-carrier capability for 20-100 emergency response personnel

3.3 Primary Project Site:

Philip J. Holton Water Purification Works
61 N. Road (Route 116)
Scituate, RI 02831

Facility Characteristics:

- Active water purification facility operating 24/7
- Multi-story building with office areas, laboratories, and operations spaces
- Mix of construction types: dropped ceilings, block walls, open spaces
- Existing network infrastructure in place
- Rooftop antenna space available

3.4 Priority Coverage Areas

The following six (6) priority areas have been identified for cellular coverage. Vendors shall provide coverage in all areas listed:

Area	Name	Floor/Location	Size	Environment Type
1A	Control Room	Subfloor S1 South	500 sq. ft.	Office environment, dropped ceilings
1B	Operations	(includes Control Room area)	5,000 sq. ft.	Office environment, dropped ceiling, some block wall construction
2	Laboratory	2nd Floor	2,300 sq. ft.	Office environment, dropped ceilings
3	Emergency Operations Center (EOC)	3rd Floor	2,500 sq. ft.	Open space auditorium
4A	Lobby	1st Floor South	2,250 sq. ft.	Open space
4B	Offices 11xx	Adjacent to 4A	2,500 sq. ft.	Office environment, dropped ceiling, some block wall construction

Total Coverage Area: Approximately 15,050 square feet

Special Considerations:

- Area 1A - Control Room: Critical 24/7 operations center
- Area 3 - Emergency Operations Center:
 - Serves as backup EOC if Providence HQ is unavailable
 - Must support 20-100 personnel from multiple local, state and federal organizations, with a minimum of 30 simultaneous active voice sessions within the EOC during Failover Mode
 - Concurrent multi-carrier usage (Verizon, AT&T, T-Mobile)
 - Higher capacity requirements than other areas during EOC activation

3.5 Solution Architecture

Based on research, vendor consultations, and technical evaluation, Providence Water has determined that a hybrid cellular coverage system best meets the project objectives and constraints. Vendors shall propose solutions consistent with this architecture, or provide detailed justification for alternative approaches.

3.5.1 Three-Component Hybrid System:

- Component 1: ISP-Fed Small Cell Coverage (Primary/Normal Operation)
 - Technology: Verizon Network Extender(s) for Enterprise or equivalent ISP-connected small cells
 - Purpose: Provide robust, full-signal Verizon coverage during normal operations
 - Connection: Connected to facility network/ISP
 - Performance: Full LTE/5G signal strength and capacity
 - Carrier: Verizon (primary requirement)
- Component 2: Rooftop Directional Antennas (Signal Capture)
 - Technology: Directional antennas aimed at carrier macro towers
 - Carriers: AT&T, T-Mobile, and Verizon
 - Gain: 10-20 dB gain antennas
 - Purpose: Capture off-air signals for amplification system
 - Location: Rooftop with clear line-of-sight to carrier towers
- Component 3: Multi-Carrier Amplifier/Booster
 - Technology: FCC Part 20 or Part 90 certified signal booster (e.g., Cel-Fi G43, WilsonPro Enterprise, or equivalent)
 - Purpose: Amplify and distribute off-air signals
 - Carriers: All carriers (AT&T, T-Mobile, Verizon)
 - Connection: Rooftop antennas (input) to indoor distribution antennas (output)
 - Performance: Usable voice/text/data for routine and emergency communications

3.6 System Operation:

- Normal Mode (Primary):

- Verizon Network Extenders active, providing full-strength Verizon coverage
 - VZ Signal Strength: ≥ -85 dBm RSRP in at least 95% of each defined coverage area
 - Signal Quality: SINR ≥ 10 dB where signal is present
 - Voice Quality: Clear inbound and outbound voice calls without dropped calls under normal usage
 - Data Capability: Reliable SMS, email, and typical business data usage
- Multi-carrier amplifier has Verizon frequencies DISABLED to prevent interference with Network Extenders
- Multi-carrier amplifier has AT&T and T-Mobile frequencies enabled
- Failover Mode (ISP/Network Outage):
 - Verizon Network Extenders go offline due to loss of ISP connectivity
 - Verizon frequencies on multi-carrier amplifier enabled
 - Multi-carrier amplifier provides coverage for ALL carriers (Verizon, AT&T, T-Mobile) using off-air signals
 - Signal Strength: ≥ -95 dBm RSRP in at least 90% of each defined coverage area
 - Signal Quality: SINR ≥ 5 dB where signal is present
 - Voice Capability: Usable voice calls without persistent call failures
 - Text/Data: Functional SMS and light data capability

Provide documented concurrent voice session capacity calculations for both Normal and Failover modes, including per-carrier capacity assumptions and equipment limitations.

3.6.1 Automatic / Manual Switchover:

In the event of failure of the Verizon network extender(s), the ability to switch to using off-air signals is required. Automatic failover to Verizon off-air signals is preferred, but may not exist in the current market for this type of hybrid system.

If manual switchover to Verizon off-air signals is anticipated, Vendor shall provide training for staff, along with detailed, step-by-step documentation for manual switchover between operational modes, to include:

- i. Indicators that ISP/network outage has occurred; Decision criteria for activating failover mode
- ii. A clear step-by-step process for enabling/disabling Verizon frequencies on amplifier (e.g., web interface, physical switch, etc.)
- iii. Procedures for verification that failover mode is active
- iv. Guidance on when and how to return to normal mode
- v. Quick Reference laminated card or posted instructions

3.6.2 Growth Allowance:

Describe the ability of the equipment to scale up / expand for:

- A 25% increase in user counts over next 5 years
- Addition of coverage to adjacent areas or outlying buildings
- New frequency bands as carriers deploy spectrum

Identify specific equipment model expansion limits (maximum indoor antennas, maximum output power, maximum supported carriers)

3.7 Amplifier Technology and Frequency Requirements

3.7.1 Supported Technologies:

The system shall support:

1. 4G LTE: Full support for 4G/LTE services of all major carriers
2. 5G NR: Support for 5G New Radio frequencies and bandwidths used by carriers in Rhode Island
3. Future Technologies: System should be upgradable to support future cellular standards without complete replacement

3.7.2 Signal Survey

A full cellular signal survey was completed at the site for all carriers and locations. See appendix A.

Observed Frequencies include:

Carrier	Observed Frequency	Band Name (Number)
Verizon	751 MHz	Upper 700 (Band 13)
	885 MHz	Cellular (Band 5)
	1970 MHz	PCS (Band 2)
	2120 MHz	AWS (Band 66/4)
AT&T	739 MHz	Lower 700 (Band 12/17)

	763 MHz	FirstNet (Band 14)
	1937.5 MHz	PCS (Band 2)
	2175 MHz	AWS (Band 66/4)
	2355 MHz	WCS (Band 30)
T-Mobile	731.5 MHz	Lower 700 (Band 12)
	1955 MHz	PCS (Band 2/25)
	2140 MHz	AWS (Band 66/4)

3.7.3 Band Support:

Vendors shall clearly state:

- which frequency bands are supported by proposed equipment
- Any limitations or restrictions on specific bands
- Whether upgrades are available for additional bands/carriers

Low Bands :

- 600 MHz (Band 71 - T-Mobile)
- 700 MHz (Bands 12/13 - Verizon, T-Mobile, AT&T)
- 850 MHz (Band 5 - AT&T, Verizon)

Mid Bands :

- 1700/2100 MHz AWS (Bands 4/66 - All carriers)
- 1900 MHz PCS (Bands 2/25 - All carriers)

5G Bands:

- C-Band 3.7-3.98 GHz (n77/n78 - Verizon, AT&T)
- 2.5 GHz (Band 41/n41 - T-Mobile)
- Additional 5G NR bands as deployed by carriers

For each supported carrier, Vendor shall provide:

- Supported LTE band numbers
- Supported 5G NR band numbers
- Maximum gain and output power per band (if available)
- Any bands that are explicitly not supported

For avoidance of doubt, amplification of C-Band (n77/n78) and 2.5 GHz (n41) is not required under this RFP. However, Vendor shall clearly indicate whether the proposed equipment supports these bands.

3.7.4 FirstNet :

Customer is interested in optionally adding support for Firstnet signals, Band 14 (700 MHz) for FirstNet/AT&T first responders. Please provide the cost to include this capability in the system as “**Add alternate #1: Firstnet**”.

Itemize any additional equipment and/or labor required, including any approvals, licensing or registrations required by carriers or the FCC.

3.8 Signal Sources and Connectivity

3.8.1 ISP-Fed Signal Source:

- Provide and install Verizon Network Extender(s) or Equivalent. Extenders will use ISP backhaul via customer internet connection.
- Network Extenders must be registered with Verizon, vendor shall obtain any necessary carrier approvals, and include coordination with Verizon, activation and support as needed.

Include with your response a list of requirements and specifications including:

- Network connection specifications (bandwidth, latency, QoS)
- Power over Ethernet (PoE) or AC power requirements
- Network security considerations and VLAN configuration
- Redundant network connections (if feasible)

3.8.2 Off-Air Signal Source

Vendor shall provide and install Rooftop Antenna System using appropriate directional antennae, connected to distribution amplifier(s), to support use of off-air tower signals from all carriers.

- Provide AT&T and T-Mobile coverage during normal operation
- Provide Verizon, AT&T, and T-Mobile during failover

Conduct signal survey to identify the optimal target tower(s) for each carrier, verify adequate off-air signal strength for amplification, and plan antenna locations and aiming.

3.9 Donor Signal Verification and Minimum Requirements

Prior to final design approval and equipment procurement, Vendor shall perform an on-site rooftop donor signal survey for each carrier to be supported via off-air amplification (Verizon, AT&T, T-Mobile).

Vendor shall document and submit:

- RSRP
- SINR
- RSRQ (if available)
- Band identification
- Test equipment used
- Date and time of measurement
- Antenna height and location
- Proposed donor antenna azimuth and tilt

To qualify for amplification design approval, the following minimum outdoor donor signal levels shall be demonstrated at the proposed donor antenna location:

Normal Conditions (Design Target):

- RSRP \geq -85 dBm on at least one supported band per carrier
- SINR \geq 5 dB

Minimum Acceptable (Failover Feasibility Threshold):

- RSRP \geq -95 dBm
- SINR \geq 0 dB

If donor signal does not meet these thresholds, Vendor shall:

- Notify Customer in writing
- Provide engineering analysis of expected indoor performance
- Propose alternative solutions (additional antennas, different azimuth, higher-gain antenna, or alternative architecture)

Vendor shall not proceed with equipment or materials ordering, or amplifier installation until donor feasibility is confirmed.

If post-installation performance deficiencies are determined to be caused by inadequate donor signal validation, corrective action shall be Vendor responsibility at no additional cost to Customer.

3.10 Uplink Performance Requirements

In addition to downlink performance metrics (RSRP, SINR), Vendor shall validate uplink performance for both operational modes (Normal and Failover).

The system shall demonstrate functional uplink performance sufficient to support reliable voice and basic data transmission.

3.10.1 Uplink Validation Requirements

During testing, Vendor shall verify:

- Successful outbound voice call initiation from representative locations in each defined coverage area.
- Successful call connection and sustained call duration of at least two (2) minutes without drop.
- Successful SMS/text transmission.
- Successful basic data transmission (email or equivalent low-bandwidth application).

Where test equipment permits, Vendor shall log:

- Uplink SINR
- UE transmit power levels
- Indications of power back-off or maximum transmit condition

3.10.2 Uplink Performance Criteria

Normal Mode (ISP-fed Verizon):

- Outbound voice calls shall complete without persistent call setup failures.
- No repeated call retries required at test locations.

Failover Mode (Off-Air Amplified):

- Outbound voice calls shall complete successfully in $\geq 90\%$ of tested locations.
- Devices shall not consistently operate at maximum transmit power (indicating uplink stress) in more than 10% of test points.
- SMS and basic data transmission shall be functional.

If uplink instability, call failure, or excessive transmit power conditions are observed, Vendor shall adjust system configuration (gain balancing, antenna placement, power levels) and retest until compliance is achieved.

3.11 Equipment Specifications and Manufacturer Preferences

3.11.1 Preferred Equipment:

Based on vendor consultation and industry research, Providence Water has identified the following equipment types as meeting project requirements. These specifications establish baseline performance and quality standards.

3.11.2 ISP-Fed Small Cells

- Example: Verizon Network Extender 3 for Enterprise
- Type: Enterprise femtocell/small cell
- Connection: Ethernet backhaul via customer network
- Carrier: Verizon
- Coverage: Optimized for LTE and 5G
- Or Equivalent: Other Verizon-approved small cell solutions

3.11.3 Multi-Carrier Signal Booster/Amplifier

- Example: Cel-Fi GO G43,
- Type: Commercial-grade multi-carrier cellular amplifier
- FCC Certification: Part 20 or Part 90 certified
- Carriers: All major U.S. carriers (AT&T, T-Mobile, Verizon)
- Bands: Support for low, mid, and 5G bands
- Remote Monitoring: Built-in or network-connected monitoring capability preferred

3.11.4 Rooftop Antennas

- Type: Directional antennas per carrier as required by RF design (LPDA, Yagi, Panel, as appropriate)
- Gain: 10-20 dB gain
- One antenna per carrier / macro tower (AT&T, T-Mobile, Verizon)
- GPS antenna for system timing/synchronization (if required by equipment). Vendor shall verify and demonstrate successful GPS lock for all small cell devices during commissioning.
- Proper azimuth and tilt alignment toward carrier towers
- Weatherproof and lightning-protected mounting
- Non-penetrating mounting compatible with rooftop structure and environment
- Secured to withstand wind loading per local codes

- Compliance with building structural requirements and aesthetics

3.11.5 Lightning Protection and Grounding

All rooftop antennas, coaxial cabling, and associated RF components shall be properly grounded and surge-protected in accordance with applicable codes and manufacturer requirements.

Vendor shall:

- Bond all donor antennas and mounting hardware to the building grounding electrode system
- Install inline coaxial surge protectors at building entry points
- Ensure grounding complies with NEC Article 810 and applicable NFPA requirements
- Maintain proper separation and bonding to prevent ground loops
- Provide grounding conductor sizing and routing details in submittals

All grounding connections shall be mechanically secure, corrosion-resistant, and labeled.

Grounding and surge protection shall be included in the base bid and not treated as optional.

3.11.6 Indoor Distribution Antennas

- Type: Omnidirectional or low-profile dome antennas for drop ceilings where possible. Wall-mounted or other discrete mounting in open areas
- Form Factor: Discrete, professional appearance
- Frequency: Broadband to support all required frequencies
- Quantity: As required by RF design to meet coverage objectives
- Properly supported and secured
- Access for future maintenance

3.11.7 Manufacturer Substitutions:

Equivalent equipment from other manufacturers may be proposed, subject to the Manufacturer Substitution Policy in Section 1.8.

3.11.8 Equipment Guidelines:

- All equipment shall be new (not refurbished) unless explicitly approved by Customer
- Equipment must be currently supported by manufacturer (not end-of-life or discontinued)

- Manufacturer warranty must be provided for all major components
- All wireless equipment must be FCC certified for intended use. Provide FCC ID numbers and certification documentation in proposal

3.12 Carrier Registration, FCC Compliance, and Authorization

Vendor shall be fully responsible for all regulatory, carrier, and FCC compliance requirements associated with the installation and activation of any cellular signal booster, amplifier, or small cell equipment provided under this project.

The Vendor shall:

- 3.12.1 Register all Class B signal booster systems with the FCC in accordance with Part 20 requirements prior to activation.
- 3.12.2 Register and coordinate the booster system with each supported carrier (Verizon, AT&T, T-Mobile), including submission of required technical parameters such as:
 - Physical location (latitude/longitude)
 - Supported frequency bands
 - Maximum gain and output power settings
 - Donor antenna direction and azimuth
 - Installer contact information
- 3.12.3 Obtain written acknowledgment or confirmation of registration or approval from each applicable carrier prior to final activation.
- 3.12.4 Provide FCC ID numbers and official equipment authorization documentation for all RF devices installed.
- 3.12.5 Configure equipment in strict compliance with FCC limits and carrier specifications, including:
 - Maximum gain limits
 - Automatic gain control (AGC) functionality
 - Oscillation detection and shutdown features
 - Band enable/disable configuration for hybrid operational modes
- 3.12.6 Provide documentation at project closeout confirming:
 - FCC registration confirmation numbers (if applicable)
 - Carrier registration confirmation
 - Final amplifier band configuration settings

Failure to properly register or configure the system in compliance with FCC or carrier requirements shall be the responsibility of the Vendor. Any corrective work, fines, retesting, or mitigation required due to non-compliance or interference

attributable to Vendor design, configuration, or installation shall be performed at no additional cost to the Customer.

3.13 RF Isolation and Oscillation Control

Vendor shall design and install the system to maintain sufficient RF isolation between donor (rooftop) antennas and indoor service antennas to prevent oscillation and interference.

Isolation shall exceed the maximum configured system gain by at least **20 dB** on all supported frequency bands:

$$\text{Isolation (dB)} \geq \text{System Gain (dB)} + 20 \text{ dB}$$

Vendor shall measure and document isolation prior to final activation and verify compliance under maximum gain settings. Provide measured isolation values and configured gain values per band.

If required isolation cannot be achieved, Vendor shall implement corrective measures (antenna relocation, gain adjustment, shielding, etc.) prior to system acceptance.

3.14 Non Interference

The Contractor shall ensure that all equipment furnished and installed including but not limited to antennas, amplifiers, cabling, power supplies, grounding systems, and associated components, 1) shall meet the requirements of NFPA 72/NFPA 1225, IFC Section 510, and 2) shall not cause harmful interference with, degrade, disrupt, or otherwise adversely affect the operation or performance of other licensed or unlicensed RF systems, including customer Wi-Fi networks, industrial wireless systems and SCADA communications, two-way radio systems, or the existing or proposed 800 MHz Bi-Directional Amplifier (BDA) and associated Distributed Antenna System (DAS) Equipment.

The Contractor shall be responsible for:

1. Designing and installing the system to prevent desensitization, intermodulation, or signal noise that could impact the other systems.
2. Coordinating frequencies, channel assignments, output power levels, antenna locations, and pathway routing to ensure compatibility.
3. Performing pre-installation and post-installation testing to verify that no measurable degradation to the other systems occurs.
4. Immediately correcting, at no additional cost to the Owner, any interference condition determined by the Owner, Authority Having Jurisdiction (AHJ), system integrator, or testing agency to be attributable to the work described herein.

If interference is identified, the Contractor shall promptly implement mitigation measures, including but not limited to filtering, shielding, relocation of components, power adjustment, or redesign as required to restore full compliance and performance of the other system.

If interference arises within 30 days of activation, burden of proof shall be on Vendor to demonstrate non-causation.

Final system acceptance shall be contingent upon verification that the installed system does not adversely impact the operation of the other systems.

3.15 Cabling Infrastructure

3.15.1 Vendor shall provide and install all necessary cabling to connect the system, including but not limited to:

- RF coaxial cables from rooftop antennas to amplifier
- RF coaxial cables from amplifier to indoor distribution antennas
- Ethernet cables for Network Extender connections
- Power cables for equipment
- All interior and exterior runs
- Vertical risers and horizontal distribution

3.15.2 Cable Protection

The Purification Plant is classified as an industrial environment. Accordingly, all exposed antenna and distribution cabling shall be installed within conduit or shall consist of armored cable.

For horizontal distribution cables (coaxial or Ethernet) installed above dropped ceilings or in other protected areas, exceptions may be granted with prior written approval from the customer.

3.15.3 Cable Types and Specifications:

RF Coaxial Cable:

- Low-loss coaxial cable appropriate for frequencies
- Plenum-rated (CMP) for plenum spaces, or installed in conduit
- Armored options: Interlocked armor (MC cable) or conduit installation
- Minimize cable runs to reduce signal loss

- Proper connectors (N-type or 7/16 DIN) with weather-proofing for exterior connections

Ethernet Cabling (for Network Extenders):

- Category 6 or 6a, plenum-rated or in conduit
- Support for PoE if required by equipment
- Proper termination and testing consistent with existing equipment. (Panduit to match existing infrastructure)
- Armored or in conduit per requirement above

Conduit:

- EMT (Electrical Metallic Tubing) or rigid conduit as appropriate
- Properly sized for cable fill ratios per NEC
- Fire-rated penetrations and firestop where required
- Neat, professional routing minimizing visual impact

Cable Routing:

- Coordinate cable pathways with facility management
- Use existing cable trays, j-hooks, or conduit where available
- New pathways to be installed neatly and professionally
- Label all cables at both ends with clear identification
- Provide as-built drawings showing all cable routes

3.16 Equipment Locations:

There are multiple IDF closets / equipment rooms in the facility. Two of note are the BDF in the lower level adjacent to the Control Room, and the IDF on the top floor adjacent to the EOC. Both have adequate space for mounting of equipment. Other spaces may be considered for approval.

Equipment may be centrally housed or split between the rooms as appropriate (e.g., outdoor antennae connections to amp on top floor, Verizon extenders and ISP connections on lower level).

Provide all requirements as part of your bid, including type of space, wall or rack mount (RUs), power requirements for all active equipment, grounding, cooling/HVAC, and backup power type (A/C or PoE) and watts. All active components shall be connected to facility-provided emergency power circuits where available.

4 Implementation

4.1 Installation Work

- 4.1.1 The vendor's work shall be scheduled so that it in no way conflicts or interferes with or impedes the Customers work. Any work that is service affecting, or that is in conflict with the business of the Customer will be rescheduled to such dates or times as approved by the Customer.
- 4.1.2 Normal business hours are from 8:30 am to 4:30 pm, Monday through Friday.
- 4.1.3 The buildings may be accessed for after-hours work, through advanced notice.
- 4.1.4 After hours work should be included for all work that disturbs or disrupts as described above.
- 4.1.5 This work shall be included with and priced into the vendor response. No approval for change orders or additional funds will be granted for after-hours work, or for rescheduling of work due to disruption.
- 4.1.6 A building security escort may be required for work within some spaces. This escort will be provided by the customer at customer's discretion.

4.2 Implementation Plan

- 4.2.1 Describe the vendor's implementation plan. Include meetings required, responsible parties, resources required of the customer with time estimates, etc.
- 4.2.2 Include sample system test plans and procedures, and support after installation.
- 4.2.3 Detailed plan: The successful contractor shall prepare and submit for approval, (no later than 14 days from notice of award), a more detailed plan showing the order and schedule of events leading up to system activation. This plan shall include a customized and detailed test plan to verify the proper operation of the system, check the various functions, and include failover procedures.

4.3 Pre-Activation Testing

Prior to receiving final authorization to activate the system for production use, the vendor shall conduct comprehensive pre-activation testing of both operational modes.

- 4.3.1 Normal Operation Mode Testing (Verizon ISP-Fed):
Test and demonstrate:

- Verizon Network Extender connectivity and registration
- Signal strength throughout all coverage areas
- Voice call quality (inbound and outbound)
- Data connectivity and throughput
- SMS/text messaging
- Coverage uniformity and absence of dead zones
- Handset compatibility (test with multiple device types)

4.3.2 Off-Air Amplified Mode Testing

Test and demonstrate:

- Rooftop antenna alignment and signal reception
- Amplifier functionality for all carriers (Verizon, AT&T, T-Mobile)
- Signal strength throughout coverage areas (reduced VZ performance expected, but adequate)
- Voice call quality on all carriers
- Text messaging and basic data connectivity
- Manual switchover procedure (disable ISP-fed, enable amplifier Verizon frequencies)

4.3.3 EOC Scenario Testing (if applicable):

If possible, simulate EOC activation scenario:

- Higher user density in Area 3 (EOC)
- Multiple carriers active simultaneously
- Sustained usage period to verify capacity

4.3.4 Documentation:

Provide test reports documenting:

- Test procedures and methods
- Test points and locations
- Signal strength measurements (RSRP, RSRQ, SINR)
- Voice call quality (MOS scores if available)
- Data throughput results

- Any issues identified and resolution
- Acceptance criteria met/not met

5 Ongoing Support & Service Requirements

Providence Water is interested in securing support and service for the long term with the successful vendor. To this end, please respond to the requirements below.

5.1 Initial Warranty Period

The vendor shall provide a comprehensive warranty covering all equipment, materials, configuration, and workmanship for a minimum period of **twelve (12) months from final system acceptance**.

The warranty shall include:

- ISP-fed small cells / Network Extenders
- Multi-carrier amplifier system
- Rooftop antennas
- Indoor distribution antennas
- Cabling, connectors, grounding, surge protection
- Labor required for repair, replacement, reconfiguration, and re-testing

During the warranty period, the system shall continue to meet the performance benchmarks in place at system acceptance.

If system performance degrades below specified thresholds due to installation defect, configuration error, or equipment failure, vendor shall correct the issue at no additional cost during the warranty period.

Vendor shall clearly describe:

- Warranty exclusions
- Typical turnaround time for equipment replacement
- Whether spare parts are locally stocked
- Process for initiating warranty service

5.2 Service Response Capabilities (Information Requested)

Providence Water requests a description of the vendor's standard service practices for systems of this size.

Vendors shall describe their typical response approach for:

- Complete outage (loss of system or failover capability)
- Partial degradation (loss of coverage in one or more areas)
- Non-service-impacting issues (alarms, configuration adjustments, firmware notices)

For each, provide:

- Typical response time
- On-site dispatch timeframe (if applicable)
- Support hours (business hours vs. 24/7)
- Escalation process
- Billing structure (travel, minimums, after-hours)

This section is for disclosure of standard offerings and associated costs.

5.3 Post-Warranty Support Options

Provide pricing and scope for:

5.3.1 Break/Fix (Time & Materials)

- Hourly labor rates
- After-hours rates
- Travel policies
- Minimum billable increments

5.3.2 Optional Annual Maintenance Agreement

If offered, describe inclusions such as:

- Remote support
- On-site service
- Firmware updates
- Periodic system health review

Provide pricing for 1-, 3-, and 5-year terms if available.

5.3.3 Remote Monitoring (If Available)

If the system supports remote monitoring, describe:

- Monitoring capabilities (alarms, gain levels, system health)
- Whether monitoring is included or optional
- Associated cost

Monitoring is optional but should be clearly identified if available.

5.4 Preventative Maintenance

If recommended, describe:

- Frequency
- Scope of inspection
- Associated cost

5.5 Firmware and Software Updates

Vendor shall describe:

- Update notification process
- Whether updates are included during warranty
- Whether updates are included under maintenance agreements
- Whether on-site support is required

5.6 Transition Support

Upon request, vendor shall provide current configuration documentation, firmware versions, amplifier settings, carrier registration documentation (if applicable), and as-built drawings to support transition to another service provider.

No service restrictions shall prevent transition.

6 Acceptance testing and Documentation

6.1 Acceptance Testing

Upon completion of installation, vendor shall perform testing to verify compliance with the performance requirements defined in Section 3.

Testing shall be conducted in both operational modes, Normal and Failover, and be conducted in all coverage areas identified in Section 3.

6.2 Signal and Functional Verification

Vendor shall perform signal measurements at representative locations within each defined coverage area to verify compliance with minimum thresholds defined herein. Log RSRP, SINR, and if available RSRQ.

Conduct functional testing to include:

- Inbound and outbound voice calls
- SMS/text messaging
- Basic data connectivity validation

Full stress testing or carrier-grade load simulation is not required unless proposed by vendor.

Please include with your proposal:

- Testing methodology
- Type of equipment used (handsets or scanners)
- Approximate test point density

6.3 Manual Failover Demonstration

Vendor shall demonstrate the manual switchover procedure between operational modes.

Demonstration shall include:

- Simulated loss of ISP-fed mode
- Activation of amplifier-based failover mode
- Verification of active coverage in failover mode
- Return to normal operation

Providence Water staff shall observe at least one complete switchover cycle.

6.4 Documentation Deliverables

At project completion, vendor shall provide electronic documentation in PDF format to include:

6.4.1 As-Built Information

- Final antenna locations
- Equipment locations
- Cable routing overview
- Equipment labeling scheme

6.4.2 Equipment Summary

- Make, model, and serial numbers
- Firmware/software versions
- Amplifier band configuration
- Small cell network configuration summary

6.4.3 Test Summary

- Summary of signal measurements
- Confirmation of compliance with Sections 3.7 and 3.9
- Description of any areas with marginal performance

6.4.4 Operational Documentation

- System overview
- Manual failover procedure (step-by-step)
- Basic troubleshooting guidance
- Vendor support contact information

Documentation shall be delivered in PDF format.

Appendix A: Floorplans and Signal Survey Data

Detailed floorplans for all defined coverage areas, along with comprehensive cellular signal survey data and supporting reports, are available to qualified vendors for the purpose of preparing a response to this RFP.

Available materials include:

- Architectural floorplans for all coverage areas
- Detailed signal survey measurements
- Carrier band identification data
- Supporting RF analysis reports

These materials contain sensitive infrastructure and operational information.

Confidentiality and Use Restrictions

All floorplans, signal survey data, reports, and related technical documentation are considered confidential and proprietary.

Such information:

- Is provided solely for the purpose of preparing a response to this RFP
- Shall not be distributed, copied, or shared with third parties except as necessary for proposal preparation
- Shall not be used for any purpose unrelated to this specific project
- Shall not be retained beyond the proposal process if vendor is not selected

Non-Disclosure Agreement Requirement

Electronic copies of the floorplans and signal survey documentation will be provided only upon receipt of a fully executed Non-Disclosure Agreement (NDA).

The NDA form is included below.

Vendors requesting access to these materials shall:

1. Execute the NDA in full
2. Return the signed document via email to:

INFO@BRNX.COM

Upon verification of the executed NDA, electronic access to the documentation will be provided.

Appendix B: NDA

CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT

This Agreement, executed by the undersigned on the date indicated, is entered into by the undersigned (hereinafter referred to as “Contractor”) with the City of Providence and Providence Water (herein referred to as “Owner”), for the purposes of securing Documents or Digital Data (herein referred to as “Documents”) for use by the Contractor in order to provide a proposal for work/services for the Owner.

The undersigned Contractor hereby acknowledges and agrees;

1. That the Documents received by the Contractor under their agreement remains the property of the Owner after the completion of the project.
2. That the Documents and information received by the Contractor are confidential and shall be treated as such by the Contractor. Contractor shall hold in confidence and protect the documents and information contained therein, to prevent any unauthorized use and dissemination to others.
3. That the Documents and information shall be used solely for the purposes stated herein.
4. That the Documents and information shall only be distributed and discussed with persons directly involved in the work/services and shall not be discussed with or disclosed to anyone who does not have a need to know.
5. That the Contractor shall make the minimum number of copies of the Documents necessary to perform the work/services and shall maintain a record of copies made and to whom distributed, and provide the Owner with this record, and return all such copies made to the Owner as provided in Item No. 1 above. It is the responsibility of the Contractor to hold all parties whom copies have been given to the terms of this agreement.
6. That the Contractor shall advise all parties to whom the Documents are issued to, that all information is confidential, and they shall be obligated to the requirements of the protection of such.
7. That nothing herein shall obligate the Owner to the Contractor in any way, and that the sole purpose of this Agreement is to maintain the security and confidentiality of the Documents.
8. That the laws of the State of Rhode Island shall govern this Agreement, and that the Owner shall execute all rights provided by said laws in the event of a breach of this Agreement by the Contractor
9. That the obligations of this Agreement shall survive the completion of the project and return of the Documents and shall continue to remain intact with respect to the confidentiality of the documents and information.

CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT

List of Documents received:

Scituate plant floor plans, signal survey benchmark reports and signal data.

If additional space is required, attach as an appendix and note # of added pages here _____.

Understood and Agreed:

BIDDER (Company Name):

BY (Signature):

NAME (Printed):

TITLE:

DATE:

WITNESSED BY:

NAME (Printed):

DATE:

SUPPLEMENTAL INFORMATION

If the issuing department for this RFP determines that your firm's bid is best suited to accommodate their need, you will be asked to provide proof of the following prior to formalizing an award.

An inability to provide the outlined items at the request of the department may lead to the disqualification of your bid.

*This information is **NOT** requested to be provided in your initial bid that you will submit to the City Clerk's office by the "date to be opened" noted on page 1. This list only serves as a list of items that your firm should be ready to provide on request.*

All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city's Open Meetings Portal and made available as a public record.

You must be able to provide:

- Business Tax ID will be requested after an award is approved by the Board of Contract and Supply.
- Proof of Insurance.
- Certificate of Good Standing with the Rhode Island Secretary of State.

CITY OF PROVIDENCE STANDARD TERMS & CONDITIONS

1. The terms “you” and “your” contained herein refer to the person or entity that is a party to the agreement with the City of Providence (“the City”) and to such person’s or entity’s employees, officers, and agents.
2. The Request For Proposals (“RFP”) and these Standard Terms and Conditions together constitute the entire agreement of the parties (“the Agreement”) with regard to any and all matters. By your submission of a bid proposal or response to the City’s RFP, you accept these Standard Terms & Conditions and agree that they supersede any conflicting provisions provided by bid or in any terms and conditions contained or linked within a bid and/or response. Changes in the terms and conditions of the Agreement, or the scope of work thereunder, may only be made by a writing signed by the parties.
3. You are an independent contractor and in no way does this Agreement render you an employee or agent of the City or entitle you to fringe benefits, workers’ compensation, pension obligations, retirement or any other employment benefits. The City shall not deduct federal or state income taxes, social security or Medicare withholdings, or any other taxes required to be deducted by an employer, and this is your responsibility to yourself and your employees and agents.
4. You shall not assign your rights and obligations under this Agreement without the prior written consent of the City. Any assignment without prior written consent of the City shall be voidable at the election of the City. The City retains the right to refuse any and all assignments in the City’s sole and absolute discretion.
5. Invoices submitted to the City shall be payable sixty (60) days from the time of receipt by the City. Invoices shall include support documentation necessary to evidence completion of the work being invoiced. The City may request any other reasonable documentation in support of an invoice. The time for payment shall not commence, and invoices shall not be processed for payment, until you provide reasonably sufficient support documentation. In no circumstances shall the City be obligated to pay or shall you be entitled to receive interest on any overdue invoice or payment. In no circumstances shall the City be obligated to pay any costs associated with your collection of an outstanding invoice.
6. For contracts involving construction, alteration, and/or repair work, the provisions of applicable state labor law concerning payment of prevailing wage rates (R.I. Gen. Laws §§ 37-13-1 et seq., as amended) and the City’s First Source Ordinance (Providence Code of Ordinances §§ 21-91 et seq., as amended) apply.
7. With regard to any issues, claims, or controversies that may arise under this Agreement, the City shall not be required to submit to dispute resolution or mandatory/binding arbitration. Nothing prevents the parties from mutually agreeing to settle any disputes using mediation or non-binding arbitration.
8. To the fullest extent permitted by law, you shall indemnify, defend, and hold harmless the City, its employees, officers, agents, and assigns from and against any and all claims, damages, losses, allegations, demands, actions, causes of action, suits, obligations, fines, penalties, judgments, liabilities, costs and expenses, including but not limited to attorneys’ fees, of any nature whatsoever arising out of, in connection with, or resulting from the performance of the work provided in the Agreement.
9. You shall maintain throughout the term of this Agreement the insurance coverage that is required by the RFP or, if none is required in the RFP, insurance coverage that is considered in your industry to be commercially reasonable, and you agree to name the City as an additional insured on your general liability policy and on any umbrella policy you carry.
10. The City shall not subject itself to any contractual limitations on liability. The City shall have the time permitted within the applicable statute of limitations, and no less, to bring or assert any and all causes of action, suits, claims or demands the City may have arising out of, in connection with, or resulting from the performance of the work provided in the Agreement, and in no event does the City agree to limit your liability to the price of the Agreement or any other monetary limit.
11. The City may terminate this Agreement upon five (5) days’ written notice to you if you fail to observe any of the terms and conditions of this Agreement, or if the City believes your ability to perform the

terms and conditions of this Agreement has been materially impaired in any way, including but in no way limited to loss of insurance coverage, lapsing of a surety bond, if required, declaration of bankruptcy, or appointment of a receiver. In the event of termination by the City, you shall be entitled to just and equitable compensation for any satisfactory work completed and expenses incurred up to the date of termination.

12. Written notice hereunder shall be deemed to have been duly served if delivered in person to the individual or member of the firm or entity or to an officer of the entity for whom it was intended, or if delivered at or sent by registered or certified mail to the last business address known by the party providing notice.
13. In no event shall the Agreement automatically renew or be extended without a writing signed by the parties.
14. You agree that products produced or resulting from the performance of the Agreement are the sole property of the City and may not be used by you without the express written permission of the City.
15. For any Agreement involving the sharing or exchange of data involving potentially confidential and/or personal information, you shall comply with any and all state and/or federal laws or regulations applicable to confidential and/or personal information you receive from the City, including but not limited to the Rhode Island Identity Theft Protection Act, R.I. Gen. Laws § 11-49.3-1, during the term of the Agreement. You shall implement and maintain appropriate physical, technical, and administrative security measures for the protection of, and to prevent access to, use, or disclosure of, confidential and/or personal information. In the event of a breach of such information, you shall notify the City of such breach immediately, but in no event later than twenty-four (24) hours after discovery of such breach.
16. The Agreement is governed by the laws of the State of Rhode Island. You expressly submit yourself to and agree that any and all actions arising out of, in connection with, or resulting from the performance of the Agreement or relationship between the parties shall occur solely in the venue and jurisdiction of the State of Rhode Island or the federal court located in Rhode Island.
17. The failure of the City to require performance of any provision shall not affect the City's right to

require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

18. If any term or provision of this Agreement, or the application thereof to any person or circumstance shall, in any extent, be invalid or unenforceable, the remainder of this Agreement shall not be affected thereby, and each term and provision shall be valid and enforceable to the fullest extent permitted by law.

Certificate of Insurance

1. The Original Certificate of Insurance must be mailed to:

Providence Water

125 Dupont Drive
 Providence, RI 02907
 Attention: Elizabeth Paquin

2. Certificate must be completely filled out listing all Insurance Companies, Coverage's. and Limits. Providence Water (PW) require the following Certificate must be completely filled out listing all Insurance Companies, Coverage's. and Limits. Providence Water (PW) require the following insurances requirements.

Required	Coverage
x	Worker's Compensation and Occupational Insurance: In statutory amounts, Covering all employees of the contractor. Employer's liability coverage with limits of not less than \$500,000.00/ each accident or illness shall be included.
x	Commercial General Liability Insurance: Commercial Liability Insurance with limits of not less than \$1,000,000.000 per occurrence, for bodily injury and/or property damage liability \$2,000,000.000 in the aggregate. Products/completed operation, independent contractors, and contractual liability coverages are to be included. No exclusions for rigging, hoisting, explosions, collapse and/or underground. Completed operations coverage must remain in effect for a period of not less than 2 years after the completion of all work. "The City of Providence, Providence Water, its officers and agents are to name as an additional insured."
x	Automobile Liability Insurance: When any motor vehicles are used in connection with the work to be performed the Contractor shall maintain Automobile Liability Insurance with limits of not less \$1,000,000.00 per occurrence, combined single limit, for bodily injury and property damage. "The City of Providence, Providence Water are to be named as additionally insured."
	Builder's Risk Policy: When a free standing unit is to be constructed or any addition to our facilities made in connection with the work specified, the Contractor must provide Builder's Risk Insurance or an Installation Floater covering all risks with limits equal to the award of the contract.
	Professional Liability Insurance: When any architects, engineers, or consulting firms perform work in connection with any contract, the contractor shall maintain Professional Liability Insurance with limits not less than \$2,000,000.00 per occurrence and aggregate.

3. The insured name must be the same name as the name on the bid submitted.
4. Insurance Certificates should state the Title of Project to be performed.

5. Certificate must read “The City of Providence, Providence Water, its Officers and Agents are named as additional insured.”
6. Certificate Holder provision of the certificate must list “The City of Providence and Providence Water.”
7. Cancellation and/or reduction in coverage must provide 30 days' notice.
8. The successful bidder must produce a satisfactory Certificate of Insurance within 10 days after award. No work will begin or contract signed unless all these requirements are met. Failure to do so may result in the cancellation of the award and award to another bidder.
9. The insurances specified shall be carried until all work required to be performed under the terms of the CONTRACTOR's services are satisfactorily completed and for a period of at least two years after the date when final payment becomes due. Failure to carry or keep such insurance in force shall constitute a violation of the contract, and the Providence Water \ maintains the right to stop work and/or withhold payment until proper evidence is provided.
10. The insurance shall provide for 30 days’ prior written notice to be given to the Providence Water in the event coverage is substantially changed, canceled, or not renewed.
11. In no case shall the coverage limits stated for Commercial General Liability, Automobile Liability, or Professional Liability insurance stated above be less than the total contract amount. If the total contract amount exceeds any stated limit, the limit shall be adjusted to the satisfaction of the OWNER to the next highest \$1,000,000.00 exceeding the total contract amount.
12. Providence Water maintains the right to modify, delete, alter or change these requirements.
13. The successful bidder understands and agrees that any insurance protection furnished by the CONTRACTOR hereunder shall in no way limit its responsibility to indemnify and save harmless Providence Water.
14. For additional Information contact Elizabeth Paquin at (401)521-6300 ext. 7227