



City of Tacoma

## TACOMA PUBLIC UTILITIES, UTILITY TECHNOLOGY SERVICES

**ADDENDUM NO. 1**

**DATE:** March 12, 2024

**REVISIONS TO:  
Request for Proposals Specification No. PI23-0258F  
DISTRIBUTED ANTENNA SYSTEM PROJECT**

**NOTICE TO ALL PROPOSERS:**

This addendum is issued to clarify, revise, add to or delete from, the original specification documents for the above project. This addendum, as integrated with the original specification documents, shall form the specification documents. The noted revisions shall take precedence over previously issued specification documents and shall become part of this contract.

**REVISIONS TO THE SUBMITTAL DEADLINE:**

The submittal deadline remains the same.

**REVISIONS TO THE GENERAL INFORMATION AND REQUIREMENTS:**

Selected vendor will be required to sign a non-disclosure agreement after award. A sample of the City of Tacoma Confidentiality Agreement is attached to this Addendum for your review.

**QUESTIONS AND ANSWERS:**

**Question 1: Please advise how I can obtain the floor plans for the facility(ies) that are part of this RFP for preliminary design purposes. Can we receive higher-quality floor plans?**

Answer 1: Please use the floor plans provided in the Consultant Report for bidding purposes.

**Question 2: Does the above project currently have a mobilization date, and completion date?**

Answer 2: Q1 2025 is the estimated start date and work will be completed in 2025.

**Question 3: I went over this bid you released for a DAS project and I am curious if cooperative contracts such as NASPO can be used here?**

Answer 3: Please include any and all information that may affect pricing in your proposal, including NASPO if it applies to this scope. This will be reviewed as part of the evaluation process.



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**Question 4: Is this a design build?**

Answer 4: No. This project does not fall under RCW 39.10 for Design-Build procedure. Per Appendix A, section 275319 & 275320 (1.2A), selected vendor is to provide both design and construction (build) services for the systems as described in the RFP.

**Question 5: Can we get the floor plans for the building shown on the base line testing as ECC building that only has google earth views for security reasons? In lieu of that the best we can do is Rough Order of Magnitude (ROM) based off that building's square footage.**

Answer 5: No. Detailed plans will not be released for ECC. Proposers are encouraged to base fee on the estimated square footage in the baseline testing report. Detailed information will be provided to the selected vendor.

**Question 6: Is there a pathway between the buildings to allow for fiber connectivity for both the ERRCs and Carrier system? Is there existing fiber to connect buildings? For both systems should we assume to install all the necessary fiber for DAS or is there Fiber in the building that can be used if capable for the DAS?**

Answer 6: Refer to Appendix A section 275319 (2.2.E). TPU will provide dedicated fiber connectivity between rooms within buildings and between buildings as required to support design. Selected vendor is to provide fiber connectivity requirements during design phase for TPU to provide. Selected vendor will be responsible for coax cabling installation and horizontal distribution.

**Question 7: For the ERRCS system is this system required by the local AHJ? If so, there are specific code requirements that must be met. If not, what are the specifics the City would like to see in the design, meaning do you want it built to the current ERRCS code?**

Answer 7: Yes it is required. Selected vendor will be responsible for providing a system that meets applicable building codes. However, requirement for TPU coverage goes beyond the typical ERRCS deployment. Reference criteria in Appendix A section 275320 (1.10.C).

**Question 8: Are we designing a system to cover all buildings from one common Head End or does each building require its own Head End?**

Answer 8: TPU would prefer a design that has a centralized controller, but is open to other designs.

**Question 9: All remotes in the system must have alarming capability back to the building FACP. We would need to understand how the building FACP system is set up. Based on your requirements is the expectation that the alarming is on a per building or system wide?**

Answer 9: Proposers to provide FACP connection recommendations during design phase. Selected vendor will need to coordinate with owner on details during design and implementation.



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**Question 10: For the Carrier system what is the City's expectation for carrier signal source?**

Answer 10: As per Appendix A, section 275320 (3.1.F), successful bidder is to coordinate with each wireless service provider to determine desired donor source. TPU desires to minimize space and power requirements for the carriers' donor signal source equipment.

**Question 11: Should we design an off-air solution initially and then help facilitate Carrier Coordination? If not done this way carrier coordination can take some time. If so then system thru put and performance can be limited to the donor site signal quality.**

Answer 11: Respondent to propose recommended solution. Reference Question 10 for carrier coordination requirements.

**Question 12: If the carrier system is an off-air solution, then the required downlink signal levels may not be achievable if the signal on the roof is not of sufficient level?**

Answer 12: Reference outdoor signal readings in Baseline Test Document. Respondents to propose recommended solution.

**Question 13: If off air, then the 5G services would not be supported only the traditional 700/850/PCS/AWS would be most likely supported if on the donor site**

Answer 13: Proposer to provide solution that will allow for the deployment of 5G services. TPU desires to have existing 5G services as provided by T-Mobile/Verizon/AT&T in the Seattle-Tacoma market, as well as the capability to accept planned 5G deployments.

**Question 14: Are there conversations with any or all carriers about supplying local signal source to the carrier DAS?**

Answer 14: TPU has not engaged with the carriers at this time.

**Question 15: If not, would the City like to see an alternate response to provide signal source for the 3 carriers?**

Answer 15: Respondents to propose recommended solution, and coordinate signal sources with each carrier as per Appendix A, section 275320 (3.1.F).

**Question 16: You state that the system needs to support AT&T, TMO and VZW what about Dish Networks?**

Answer 16: It does not need to support Dish networks at this time.

**Question 17: Is it a requirement to have a shared headend? While it may be relevant for both DAS types, the AHJ may require this to keep the number of donor antennas down**



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Answer 17: This is a up to the respondent.

**Question 18: Will badges be issued to workers for access the buildings? Is there a cost to contractors for badges?**

Answer 18: Badges will be issued. Some areas require an escort in addition having a badge. There is no cost to contractors for badges or escorts.

**Question 19: Will we be limited in the number of connections with fiber.**

Answer 19: TPU desires to minimize the number of fiber connections used by a solution.

**Question 20: What buildings are part of this project?**

Answer 20: Administration Building North (ABN), Administration Building South (ABS), and Energy Control Center (ECC)

**Question 21: Is ECC on this campus?**

Answer 21: Yes, ECC is on the TPU campus.

**Question 22: What's the square footage of ECC? Is it an open or close office?**

Answer 22: The total square footage is 19,295. By floor: Ground 8,095, 2nd 8,437, 3rd 2,445. The ground floor is a hallway with closed rooms along the sides. The second floor is half office space, half open space. The third floor is a hybrid open office space.

**Question 23: Can the selected vendor do another site survey after award?**

Answer 23: Yes

**Question 24: Are you looking for a repeater base?**

Answer 24: The information is in the consultant report. It is up to the proposer on how to achieve the requirements and recommendations.

**Question 25: What is the capacity of each building?**

Answer 25: Assume the following capacity for bidding purposes:  
ABN: 100 staff per floor and up to 200 for the auditorium  
ABS: 100 staff per floor  
ECC: 20 staff per floor  
Note that only security and maintenance personnel utilize 800 MHz radios on a daily basis.

**Question 26: How many channels?**

Answer 26: Assume a total of 25 800 MHz channels.



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**Question 27: Does everything have to be run through a conduit?**

Answer 27: There is no TPU requirement for it. We have pathways and cable runs through drop ceilings in the buildings.

**Question 28: Do you have a phone contract with any of the cellular providers?**

Answer 28: No

**Question 29: Are there any repeaters currently installed?**

Answer 29: No, there is no existing solution.

**Question 30: Do we have cable trays?**

Answer 30: We have cable trays that can be used if needed.

**Question 31: Is there a riser room?**

Answer 31: No. We have pathways between floors but not always through vertical risers.

**Question 32: Is there access to the elevator shaft?**

Answer 32: No.

**Question 33: Where do you want to centralize equipment?**

Answer 33: 4th floor comm room in ABN

**Question 34: How will supplier have power everywhere?**

Answer 34: It will depend on the technologies and locations proposed. TPU will provide power receptacles in telco rooms, IT rooms, data rooms, as required. If power is required outside of these rooms, then contractor is responsible for providing.

**Question 35: Do you have raised flooring?**

Answer 35: Nothing will run through the flooring. It should go through the dropped ceiling.

**Question 36: How do I get on the vendor list?**

Answer 36: Use this link: [Register for the Bid Holders List](#)

**Question 37: Can we get some photos of the 4th floor comm room?**

Answer 37: See photos at end of Addendum 1.

**Question 38: Can we use rack space? How much?**

Answer 38: We have some rack space. TPU desires to minimize the amount of rack space needed.



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**Question 39: Can we use the tower on the roof? Can we use existing mounts?**

Answer 39: Yes. We prefer you use the existing mounts.

**Question 40: Where's TPU's and City of Tacoma's LMR site?**

Answer 40: It's 1/2 mile away at 2501 S. 35th Street

**Question 41: In ABS are the stairwells sheetrocked?**

Answer 41: Yes

**Question 42: Do the two skybridges between ABN and ABS need to be covered?**

Answer 42: Yes. These areas are included in the Baseline Signal Testing Report.

**Question 43: Are there any racks in ECC?**

Answer 43: No. Space is limited.

**Question 44: Is there a project value that is triggering the LEAP requirement? If yes, what is it?**

Answer 44: Per Tacoma Municipal Code 1.90.040 a. The thresholds for this section shall be \$250,000.00 for Civil Projects and \$750,000.00 for Building Projects. (See Appendix D of the specification)

**Question 45: Please confirm the NICET requirement. Our understanding is that this code has not been adopted by the City of Tacoma yet. If this is a requirement, will a NICET 2 license suffice**

Answer 45: TPU desires to have certified designer and installers. We strongly recommend NICET, however alternatives may be considered such as GROL, ETA, and certification from the proposed equipment manufacturer.

**Question 46: We understand this is an at-will system. Please confirm the 2-hour rating criteria does not apply**

Answer 46: System is considered "voluntary" at this point (i.e.- there is no current requirement for TPU to install an ERRCS) TPU has been coordinating with Tacoma Fire department regarding fire rating. Assume no fire rating requirement for bidding purposes.

**Question 47: Are we enhancing only Tacoma system or Pierce County as well?**

Answer 47: TPU 800 MHz, and City of Tacoma 800 MHz system are required. Refer to Baseline Signal Testing Report. .

**Question 48: What repeaters are they using? Digital/analog? What is their repeaters/antennas/duplexers/combiners configuration (one antenna per**



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**repeater – duplexer, two antennas (UL and DL) per repeater, one antenna for all repeaters, 2 antennas for all repeaters – for UL and DL)?**

Answer 48: Question is confusing. Refer to Baseline Signal Testing Report. With respect to TPU and City of Tacoma radio systems, they are both Motorola P25 Phase I and Phase II TDMA systems. Details will be provided to the winning bidder as required.

**Question 49: What building and room is designated for the Head-End? Will vendor need to provide new rack(s) for equipment?**

Answer 49: Preferred location for head end equipment is ABN 4<sup>th</sup> floor comm room. Yes, contractor to provide all necessary mounting hardware including racks. TPU will provide and install wall-mounted plywood for locations where wall-mounted equipment is required.

**Question 50: What are the types of existing fiber connectors used at the FTPs**

Answer 50: Connector details will be determined during the detailed design phase.

**Question 51: Can we self perform the installation or does the city of Tacoma require a specific approved contractor?**

Answer 51: Per specification, expectation is that winning bidder will perform the design and installation.

**Question 52: Are any of the buildings historical or will there be any special installation requirements needed to include for this project?**

Answer 52: Assume no historical building or special installation requirements.

**Question 53: Are there floor plans/CDs available for each building that includes the fire rating**

Answer 53: Assume no fire rating requirement. For bidding purposes, utilize existing drawings.

**Question 54: Are there currently any existing cellular or public safety systems in any of the buildings?**

Answer 54: No.

**Question 55: Will any power requirements be installed by the city's preferred electrical contractor**

Answer 55: TPU will provide power receptacles in telco rooms, IT rooms, data rooms, as required. If power is required outside of these rooms, then contractor is responsible for providing.

**Question 56: Are normal business hours allowed for installation? Is that uniform for all buildings?**



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Answer 56: Working hours are detailed in the specification. Installation will occur during normal working hours.

**Question 57: Is there any preference for DAS equipment manufacturer?**

Answer 57: No. Contractor to proposed best solution regardless of vendor.

**Question 58: Is this a prevailing wage project?**

Answer 58: Yes, prevailing wage applies.

**Question 59: All backbone cabling including fiber must be protected by a 2-hour rated path. This includes any vertical path to the roof for donor antennas, and any fiber from the main unit in a head end to any remote unit locations in other buildings. Are 2 hour rated rooms or pathway going to be required?**

Answer 59: Assume there is no fire code requirements for this proposal.

**Question 60: Does each building have its own Life Safety Panel?**

Answer 60: ABN, ABS, ECC each have their own Fire Alarm Control Panel (FACP).

**Question 61: Where are the fire control centers located?**

Answer 61: On the ground floor of each building.

**Question 62: We need to understand for each of the required services on the ERRCS system where the Donor site is located to see if separate BDAs are need for each service**

Answer 62: Assume a single 700/800 MHz BDA with a minimum of -85 dBm on roof. City of Tacoma 800 MHz and TPU 800 MHz donor sites are co-located. There is no need to consider Pierce County 700 MHz separately.

**Question 63: The requirement to support 700 MHz Band 14 First Net is on both the ERRCS and Carrier systems. Since First Net is controlled by AT&T we have historically only seen it supported on the carrier DAS, can you confirm**

Answer 63: Confirmed. Understand that the service will be deployed on the AT&T side. Band 14 capability should be available on both systems for future deployment.

**Question 64: We need clarification on future support of the CBRS spectrum band. The CBRS band is meant to support a private wireless network typically not on a DAS system. There are two levels of CBRS licenses, one is the PAL which is priority access and these licenses were awarded thru a competitive bid. The second is the GAA or General Authorized Access. This spectrum is meant for general access for users to establish their own private wireless system. The carriers have spectrum in the same band commonly referred to a C Band. Are we to support CBRS and if so that is a**





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**standalone system. Or is the intention to be able to support C Band in the future?**

**If the intent is to support C Band then please note and understand designing a DAS system to support C band will increase the cost of the system in the lower bands due to the density needed for C Band. In most cases we design for the lower bands then if C Band is added it's done on a best-case scenario.**

Answer 64: TPU desires to have 5G services deployed on the DAS for mobile services currently deployed by wireless service providers in the Seattle-Tacoma market. Design must take into account the frequency ranges and services that will be deployed by carriers at initial turn up as well as likely future deployments. Proposers will need to confirm with service providers during the design stage. Respondents should plan the system design according to the commonly deployed bands as well as known designated bands likely to be deployed in the near future. Proposers are encouraged to provide details on recommended bands and services in the proposal.

**4th floor comm room photos:**



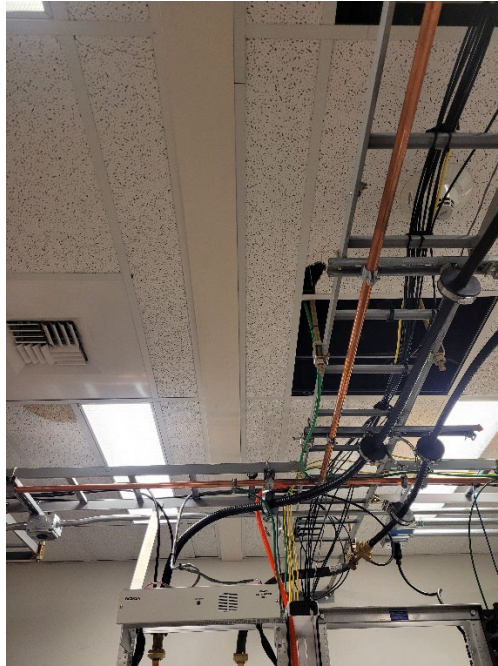
**Proposed location for wall-mounted equipment**



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**Cable Trays**



**Cable Trays**



**Coax path to roof**



**Proposed equipment rack location**

**CITY OF TACOMA**  
**CONFIDENTIALITY AGREEMENT**

This Confidentiality and Non-Disclosure Agreement (this "Agreement") is entered into as of this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ (the "Effective Date"), by and between **City of Tacoma (CITY)**, and NAME AND BUSINESS ENTITY STATUS OF OTHER PARTY HERE, ("Recipient").

**Whereas**, CITY and Recipient anticipate exchanging information in connection with the interview stage of the selection process specified in City of Tacoma's SAP S4 HANA RISE and Cloud Service SI RFP ("Project") and

**Whereas**, CITY is only willing to disclose and release such information to Recipient on a confidential basis and only in accordance with the terms and conditions of this Agreement.

**NOW, THEREFORE**, in consideration of the mutual benefits to be derived hereunder, the sufficiency of which is hereby acknowledged, the Parties agree as follows:

**1. "Confidential Information".** The Parties expressly acknowledge and agree that to accomplish the objectives of the Project, information of a confidential, proprietary and/or systems security sensitive nature may be disclosed between them. This information specifically includes DESCRIBE all data or information to be provided to Recipient in connection with the Project.... For purposes of this Agreement, such information shall be deemed "**Confidential Information**" and shall include (a) in the case of written and/or electronic information, all data, documents, records and materials marked or otherwise identified as "confidential" or "proprietary," (b) in the case of oral disclosures, information identified at the time of disclosure as confidential and/or proprietary and confirmed in writing as such by CITY within ten (10) calendar days of the disclosure to Recipient, and/or (c) that should reasonably have been understood by the Recipient because of legends or other markings (e.g. marked confidential), the circumstances of disclosure, or the nature of the information itself, to be proprietary and confidential to CITY.

"Confidential Information" shall not include information that: (i) was known to the Recipient without breach of any contractual, fiduciary or other obligations prior to disclosure by CITY; (ii) is part of the public domain on the date of disclosure; (iii) can be demonstrated to have been independently developed by Recipient without reference to the Confidential Information, or (iv) is required to be disclosed by operation of law, or pursuant to order of a governmental agency with jurisdiction.

**2. Permissible Use of Confidential Information.** Recipient expressly agrees to:

A. Use the Confidential Information for the **sole** purpose of presenting the scope of work and accomplishing the objectives of the Project and Discloser's authorized activities in connection therewith;

B. Restrict access to the Confidential Information solely to Recipient's managers, employees, and sub-consultants with an express need to know; AND

C. Hold in confidence and protect the Confidential Information from disclosure to anyone not authorized to receive, view or use said information, which duty shall include taking reasonable precautions, but in no event less than due care, to prevent disclosure,

publication, reproduction or dissemination of the Confidential Information to anyone not authorized to receive or view same.

3. Prohibited Use. Recipient shall **not** use any Confidential Information disclosed by CITY, whether such disclosure is intentional or unintentional, for:

- A. Its own or any third party's commercial advantage or benefit without the prior written approval of an authorized CITY representative in each instance;
- B. For any marketing purposes not expressly contemplated by the Project; and/or
- C. In violation of commercial and/or ethical standards applicable to Recipient's industry.

4. Term: This Agreement terminates the earlier of three (3) years after the Effective Date or termination by CITY upon thirty (30) days' written notice thereof. The obligations of Recipient with respect to Confidential Information received prior to termination of this Agreement, as well as CITY's remedies hereunder, will survive said termination for a period of twenty-four (24) months.

5. No Ownership or License. Disclosure of Confidential Information by CITY hereunder shall not grant the Recipient any right or license to use the Confidential Information except as expressly set forth herein. Upon request, Recipient shall return all Confidential Information, including all copies thereof in whatever form, to CITY within ten (10) days following receipt of such request or shall destroy such information and copies and promptly provide CITY with written certification of such destruction.

6. Breach and Remedies. The Parties agree that the Confidential Information is a unique and valuable asset of CITY and that CITY will be irreparably damaged if Recipient breaches the terms of this Agreement. Without limiting CITY's right to damages for breach of this Agreement, the Parties further agree that in the event of any breach or threatened breach of this Agreement, CITY shall be entitled (in addition to any and all other remedies) to injunctive relief, specific performance and other equitable remedies without proof of monetary damages or the inadequacy of other remedies, and without necessity of posting a bond or other security.

7. No commitment for future business relationship(s) or contract(s). Nothing in this Agreement nor the furnishing of Confidential Information pursuant hereto shall be construed in any way as an offer or as obligating either Party to enter into any further agreement, negotiation or transaction with the other or to refrain from entering into an agreement, negotiation or transaction with any other person, including without limitation any person engaged in the same or similar line of business as the other Party hereto.

8. No Warranties. The Parties agree that no warranties of any kind are given with respect to the Confidential Information disclosed or exchanged hereunder.

9. Waiver. Failure by CITY to enforce or exercise any provision, right or option contained in this Agreement will not be construed as a present or future waiver of such provision, right or option.

10. Governing Law and Venue. This Agreement shall be governed by and construed under the laws of the State of Washington. Each Party hereby irrevocably consents to the jurisdiction

and venue of any state or federal court located in Pierce County, Washington, with regard to any legal or equitable action or proceeding relating to this Agreement.

**11. Integration and Severability.** This Agreement represents the entire understanding between the Parties regarding the subject matter hereof, and the terms and conditions of this Agreement supersede the terms of any prior agreements or understandings, express or implied, written or oral. The provisions of this Agreement are to be considered as severable, and in the event that any provision is held to be invalid or unenforceable, the Parties intend that the remaining provisions will remain in full force and effect to the extent possible and in keeping with the intent of the Parties.

**IN WITNESS WHEREOF**, the Parties accept and agree to the above terms and conditions and by their signature below represent and warrant their authority to execute this Agreement.

Recipient

City of Tacoma

**NAME OF OTHER PARTY**

By: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name:

Printed Name:

\_\_\_\_\_

\_\_\_\_\_

Title:

Title: \_\_\_\_\_

\_\_\_\_\_

Approved as to Form:

\_\_\_\_\_  
Deputy City Attorney

P123-0258F

TPU Distributed Antenna System RFP Pre-Proposal Meeting

Sign In Sheet - February 21, 2024 - Please Present Photo ID at Time of Sign In  
(Please write legibly)

Name	Organization	Email Address	Phone Number
Will Brown	CTS	wbrown@cts1.com	972.971.0136
Arlo Ranco	CTS	pranco@cts1.com	508.207.2087
Scott Jeffcoat	TELECOM NETWORKS	STEFFCOAT@TELECOMNETWORKS.COM	469.514.8040
Chad Viren	Legacy	Chad.Viren@legacynetworks.com	360.489.4801
Dustin Duke	Structured Comm.	dustin.duke@structured.com	425.321.5343
Stacia Connelly	Structured Comm	Stonnelly@structured.com	503.505.0102
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Miranda Krater	Holmes Electric	miranda.krater@hrcan.com	360.786.3326



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NOTE: Acknowledge receipt of this addendum by initialing the corresponding space as indicated on the signature page. Vendors who have already submitted their bid/proposal may contact the Purchasing Division at 253-502-8468 and request return of their bid/proposal for acknowledgment and re-submittal. Or, a letter acknowledging receipt of this addendum may be submitted in an envelope marked Request for Proposals Specification No. PI23-0258F Addendum No. 1. The City reserves the right to reject any and all bids, including, in certain circumstances, for failure to appropriately acknowledge this addendum.

cc: John Zwosta / Utility Technology Services (UTS)