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## Seattle Center Site Walks – Questions/Answers (Combined)

### Conduit, Fiber, Power

**1. Q: What is existing access to conduit, fiber, and power?**

**A:** In their Proposals, all Request for Proposal (RFP) Respondents should assume that the network will be built with independent, not Seattle Center or City-owned, systems (power, conduit, fiber). The selected Wireless Infrastructure Provider (WIP) may have some opportunities to collaborate on use of any extra capacity Seattle Center infrastructure; however, that will be condition-specific reviews with successful WIP.

**2. Q: Is there conduit to poles?**

**A:** Maybe in some spots, but very little.

**3. Q: Is a central or distributed power supply possible? How can we learn if power is available where we would need it?**

**A:** Seattle City Light (SCL) security restricts the release of broad information on their power supply/transformers. Getting information on available power will require location requests directly to SCL. SCL will want to know where you want to get power from/to and then they will tell you what is available.

**4. Q: What is the current state of power access to light poles?**

**A:** For light poles, there are power options around International Fountain and Fisher Lawns. However, small conduit runs could be problematic; there is a 1" electrical conduit around the fountain, but no comms space. A fountain switch feeds the poles. On other areas of campus, light poles are mostly connected with 1/2" galvanized (very old) conduit, and there is no additional power at the poles. Respondents should not expect any additional raceway space, but rather should assume a new raceway will be needed.

**5. Q: Will power be coming off panels or transformers at edge of campus? What is available capacity for panels and transformers and how much can be pulled from that?**

**A:** In their Proposals, Respondents should assume that they will need to make their own power paths. The selected WIP will need to work directly with SCL to determine power paths. SCL will want to know where you want to get power from/to and then they will tell you what is available.

### Headend

**6. Q: Possible sites for headend? Are ground leases available?**

**A:** Seattle Center is looking for creativity in Proposals. Some possibilities for headend locations discussed on the site walks included 5<sup>th</sup> Avenue North Garage, KOMO Plaza, and Armory. The selected Wireless Infrastructure Provider (WIP) may have some opportunities for ground leases at Seattle Center; however, that will be based on condition-specific reviews and contingent on negotiations for such leases with successful WIP.

### Main Distribution Frame (MDF)

**7. Q: Where are the current Main Distribution Frame (MDF) rooms on campus?**

**A:** Basement of Armory is the location of main campus MDF. Also, an Independent Distribution Frame (IDF) room is under McCaw Hall.

### Poles

**8. Q: What are the different pole types on campus? Is there mix of ownership of poles?**

**A:** All poles are owned by Seattle Center. Campus aesthetic is of supreme importance. Currently, most light heads and pole colors match, but some variations exist.

**9. Q: Is the expectation to replace existing light poles or for WIP to place/own new ones?**

**A:** Seattle Center expects the WIP to try to work with existing pole locations and minimize placement of new pole locations. Seattle Center expects to maintain pole ownership.

**10. Q: Please provide the manufacturer and spec of campus poles. Dimensions are key.**

**A:** Please visit RFP web page, <https://seattlecenter.com/wireless-rfp>, for current campus light poles and fixture documentation.

**11. Q: Are there photos of new poles aesthetics?**

**A:** Drawings and specifications of current light poles and fixtures are available on the RFP web page: <https://seattlecenter.com/wireless-rfp>.

### Buildings

**12. Q: Does Seattle Center have design preference: use of buildings vs. poles?**

**A:** Seattle Center does not offer a preference. Seattle Center's purpose for the RFP is to see creative approaches in Proposals. Each approach will have different challenges. For example, buildings may be landmarked, and pole locations may have more fiber/power challenges.

**13. Q: Are there any rooftop locations available for deployments?**

**A:** This has to be considered on a case-by-case basis, depending on building particulars. (See also, questions in the “Existing Temporary Carrier Facilities” section.)

**14. Q: Is power available from buildings if we want to deploy on rooftops?**

**A:** That will depend on each building’s available capacity. May also have to negotiate with building tenants for rooftop usage.

**15. Q: Is the North Courtyard to be included in outdoor coverage areas?**

**A:** Yes. The buildings/north courtyard outdoor space off Climate Pledge Arena is under Seattle Center control.

**Indoor Coverage**

**16. Q: Can Seattle Center specify in list exactly where indoor coverage is required?**

**A:** Yes, please reference RFP document, Section 3, Page 7. Per RFP, “Coverage needs to extend to the entirety of the Seattle Center-owned outdoor property (40 acres) as well as the inside of select Seattle Center-owned venues: Armory (Atrium and Loft spaces), Fisher Pavilion, Exhibition Hall, Mercer St. Garage (entry levels), and 5<sup>th</sup> Avenue North Garage (entry levels).”

**17. Q: Please provide floor plans for Fisher Pavilion, Armory/Loft, Exhibition Hall.**

**A:** Floor plans have been posted to the RFP web page: <https://seattlecenter.com/wireless-rfp>.

**18. Q: What areas are the specific parts of Armory for coverage?**

**A:** Armory Atrium and Lofts require coverage. For internal service to Armory Lofts, note that north end has 2 feet thick wall that separates back Loft area from front Armory area. Inside Armory Loft 3rd floor there is drop ceiling but there is limited space above it; running lines north/south through ceiling access will be better than east/west runs.

**19. Q: Does Seattle Center expect coverage in Armory Loft stairwells and back of house?**

**A:** No

**20. Q: Coverage needed in Exhibition Hall? What is capacity of Exhibition Hall?**

**A:** Coverage is expected for the main event space and lobby. Exhibition Hall has capacity for 3,000-4,000 people.

**21. Q: Are there indoor coverage requirements for leased buildings? Or is 'best effort' ok?**

**A:** As noted in the RFP, Seattle Center is looking for coverage for 40 acres of outdoor campus. The RFP also specifies that indoor coverage of leased spaces is not a requirement. Please reference RFP document, Section 3, Page 7. Per RFP, "Coverage needs to extend to the entirety of the Seattle Center-owned outdoor property (40 acres) as well as the inside of select Seattle Center-owned venues: Armory (Atrium and Loft spaces), Fisher Pavilion, Exhibition Hall, Mercer St. Garage (entry levels), and 5<sup>th</sup> Avenue North Garage (entry levels)."

**Existing Temporary Carrier Facilities**

**22. Q: What is the transition plan for the temporary wireless sites deployed by carriers to provide external campus coverage?**

**A:** There are five existing temporary locations that are covered by annual license agreements with AT&T, T-Mobile, and Verizon. Four are rooftop deployments and the fifth is on the top floor of the Mercer St. Garage. The expectation is that all will be replaced with the new system. It is important to ensure a smooth transition for the coverage provided by the temporary sites to the new system and consistent service to campus visitors. Note that Seattle Center did not require the same aesthetic standards for current facilities because they are temporary; Seattle Center will expect more stealth/better visual integration for the permanent system.

**23. Q: Can Seattle Center share the current revenue amounts received on the temp sites?**

**A:** Currently, Seattle Center receives \$270,000 annually; rent for each of the three temporary licenses (AT&T, T-Mobile, and Verizon) is \$90,000 per year. These are overhead (antennas on buildings) and represent only a portion of the resources that Seattle Center expects the WIP to use for the new system.

**Memorial Stadium**

**24. Q: What are plans for Memorial Stadium? Does Memorial Stadium coverage need to be considered?**

**A:** Coverage for Memorial Stadium will not be included for this phase of Seattle Center's wireless planning. Seattle Public Schools (SPS) owns the Stadium property and has passed a levy to renovate the site. SPS planning is expected to happen over the next 3-4 yrs. Wireless coverage would be considered once the stadium renovation project is determined/defined. So, it is possible that the successful WIP might be able to extend its network to this area in the future.

**Misc**

**25. Q: What permits will be needed to work on campus?**

**A:** Building permits are required from Seattle Department of Construction & Inspections (SDCI) and the WIP will be responsible for any other specialty permits (e.g., electrical). Vacated streets on campus are under control and management of Seattle Center. Work in vacated streets on campus *do not* require Street Use permits from Seattle Department of Transportation (SDOT).

**26. Q: Would lead issues in the Armory restrict headend construction there?**

**A:** Lead abatement was done in the Armory 4-5 years ago; however, there might be locations that may still need lead paint/asbestos abatement. Use of the Armory would require an environmental issue study by the chosen WIP.

**27. Q: Boring in soft scape vs. trenching. What's possible?**

**A:** There are trenching limitations due to an existing "spider web" of infrastructure underground. There is existing chill water and stream ducts served from the northern end of campus. The infrastructure is buried very shallow and is old; extreme care would need to be taken during construction. There is also a lot of SCL duct bank in the concrete which creates boring challenges. As noted above, general/broad SCL maps are unavailable due to security restrictions; WIP will have to request specific locates from SCL.

**28. Q: What are the campus trenching standards?**

**A:** Please reference "Exhibit C - Asphaltic Concrete Paving Site Standard" on the RFP web page, <https://seattlecenter.com/wireless-rfp>, for Seattle Center Site Standards.

**29. Q: Are Vac trucks allowed?**

**A:** Yes, except during events. Nighttime use is ok with Seattle Center approval and coordination.

**30. Q: Who provides Internet services to each building?**

**A:** Seattle Center has Right of Entry agreements for some buildings, but Internet Service Provider (ISP) agreements may be directly with the tenants and property owners.