Meeting Agenda

Hearing Examiner

City Hall
601 4th Avenue E
Olympia, WA 98501

Contact Tim Smith
360.570.3915

Monday, February 6, 2023 **6:30 PM** **Hybrid - Council Chambers and Online**

Special Meeting
Meeting link:
https://us02web.zoom.us/webinar/register/WN_M78-c4JoSce-7F1qzgoS_Q

1. AGENDA REVIEW

2. PUBLIC HEARING

2.A 23-0104 PUBLIC HEARING - Case: 22-5612, Mission Creek Wireless CUP

Attachments:
Attachment 1 - Staff Report
Attachment 2 - Publication Notice - The Olympian
Attachment 3 - Owner Authorization Letter
Attachment 4 - Project Applications
Attachment 5 - Notice of Application
Attachment 6 - SEPA Determination
Attachment 7 - Plan Set dated November 7, 2022
Attachment 8 - Noise Report
Attachment 9 - RF Justification Report
Attachment 10 - CUP Narrative
Attachment 11 - OMC Chapter 18.44 WCF Standards
Attachment 12 - RF Safety Compliance Statement
attachment 13 - Non-Ionizing Electromagnetic Exposure Analysis (NIER) Report
Attachment 14 - Public Comments

4. ADJOURNMENT

The City of Olympia is committed to the non-discriminatory treatment of all persons in employment and the delivery of services and resources. If you require accommodation for your attendance at the meeting, please contact Community Planning & Development by 10:00 a.m., 48 hours in advance of the meeting or earlier, if possible; phone: 360.753.8314; e-mail cpdinfo@ci.olympia.wa.us. For hearing impaired, please contact us by dialing the Washington State Relay Service at 7-1-1 or 1.800.833.6384.

City Hall
601 4th Avenue E.
Olympia, WA 98501
360-753-8244

Hearing Examiner

PUBLIC HEARING - Case: 22-5612, Mission Creek Wireless CUP

Agenda Date: 2/6/2023
Agenda Item Number: 2.A
File Number:23-0104

Type: decision **Version:** 1 **Status:** In Committee

Title
PUBLIC HEARING - Case: 22-5612, Mission Creek Wireless CUP

Report
Applicant:
Phillip Kitzes, J5 Infrastructure Partners, 23035 SE 263rd St, Maple Valley WA 98038

Representative(s):
Phillip Kitzes, J5 Infrastructure Partners, 23035 SE 263rd St, Maple Valley WA 98038

Staff Contact:
Lydia Moorehead, Associate Planner, 360.570.3746

Type of Action Request:
The applicant is seeking a Conditional Use Permit to locate and construct a new wireless communications facility that includes a 120-foot monopine, emergency generator and associated ground equipment to meet wireless infill coverage needs. The project area is 675 square feet in size and is located within an existing parking lot.

Project Location:
1818 4th Avenue East

See Attachment 1 for more details

CITY OF OLYMPIA HEARING EXAMINER

STAFF REPORT

January 17, 2023

Project Name /File No.:	Mission Creek Wireless CUP 22-5612
Applicant:	Phillip Kitzes, J5 Infrastructure Partners
Requested Action:	The applicant is seeking a Conditional Use Permit to locate and construct a new wireless communications facility that includes a 120-foot monopine, emergency generator and associated ground equipment to meet wireless infill coverage needs. The project area is 675 square feet in size and is located within an existing parking lot.
Project Location:	1818 4th Avenue East
Zone District:	High Density Corridor 2 (HDC-2)
Comprehensive Plan Designation:	Urban Corridor (UC)
Scenic Vista:	None
SEPA Determination:	A Determination of Non-significance was issued on January 12, 2023. The optional DNS process was used which combines the SEPA comment period with the Notice of Application comment period, WAC 197-11-355. The comment period ended on November 9, 2022 and the appeal period expires on February 2, 2023.
Public Notification:	Public notifications for this project is in conformance with 18.78.020. Particularly, public notification for this hearing was mailed to property owners and residents within 300 feet of the subject property, parties of record and recognized neighborhood associations on January 12, 2023; posted on-site; and published in *The Olympian* on January 27, 2023 (Attachment 2).
Staff Recommendation:	The Site Plan Review Committee recommends approval of the Conditional Use Permit subject to conditions.
Staff Contact:	Lydia Moorehead, Associate Planner 360.570.3746 lmoorehe@ci.olympia.wa.us

I. BACKGROUND INFORMATION

A. Project Context/Existing Site Conditions

The site is located 1818 4th Avenue East. The project site is made up of four parcels which are developed with an 8,200 square foot building currently used by the Elks Lodge and associated parking and landscaping. The owner has authorized the applicant to file applications on their behalf (Attachment 3).

The property is located in the High Density Corridor 2 (HDC-2) zoning district. The future Land Use Map designates the property as Urban Corridor (UC).

The land uses surrounding the project site are as follows:

- *North:* commercial/office/residential
- *East:* commercial
- *South:* office/residential
- *West:* office

B. Project Description

The applicant proposes to lease 675 square feet of the parcel to construct a new freestanding wireless communications tower that will be 120 feet in height. The tower will be stealth and designed to represent a pine tree in order to meet concealment requirements. The project will have an associated equipment compound that will be fenced to provide screening from the public view.

C. City Review Process

Application Submittal: The Conditional Use Permit application and an Environmental Checklist (Attachment 4) were submitted on September 9, 2022. Prior to submitting the application, the applicant had a Presubmission Conference with the Site Plan Review Committee in July 2022.

Notice of Application/Anticipated SEPA Determination: A Notice of Application and an Anticipated SEPA Determination (Attachment 5) with information about how to comment on the project was mailed to property owners and residents within 300 feet of the project site on October 26, 2022. The subject site was posted with a public notice sign.

Project Information Meeting: City staff and the applicant co-hosted a project information meeting on November 3, 2022. The purpose of this meeting was to provide business and property owners, neighborhood associations and the general public an opportunity to get detailed information about the proposal, ask questions and raise concerns. There were no attendees at this meeting besides city staff and the applicant.

SEPA Determination: The City issued a Determination of Non-significance on January 12, 2023 (Attachment 6) with an appeal period deadline of February 2, 2023. As of this report's date, no appeal has been received.

Site Plan Review Committee Review: The Site Plan Review Committee (SPRC) reviewed the plan set dated November 7, 2022 (Attachment 7) and other associated documents and reports for compliance with applicable codes and standards. The project was taken to the Site Plan Review Committee for recommendation on January 4, 2023. The Committee recommended approval of the project subject to conditions.

II. POLICY AND REGULATORY FRAMEWORK

The proposal has been reviewed for compliance with City plans and regulations. Per Olympia Municipal Code 18.82, Conditional Use Permits are within the jurisdiction of the Hearing Examiner.

This report addresses those plan and code sections that are applicable and addresses compliance in relation to the following:

- Comprehensive Plan Goals and Policies;
- Title 16, Chapter 16.60 Tree, Soil and Native Vegetation Protection and Replacement
- Title 18, Unified Development Code, in particular standards for development, wireless communications facilities, landscaping, conditional use permit, property protection standards, design review, cultural resource protection, hearing examiner authority; and
- Engineering Design and Development Standards.

A. Comprehensive Plan

The subject property is designated as *Urban Corridor (UC)* on the Future Land Use Map. Specific goals and supporting policies from relevant chapters are noted below:

Utilities

GU17: Private utilities will be located in the same area

- **Policy 17.1** Promote the co-location of new utility distribution and communication facilities when doing so is consistent with utility industry practices and national electrical and other codes.

GU18: Adverse impacts of above-ground utility facilities such as sub stations and cellular towers on surrounding land uses are minimized

- **PU18.2** Ensure that the City's zoning code includes standards that ensure that new private utility facilities are coordinated and integrated with surrounding land uses, so they are reasonably compatible with the natural and built environment. These regulatory standards should also support facility design which minimizes the visual intrusion of facilities in all areas.

Staff Analysis: The proposed project complies with the applicable goals and policies of the Comprehensive Plan by being designed with the capability for co-locations of additional antenna arrays. This will limit the need for future antenna structures in the area. The tower's design as a tree will conceal its appearance to minimize visual impacts. Ground equipment will be fenced and screened from view.

B. Tree, Soil, and Native Vegetation Protection and Replacement, OMC 16.60

The project is subject to standards in OMC 18.60 regarding tree densities and tree protection during construction.

Staff Analysis: The City's urban forester reviewed the proposal and determined that one tree will be required in the adjacent planter island in order to meet tree density requirements for existing developed sites. As conditioned, the project will comply with OMC 18.60.

C. High Density Corridor 2 (HDC-2) Districts 18.06

The standards for development in the HDC-2 zoning district include a 0-10 foot minimum front yard setback, 10 foot rear yard and there is no minimum setback on a side yard. Maximum building height allowed is 60 feet and the maximum building coverage is 70 percent, maximum impervious surface coverage of 85 percent and maximum hard surface coverage is 100 percent of the lot.

Staff Analysis: The project proposal meets the underlying development standards except that the tower reaches a height of 120 feet which exceeds the height limit of the HDC-2 district. There are additional height allowances for wireless communication facilities provided in OMC 18.44.100.C.2 which are explained further in this report. All other development standards have been met.

D. Landscaping, OMC 18.36

<u>18.36.080 Landscaping Plan Requirements.</u>
Landscaping Plans shall be submitted for review with a land use application and meet all requirements of 18.36.080.A.2.

Staff Analysis: A conceptual landscaping plan (page L-1 of Attachment 7) was submitted with the land use application. The landscaping plan does not meet all code requirements. Trees, shrubs and groundcover are required in the adjacent parking island. As conditioned, the Landscaping Plan will comply with OMC Chapter 18.36.

<u>18.36.190 Landscaping Requirements for Antennas and Wireless Communication facilities.</u> The project is subject to meeting the standards in this section. Standards include providing a Type I Solid Screen a minimum of 5 feet around the equipment compound that is visible from the street, abutting properties and incompatible uses.

Staff Analysis: The landscaping plan does not show a solid (Type I) landscaping screen of 5 feet in width around the entire equipment compound; however, a solid wood fence is proposed around the compound in addition to a re-landscaped parking island to the east of the compound. As conditioned, the Landscaping Plan will comply with OMC Chapter 18.36.

18.36.180.C.2-3 Parking Lot Landscaping and Screening. The proposal includes replanting the adjacent parking island.

Staff Analysis: To meet the landscaping code for parking islands the landscape plan will need to include the planting of two trees, shrubs and groundcover. As conditioned, the Landscape Plan will comply with OMC Chapter 18.36.

E. Property Development and Protection Standards, OMC 18.40

18.40.080.B Protection Standards, Noise

There are maximum noise levels allowed as measured at the property line. It is the responsibility of the operator or proprietor to provide reasonable evidence that demonstrates compliance with the permitted sound levels.

Staff Analysis: The applicant provided a Noise Report by SSA Acoustics (Attachment 8) that conducted a noise analysis of the planned WCF and the equipment compound at the proposed location. The report concludes that the facility will comply with daytime and nighttime sound limits at all adjacent property boundaries. The city accepts this report and its conclusions that it will comply with permitted sound levels.

F. Antennas and Wireless Communication Facilities, OMC 18.44

Siting Hierarchy 18.44.080:

Any new siting of a wireless communications facility (WCF) shall be in accordance with the following siting alternatives hierarchy for a Concealed Freestanding WCF: On City-owned property or rights-of-way of the City so designated as City Property; on other publicly owned property or ROW; on privately-owned property. The applicant must file relevant information with the application.

Staff Analysis: The project proposal locates the WCF on privately owned property which is the lowest ranked hierarchy. The applicant submitted relevant information within an RF Justification Report by a radio frequency engineer (Attachment 9) as well as an alternative site analysis within the CUP Narrative (Attachment 10) demonstrating that despite diligent efforts to adhere to the established hierarchy within the geographic search area, higher ranker options were not available for use, technically feasible or practical.

Permitted Wireless Communications Facilities by Zoning District, OMC 18.44.090, Table 44.01. The table provides guidance as to what types of wireless communication facilities are allowed in the variety of zoning districts in the city.

Staff Analysis: Concealed freestanding wireless communication facilities are allowed with a conditional use permit in the HDC-2 zoning district.

Development Standards –OMC 18.44.100

The proposal must comply with the general standards for WCF's, standards for freestanding wireless communications and specific standards for concealed freestanding facilities. (Attachment 11)

18.44.100.A General

The general standards for wireless communications include screening of equipment compounds from the public view, use of a sight-obscuring fencing, additional requirements for facilities within 300 feet of a neighborhood zone, landscaping required per OMC 18.36, signs, lighting, if required per the Federal Aviation Administration, security lighting and abandonment. The standards also require that the applicant of a proposed facility certify there is compliance with federal standards for interference protection and compliance with the American National Standards Institute standards as adopted by the Federal Communications Commission (FCC).

Staff Analysis: The Landscaping Plan provided shows a 6-foot-high solid wood fencing with landscaping around the compound. This will provide adequate screening of the WCF compound. It was determined that the project site is not located within 300 feet of a neighborhood zone or historic district nor is the property registered as historic. The applicant provided a Radio Frequency RF Safety Compliance Statement (part of Attachment 12) and a Non-Ionizing Electromagnetic Exposure Analysis (NIER) (Attachment 13) that certifies that the interference protections standards and the ANSI standards are met. As conditioned, the project will comply with OMC 18.44.100.A.

18.44.100.C.1 Freestanding Wireless Communications Facilities

The general development standards for freestanding WCFs require the applicant to demonstrate the following:

- A determination of need to demonstrate that there are no existing structures that can accommodate the proposed use;
- Designed for concealed collocation: The facility is designed for maximum collocation installations;
- Designed for non-concealed collocation: For WCFs between the height of eight-one (81) to one hundred twenty (120) feet that the facility be engineered and constructed to accommodate no less than four (4) antenna arrays;
- The facility is designed to minimize adverse effects including visual impacts and match adjacent structures;
- Grading will be minimized and limited to the area necessary for the new WCF and
- Safety for all support structures be certified by a Registered State of Washington Professional Engineer.

Staff Analysis: The information provided in the RF Justification Report by a radio frequency engineer (Attachment 9) as well as an alternative site analysis within the CUP Narrative (Attachment 10) provides information regarding the determination of need that city staff reviewed and accepts.

The applicant has stated that the WCF will be designed with three (3) additional concealed co-locations. It is unknown to staff what is the maximum number of co-locations that could be supported on the antenna structure. Staff's assessment is based on the elevation drawings on page A-4 of the plan set (Attachment 7) which shows three (3) concealed co-locations by others. This elevation drawing appears to maximize the structures capacity of antennas arrays. As conditioned, the project will comply.

The applicant provided elevations (page A-4 Attachment 7) that provides a sense of how the facility will look once constructed. With the overall design of the antenna structure concealed as a pine tree and the equipment compound being screened from public view, staff determined that it provides a less intrusive visual impact. The grading plans show the site grading contained to just the lease area.

The structural engineer's report that provides safety and structural integrity information was not provided at land use review and staff agreed to defer this report to the building permit application submittal. As conditioned, the project will comply.

18.44.100.C.2 Freestanding concealed WCFs. The specific standards in this section limit the maximum height of freestanding WCF's in all zoning districts to 120 feet and that all height limits shall exclude lightning rods or lights required by the Federal Aviation Administration (FAA). The setbacks for the WCF and its equipment compound shall be subject to the underlying zoning district and that it shall not be any closer to an adjoining property line than the proposed facility is to any dwelling unit on the property on which the facility is to be located.

Staff Analysis: The proposed WCF antenna structure (monopine) is shown to be at a height of 120 feet. The development meets the underlying zoning district setback requirements.

18.44.110 Approval Process

The city reserves the right to require supplemental technical review by a third-party expert due to the complexity of the methodology or analysis required of an application for a wireless communication facilities. This review would address the accuracy of the application, any applicability of the analysis and methodologies used and the validity of conclusions reached and whether the WCF complies with the provisions of the OMC.

Staff Analysis: The applicant has hired a licensed professional engineer and other professional consultants that have prepared reports and documents and have provided analysis of the site regarding the proposed project. City staff determined after review of the conclusions and findings in these reports and documents that a third-party review would not be needed.

A post construction field testing is required within 30 days of the facility becoming fully operational. The applicant must hire a third party to review and confirm the theoretical computation of RF emissions.

Staff Analysis: As conditioned, the project will comply.

G. Conditional Uses, OMC 18.48

18.48.040 Additional Conditions
The Hearing Examiner may impose additional conditions on a particular use if it is deemed necessary for the protection of the surrounding properties, the neighborhood, or the general welfare of the public.

Staff Analysis: No additional conditions other than the conditions listed at the end of this report were considered by staff.

H. Design Review, OMC 18.100

The project is located within the High Density Corridor Design Review District and is subject to design requirements outlined in OMC 18.130.

18.110.130 High Density Corridor
The design review criteria include standards specific to building orientation, design and parking. There are no standards related to wireless communication facilities.

Staff Analysis: The design review standards do not apply to the proposed wireless facility.

I. Historic Preservation, OMC 18.12

18.12.140 Cultural Resources

Cultural Resources shall be protected from damage during construction and all other development activities. Development projects that require a State Environmental Policy Act (SEPA) threshold shall be required to sign an Inadvertent Discovery Plan (IDP) prior to construction permits.

Staff Analysis: As conditioned, the project will comply with OMC Chapter 18.12.

J. Engineering Design and Development Standards (EDDS)

The project has been reviewed for compliance with the EDDS relative to traffic, water, stormwater, wastewater and solid waste. It was found to be conceptually compliant.

Staff Analysis: The applicant will be required to demonstrate on construction plans that any permanent construction does not change the parking island size or cause the lane of travel through the public right-of-way alley to narrow, nor prevent a solid waste truck from turning left toward State Street at the island. Emergency access shall be maintained. Plans will also be updated to reflect the accurate width of the access easement. The applicant must coordinate with private utility providers for onsite utilities and relocation if found necessary. As conditioned, the project will comply with the EDDS.

III. PUBLIC COMMENT

The City received comments from the Squaxin Island Tribe, the Department of Ecology, and the public (Attachment 14). Comments received from the public expressed the following concerns with the project:

- Potential conflicts with existing above ground power lines at the site, power pole location and potential conflicts with site maneuverability due to fencing around the wireless facility.

Tribal comments included:

- Squaxin Island Tribe – indicates no concerns, however, the tribe would like to be informed if there is inadvertent discovery of archaeological resources.

Ecology comments Included:

- Grading and fill requirements, erosion & control measures, and proximity to a known or suspected contaminated site. If contamination is discovered, testing will be required, and Ecology must be notified. A construction stormwater general permit is required from Ecology.

Staff Analysis: The applicant will work with private utility providers if private utility lines need to be relocated. All aisle way width requirements for maneuvering have been met with regard to the location of the proposed enclosure. A signed inadvertent discovery plan will be required prior to issuance of construction permits.

IV. CONCLUSION AND RECOMMENDATION

Pursuant to OMC 18.72.100, the Site Plan Review Committee finds that the project, as conditioned, meets all applicable provisions of the Municipal Code and Engineering Design and Development Standards. Therefore, the Site Plan Review Committee recommends approval of the project subject to the following:

CONDITIONS:

1. **Approved Site Plan.** The site plan shall be substantially in conformance with the site plan A.1 & A.2 dated November 7, 2022, as modified by conditions of approval herein, and as may be modified by the Hearings Examiner.

2. **Landscaping Plan.** Provide the final landscaping plan prepared in compliance with OMC 18.36 shall be submitted in conjunction with engineering permit application. The landscape island shall be revised to include two trees, shrubs and groundcover per OMC 18.36.180.C.3.

3. **Landscape Estimate.** Provide the following information with the landscape plan: cost estimate for the purchase, site preparation, installation of all landscaping.

4. **Vegetation Materials & Installation Bond.** A vegetation bond (or other assurance) shall be posted following city acceptance of the landscaping installation. The bond amount shall be 125% of the cost estimate submitted with the landscaping plan and approved by the city.

5. **Hours of Operation/Construction Noise.** Pursuant to OMC 18.40.080.C.7., construction activity detectable beyond the site boundaries shall be restricted to the hours between 7:00 a.m. and 6:00 p.m.

6. **Co-location.** All new freestanding wireless communications facilities (WCF) shall be designed for maximum co-location installations. Additional co-locations shall require an eligible wireless modification and building permit application to ensure compliance with FCC standards.

7. **Signage**. The only signage permitted upon the antenna support structure, equipment cabinets or fence shall be minimum information for the purpose of meeting FAA/FCC regulation for identifying the antenna support structure, as well as the party responsible for the operation and maintenance of the facility with current contact information, security and safety signs.

8. **Lighting.** If required by the Federal Aviation Administration (FAA), lighting shall not exceed the FAA minimum standards. Any lighting required by the FAA must be of minimal intensity and the number of flashes per minute. Any security lighting or flood lighting for the facility shall be constructed and used as to not unduly illuminate the surrounding properties.

9. **Federal Communications Commission and Interference Protection.** All facilities shall be required to continue to comply with all applicable federal regulations, including interference protection.

10. **Structural Analysis Report**. A Structural Analysis Report shall be submitted with the building permit application. Per OMC 18.44.100.C.1.F, all support structures shall be certified to comply with the safety standards contained in the Electronics Industries Association /Telecommunications Industries Association (EIA/TIA) document 222-F, or current standard, "Structural Standards for Steel Antenna Towers and Supporting Structures," or current standard, as amended, by a Registered State of Washington Professional Engineer.

11. **Post Construction Field Testing.** Within thirty days of becoming fully operational, all facilities shall be field tested by a third party reviewer, at the applicant's expense, to confirm the theoretical computations of RF emissions.

12. **Private Utilities.** Applicant shall coordinate with private utility providers for the overhead utility lines on the site and any necessary relocation prior to building permit submittal. A private utility permit shall be obtained, if needed.

13. **Solid Waste**. The applicant shall ensure that any permanent construction does not change the parking island size or cause the lane of travel through the public right-of-way alley to narrow, nor the ability for the solid waste truck to turn left toward State Street at the island. See table 3 in Chapter 8 of the EDDS

for side load and front load truck dimensions and profiles for turning. This shall be documented on a site plan with the building permit submittal.

14. **Parking Island Trees.** Trees are required in the adjacent parking island. Tree species to be determined by City Forester at time of building permit review.

15. **Emergency Access.** The applicant shall ensure that the construction of the facility does not limit access for emergency operations.

16. **Permits & Plans**. When Building permits are applied for the projects will be reviewed under the appropriate currently adopted version of the International Building Code (IBC) International Mechanical Code (IMC) International Fuel Gas Code (IFGC) as amended by Washington State.
A City of Olympia building permit will be required for the proposed work, application for the electrical permit should be submitted following the submittal of the building permit using the building permit as the parent permit, electrical permits are through the City of Olympia.
All structural plans and calculations must be designed, stamped and signed by a Washington State licensed Structural Engineer.
Depending on specific site conditions and proposed footing design a geotechnical report may be required.

17. **Survey.** The following revisions should be shown on the building permit submittal. Add bearings and distances to the exhibit map that are consistent with the legal descriptions. Reconcile description for the access easement which is described as 12 feet but labeled as 20 feet on the map.

END OF CONDITIONS.

Submitted by: Lydia Moorehead, Associate Planner, on behalf of the Site Plan Review Committee and the Director
Phone: 360.570.3746
E-mail: lmoorehe@ci.olympia.wa.us

Attachments:
1. Staff Report (This)
2. Publication Notice - The Olympian
3. Owner Authorization Letter
4. Project Applications
5. Notice of Application
6. SEPA Determination
7. Plan Set dated November 7, 2022
8. Noise Report
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10. CUP Narrative
11. OMC Chapter 18.44 WCF Standards
12. RF Safety Compliance Statement
13. Non-Ionizing Electromagnetic Exposure Analysis (NIER) Report
14. Public Comments

NOTICE OF PUBLIC HEARING
Monday, February 6, 2023, 6:30 p.m.

The Olympia Hearing Examiner will hold a hybrid, in person & virtual public hearing **on Monday, February 6, 2023, 6:30 p.m.** to allow public testimony prior to making a decision on the following project:

Project Name and No.:	Mission Creek Wireless #22-5612
Description of Proposal:	Locate a new wireless communications facility including a 120-foot monopine, emergency generator and associated ground equipment to meet infill coverage needs. The project area is 675 square feet in size and is within an existing parking lot.
Location of Proposal:	1818 4th Avenue East
Applicant/Representative:	Phillip Kitzes, J5 Infrastructure Partners
Public Hearing:	Monday, February 6, 2023, 6:30 p.m.

Hybrid, In Person & Virtual Hearing (Registration Link & Room Info): City Hall at 601 4th Ave East in Olympia, Council Chambers https://us02web.zoom.us/webinar/register/WN_M78-c4JoSce-7F1qzgoS_Q

Staff Contact: Lydia Moorehead, Associate Planner
360.570.3746 lmoorehe@ci.olympia.wa.us

NOTICE OF PUBLIC HEARING

The City of Olympia Hearing Examiner will hold a hybrid, in person & virtual public hearing to receive additional public comments prior to making a decision on the above referenced project. Anyone interested is invited to attend via Zoom Webinar or in person in Council Chambers and present testimony regarding the above proposal. At the time you register and sign up, you will have the option of indicating if you want to give public testimony. To register use the link listed above.

Written statements may be submitted to the staff contact listed or to Olympia Community Planning and Development Department, PO Box 1967, Olympia, WA 98507-1967 for consideration by the hearing examiner. Written statements must be received prior to the public hearing. They can also be submitted by e-mail to the Lead Planner listed above up to two hours prior to the public hearing. All public comments previously submitted are also provided to the hearing examiner for consideration.

If you require special accommodations to attend and/or participate in this meeting, please contact Community Planning and Development by 10:00 a.m., 48 hours in advance of the meeting or earlier, if possible; phone: 360.753.8314; e-mail: cpdinfo@ci.olympia.wa.us. For hearing impaired, please contact us by dialing the Washington State Relay Service at 7-1-1 or 1.800.833.6384. The City of Olympia is committed to the non-discriminatory treatment of all persons in the delivery of services and resources.

COMMUNITY PLANNING AND DEVELOPMENT DEPARTMENT

DO NOT PUBLISH BELOW THIS LINE Publish: January 27, 2023

LETTER OF AUTHORIZATION

APPLICATION FOR ZONING/LAND USE ENTITLEMENTS

Property Address: 1818 4th Avenue East, Olympia, WA 98506

Parcel: 80800400300

I/We, the owner(s) of the above described property, authorize **New Cingular Wireless, doing business as AT&T Mobility,** whose address is 5 Centerpoint Dr, Suite 400 Lake Oswego, OR 97035, its employees, representatives, agents, and/or consultants, to act as an agent on my/our behalf for the sole purpose of consummating any and all building and land-use permit applications, or any other entitlements necessary for the purpose of constructing and operating a wireless telecommunications facility. I/We understand that any application may be denied, modified, or approved with conditions, and that such conditions or modifications must be complied with prior to issuance of building permits, and at all times thereafter.

I/We further understand that signing of this authorization in no way creates an obligation of any kind.

OWNER(S):

Charles A Green

Print Name

Chair of Board

Title

Signature

Date: Aug 30, 2022

Ron Nielsen

Print Name

President

Title

Signature

Date: 8/30/22

City of Olympia
601 4th Avenue East
Olympia, WA 98507
(360) 753.8314

Environmental checklist.

Purpose of checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

For nonproject proposals complete this checklist and the supplemental sheet for nonproject actions (Part D). The lead agency may exclude any question for the environmental elements (Part B) which they determine do not contribute meaningfully to the analysis of the proposal.

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

A.1. Name of proposed project, if applicable:

OL0734 Olympia Mission Creek 120-Foot Monopine Wireless Facility

A.2. Name of applicant: ***J5IP, on behalf of New Cingular Wireless PCS, LLC (AT&T)***

A.3. Address and phone number of applicant and contact person:

23035 SE 263rd Street (remote)
Maple Valley, WA 98038
206.227.7445
Contact: Phillip Kitzes

A.4. Date checklist prepared: ***August 31, 2022***

A.5. Agency requesting checklist: ***City of Olympia***

A.6. Proposed timing or schedule (including phasing, if applicable):

- ***Conditional Use Permit & SEPA Checklist Review: (4-6 months)***
- ***Hearing (1 month)***
- ***Building Permit Review: (1-2 months)***
- ***Construction: (4-6 months)***

A.7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

This facility may be subject to future upgrades, as well as collocation proposals. However, there are no present plans or expansions beyond the current proposal.

A.8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Survey prepared by S&F Land Services
ASCE Design Hazards Report

A.9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

To the best of the applicant's knowledge, there are no pending government approvals associated with the subject property.

A.10. List any government approvals or permits that will be needed for your proposal, if known.

- ***Conditional Use Permit***
- ***SEPA***
- ***Building Permit***

A.11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The proposal is to locate a new wireless communications facility (120-foot monopine) at the selected site to meet the in-fill coverage objectives (outdoor, in-vehicle, and in-building coverage) within a geographic area in the network. The project area for the facility is 20'x33.75', or 675 SF and will be within a parking lot. The facility will be accessible and will be enclosed in a 6-foot high secured wood fence. A generator will be installed for emergency use only (power outage).

A.12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The site address is 1814 4th Avenue East. The Assessor's Parcel Number is 80800400300 and it lies within the SW Quarter of Section 13, Township 18N, Range 2 West, W.M., Thurston County, WA. Legal Description:

PARCEL A:

LOTS 9 AND 10 OF MCCORMICK SUBDIVISION, AS RECORDED IN VOLUME 8 OF PLATS, PAGE 50. TOGETHER WITH THE WEST HALF OF VACATED ALLEY ADJOINING SAID LOT 9 ON THE EAST, AS VACATED BY ORDINANCE NO. 3493 RECORDED FEBRUARY 20,1969, UNDER FILE NO. 796281; IN THURSTON COUNTY, WASHINGTON

PARCEL B:
LOTS 2, 3, 4 AND 5 IN BLOCK 4 OF TURNER ADDITION TO OLYMPIA, AS RECORDED IN VOLUME 8 OF PLATS, PAGE 21. TOGETHER WITH THE EAST HALF OF VACATED ALLEY ADJOINING SAID LOTS 4 AND 5 AND THE SOUTH 40 FEET OF LOT 3 ON THE WEST, AS VACATED BY ORDINANCE NO. 3493 RECORDED FEBRUARY 20,1969, UNDER FILE NO. 796281;

IN THURSTON COUNTY, WASHINGTON

B. ENVIRONMENTAL ELEMENTS

B.1. Earth

B.1.a. General description of the site (circle one): ***Flat***, rolling, hilly, steep slopes, mountainous, other.....

B.1.b. What is the steepest slope on the site (approximate percent slope)?

3-5 percent.

B.1.c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

They are generally a Cathcart gravelly loam (per USDA soils).

B.1.d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No. There are no surface indications or history of unstable soils in the immediate vicinity.

B.1.e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

There will be grading to install the pole and ground equipment—estimated at approximately 5-10 cubic yards (CY). All material will be balanced onsite (new planter areas).

B.1.f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

No. There is no anticipated erosion as a result of the minimal site disturbance during construction.

B.1.g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The site is approximately 40,698 SF (0.93 AC) and is entirely impervious (asphalt) except for a landscape planter. Upon completion, there will be no real net change in impervious but there will be some additional plantings (perimeter landscaping).

B.1.h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

As required and implemented by the City, appropriate erosion control measures will be adhered to during construction.

B.2. Air

B.2.a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Temporary emissions from equipment and dust will occur during the construction phase. Construction equipment will comply with applicable local, county, and state air quality regulations. There will be a backup emergency generator that will only operate during an emergency or for testing and maintenance.

B.2.b. Are there any offsite sources of emissions or odor that may affect your proposal? If so, generally describe.

Not to our knowledge.

B.2.c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Once construction occurs, appropriate measures to mitigate and/or control emissions generated from the work will be strictly adhered to as prescribed by the city.

B.3. Water

B.3.a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

No.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

Not applicable.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

Not applicable.

5) Does the proposal lie within a 100-year flood plain? If so, note location on the site plan.

No.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

B.3.b. Ground:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well? Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No. Proposal is for an unmanned communications facility which does not require water service or use water.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Not applicable. This proposal is for an unmanned communications facility that will not generate any waste material.

B.3.c. Water runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

No. This proposal will disturb existing impervious surface that is already accounted for in the storm drainage collection system and will not disturb the existing runoff flow patterns.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No waste material will be created by this unstaffed communications facility.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

To the best of the applicant's knowledge, no drainage patterns will be impacted by this project.

B.3.d. Proposed measures to reduce or control surface, ground, runoff water, and drainage pattern impacts, if any:

None are proposed at this time.

B.4. Plants

B.4.a. Check the types of vegetation found on the site:

— Deciduous tree: Alder, maple, aspen, other:
— Evergreen tree: Fir, cedar, pine, other
— Shrubs: salal, soft rush, blackberry
— Grass
— Pasture
— Crop or grain
— Orchards, vineyards or other permanent crops.
— Wet soil plants: Cattail, buttercup, bullrush, skunk cabbage, other
— Water plants: Water lily, eelgrass, milfoil, other
— Other types of vegetation: ***Ornamental perimeter/parking area landscape***

B.4.b. What kind and amount of vegetation will be removed or altered?

The parking lot landscaping (middle of lot) will be removed to construct the facility.

B.4.c. List threatened and endangered species known to be on or near the site.

None.

B.4.d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Per Code, there will be Type II landscaping around the facility.

B.4.e. List all noxious weeds and invasive species known to be on or near the site.

None are known.

B.5. Animals

B.5.a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. Examples include:

Birds: Hawk, heron, eagle, **songbirds**, other:
Mammals: Deer, bear, elk, beaver, other:
Fish: Bass, salmon, trout, herring, shellfish, other:

Unknown, but it is reasonable that this parcel may have songbirds or small animals common to the area.

B.5.b. List any threatened and endangered species known to be on or near the site.

There are no known or observed threatened or endangered species at or near

the site.

B.5.c. Is the site part of a migration route? If so, explain.

Not to our knowledge.

B.5.d. Proposed measures to preserve or enhance wildlife, if any:

None are proposed at this time.

B.5.e. List any invasive animal species known to be on or near the site.

None are known.

B.6. Energy and natural resources

B.6.a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electricity and fiber are the two sources of power and communications required for the wireless facility. In the event of emergency, there is a diesel generator that will switch on until power is restored.

B.6.b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No. This is an unmanned communications facility consisting of a 120' monopine with the closet residential structure over 50ft away. As such, this proposal will not impact solar energy use on adjacent properties.

B.6.c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None are proposed at this time.

B.7. Environmental health

B.7.a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

No. The communications facility and equipment will not cause exposure to toxic chemicals or hazardous waste. A standby generator is being proposed, but it will only operate during emergencies. Additionally, it will meet all applicable safety regulations to reduce any potential hazards to the surrounding community.

1) Describe any known or possible contamination at the site from present or past uses.

None are known.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

Not applicable. There are no known underground transmission pipes or existing hazardous chemicals/conditions onsite.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

There are no toxic or hazardous chemicals that will be produced by the proposal, either during construction or operation. The proposed standby diesel generator will be installed and operated to meet all applicable regulations to ensure safe operation and no impact on surrounding properties.

4) Describe special emergency services that might be required.

None.

5) Proposed measures to reduce or control environmental health hazards, if any:

The proposed project will present no known environmental health hazards.

B.7.b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Not applicable—this is an unmanned facility and existing noise will not affect the project.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Noise levels will increase on a short-term basis during the construction phase of the project. **Construction will occur during daylight hours as allowed by City ordinance and staff. On a long-term basis, noise generated by this project will operate within permissible levels as shown in the Noise Report.**

3) Proposed measures to reduce or control noise impacts, if any:

None are proposed; however, the applicant will adhere to local regulations as they apply during construction. Distance from nearby properties and

proposed fenced compound will help ensure noise stays within permissible levels.

B.8. Land and shoreline use

B.8.a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The current land uses of the adjacent properties are as follows:

- ***North*** ***Business, Residences***
- ***South*** ***Residences***
- ***East*** ***Commercial (Retail)***
- ***West*** ***Residences***

The use of a 20'X33.75' fenced lease area for an unmanned communication facility will not impact the current use of the subject parcel or surrounding parcels.

B.8.b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

Not to our knowledge.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No. There is no working farm or forest land surrounding the subject parcel.

B.8.c. Describe any structures on the site.

Elks Lodge.

B.8.d. Will any structures be demolished? If so, what?

No.

B.8.e. What is the current zoning classification of the site?

High Density Corridor 2 (HDC-2)

B.8.f. What is the current comprehensive plan designation of the site?

Urban Corridor

B.8.g. If applicable, what is the current shoreline master program designation of the site?

Not applicable.

B.8.h. Has any part of the site been classified critical area by the city or county? If so, specify.

To the applicant's knowledge, no portion of the proposed site has been designated as a critical area.

B.8.i. Approximately how many people would reside or work in the completed project?

One (1) maintenance trip per year.

B.8.j. Approximately how many people would the completed project displace?

Not applicable—this is an unmanned communications facility. (Note: 1 maintenance trip per year.)

B.8.k. Proposed measures to avoid or reduce displacement impacts, if any:

No persons live on the subject parcel, so no displacement will occur.

B.8.l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The facility will serve the immediate area as part of a larger wireless network. In the event of emergency, it provides necessary communications and is located next to a highly used street. It will not impact the use of the surrounding residential/commercial properties. AT&T is mitigating visual impact with the "monopine" design and perimeter landscaping/fencing around the complex.

B.8.m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

There are no nearby agricultural or forest lands of long-term commercial significance.

B.9. Housing

B.9.a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

Not applicable. Proposal is for an unmanned communications facility with no housing proposed.

B.9.b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

Not applicable. There are no residences on the subject property.

B.9.c. Proposed measures to reduce or control housing impacts, if any:

Not applicable.

B.10. Aesthetics

B.10.a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The monopine will be 120 feet in height. (Lightning rod will extend higher.)

B.10.b. What views in the immediate vicinity would be altered or obstructed?

The monopine will be visible to surrounding properties but will not impact any significant viewsheds.

B.10.c. Proposed measures to reduce or control aesthetic impacts, if any:

Per the pre-application meeting, the design to a monopine will help offset any aesthetic impacts. In addition, there will be Type II landscaping around the facility.

B.11. Light and glare

B.11.a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None—lighting is not required.

B.11.b. Could light or glare from the finished project be a safety hazard or interfere with views?

No. No lighting is proposed for this project.

B.11.c. What existing offsite sources of light or glare may affect your proposal?

None—this is an unmanned facility.

B.11.d. Proposed measures to reduce or control light and glare impacts, if any:

None are proposed at this time.

B.12. Recreation

B.12.a. What designated and informal recreational opportunities are in the immediate vicinity?

Not applicable.

B.12.b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

B.12.c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

***None are proposed,* as there is no anticipated impact on recreational opportunities.**

B.13. Historic and cultural preservation

B.13.a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.

The existing Elks Lodge building was built in 1971; thus, it is 51 years old.

B.13.b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

Not to our knowledge.

B.13.c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

We researched the county and national registry, and nothing was noted about this site.

B.13.d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

No cultural or historic resources have been identified at the proposed project site; accordingly, AT&T has not proposed any measures to reduce or control impacts. AT&T will comply with all applicable laws regarding notification, etc., during construction. The existing building will not be affected by this proposal.

B.14. Transportation

B.14.a. Identify public streets and highways serving the site or affected geographic area and

describe proposed access to the existing street system. Show on site plans, if any.

Access is available from the abutting streets: State Avenue NE, 4th Avenue E, Fir Street SE, and Turner Street SE.

B.14.b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

Not applicable. Proposal is for an unmanned communications facility.

B.14.c. How many additional parking spaces would the completed project or nonproject proposal have? How many would the project or proposal eliminate?

The project will eliminate approximately 3 of the existing 53 parking spaces. (Note: The Code requires 6 spaces per 1,000 SF of lodge space and the calculated area is approximately 8,200 SF. Thus, the required number of parking stalls for the Elks Lodge is 49 spaces. If 3 spaces are removed, the required number of parking spaces is still met (per Code)).

B.14.d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No.

B.14.e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

B.14.f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

Approximately one (1) maintenance trip will be generated per year.

B.14.g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

B.14.h. Proposed measures to reduce or control transportation impacts, if any:

None are proposed at this time. The proposal is for an unmanned communications facility that will have no measurable impact on transportation.

B.15. Public services

B.15.a. Would the project result in an increased need for public services (for example: Fire

protection, police protection, public transit health care, schools, other)? If so, generally describe.

No.

B.15.b. Proposed measures to reduce or control direct impacts on public services, if any.

None are proposed.

B.16. Utilities

B.16.a. Circle utilities currently available at the site: **Electricity,** natural gas, water, refuse service, **telephone,** sanitary sewer, septic system, **other: fiber**.

B.16.b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

The following are the purveyors:

Electricity:	*Puget Sound Energy*
Fiber Service:	*TBD*

Connection(s) to the abovementioned utilities will be negotiated with the individual purveyor during the construction/building permit phases of this project. There may be a need for a right-of-way permit(s) to gain access to these services.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Phillip Kitzes — Signature

8.31.22 — Date Submitted

Olympia

CONDITIONAL USE PERMIT CHECKLIST

The following steps are highly recommended before applying for a Conditional Use Permit:

- **Presubmission Conference** - Submit for an application for a Presubmission Conference. This is a preliminary meeting with City staff to review a proposed development and to obtain required applications and reports that may be necessary for the review of the project.

- **Pre-Intake Meeting** - Please contact our office at 360.753.8314 when you are ready to submit your project application. City staff will schedule a pre-intake meeting. You will need to bring a USB Drive to the meeting that contains all the electronic files, plans and materials that you have prepared to submit for conditional use permit review.

  City staff will review the materials to verify that all required plans and associated documents have been prepared. At this meeting, the lead planner will provide a detailed guide sheet to assist you in applying on the City's portal.

  PLEASE NOTE: Do not start the application process on the City's portal until you have had a pre-intake meeting.

Conditional Use Permit Submittal. City staff will determine whether the application is complete upon your submittal of the application on the City's online application portal. Staff will also confirm applicable application fees and then notify you to make payment. A land use review fee may also be charged if changes to the site layout are needed. Fees are required to be paid for your application to be considered complete and vested. Payment of the fees can be made through your portal account. Fees totaling more than $5,000 requires an E-Check. Contact our customer service center if assistance is needed at 360.753.8314.

The following information will need to be prepared prior to applying for a Conditional Use Permit. The online form requires the following information:

1. The date of your pre-intake meeting (the form provided at the meeting is a required submittal item)
2. Applicant Information: name, address, phone number, email
3. Primary Contact: name, address, phone number, email
4. Authorized Representative (if applicable): name, address, phone number, email
5. Property Owner (if not applicant): name, address, phone number, email
6. Address or Tax Parcel Number of the project site
7. If multiple parcels are involved in the project, provide the following:
   a. all site addresses (if known)
   b. all Assessor's tax parcel numbers

8. Provide the number of parcels involved in the overall project
9. Total acreage of entire project site
10. Water Service- Existing: connected to existing water service or well
11. Water Service- Proposed: to connect to city water service or none
12. Sewer Service- Existing service: connected to existing city sewer or have on-site septic system
13. Sewer Service- Proposed: to connect to city sewer service or none
14. If this is a "change of use" project of a building, provide the last known use (retail, office, restaurant, etc.)
15. Does your project require Board or staff level design review?
16. The total square footage of all new construction of building(s) proposed?

Gather the following information:

ITEM	EXISTING	PROPOSED	TOTAL
Number of Buildings	1	ϕ	1
Height	20'	120'	
Number of Building Stories	1	N/A	
Gross Floor Area- Ground Floor (sq. ft.)	8,200	N/A	8,200
Gross Floor Area- Second Floor (sq. ft.)	ϕ	N/A	
Remaining Floors	ϕ	N/A	
Gross Floor Area of Building (sq. ft.)	8,200	N/A	8,200
Landscaping Areas (sq. ft.)	6,500	ϕ	6,500
Impervious Areas (sq. ft.)	34,010	INCLUDED	34,010
Hard Surface Areas (sq. ft.)	34,010	INCLUDED	34,010
Soils and Vegetation Protections Areas (sq. ft.)	N/A	N/A	
Public Streets or Private to be developed (sq. ft.)	N/A	N/A	
Bicycle Parking- Long Term	N/A	N/A	

Bicycle Parking- Short Term	N/A	N/A	
Vehicle Parking Stalls	53	-3	50
Number of Multifamily Housing Unit (if applicable)	N/A	N/A	

If your Conditional Use Permit involves any of the following, additional information is required:

Churches N/A

Distance to nearest school and/or park: _____
Name of school and/or park: _____
Date the church became legal owner of the property: _____
Distance to nearest arterial street: _____
Name of the arterial street: _____
(Arterial information may be obtained from City planning staff.)

Group Home N/A

Maximum number of residents (exclusive of staff): _____
Is there any other group home within ½ mile? ☐ Yes ☐ No
If yes, name and location of other group homes: _____

Commercial Uses WIRELESS FACILITY

Total gross square footage of commercial buildings: 0
Description of each commercial use: WIRELESS MONOPOLE + ANCILLARY EQUIPMENT
Total square footage in paved/covered surface: 120 ±
Will this proposal generate noise? ☒ Yes ☒ No
If yes, please describe: IN AN EMERGENCY, BACKUP GENERATOR. OTHERWISE - NO NOISE
Is a sign proposed? ☐ Yes ☒ No
If yes, what size? _____
Hours of operation (days of week and hours of day): 24 HRS / 7 DAYS A WEEK
Total square footage/acreage of the site: 0.93 AC
Number of dwelling units: Proposed and Existing 0

Resuming a Discontinued Use N/A

What was the previous use of the structure (or land)? _____
When was this discontinued use abandoned? _____

Was this discontinuance or abandonment caused by a condition over which the owner and operator had no control? (please explain)_____

_____

Why is it not possible to change the use of the premises to a permitted use? _____

_____

What provisions have been made to safeguard the adjoining properties against any detrimental effects that might result from reestablishing the proposed use? _____

_____

Day Care Centers and Nursery Schools N/A

Maximum number of students: _____

Estimated maximum expected vehicular trips per day: _____

How are these vehicular trips distributed by type and time of day?

Community Club, Private Club, or Fraternal Organization; Nursing or Convalescent Home; Public Utilities; Radio and Television Transmitting and Receiving Towers; Riding Stables or Riding Academies; and Veterinary Clinics or Hospitals

_____

What provisions have been made to make the development compatible with the appearance and character of the surrounding neighborhood? _____

_____

What provisions have been made to safeguard the adjoining properties against any detrimental effects caused by the development? _____

_____

The following submittals are required to meet the PDF Document Submission Requirement Standards (see handout):

- **Pre-Intake Guide Sheet**
- **Site Plan (drawn to scale)**

  Shall include the following:
  - North arrow, scale bar.
  - Vicinity map, depicting the location of the project with respect to adjacent and nearby streets and other major features.
  - Property lines and adjacent properties.
  - Locations, sizes and uses for existing and proposed structure.
  - All proposed and existing buildings and setback lines sufficiently accurate to ensure compliance with setback requirements.
  - The location of all existing and proposed structures, including buildings, fences, culverts, bridges, roads, streets, and signs.

- Proposed internal circulation plan illustrating new and existing access points to streets, the size and location of all driveways, fire lane if applicable, streets and roads with widths and outside turning radii for emergency and solid waste vehicles.
- Parking lot layout, including dimensions of the spaces and back-up aisles, barrier-free parking stalls and loading areas.
- Location, type and number of both long-term and short-term bicycle parking facilities
- Location of solid waste enclosure.
- Existing and proposed street frontage improvements, such as curbs, sidewalks, streetlights, street trees and nearby driveways both on-site and off-site.
- Existing and proposed overhead and underground private and public utilities both on and abutting the site including hydrant locations, waterlines, sanitary sewer lines, stormwater lines, wells, septic tanks and drain fields.
- Existing and proposed contour lines.
- Location of any on-site or suspected critical areas within 300 feet of the site. Critical areas may include wetlands, streams, landslide hazards and lakes with associated wetlands and buffers as outlined in OMC Chapter 18.32.
- Existing and proposed landscaping areas, fences, existing trees to remain and to be removed.
- Locations of above ground utility boxes over 30 inches in height or a volume of 20 cubic feet.

- **Civil Engineering Plans (Conceptual)**
  Water, Sanitary Sewer, Street, Lighting and Solid Waste design and any Site Development Drawings required by the Drainage Control Plan (see below, if applicable). Plans to include:
  - North arrow, scale bar, current City of Olympia vertical datum (NAVD88).
  - Right of way lines, including street names with quadrant suffix.
  - Edge of pavement, width and pavement type.
  - Property lines and addresses.
  - Easements- existing, proposed, type and dimension (if applicable).
  - Sewer Plan- include rim and invert grades shown at each existing and proposed manhole, size of pipe, sewer laterals, step system and appurtenances, and force main and appurtenances.
  - Water (Main) plan- include fire hydrants, meter and valves, size of water main, any FDC location, any fire main underground, building fire flow requirements and backflow prevention device location.
  - Solid Waste Collection Plan- Identify location of solid waste enclosure, type of waste container type and size (carts, dumpster, drop box or compactor), show collection vehicle ingress and egress into and out of site, without backing out onto streets and approach to the enclosure.

- Site Development Drawing (as applicable) should include: Cover Drawing, Construction SWPPP Drawings, Plan and Profile Drawings, Detail Drawings and Tree Plans. (Note that Landscaping Plans should be provided as a separate document.)

- **Drainage Control Plan -** For details, please refer to the Drainage Control Plan Checklist, Guide Sheet 1C available on the City's online portal under Civil Engineering Permit Checklists. Please also refer to guidance provided at the Stormwater Scoping meeting. In general, a Drainage Control Plan submitted at this stage will consist of the following:

  1. **Drainage Design Report**
  2. **Site Development Drawings** (to be included in the Civil Engineering Plans reference above.)
  3. **Construction Stormwater Pollution Prevention Plan** (C-SWPPP) Should include narrative and plans.

  (Note that a Stormwater Site Management Plan- would be required at the Engineering Permit review stage.)

- **Soil and Vegetation Plan** - As applicable, outlined in Olympia Municipal Code Chapter 16.60
- **Landscaping Plan (Conceptual)** - As applicable, meeting requirements of OMC 18.36.080
- **Traffic Impact Analysis** - if the project exceeds fifty (50) housing units or eight thousand (8,000) square feet of new commercial building area, a Traffic Generation and Distribution Report identifying projected daily and peak hour traffic generation to and from the project and distribution of those trips on the public street network. (See the Olympia Traffic Impact Analysis Guidelines.)
- **Narrative Document** - Provide a separate document describing all details of the project. Also provide details of how the proposal is consist with Olympia Municipal Code Chapter 18.48 Conditional Use Permits.
- **Legal Description Document** - Provide a document that includes the legal descriptions of all properties involved in the project.
- **Critical Area Report(s), if applicable** - Refer to OMC 18.32
- **Miscellaneous Reports** - Additional reports as identified at the Presubmission Conference and/or at the Pre-Intake meeting.
- **Environmental Checklist (if subject to the State Environmental Policy Act)**
- **Property Owner List -** a property owner list certified by a title company shall be provided. PDF version and Excel Spreadsheet Worksheet are required. (See additional information below).
- **Design Review Packet** - See Board or Staff Level Design Review Checklists for packet details.
- **Variance Request Justification Document -** If applicable. A statement, which may be accompanied by maps or illustrations, describing the purpose of the variance or exception, the specific standard or provision from which any variance or exception is sought, the extent of the variance or exception sought, and the reasons or justification in support of the variance or exception.
- **Parking Modification Request Document(s)** – If requesting a modification request, provide as applicable: transit document, parking demand study and justification of modification request.

- **Pedestrian Access Plan-** if applicable. A pedestrian access plan shall be prepared for sites with more than 30 parking spaces, or where block sizing requirements are triggered. See OMC 18.38.220.D for details.
-

This application requires a certified property owner list to be submitted:

- Before ordering a property owner list from a title company, please request from a planner from Community Planning & Development Department a map of the properties to be included or reference the Planning Presubmission Conference Worksheet. Generally, this will include properties within 300 feet of the project site and additional properties as needed based on the project's boundaries.
- The list of property owners shall be **certified by a title company**. Certification may be done on a cover sheet included with the list. The certification should include, at minimum: 1) the name of the title company, 2) the date the mailing list was prepared, 3) the name and signature of the person who prepared it, 4) the total number of records, and 5) a map showing the properties of the property data obtained.
- The property owner list with the certification coversheet shall be in a PDF document.
- The list shall also be provided in Excel worksheet format. The list shall include the following for each property:
  1. Property owner's complete mailing address
  2. Property complete mailing address (Situs Address)
  3. Tax parcel number(s) for each property

NOTICE OF LAND USE APPLICATION, ANTICIPATED SEPA DETERMINATION, AND PUBLIC MEETINGS

Project Information Meeting: November 3rd at 5:30 p.m.

Comment Period Ends: November 9th at 5:00 p.m.

Notice Mailed: 10/26/22

File Number: 22-5612

Project Name: Olympia Mission Creek Wireless Facility

Project Location: 1818 4TH AVE E

Applicant: Phillip Kitzes, J5 Infrastructure Partners

Lead Planner: Lydia Moorehead, Associate Planner

Project Description: Locate a new wireless communications facility including a 120-foot monopine, emergency generator and associated ground equipment to meet infill coverage needs. The project area is 675 square feet in size and is within an existing parking lot.

Project Information Meeting: A public informational meeting for the community will be held on the date and time listed above via web-based video conferencing**.** Questions about both the proposal and the City's review procedure will be welcomed.
Zoom Link: https://us02web.zoom.us/meeting/register/tZclfuypqj8sEtXZRSQdWrHkTNqgd4T3zGeg

SEPA Determination: The City of Olympia expects to issue a Determination of Non-significance (DNS) for this project. The optional DNS process in WAC 197-11-355 is being used. The City encourages agency and public review of the project. Comments on the proposed project and its probable environmental impacts must be submitted by the date listed above. This may be your only opportunity to comment on the environmental impacts of the proposed project. The environmental review and anticipated SEPA threshold determination are based upon the environmental checklist and related information on file with the City and is available upon request.

Public Hearing: A public hearing is required as part of the review of this project; however, it has not yet been scheduled. Prior to the hearing the property will be posted, and parties of record will receive additional notice.

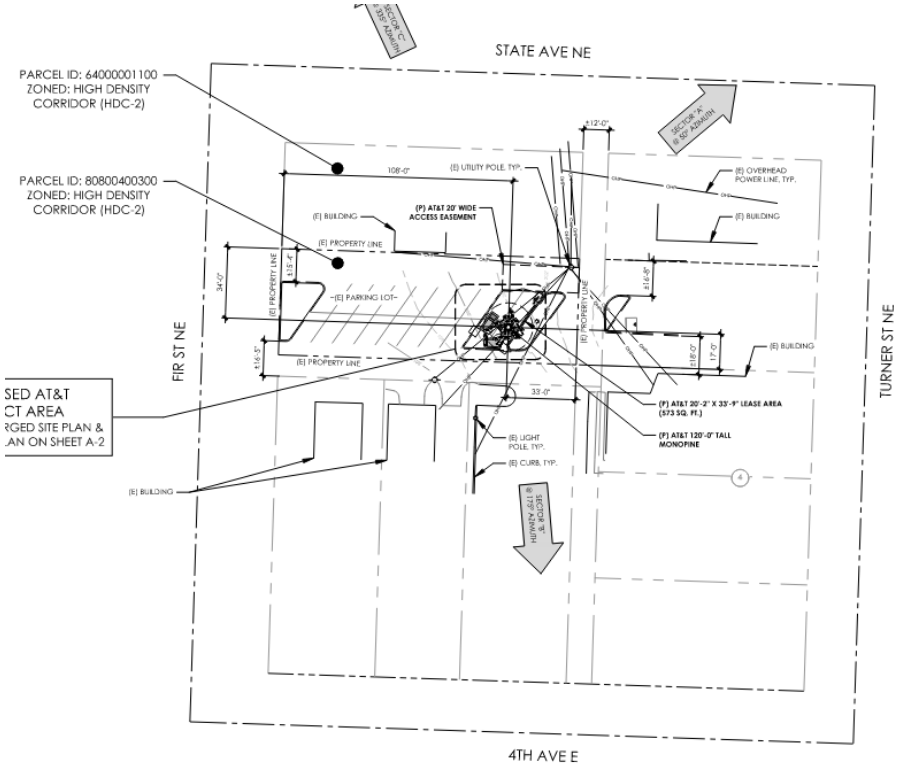
> *If you require special accommodations to attend and/or participate in any of the above mentioned meetings, please contact the lead planner 48 hours in advance of the date or earlier, if possible. The City of Olympia is committed to the non-discriminatory treatment of all persons in the delivery of services and resources.*

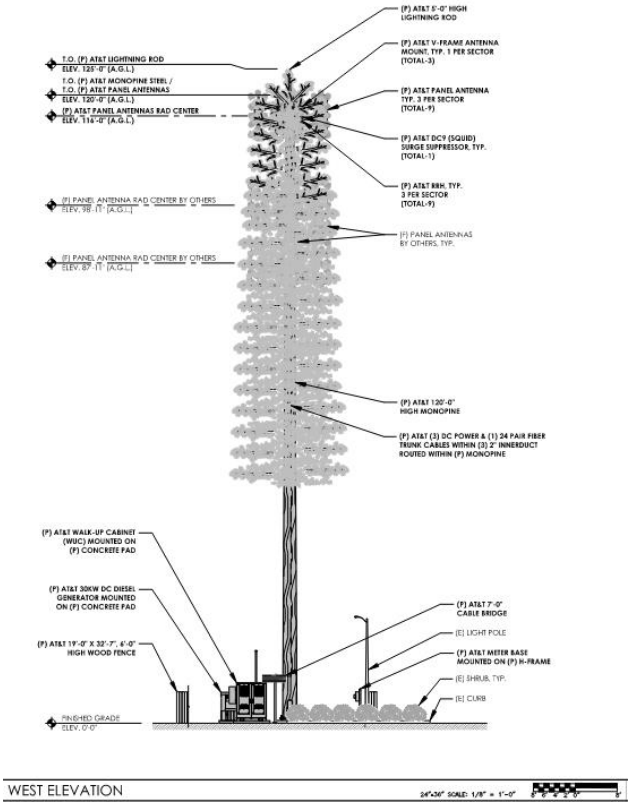
Written Comment Period: We invite your comments and participation in review of this project. Comments and inquiries regarding this proposal should be directed to the lead planner, at the above address. Failure to submit timely comments may result in an assumption of "no comment."

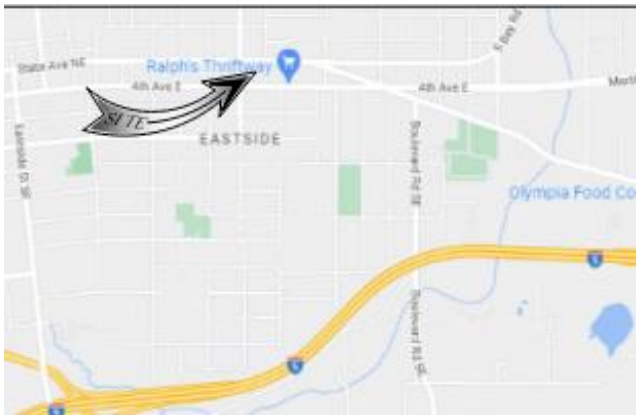
Decision: Upon request, you will be provided with a copy of the decision regarding this project. Anyone who does not agree with the decision will have an opportunity to file an appeal of the decision.

Other Information About This Project

Application Received / Deemed Complete: 10/5/22
Project Permits/Approvals Required: Land Use, Conditional Use, SEPA, Design Review, Engineering and Building.
The applicant prepared the following project studies and/or environmental documents at the City's request: Drainage Report, SEPA Checklist, Civil Plans, Architectural Plans and Design Schematics.
This notice has been provided to **agencies, neighborhood associations and neighboring property owners**. Lists of specific parties notified are available upon request.


STATE AVE NE
PARCEL ID: 64000001100
ZONED: HIGH DENSITY
CORRIDOR (HDC-2)
PARCEL ID: 80800400300
ZONED: HIGH DENSITY
CORRIDOR (HDC-2)
FIR ST NE
TURNER ST NE
4TH AVE E
SED AT&T
CT AREA
RGED SITE PLAN &
AN ON SHEET A-2
(E) BUILDING
(E) PROPERTY LINE
(E) PARKING LOT
(E) UTILITY POLE, TYP.
(E) OVERHEAD POWER LINE, TYP.
(P) AT&T 20' WIDE ACCESS EASEMENT
(P) AT&T 20'-2" X 33'-9" LEASE AREA (573 SQ. FT.)
(P) AT&T 120'-0" TALL MONOPINE
(E) LIGHT POLE, TYP.
(E) CURB, TYP.
SECTOR 'A' @ 50° AZIMUTH
SECTOR 'B' @ 177° AZIMUTH
SECTOR 'C' @ 305° AZIMUTH


(P) AT&T 5'-0" HIGH LIGHTNING ROD
(P) AT&T V-FRAME ANTENNA MOUNT, TYP. 1 PER SECTOR (TOTAL-3)
(P) AT&T PANEL ANTENNA TYP. 3 PER SECTOR (TOTAL-9)
(P) AT&T DC9 (SQUID) SURGE SUPPRESSOR, TYP. (TOTAL-1)
(P) AT&T RRH, TYP. 3 PER SECTOR (TOTAL-9)
(P) AT&T 120'-0" HIGH MONOPINE
(P) AT&T (3) DC POWER & (1) 24 PAIR FIBER TRUNK CABLES WITHIN (3) 2" INNERDUCT ROUTED WITHIN (P) MONOPINE
(P) AT&T WALK-UP CABINET (WUC) MOUNTED ON (P) CONCRETE PAD
(P) AT&T 30KW DC DIESEL GENERATOR MOUNTED ON (P) CONCRETE PAD
(P) AT&T 19'-0" X 32'-7", 6'-0" HIGH WOOD FENCE
(P) AT&T 7'-0" CABLE BRIDGE
(E) LIGHT POLE
(P) AT&T METER BASE MOUNTED ON (P) H-FRAME
(E) SHRUB, TYP.
(E) CURB
FINISHED GRADE
ELEV. 0'-0"
WEST ELEVATION


Ralph's Thriftway
4th Ave E
EASTSIDE
Olympia Food Co

NOTICE OF PUBLIC HEARING AND STATE ENVIRONMENTAL POLICY ACT DETERMINATION OF NONSIGNIFICANCE (SEPA DNS)

Community Planning & Development
601 4th Avenue E. – PO Box 1967
Olympia WA 98501-1967
Phone: 360.753.8314
Fax: 360.753.8087
cpdinfo@ci.olympia.wa.us
www.olympiawa.gov

Project Name and No.:	Mission Creek Wireless #22-5612
Required Approvals:	Conditional Use Permit Approval
Description of Proposal:	Locate a new wireless communications facility including a 120-foot monopine, emergency generator and associated ground equipment to meet infill coverage needs. The project area is 675 square feet in size and is within an existing parking lot.
Location of Proposal:	1818 4th Avenue East
Applicant/Representative:	Phillip Kitzes, J5 Infrastructure Partners
SEPA Lead Agency:	City of Olympia
SEPA Official:	Nicole Floyd, Principal Planner Email: nfloyd@ci.olympia.wa.us
SEPA Issuance:	January 12, 2023
Public Hearing:	Monday, February 6, 2023, 6:30 p.m.
Hybrid In-Person & Virtual Hearing (Zoom Webinar):	City Hall at 601 4th Ave East in Olympia, Council Chambers https://us02web.zoom.us/webinar/register/WN_M78-c4JoSce-7F1qzgoS_Q
Staff Contact:	Lydia Moorehead, Associate Planner Phone: 360.570.3746 Email: lmoorehe@ci.olympia.wa.us

NOTICE OF PUBLIC HEARING

The City of Olympia Hearing Examiner will hold a public hearing to receive public comments prior to making a decision on this project. Anyone interested is invited to attend and present testimony regarding the above proposal. Written statements may be submitted to the Olympia Community Planning and Development Department, PO Box 1967, Olympia WA 98507-1967. Written comments must be received at or prior to the public hearing.

If you require special accommodations to attend and/or participate in this meeting, please contact Community Planning and Development by 10:00 a.m., 48 hours in advance of the meeting or earlier, if possible; phone: 360.753.8314; e-mail: cpdinfo@ci.olympia.wa.us. For individuals with hearing impairment, please contact us by dialing the Washington State Relay Service at 7-1-1 or 1-800-833-6384.

SEPA THRESHOLD DETERMINATION

The lead agency for this proposal has determined that this action probably will not have a significant adverse impact upon the environment. Therefore, an Environmental Impact Statement is not required under RCW 43.21C.030(2)(C). The environmental review and SEPA threshold determination of this proposed action are based upon environmental checklist, plans and reports on file with the lead agency. This information is available to the public on request.

This DNS is not a permit. The City of Olympia will not act upon and no permits will be issued for this proposal prior to the appeal deadline. This DNS is issued under Washington Administrative Code (WAC) 197-11-355. The applicant shall not begin work until after the appeal deadline has expired and any other necessary permits have been granted.

This determination is based on a presumption that this project will include all mitigation measures proposed to be implemented by the applicant and will conform to all applicable standards and regulations. Should any mitigation measure be removed by the applicant, be infeasible, or be held to be invalid or unconstitutional, a new threshold determination may be required. Among other standards, this project is subject to and must conform to the Olympia Municipal Code (OMC), the Engineering Design and Development Standards (EDDS), and the State Environmental Policy Act (SEPA).

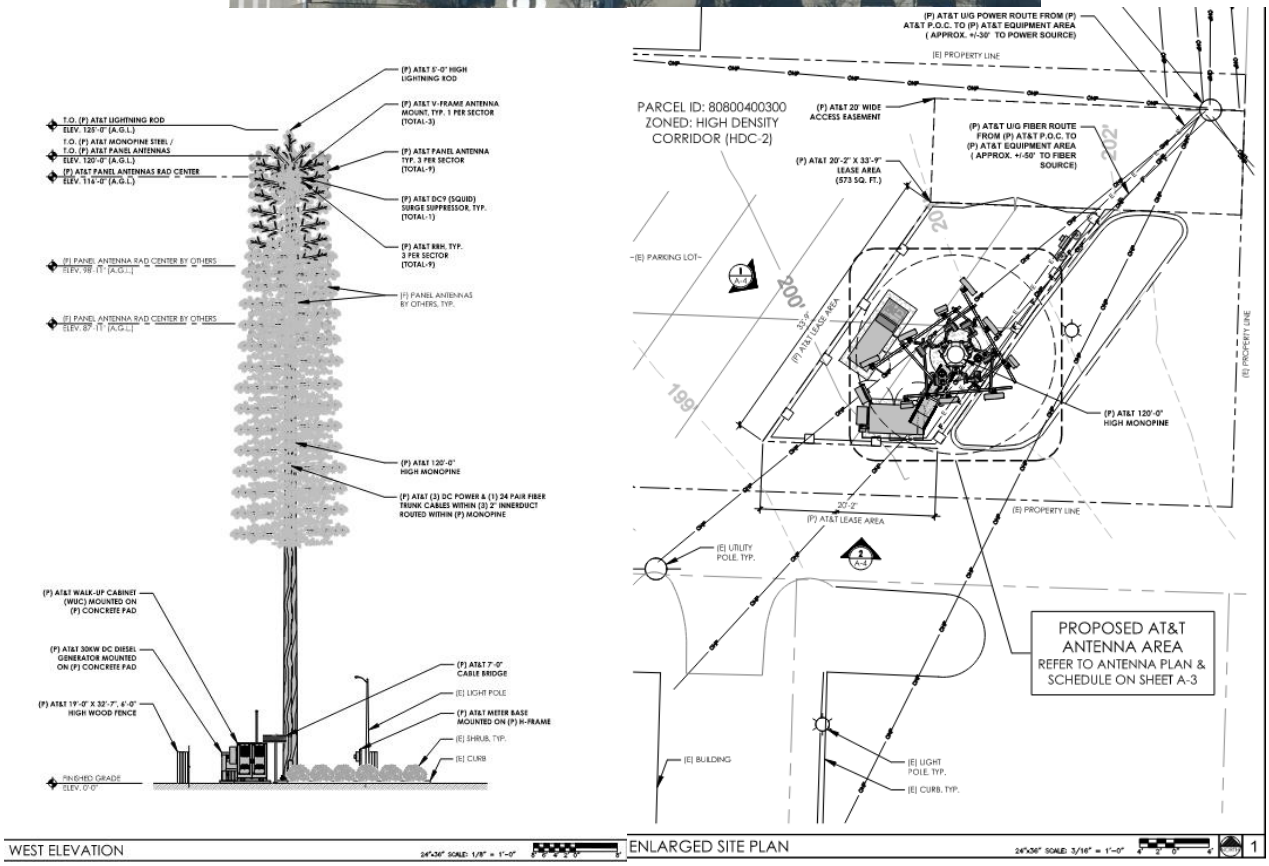
APPEAL PROCEDURE: Pursuant to RCW 43.21C.075(3) and OMC 14.04.160(A), this DNS may be appealed by any agency or aggrieved person. Appeals must be filed with the Community Planning and Development Department at the address above within twenty-one (21) calendar days of the date of issue. Any appeal must be accompanied by an administrative appeal fee. **The appeal deadline is 5:00 p.m., Thursday, February 2, 2023.**

Issued by:

1/12/2023

NICOLE FLOYD, PRINCIPAL PLANNER
SEPA OFFICIAL

DATE



The City of Olympia is committed to the non-discriminatory treatment of all persons in the delivery of services and resources.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES
AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING
TO THESE CODES.

2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS
2018 INTERNATIONAL FIRE CODE (IFC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE

PROPERTY LEGAL DESCRIPTION:

SEE SCHEDULE "C" OF TITLE REPORT

AT&T

NEW BUILD LTE ONLY 1C: MRWOR005896
5G NR 1SR: MRWOR067548
LTC 3C: MRWOR067551
LTC 2C: MRWOR067713
LTC 4C: MRWOR067553
5G NR 1SR CBAND: TBD
USID: 319980
FA CODE: 10578441

SITE NUMBER: OL0734
SITE NAME: OLYMPIA MISSION CREEK
SITE TYPE: MONOPINE / WUC
ADDRESS: 1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

PROJECT TEAM

APPLICANT / LESSEE:

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

PROJECT MANAGER:

J5 INFRASTRUCTURE PARTNERS
CONTACT: SARA MITCHELL
EMAIL: samitchell@j5ip.com
PH: (971) 281-1422

CONSTRUCTION MANAGER:

CONTACT: TOM LOGAN
EMAIL: tl804w@att.com
PH: (253) 709-0317

SITE ACQUISITION:

J5 INFRASTRUCTURE PARTNERS
CONTACT: KELLY LEA
EMAIL: klea@j5ip.com
PH: (503) 380-2717

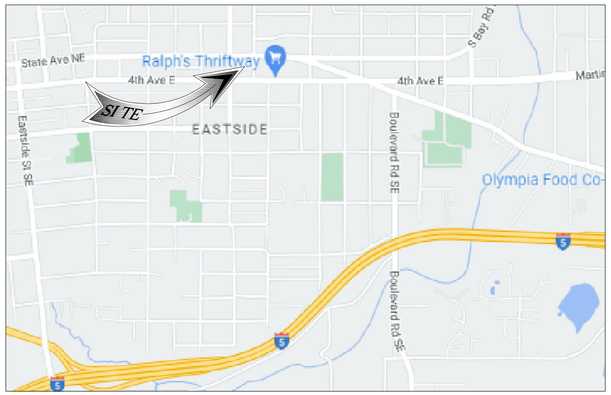
A&E MANAGER:

J5 INFRASTRUCTURE PARTNERS
CONTACT: JARRETT ELLINGTON
EMAIL: jellington@j5ip.com
PH: (706) 294-1479

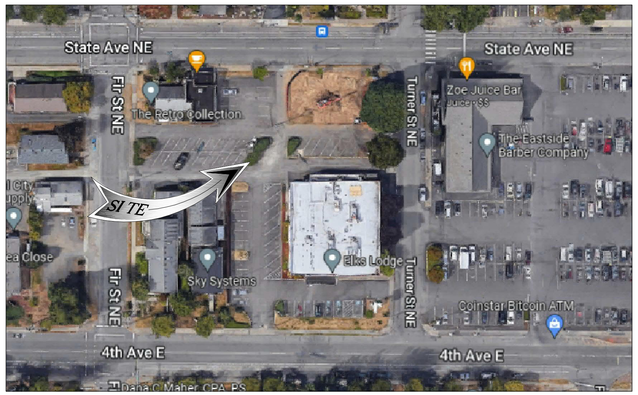
ZONING:

J5 INFRASTRUCTURE PARTNERS
CONTACT: PHILLIP KITZES
EMAIL: pkitzes@j5ip.com
PH: (206) 227-7445

VICINITY MAP



LOCAL MAP



NORTH

PROJECT DESCRIPTION

PROPOSED SITE BUILD OF AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:

TOWER/ANTENNA SOW:
- INSTALLATION OF (1) AT&T 120'-0" HIGH MONOPINE
- INSTALLATION OF (1) AT&T 5'-0" LIGHTNING ROD
- INSTALLATION OF (9) AT&T PANEL ANTENNAS
- INSTALLATION OF (9) AT&T REMOTE RADIO UNITS (RRU'S)
- INSTALLATION OF (6) AT&T RRH MOUNTS
- INSTALLATION OF (2) AT&T DC-9 SURGE SUPPRESSORS
- INSTALLATION OF (3) AT&T V-FRAME ANTENNA MOUNTS

EQUIPMENT SOW:
- INSTALLATION OF AN AT&T 20'-2" X 33'-9" (573 SQ. FT.) TELECOMMUNICATION COMPOUND LEASE AREA
- INSTALLATION OF AN AT&T 19'-0" X 32'-7", 6'-0" HIGH WOOD FENCE
- INSTALLATION OF (1) AT&T WALK-UP CABINET (WUC) ON CONCRETE PAD
- INSTALLATION OF (1) AT&T 30KW AC DIESEL BACK-UP GENERATOR ON CONCRETE PAD
- INSTALLATION OF (1) AT&T 200A AC POWER PANEL
- INSTALLATION OF (8) AT&T BATTERIES
- INSTALLATION OF (1) AT&T H-FRAME W/ UTILITY EQUIPMENT
- INSTALLATION OF (1) AT&T CABLE BRIDGE
- INSTALLATION OF (1) AT&T CABLE SLACK BOX
- INSTALLATION OF (6) AT&T DC POWER & (2) 24 PAIR FIBER CABLE TRUNKS
- INSTALLATION OF (1) AT&T SPD SURGE SUPPRESSOR BOX
- INSTALLATION OF (8) AT&T RECTIFIERS
- INSTALLATION OF (1) AT&T BASEBAND UNIT
- INSTALLATION OF (1) AT&T GPS ANTENNA
- INSTALLATION OF (4) SHRUBS

DEMO SOW:
- REMOVAL OF (E) SHRUBS

PROJECT AREA:
- 20'-2" X 33'-9" (573 SQ. FT.) LEASE AREA

SHEET INDEX

		REV.
T-1	TITLE SHEET	A
GN-1	GENERAL NOTES	A
GN-2	GENERAL NOTES	A
GN-3	SITE SIGNAGE	A
GN-4	MATERIAL SAFETY DATA SHEET & LEAD ACID BATTERY-1	A
GN-5	MATERIAL SAFETY DATA SHEET & LEAD ACID BATTERY-2	A
SU-1	SITE SURVEY	-
1A	1A CERTIFICATION	-
A-1	SITE PLAN	A
A-1.1	DEMO PLAN	A
A-2	ENLARGED SITE PLAN & COMPOUND PLAN	A
A-3	ANTENNA PLAN & SCHEDULE & EQUIPMENT PLAN	A
A-4	ELEVATIONS	A
L-1	LANDSCAPE PLAN	A
D-1	DETAILS	A
D-2	DETAILS	A
D-3	DETAILS	A
D-3.1	DETAILS	A
D-4	GENERATOR DETAILS	A
D-5	WALK-UP CABINET (WUC) DETAILS	A
D-6	ANTENNA MOUNT DETAILS	A
E-1	UTILITY PLAN	A
E-2	ELECTRICAL PANEL SCHEDULE & SLDG	A
G-1	GROUNDING NOTES	A
G-2	GROUNDING PLANS	A
G-3	GROUNDING DETAILS	A

Licensor:

Sheet Title:
TITLE SHEET

Sheet Number:
T-1

SITE INFORMATION

PROPERTY OWNER:
ELKS LODGE
1818 4TH AVENUE EAST
OLYMPIA, WA 98506

JURISDICTION:	CITY OF OLYMPIA
WIND LOADS:	105 MPH (3-SECOND GUST)
EXPOSURE CATEGORY:	C
SEISMIC ZONE:	1
FLOOD ZONE:	---
PARCEL ID #:	80800400300
ZONING:	HIGH DENSITY CORRIDOR (HDC-2)
LATITUDE (NAD 83):	47.04659°
LONGITUDE (NAD 83):	-122.87704°

IMPERVIOUS SURFACE: 0 SQ. FT.
BASE OF EXISTING STRUCTURE: ±0' (±201.46' AMSL)
TOP OF EXISTING STRUCTURE: ±120' (±321.46' AMSL)
TOP OF STRUCTURE WITH PROPOSED EXTENSION:
±1250' (±326.46' AMSL)

ACCESSIBILITY REQUIREMENTS: FACILITY IS AN UNMANNED EQUIPMENT SPACE NOT INTENDED FOR HUMAN HABITATION AND ONLY FREQUENTLY VISITED BY MAINTENANCE PERSONAL. ACCESSIBILITY IS NOT REQUIRED PER IBC 2018, SECTION 1103.2.9 (EQUIPMENT SPACES)

TOWER OWNER: AT&T
POWER AGENCY: PUGET SOUND ELECTRIC
TELEPHONE AGENCY: TBD
RFDS VERSION: FINAL/1.0
DATE UPDATED: 6/21/2022

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" X 36". CONTRACTORS SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

STATEMENTS

STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE LOCATED AT 19801 SW 72ND AVE, TUALATIN, OR 97062:

1. HEAD EAST TOWARD SW 72ND AVE (10 FT)
2. TURN RIGHT TOWARD SW 72ND AVE (128 FT)
3. TURN RIGHT ONTO SW 72ND AVE (489 FT)
4. TURN LEFT AT THE 1ST CROSS STREET ONTO SW SAGERT ST (0.4 MI)
5. TURN LEFT ONTO SW 65TH AVE (0.5 MI)
6. CONTINUE ONTO SW NYBERG ST (0.2 MI)
7. USE THE RIGHT LANE TO MERGE ONTO I-5 N VIA THE RAMP TO PORTLAND (0.3 MI)
8. MERGE ONTO I-5 N (9.5 MI)
9. USE THE MIDDLE 2 LANES TO STAY ON I-5 N (0.4 MI)
10. KEEP RIGHT TO STAY ON I-5 N (116 MI)
11. TAKE EXIT 107 FOR PACIFIC AVE (0.5 MI)
12. TURN LEFT ONTO PACIFIC AVE SE (1.2 MI)
13. USE THE LEFT LANE TO MERGE ONTO STATE AVE NE AND SITE WILL BE ON THE LEFT (0.1 MI)

DIGALERT
800-227-2600
Call 2 Full Working Days In Advance

GENERAL CONSTRUCTION NOTES:

1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE IBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
14. INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS
15. IT IS A VIOLATION OF LAW FOR ANY PERSONS, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT
16. ALL (N) CABLING AND EQUIPMENT MUST BE INSTALLED AND USED IN ACCORDANCE WITH THE PRODUCT'S INCLUDED INSTRUCTIONS, LISTING AND/OR LABELING REQUIREMENTS. PER NEC SECTION 110.3(B)
17. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.
18. PENETRATIONS SHALL BE FIRE-STOPPED AND OPENINGS SHALL BE PROTECTED THROUGH FIRE-RATED WALLS, FLOOR, ROOF AND CEILING ASSEMBLIES AS REQUIRED BY THE 20 18 IBC CHAPTER 7.
19. STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED BY J5 UNDER SEPARATE COVER.
20. ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED BY J5 UNDER SEPARATE COVER.
21. TOWER ANALYSIS TO BE CONDUCTED AND PROVIDED BY TOWER OWNER. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO TOWER STRUCTURAL ANALYSIS UNDER SEPARATE COVER.

APPLICABLE CODES, REGULATIONS AND STANDARDS:

1. SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
   - 3.1. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   - 3.2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, LRFD, FOURTEENTH EDITION
   - 3.3. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA/EIA) 222-H, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
   - 3.4. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
   - 3.5. IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
   - 3.6. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
   - 3.7. EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
   - 3.8. TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
   - 3.9. TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
   - 3.10. TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
   - 3.11. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
   - 3.12. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS:

A.B.	ANCHOR BOLT	FDN.	FOUNDATION	SCH.	SCHEDULE
ABV.	ABOVE	F.O.C.	FACE OF CONCRETE	SHT.	SHEET
ACCA	ANTENNA CABLE COVER ASSEMBLY	F.O.M.	FACE OF MASONRY	SIM.	SIMILAR
ADD'L	ADDITIONAL	F.O.S.	FACE OF STUD	SPEC.	SPECIFICATIONS
A.F.F.	ABOVE FINISHED FLOOR	F.O.W.	FACE OF WALL	SQ.	SQUARE
A.F.G.	ABOVE FINISHED GRADE	F.S.	FINISH SURFACE	S.S.	STAINLESS STEEL
ALUM.	ALUMINUM	FT.(')	FOOT (FEET)	STD.	STANDARD
ALT.	ALTERNATE	FTG.	FOOTING	STL.	STEEL
ANT.	ANTENNA	G.	GROWTH (CABINET)	STRUC.	STRUCTURAL
APPRX.	APPROXIMATE(LY)	GA.	GAUGE	TEMP.	TEMPORARY
ARCH.	ARCHITECT(URAL)	GI.	GALVANIZE(D)	THK.	THICK(NESS)
AWG.	AMERICAN WIRE GAUGE	G.F.I.	GROUND FAULT CIRCUIT	T.N.	TOE NAIL
BLDG.	BUILDING	INTERRUPTER		T.O.A.	TOP OF ANTENNA
BLK.	BLOCK	GLB. (GLU-LAM)	GLUE LAMINATED BEAM	T.O.C.	TOP OF CURB
BLKG.	BLOCKING	GPS	GLOBAL POSITIONING SYSTEM	T.O.F.	TOP OF FOUNDATION
BM.	BEAM	GRND.	GROUND	T.O.P.	TOP OF PLATE (PARAPET)
B.N.	BOUNDARY NAILING	HDR.	HEADER	T.O.S.	TOP OF STEEL
BTCW.	BARE TINNED COPPER WIRE	HGR.	HANGER	T.O.W.	TOP OF WALL
B.O.F.	BOTTOM OF FOOTING	HT.	HEIGHT	TYP.	TYPICAL
B/U	BACK-UP CABINET	ICGB.	ISOLATED COPPER GROUND BUS	U.G.	UNDER GROUND
CAB.	CABINET	IN. (")	INCH(ES)	U.L.	UNDERWRITERS LABORATORY
CANT.	CANTILEVER(ED)	INT.	INTERIOR	U.N.O.	UNLESS NOTED OTHERWISE
C.I.P.	CAST IN PLACE	LB.(#)	POUND(S)	V.I.F.	VERIFY IN FIELD
CLG.	CEILING	L.B.	LAG BOLTS	W	WIDE (WIDTH)
CLR.	CLEAR	L.F.	LINEAR FEET (FOOT)	w/	WITH
COL.	COLUMN	L.	LONG(ITUDINAL)	WD.	WOOD
CONC.	CONCRETE	MAS.	MASONRY	W.P.	WEATHERPROOF
CONN.	CONNECTION(OR)	MAX.	MAXIMUM	WT.	WEIGHT
CONST.	CONSTRUCTION	M.B.	MACHINE BOLT	℄	CENTERLINE
CONT.	CONTINUOUS	MECH.	MECHANICAL	℘	PLATE, PROPERTY LINE
d	PENNY (NAILS)	MFR.	MANUFACTURER		
DBL.	DOUBLE	MIN.	MINIMUM		
DEPT.	DEPARTMENT	MISC.	MISCELLANEOUS		
D.F.	DOUGLAS FIR	MTL.	METAL		
DIA.	DIAMETER	(N)	NEW		
DIAG.	DIAGONAL	NO.(#)	NUMBER		
DIM.	DIMENSION	N.T.S.	NOT TO SCALE		
DWG.	DRAWING(S)	O.C.	ON CENTER		
DWL.	DOWEL(S)	OPNG.	OPENING		
EA.	EACH	P/C	PRECAST CONCRETE		
EL.	ELEVATION	PCS	PERSONAL COMMUNICATION		
ELEC.	ELECTRICAL	SERVICES			
ELEV.	ELEVATOR	PLY.	PLYWOOD		
EMT.	ELECTRICAL METALLIC TUBING	PPC	POWER PROTECTION CABINET		
E.N.	EDGE NAIL	PRC	PRIMARY RADIO CABINET		
ENG.	ENGINEER	P.S.F.	POUNDS PER SQUARE FOOT		
EQ.	EQUAL	P.S.I.	POUNDS PER SQUARE INCH		
EXP.	EXPANSION	P.T.	PRESSURE TREATED		
EXST.(E)	EXISTING	PWR.	POWER (CABINET)		
EXT.	EXTERIOR	QTY.	QUANTITY		
FAB.	FABRICATION(OR)	RAD.(R)	RADIUS		
F.F.	FINISH FLOOR	REF.	REFERENCE		
F.G.	FINISH GRADE	REINF.	REINFORCEMENT(ING)		
FIN.	FINISH(ED)	REQ'D/ RGS.	REQUIRED RIGID GALVANIZED STEEL		
FLR.	FLOOR				

SYMBOLS LEGEND:

- BLDG. SECTION (1 / A-300 — 1 / A-300)
- WALL SECTION (A5 / A-310)
- DETAIL (D5 / A-500)
- ELEVATION (C1 / A-113; A4 / A-113; C4 / A-113; A1 / A-113)
- DOOR SYMBOL (001)
- WINDOW SYMBOL (10)
- TILT-UP PANEL MARK (3)
- PROPERTY LINE
- CENTERLINE
- SETBACK
- ELEVATION DATUM (±0")
- GRID/COLUMN LINE (A)
- KEYNOTE, DIMENSION ITEM (3)
- KEYNOTE, CONSTRUCTION ITEM (2)
- WALL TYPE MARK (W- 3)
- ROOM NAME / ROOM NUMBER (OFFICE 101)

- GROUT OR PLASTER
- (E) BRICK
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- PLYWOOD
- SAND
- PLYWOOD
- SAND
- (E) STEEL
- MATCH LINE
- GROUND CONDUCTOR
- OH — OVERHEAD SERVICE CONDUCTORS
- Tel — TELEPHONE CONDUIT
- Pwr — POWER CONDUIT
- Coax — COAXIAL CABLE
- CHAIN LINK FENCE
- CHAIN LINK FENCE
- WOOD FENCE
- (P) ANTENNA
- (P) RRU
- (P) DC SURGE SUPPRESSION
- (F) ANTENNA
- (F) RRU
- (E) EQUIPMENT

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
GENERAL NOTES

Sheet Number:
GN-1

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTRACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES, SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A.) FALL PROTECTION B.) CONFINED SPACE C.) ELECTRICAL SAFETY D.) TRENCHING AND EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER, AND/OR LOCAL UTILITIES.
6. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
7. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
8. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL BE PLACED IN ANY FILL OR EMBANKMENT.
9. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
10. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT, OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
11. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
12. NOTICE TO PROCEED - NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
13. ALL CONSTRUCTION MEANS AND METHODS: INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL ADHERE TO ANSI/TIA-1019 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

   CONTRACTOR - J5 INFRASTRUCTURE PARTNERS
   SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
   CARRIER - AT&T
   OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE THEMSELVES, WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND AT&T
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. 'KITTING LIST' SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS. THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND AT&T PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT THE SUBCONTRACTOR'S EXPENSE; TO THE SATISFACTION OF THE OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION, TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185, AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD. UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS.

   4.1. CONCRETE CAST AGAINST EARTH: 3" MIN.
   4.2. CONCRETE EXPOSED TO WEATHER:
   4.2.1. #6 AND LARGER - 2" MIN.
   4.2.2. #5 AND SMALLER & WWF. - 1 1/2" MIN.
   4.3. CONCRETE NOT EXPOSED TO WEATHER OR NOT CAST AGAINST THE GROUND:
   4.3.1. SLAB AND WALLS 3/4" MIN.
   4.3.2. BEAMS AND COLUMNS 1 1/2" MIN.
5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
GENERAL NOTES

Sheet Number:
GN-2

AT&T

This Site Operated by:

AT&T MOBILITY

AT&T MOBILITY 19801 SW 72ND AVE., TUALATIN, OR 97062
IN CASE OF FIRE AND THE NEED FOR SHUTDOWN
TO DEACTIVATE ANTENNAS CALL THE
FOLLOWING NUMBER:
For 24 Hour Emergency Contact and Access Please Call:
(800) 638-2822

Reference Site#: OL0734

Site Address: 1818 4TH AVENUE EAST OLYMPIA, WA 98506

10 FENCED COMPOUND SIGNAGE
N.T.S.

DANGER

NO TRESPASSING

INFORMATION

Federal Communications Communication
Tower Registration Number

1 2 3 4 5 6 7

Posted in accordance with federal Communications Commission rules and antenna tower registration 47CFR 17.4(g).

8"

12"

9 FENCED COMPOUND SIGNAGE
N.T.S.

6 FCC ASR SIGNAGE
N.T.S.

NOTICE

AUTHORIZED PERSONNEL ONLY

Property of AT&T

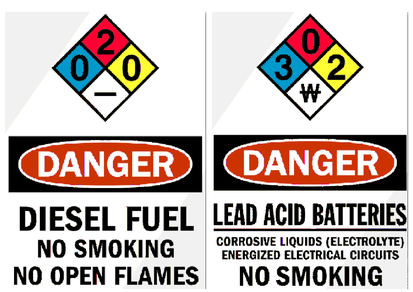
Authorized Personnel Only

No Trespassing
Violators will be Prosecuted

In case of emergency, or prior to performing maintenance on this site, call _____
and reference cell site number _____

8 DOOR / EQUIPMENT SIGN
N.T.S.

5 GATE SIGNAGE
N.T.S.



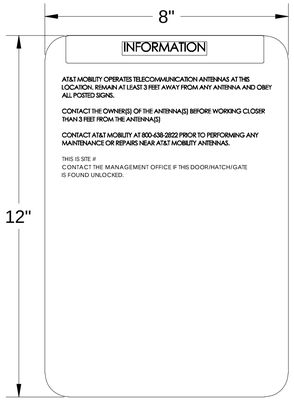
7 NFPA HAZARD SIGN - TYPICAL
N.T.S.

Property of AT&T

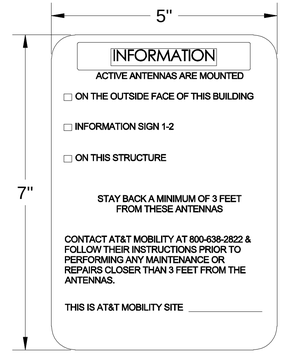
Authorized Personnel Only

In case of emergency, or prior to performing maintenance on this site, call _____
and reference cell site number _____

4 SHELTER / CABINET DOORS SIGNAGE
N.T.S.



A INFORMATION SIGN 1-1
SCALE: 1/2"= 1'



B INFORMATION SIGN 1-2
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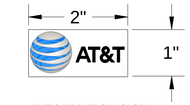
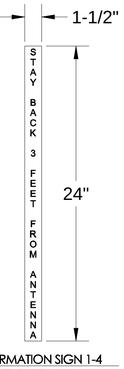


C INFORMATION SIGN 1-3
SCALE: 1/4" = 1'



D INFORMATION SIGN 1-4
SCALE: 3/16" = 1'

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. FABRICATION:

*SIGN I-1: ENTRANCE DOOR, SEE DETAIL 1A, THIS SHEET

SIGN 1 IS TO BE MADE ON THE 50 MIL ALUMINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) w/ FOUR (4) ¼ INCH MOUNTING HOLES, ONE EACH CORNER OF THE SIGN FOR MOUNTING w/ HARDWARE w/ TIE WRAPS. THE MAIN BACKGROUND COLOR IS TO BE WHITE FRONT & BACK w/ BLACK LETTERING.

THE INFORMATION BAND SHALL BE 1.2 INCH SOLID GREEN BAND w. 0.5 INCH HIGH BLACK LETTERING. THE BODY TEXT SHALL BE IN BLACK LETTERING w/0.2 INCH HIGH LETTERS. THE REF LINE SHALL BE IN ⅛ INCH LETTERS.

THE PLACEMENT OF TEXT SHALL BE DONE IN A MANNER THAT WILL PERMIT EASY READING FROM A DISTANCE OF APPROXIMATELY 6 FEET IN FRONT OF THE SIGN.

ALL PAINT WILL BE BAKED w/ENAMEL w/ UV PROTECTIVE COATING OVER THE FACE OF THE SIGN.

*SIGN 1-2: POLE, SEE DETAIL 1B, THIS SHEET

SIGN 2 MUST BE A NON METALLIC LABEL w/ AN ADHESIVE BACKING, THE LABEL SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIAL. THE LABEL SHALL BE APPROXIMATELY 5X7 INCHES w/ A WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH IN HEIGHT & THE LETTERING SHALL BE BLACK w/ 0.75 INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE BLACK w/ ⅛ INCH HIGH LETTERS. UV PROTECTION SHALL BE PLACED OVER THE FRONT OF THE LABEL.

*SIGN 1-3: BACK OF ANTENNAS, SEE DETAIL 1C & 3, THIS SHEET

*SIGN 3 IS A 1 INCH X 2 INCH PANEL THAT CAN BE APPLIED TO THE BACK OR SIDE OF AN ANTENNA TO IDENTIFY IT AS AN AT&T ANTENNA.

*SIGN 1-4: SIDE OF ANTENNAS, SEE DETAIL 1D & 3, THIS SHEET

SIGN 4 IS MADE FROM TRANSPARENT MATERIAL 1-1/2 INCHES WIDE & 24 INCHES LONG. THE LETTERING IS TO BE BLACK w ½ INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN.

3 INFORMATION SIGNAGE
N.T.S.

NOTE:
1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. CONTRACTOR SHALL CONTACT AT&T R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE

CAUTION

On this tower:

Radio frequency (RF) fields near some antennas may exceed the FCC Occupational Exposure Limits.

Contact AT&T at 800-638-2822, option 9 and 3, and follow their instructions prior to performing maintenance or repairs beyond this point.

Personnel climbing this tower should be trained for working in RF environments and use a personal RF monitor if working near active antennas.

Caution Sign #CADFT-AL-05.7 This is AT&T site 319980

2 CAUTION SIGN
N.T.S.

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT w/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mWcm*2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mWcm*2
3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR WORKING PLATFORM LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
5. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES & STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
6. ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR Y THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY w/ ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
7. PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE w/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE w/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED w/ FADE RESTRAINT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER w/ A DETAILED SHOP DRAWING OF EACH BARRICADE. UPON CONSTRUCTION COMPLETION.

1 GENERAL NOTES
N.T.S.

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
SITE SIGNAGE

Sheet Number:
GN-3

I. PRODUCT IDENTIFICATION

Chemical Trade Name (as used on label):
Aerospace and defense batteries manufactured using factory modified versions of Cyclon®, Genesis®, SBS, XE®, Armasafe Plus®, or Large TPPL.

Chemical Family/Classification:
Sealed Lead Battery

Synonyms:
Sealed Lead Acid Battery, VRLA Battery

Manufacturer's Name/Address:
EnerSys Energy Products Inc. (formerly Hawker Energy Products Inc.)
617 N. Ridgeview Drive
Warrensburg, MO 64093-9301

Telephone:
For information and emergencies, contact EnerSys Energy Products Environmental, Health & Safety Dept. at 660-429-2165

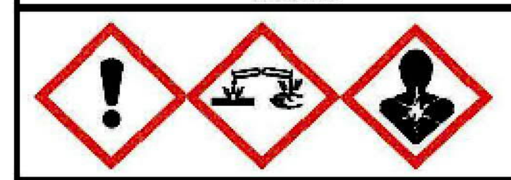
24-Hour Emergency Response Contact:
CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INTL: 703-527-3877

II GHS HAZARDS IDENTIFICATION

HEALTH		ENVIRONMENTAL	PHYSICAL
Acute Toxicity (Oral/Dermal/Inhalation)	Category 4	Aquatic Chronic 1	Explosive Chemical, Division 1.3
Skin Corrosion/Irritation	Category 1A	Aquatic Acute 1	
Eye Damage	Category 1		
Reproductive	Category 1A		
Carcinogenicity (lead compounds)	Category 1B		
Carcinogenicity (acid mist)	Category 1A		
Specific Target Organ Toxicity (repeated exposure)	Category 2		

GHS LABEL:

HEALTH



ENVIRONMENTAL

PHYSICAL

Hazard Statements
DANGER!
Causes severe skin burns and serious eye damage.
May damage fertility or the unborn child if ingested or inhaled.
May cause cancer if ingested or inhaled.
Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure.
May form explosive air/gas mixture during charging.
Extremely flammable gas (hydrogen).
Explosive, fire, blast, or projection hazard.
May cause harm to breast-fed children
Harmful if swallowed, inhaled, or contact with skin
Causes skin irritation, serious eye damage.

Precautionary Statements
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing, eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid.
Irritating to eyes, respiratory system, and skin.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood
Avoid contact during pregnancy/while nursing
Keep away from heat./sparks/open flames/hot surfaces. No smoking

III. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Approximate % by Weight
Inorganic Lead Compound:		
Lead	7439-92-1	45 - 60
Lead Dioxide	1309-60-0	15 - 25
Tin	7440-31-5	0.1 - 0.2
Sulfuric Acid Electrolyte (Sulfuric Acid/Water)	7664-93-9	15 - 20
Case Material:		5 - 10
Polypropylene	9003-07-0	
Polystyrene	9003-53-6	
Styrene Acrylonitrile	9003-54-7	
Acrylonitrile Butadiene Styrene	9003-56-9	
Styrene Butadiene	9003-55-8	
Polyvinylchloride	9002-86-2	
Polycarbonate, Hard Rubber, Polyethylene	9002-88-4	
Polyphenylene Oxide	25134-01-4	
Polycarbonate/Polyester Alloy	--	
Other:		
Absorbent Glass Mat	--	1 - 2

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER
Form #: SDS 853026
Revised: AB
Supersedes: AA (06-16-16)
ECO #: 1001828

Inorganic lead and sulfuric acid electrolyte are the primary components of every battery manufactured by EnerSys Energy Products.
There are no mercury or cadmium containing products present in batteries manufactured by EnerSys Energy Products.

IV. FIRST AID MEASURES

Inhalation:
Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician
Lead: Remove from exposure, gargle, wash nose and lips; consult physician.

Ingestion:
Sulfuric Acid: Give large quantities of water; do not induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death; consult a physician.
Lead: Consult physician immediately.

Skin:
Sulfuric Acid: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes.
Lead: Wash immediately with soap and water.

Eyes:
Sulfuric Acid and Lead: Flush immediately with large amounts of water for at least 15 minutes while lifting lids. Seek immediate medical attention if eyes have been exposed directly to acid.

V. FIRE FIGHTING MEASURES

Flash Point: N/A — **Flammable Limits:** LEL = 4.1% (Hydrogen Gas) UEL = 74.2% (Hydrogen Gas)

Extinguishing Media: Carbon dioxide; foam; dry chemical. Avoid breathing vapors. Use appropriate media for surrounding fire.

Special Fire Fighting Procedures:
If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing, gloves, face and eye protection.
Note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.

Unusual Fire and Explosion Hazards:
Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.

VI. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:
Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer. Acid must be managed in accordance with local, state, and federal requirements.
Consult state environmental agency and/or federal EPA.

VII. HANDLING AND STORAGE

Handling:
Unless involved in recycling operations, do not breach the casing or empty the contents of the battery.
There may be increasing risk of electric shock from strings of connected batteries.
Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components.
Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits.
Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.

Storage:
Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat. Keep away from metallic objects which could bridge the terminals on a battery and create a dangerous short-circuit.

Charging:
There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas.
Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby.
Wear face and eye protection when near batteries being charged.

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER
Form #: SDS 853026
Revised: AB
Supersedes: AA (06-16-16)
ECO #: 1001828

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits (mg/m3) Note: N.E.= Not Established

INGREDIENTS (Chemical/Common Names)	OSHA PEL	ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
Lead and Lead Compounds (inorganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)
Tin	2	2	2	2	2	N.E
Sulfuric Acid Electrolyte	1	0.2	1	1	0.2	0.05 (c)
Polypropylene	N.E	N.E	N.E	N.E	N.E	N.E
Polystyrene	N.E	N.E	N.E	N.E	N.E	N.E
Styrene Acrylonitrile	N.E	N.E	N.E	N.E	N.E	N.E
Acrylonitrile Butadiene Styrene	N.E	N.E	N.E	N.E	N.E	N.E
Styrene Butadiene	N.E	N.E	N.E	N.E	N.E	N.E
Polyvinylchloride	N.E	N.E	N.E	N.E	1	N.E
Polycarbonate, Hard Rubber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
Polyphenylene Oxide	N.E	N.E	N.E	N.E	N.E	N.E
Polycarbonate/Polyester Alloy Rubber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
Absorbent Glass Mat	N.E	N.E	N.E	N.E	N.E	N.E

NOTES:
(b) As inhalable aerosol
(c) Thoracic fraction

Engineering Controls (Ventilation):
Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant.
Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing, eye and face protection when filling, charging or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge the batteries in areas with adequate ventilation. General dilution ventilation is acceptable.

Respiratory Protection (NIOSH/MSHA approved):
None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.

Skin Protection:
If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing and boots.

Eye Protection:
If battery case is damaged, use chemical goggles or face shield.

Other Protection:
Under severe exposure emergency conditions, wear acid-resistant clothing and boots.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Properties Listed Below are for Electrolyte:

Boiling Point:	203 - 240° F	Specific Gravity (H_2O = 1):	1.215 to 1.350
Melting Point:	N/A	Vapor Pressure (mm Hg):	10
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A
pH:	~1 to 2	Flash Point:	Below room temperature (as hydrogen gas)
LEL (Lower Explosive Limit)	4.1% (Hydrogen)	UEL (Upper Explosive Limit)	74.2% (Hydrogen)
Appearance and Odor:	Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.		

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER
Form #: SDS 853026
Revised: AB
Supersedes: AA (06-16-16)
ECO #: 1001828

X. STABILITY AND REACTIVITY

Stability: Stable X Unstable ___

This product is stable under normal conditions at ambient temperature.

Conditions To Avoid: Prolonged overcharge; sources of ignition

Incompatibility: (Materials to avoid)
Sulfuric Acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas.
Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen and reducing agents.

Hazardous Decomposition Products:
Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.
Lead Compounds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.

Hazardous Polymerization:
Will not occur

XI. TOXICOLOGICAL INFORMATION

Routes of Entry:
Sulfuric Acid: Harmful by all routes of entry.
Lead Compounds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapor or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.

Inhalation:
Sulfuric Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.
Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.

Ingestion:
Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.
Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.

Skin Contact:
Sulfuric Acid: Severe irritation, burns and ulceration.
Lead Compounds: Not absorbed through the skin.

Eye Contact:
Sulfuric Acid: Severe irritation , burns, cornea damage, and blindness.
Lead Components: May cause eye irritation.

Effects of Overexposure - Acute:
Sulfuric Acid: Severe skin irritation, damage to cornea, upper respiratory irritation.
Lead Compounds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscle aches and weakness, sleep disturbances and irritability.

Effects of Overexposure - Chronic:
Sulfuric Acid: Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.
Lead Compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and females. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abnormal conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.

Carcinogenicity:
Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as a Group 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of the product, such as overcharging, may result in the generation of sulfuric acid mist.
Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F, this is approximately equivalent to GHS Category 1B. Proof of carcinogenicity in humans is lacking at present.

Medical Conditions Generally Aggravated by Exposure:
Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravate diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER
Form #: SDS 853026
Revised: AB
Supersedes: AA (06-16-16)
ECO #: 1001828

Acute Toxicity:
Inhalation LD50:
Electrolyte: LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3
Elemental Lead: Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion)

Oral LD50:
Electrolyte: rat: 2140 mg/kg
Elemental Lead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)

Additional Health Data:
All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion.
Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8.
Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.

The 19th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction.
Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.

XII. ECOLOGICAL INFORMATION

Environmental Fate:
Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments is slow.
Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain.
Most studies include lead compounds and not elemental lead.

Environmental Toxicity: Aquatic Toxicity:
Sulfuric acid: 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L
96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L
Lead: 48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion

Additional Information:
- No known effects on stratospheric ozone depletion.
- Volatile organic compounds: 0% (by Volume)
- Water Endangering Class (WGK): NA

XIII. DISPOSAL CONSIDERATIONS (UNITED STATES)

Spent batteries: Send to secondary lead smelter for recycling. Spent lead-acid batteries are not regulated as hazardous waste when the requirements of 40 CFR Section 266.80 are met. This should be managed in accordance with approved local, state and federal requirements. Consult state environmental agency and/or federal EPA.

Electrolyte:
Place neutralized slurry into sealed containers and handle as applicable with state and federal regulations. Large water-diluted spills, after neutralization and testing, should be managed in accordance with approved local, state and federal requirements. Consult state environmental agency and/or federal EPA.

Following local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.

EnerSys Power/Full Solutions — SAFETY DATA SHEET — HAWKER
Form #: SDS 853026
Revised: AB
Supersedes: AA (06-16-16)
ECO #: 1001828

XIV. TRANSPORT INFORMATION

U.S. DOT:
Excepted from the hazardous materials regulations (HMR) because the batteries meet the requirements of 49 CFR 173.159(f) and 49 CFR 173.159a of the U.S. Department of Transportation's HMR. Battery and outer package must be marked "NONSPILLABLE" or "NONSPILLABLE BATTERY" Battery terminals must be protected against short circuits.

IATA Dangerous Goods Regulations DGR:
Excepted from the dangerous goods regulations because the batteries meet the requirements of Packing Instruction 872 and Special Provisions A67 of the International Air Transportation Association (IATA) Dangerous goods Regulations and International Civil Aviation Organization (ICAO) Technical Instructions. Battery Terminals must be protected against short circuits.

The words "NOT RESTRICTED", SPECIAL PROVISION A67" must be provided when the air waybill is issued.

IMDG:
Excepted from the dangerous goods regulations for transport by sea because the batteries meet the requirements of Special Provision 238 of the International Maritime Dangerous Goods(IMDG CODE). Battery terminals must be protected against short circuits.

Requirements for Safe Shipping and Handling of Cyclon Cells:
Warning – Electrical Fire Hazard – Protect against shorting. Terminals can short and cause a fire if not insulated during shipping. Cyclon product must be labeled "NONSPILLABLE" during shipping. Follow all federal shipping regulations. See section IX of this sheet and CFR 49 Parts 171 through 180, available online at wwww.gpoaccess.gov.

Requirements for Shipping Cyclon Product as Single Cells:
Protective caps or other durable inert material must be used to insulate each terminal of each cell unless cells are shipping in the original packaging from EnerSys, in full box quantities. Protective caps are available for all cell sizes by contacting EnerSys Customer Service at 1-800-964-2837.

Requirements for Shipping Cyclon Product Assembled Into Multicell Batteries:
Assembled batteries must have short circuit protection during shipping. Exposed terminals, connectors, or lead wires must be insulated with a durable inert material to prevent exposure during shipping.

XV. REGULATORY INFORMATION

UNITED STATES:
EPA SARA Title III:

Section 302 EPCRA Extremely Hazardous Substances (EHS):
Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs.
EPCRA Section 302 notification is required if 1000 lbs or more of sulfuric acid is present at one site (40 CFR 370.10). For more information consult 40 CFR Part 355. The quantity of sulfuric acid will vary by battery type. Contact your EnerSys representative for additional information.

Section 304 CERCLA Hazardous Substances:
Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.

Section 311/312 Hazard Categorization:
EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric acid is present in quantities of 500 lbs or more and/or if lead is present in quantities of 10,000 lbs or more. For more information consult 40 CFR 370.10 and 40 CFR 370.40.

Section 313 EPCRA Toxic Substances:
40 CFR section 372.38 (b) states: If a toxic chemical is present in an article at a covered facility, a person is not required to consider the quantity of the toxic chemical present in such article when determining whether an applicable threshold has been met under § 372.25, § 372.27, or § 372.28 or determining the amount of release to be reported under § 372.30. This exemption applies whether the person received the article from another person or the person produced the article. However, this exemption applies only to the quantity of the toxic chemical present in the article.

Supplier Notification:
This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements.
If you are a manufacturing facility under SIC codes 20 through 39, the following information is provided to enable you to complete the required reports:

Toxic Chemical	CAS Number	Approximate % by Wt.
Lead	7439-92-1	45 - 60
Sulfuric Acid Electrolyte (Sulfuric Acid/Water)	7664-93-9	15 - 20
Tin	7440-31-5	0.1 - 0.2

See 40 CFR Part 370 for more details.

If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year.

The Section 313 supplier notification requirement does not apply to batteries, which are "consumer products".

NOTE:
1. FOR INFORMATION PURPOSES ONLY.

PREPARED FOR

AT&T
NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS
23 MAUCHLY #110
IRVINE, CA 92618
J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK
1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE
CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
MATERIAL SAFETY DATA SHEET & LEAD ACID BATTERY -1

Sheet Number:
GN-4

NOTE:
1. FOR INFORMATION PURPOSES ONLY.

EnerSys. Powering Your Solutions

SAFETY DATA SHEET HAWKER

Form #: SDS 853026
Revised: AB
Supersedes: AA (06-15-16)
ECO #: 1001028

TSCA:

TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b (40 CFR Part 707.60(b)) No notice of export will be required for articles, except PCB articles, unless the Agency so requires in the context of individual section 5, 6, or 7 actions.

TSCA Section 13 (40 CFR Part 707.20): No import certification required (EPA 305-B-99-001, June 1999, Introduction to the Chemical Import Requirements of the Toxic Substances Control Act, Section IV.A).

RCRA:

Spent Lead Acid Batteries are subject to streamlined handling requirements when managed in compliance with 40 CFR section 266.80 or 40 CFR part 273.
Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).

CAA:

EnerSys supports preventative actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone depleting chemicals (ODC's), defined by the USEPA as Class I substances. Pursuant to Section 611 of the Clean Air Act Amendments (CAAA) of 1990, finalized on January 19, 1993, EnerSys established a policy to eliminate the use of Class I ODC's prior to the May 15, 1995 deadline.

STATE REGULATIONS (US):

Proposition 65:
Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handling.

INTERNATIONAL REGULATIONS:

Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).

Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.

XVI. OTHER INFORMATION

Revised: AB (04-25-17)

NFPA Hazard Rating for Sulfuric Acid:

Flammability (Red) = 0 — Reactivity (Yellow) = 2
Health (Blue) = 3 — Sulfuric acid is water-reactive if concentrated.

DISCLAIMER

This Safety Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law, the manufacturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or other damages, arising out of the use of, or reliance on, this Safety Data Sheet.

Page 7

PowerSafe® SBS Front and Top Terminal

Telecommunications — NEBS™ Compliant*

Battery Performance Specifications

*NEBS™ Compliant GR63-Core
Available in the following: SBS 80, SBS 810, SBS 814, SBS C11, SBS 115, SBS 125, SBS 170, SBS 190, SBS 100, SBS 100L, SBS 100F and SBS 115F

Visit us at www.enersys.com — EnerSys. RESERVE POWER

Publication No.: US-SBS-PS-40 January 2017

PowerSafe® SBS

Features and Benefits

- Capacity range 7-361Ah
- 8V and 12V monobloc configurations
- Multiple string configurations available
- Two year shelf life
- SR-4228 compliant
- Proven long service life
- High energy density and cycling capability

Construction

- Utilizes Thin Plate Pure Lead (TPPL) technology. Thin positive grids are produced from high purity lead from a unique manufacturing process to maximize corrosion resistance and service life while increasing energy density
- Separators are Absorbent Glass Mat (AGM) made from high purity, superior quality fibers. The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Electrolyte is produced from extremely high purity acid to reduce self discharge rates and float currents
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Front terminal batteries use tin-plated copper terminals. Top terminal batteries use a copper alloy insert
- Self-regulating one way pressure relief valves prevent ingress of atmospheric oxygen

Installation and Operation

- Space efficient footprint
- Valve Regulated Lead Acid (VRLA) design reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- TPPL technology provides increased active material surface area which yields increased energy density
- Operating temperature: -40°F (-40°C) to 122°F (50°C) Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

- Approved as non-hazardous cargo for ground, sea and air transportation in accordance with US DOT Regulation 49 and ICAO & IATA Packing Instruction 806. Please see our SDS for complete details at www.enersys.com
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

Form Factor	Battery Type	Number of Cells	Nominal Voltage (V)	Rated Capacity 8hr. Rate 1.75Vpc @ 77°F	10hr. Rate 1.80Vpc @ 23°F	Nominal Dimensions Length in	Length mm	Width in	Width mm	Height in	Height mm	Typical Weight lbs.	Typical Weight kg	Short Circuit Current (Amps)	Internal** Resistance Milli-ohms	Terminals	Envelope Dimensions Volume (per block) gal	Volume (per block) L	Weight (per block) lbs	Weight (per block) kg	Per Unit Dimensions Volume (per block) gal	Volume (per block) L	Weight (per block) lbs	Weight (per block) kg	Lead Weight (per block) lbs	Lead Weight (per block) kg
Form Factor 1	SBS 8*	6	12	7	7	5.43	138	3.39	86.0	3.90	99.0	5.95	2.70	455	27.1	M4 F	0.10	0.38	1.08	0.49	0.03	0.11	0.43	0.19	4.26	1.93
	SBS 15	6	12	14	14	7.87	200	3.03	77.0	5.51	140	11.5	5.20	891	13.5	M6 M	0.20	0.75	2.14	0.97	0.06	0.21	0.86	0.38	7.83	3.56
	SBS 30	6	12	26	26	9.84	250	3.82	97.0	6.14	156	20.9	9.50	1556	7.90	M6 M	0.40	1.51	4.33	1.96	0.11	0.43	1.72	0.78	15.5	7.04
	SBS HB30	6	12	26	26	9.84	250	3.82	97.0	6.14	156	21.2	9.63	1556	7.90	harness	0.40	1.51	4.33	1.96	0.11	0.43	1.72	0.78	15.5	7.04
	SBS 40	6	12	38	38	9.84	250	3.82	97.0	8.11	206	29.1	13.2	2184	5.60	M6 M	0.56	2.23	6.29	2.90	0.17	0.63	2.53	1.15	21.2	9.61
	SBS 60	6	12	51	51	9.66	220	4.76	121	10.3	261	40.8	18.5	2618	4.40	M6 M	0.85	3.22	9.21	4.17	0.24	0.91	3.55	1.66	29.1	13.2
Form Factor 2	SBS 110	3	6	116	115	7.87	200	8.19	208	9.41	239	46.7	21.2	3804	1.70	M8 M	0.95	3.60	10.3	4.67	0.27	1.01	4.08	1.85	31.6	14.3
	SBS 130	3	6	133	132	7.87	200	8.19	208	9.41	239	50.0	22.7	4111	1.40	M8 M	0.98	3.70	10.5	4.80	0.28	1.04	4.20	1.90	34.2	15.5
	SBS 300	1	2	307	310	7.87	200	8.19	208	9.41	239	47.8	21.7	8709	0.23	M8 M	0.95	3.60	10.3	4.67	0.27	1.01	4.08	1.85	31.9	14.5
	SBS 360	1	2	361	360	7.87	200	8.19	208	9.41	239	51.1	23.2	11101	0.18	M8 M	0.90	3.39	9.70	4.40	0.25	0.95	3.65	1.75	34.7	15.7
Form Factor 1	SBS J13	6	12	12	12	6.89	175	3.27	83.0	5.08	129	11.5	5.20	957	13.0	M6 F	0.18	0.68	1.95	0.88	0.05	0.19	0.77	0.35	8.11	3.68
	SBS J16	6	12	15	15	7.13	181	2.99	76.0	8.57	167	14.8	6.70	1111	11.0	M6 F	0.23	0.87	2.49	1.13	0.06	0.25	0.99	0.45	11.0	5.00
	SBS J30	6	12	26	26	6.54	166	6.89	175	4.92	125	26.0	11.8	1756	7.00	M8 F	0.39	1.48	4.22	1.92	0.11	0.42	1.68	0.76	18.1	8.19
	SBS J40	6	12	39	39	7.76	197	6.50	165	6.69	170	35.1	15.9	2400	5.20	M8 F	0.51	2.31	6.61	3.00	0.17	0.65	2.52	1.19	27.6	12.5
	SBS J70	6	12	64	64	13.0	329	6.54	166	6.85	174	60.8	27.6	3500	3.50	M8 F	0.98	3.71	10.5	4.81	0.28	1.04	4.21	1.91	44.4	20.2
Form Factor 3	SBS 80*	6	12	31	31	11.0	280	3.82	97.0	6.26	159	22.7	10.3	1270	10.0	M8 F	0.37	1.42	4.05	1.84	0.11	0.40	1.51	0.73	15.6	7.08
	SBS B10*	6	12	38	38	11.0	280	3.82	97.0	7.24	184	26.0	11.8	1390	9.00	M8 F	0.48	1.80	5.15	2.34	0.13	0.51	2.04	0.93	17.7	8.03
	SBS B14*	6	12	62	62	11.0	280	3.82	97.0	10.4	264	42.1	19.1	1800	7.00	M8 F	0.78	2.95	8.45	3.83	0.22	0.83	3.35	1.52	29.6	13.4
	SBS C11*	6	12	91	92	15.6	395	4.13	105	10.4	264	61.7	28.0	2300	5.50	M8 F	1.29	4.85	13.9	6.29	0.36	1.36	5.50	2.49	43.3	19.7
	SBS 100*	6	12	100	100	15.6	395	4.25	108	11.3	287	71.9	32.6	2210	5.60	M8 F	1.34	5.09	14.6	6.59	0.38	1.43	5.77	2.62	49.7	22.5
	SBS145*	6	12	145	145	16.9	429	6.77	172	9.37	238	105	47.6	4100	3.00	M8 F	2.21	8.37	23.9	10.9	0.62	2.35	9.49	4.31	79.5	36.1
Form Factor 4	SBS B8F*	6	12	31	31	11.9	303	3.82	97.0	6.26	159	22.7	10.3	1270	10.0	M8 M	0.37	1.42	4.05	1.84	0.11	0.40	1.61	0.73	15.6	7.08
	SBS B10F*	6	12	38	38	11.9	303	3.82	97.0	7.24	184	29.2	12.8	1390	9.00	M8 M	0.48	1.80	5.15	2.34	0.13	0.51	2.04	0.93	17.7	8.03
	SBS B14F*	6	12	62	62	11.9	303	3.82	97.0	10.4	264	42.0	19.1	1800	7.00	M8 M	0.78	2.95	8.45	3.83	0.22	0.83	3.35	1.52	29.6	13.4
	SBS C11F*	6	12	91	92	16.4	417	4.13	105	10.1	256	61.6	27.9	2300	5.50	M8 M	1.29	4.85	13.9	6.29	0.36	1.36	5.50	2.49	43.3	19.7
	SBS 100F*	6	12	100	100	15.6	395	4.25	108	11.3	287	71.9	32.6	2210	5.60	M8 M	1.34	5.09	14.6	6.59	0.38	1.43	5.77	2.62	49.7	22.5
	SBS 112F*	6	12	112	112	22.1	561	4.92	125	8.98	228	80.4	41.0	2500	5.00	M8 M	1.71	6.48	19.5	8.41	0.48	1.82	7.35	3.34	56.8	25.8
	SBS 145F*	6	12	145	145	17.8	452	6.77	172	9.37	238	105	47.6	4100	3.00	M8 M	2.25	8.51	24.3	11.0	0.63	2.39	9.68	4.38	72.4	32.8
	SBS 165F*	6	12	165	165	17.8	452	6.77	172	10.8	274	116	52.8	3700	2.30	M8 M	2.45	9.27	26.5	12.0	0.64	2.42	9.72	4.41	82.7	37.5
	SBS 170F*	6	12	170	170	22.1	561	4.92	125	11.1	283	116	52.5	3400	4.00	M8 M	2.89	7.92	22.7	10.3	0.59	2.23	8.99	4.08	82.0	37.2
	SBS 190F*	6	12	190	190	22.1	561	4.92	125	12.4	316	132	60.0	3800	3.30	M8 M	2.34	8.95	25.3	11.5	0.65	2.49	10.1	4.56	95.8	43.4

*NEBS Compliant GR63-Core
**Resistance values are for reference only and not intended to represent an Ohmic value or baseline measurement

BATTERY STRING CALCULATIONS

- (4) BATTERIES PER STRING (CONNECTED IN SERIES)
- 190Ah PER BATTERY (190Ah PER STRING FROM (4) BATTERIES IN SERIES)
- 12 VOLTS PER BATTERY (48V PER STRING FROM (4) BATTERIES IN SERIES)

190Ah X 48V / 1000 = 9.12kWh PER STRING ((2) TOTAL STRINGS = 18.24kWh)

SBS 170F BATTERY SPECS (1 UNIT)

LENGTH = 22.1"
WIDTH = 4.92"
HEIGHT = 11.1"
WEIGHT = 116 LBS

SBS 190F BATTERY SPECS (1 UNIT)

LENGTH = 22.1"
WIDTH = 4.92"
HEIGHT = 12.4"
WEIGHT = 132 LBS

BATTERY INFORMATION

INSTALL STATUS	BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED (EA)	TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT	TOTAL ELECTROLYTE WEIGHT (LBS) PER UNIT	TOTAL SULFURIC ACID VOLUME (GALLONS) PER UNIT	TOTAL SULFURIC ACID WEIGHT (LBS) PER UNIT	% SULFURIC ACID BY VOLUME =	TOTAL SULFURIC ACID VOLUME/UNIT / TOTAL ELECTROLYTE VOLUME/UNIT	TOTAL SULFURIC ACID BY VOLUME (GALLONS) =	TOTAL # OF UNITS x TOTAL SULFURIC ACID VOLUME/UNIT	% SULFURIC ACID BY WEIGHT =	TOTAL SULFURIC ACID WEIGHT/UNIT / TOTAL ELECTROLYTE WEIGHT/UNIT	TOTAL SULFURIC ACID BY WEIGHT (LBS) =	TOTAL # OF UNITS x TOTAL SULFURIC ACID WEIGHT/UNIT	**TOTAL ELECTROLYTE BY VOLUME (GALLONS) =**	**TOTAL # OF UNITS x TOTAL ELECTROLYTE VOLUME/UNIT**	TOTAL ELECTROLYTE BY WEIGHT (LBS) =	TOTAL # OF UNITS x TOTAL ELECTROLYTE WEIGHT/UNIT
PROPOSED	ENERSYS POWER SAFE - SBS 190F	8	2.34	25.3	0.66	10.1	28.21%		5.28		39.92%		80.80		18.72		202.40	
TOTAL	N/A	8	2.34	25.3	0.66	10.1	N/A		5.28		N/A		80.80		**18.72**		202.40	

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

JS INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

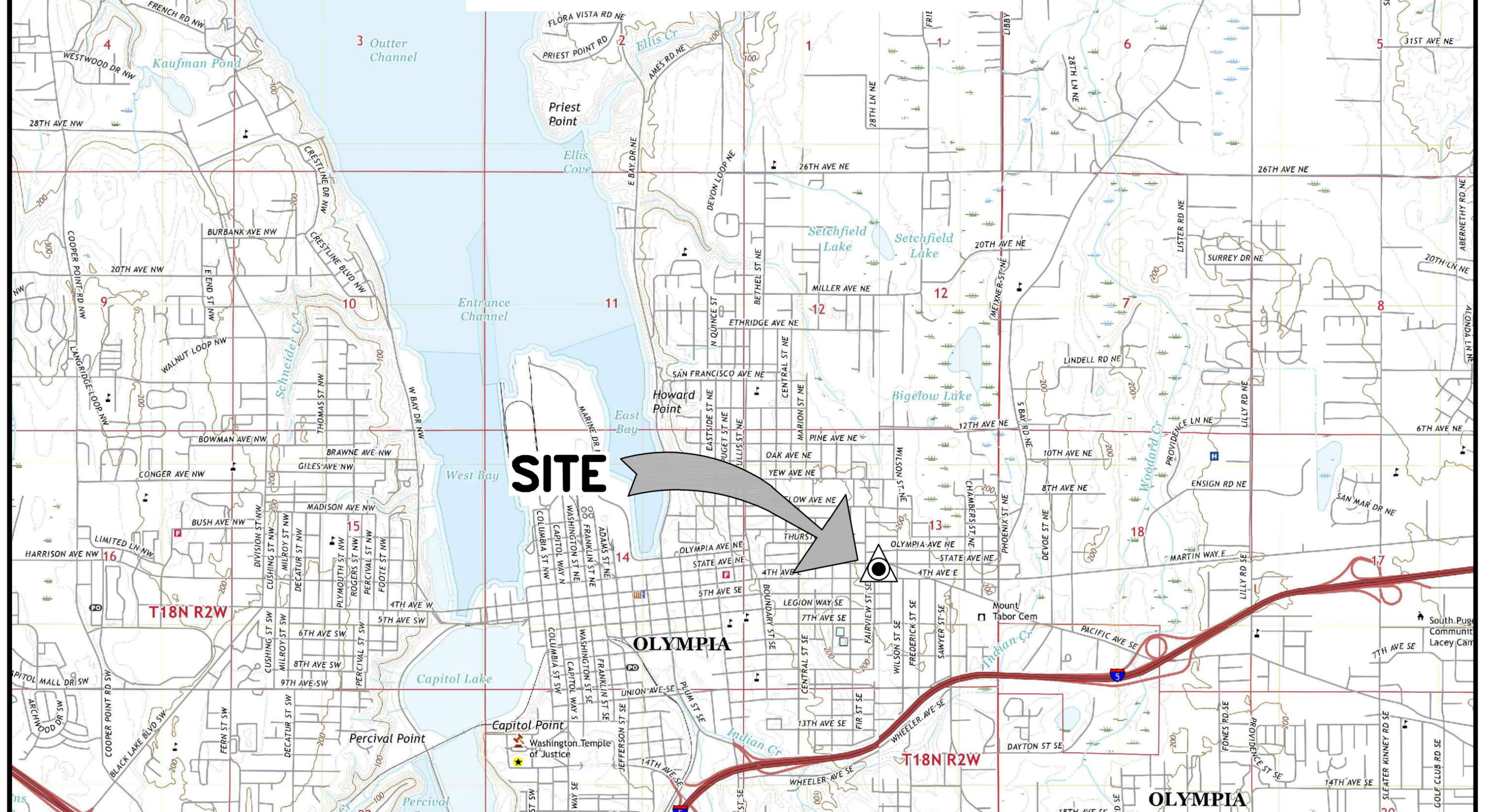
REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
MATERIAL SAFETY DATA SHEET & LEAD ACID BATTERY -2

Sheet Number:
GN-5

1A SURVEY CERTIFICATION



GEOGRAPHIC COORDINATES

LATITUDE: 47°02'47.73" N (47.04659) (NAD 83)
LONGITUDE: 122°52'37.33" W (−122.87704) (NAD 83)
GROUND ELEVATION: 201.46' FEET (NAVD 88)

DATE OF SURVEY: MAY 5, 2022

2000' 0 1000' 2000' 4000'

SCALE: 1" = 2000'

RE: SITE NAME: OL0734 – OLYMPIA MISSION CREEK
1818 4TH AVENUE EAST
OLYMPIA, WA 98506

I CERTIFY THAT THE LATITUDE AND THE LONGITUDE SHOWN ABOVE ARE ACCURATE TO WITHIN ±15 FEET HORIZONTALLY AND THAT THE SITE ELEVATION IS ACCURATE TO WITHIN ±3 FEET VERTICALLY, WHICH MEETS 1A STANDARDS AS DEFINED ON THE FAA ASAC INFORMATION SHEET 91:003. THE HORIZONTAL DATUM (GEOGRAPHIC COORDINATES) ARE IN TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD 83) AND ARE EXPRESSED AS DEGREES (°), MINUTES ('), AND SECONDS ("). TO THE NEAREST HUNDREDTH OF A SECOND. THE VERTICAL DATUM (ELEVATION AMSL) IS IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

S&F Land Services

Date: 05/23/2022
Proj No: 2020–177–139
Prepared: HTF
Checked: MJF

SHEET 1 OF 1

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
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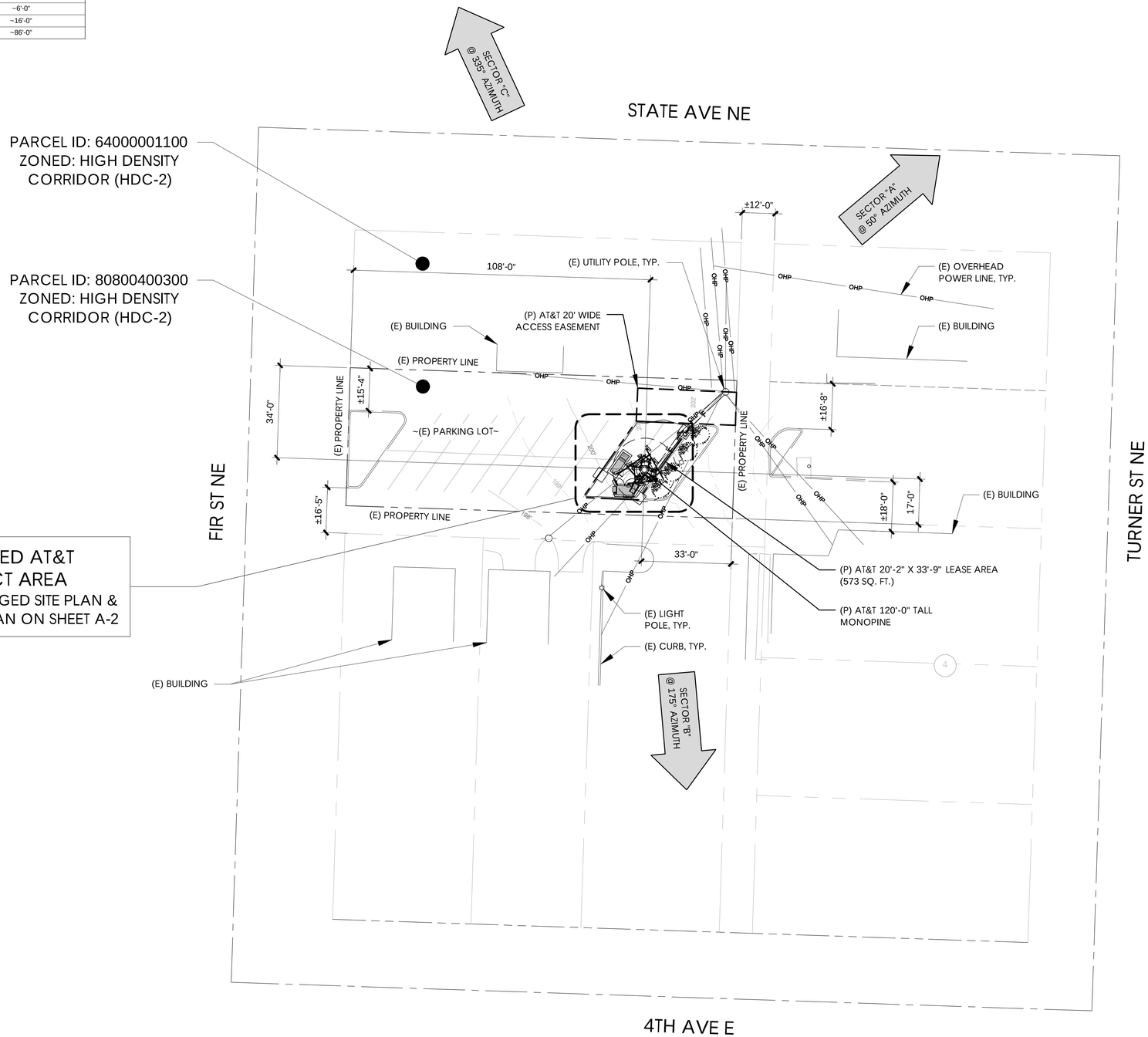
REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
1A CERTIFICATION

Sheet Number:
1A

SETBACK TABLE:		
	TOWER BASE TO PARENT PROPERTY LINE	LEASE BOUNDARY TO PARENT PROPERTY LINE
NORTH	~34'-0"	~16'-0"
SOUTH	~17'-0"	~6'-0"
EAST	~33'-0"	~16'-0"
WEST	~108'-0"	~86'-0"



SITE PLAN

24"x36" SCALE: 1" = 20'-0" 20' 10' 0' 20' NORTH 1

PREPARED FOR

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NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
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REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:

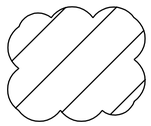
SITE PLAN

Sheet Number:

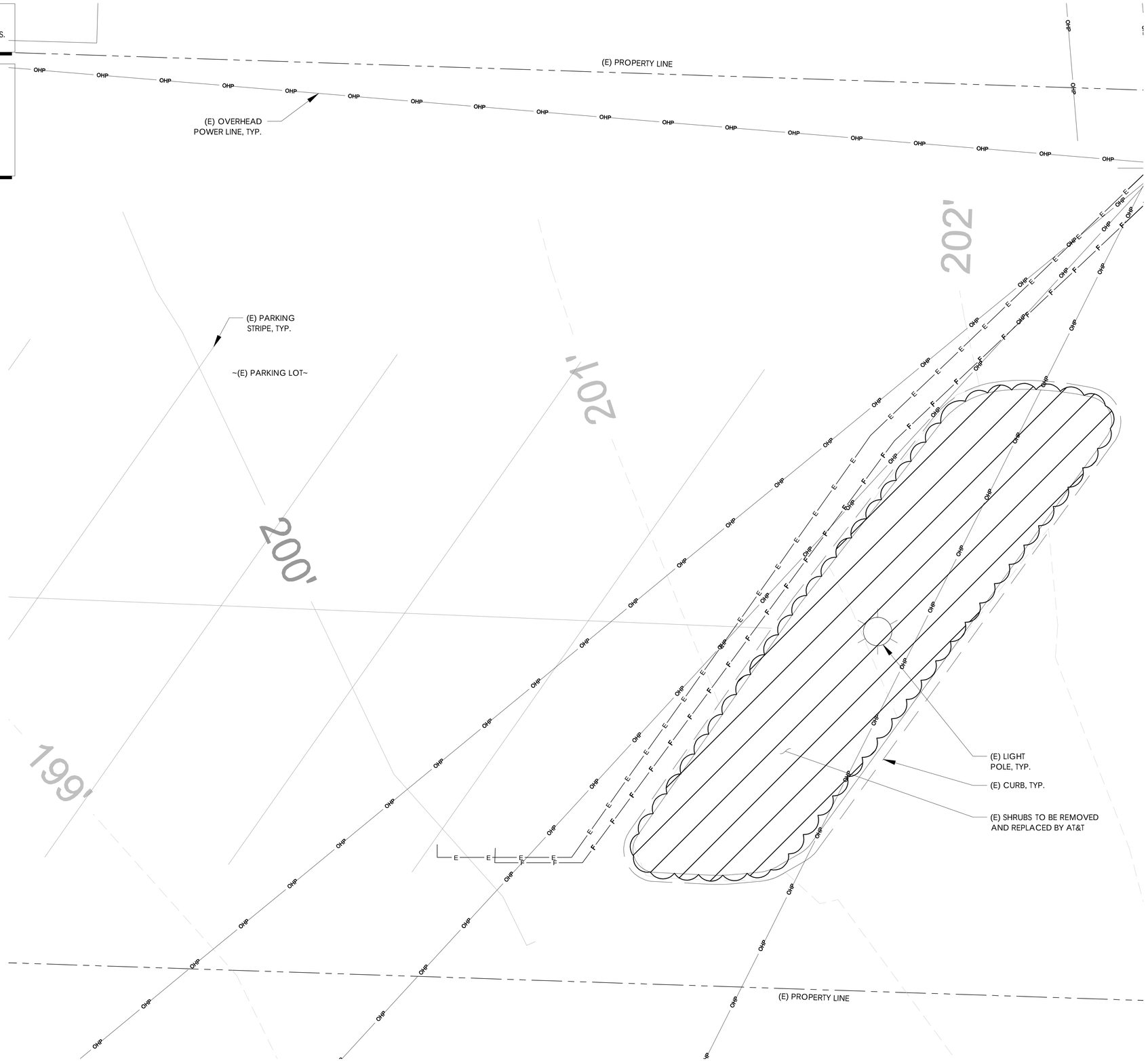
A-1

NOTES:
1. PRIOR TO EXCAVATION, CONTRACTOR SHALL CHECK THE AREA FOR UNDERGROUND FACILITIES.

NOTE:



TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.



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REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
DEMO PLAN

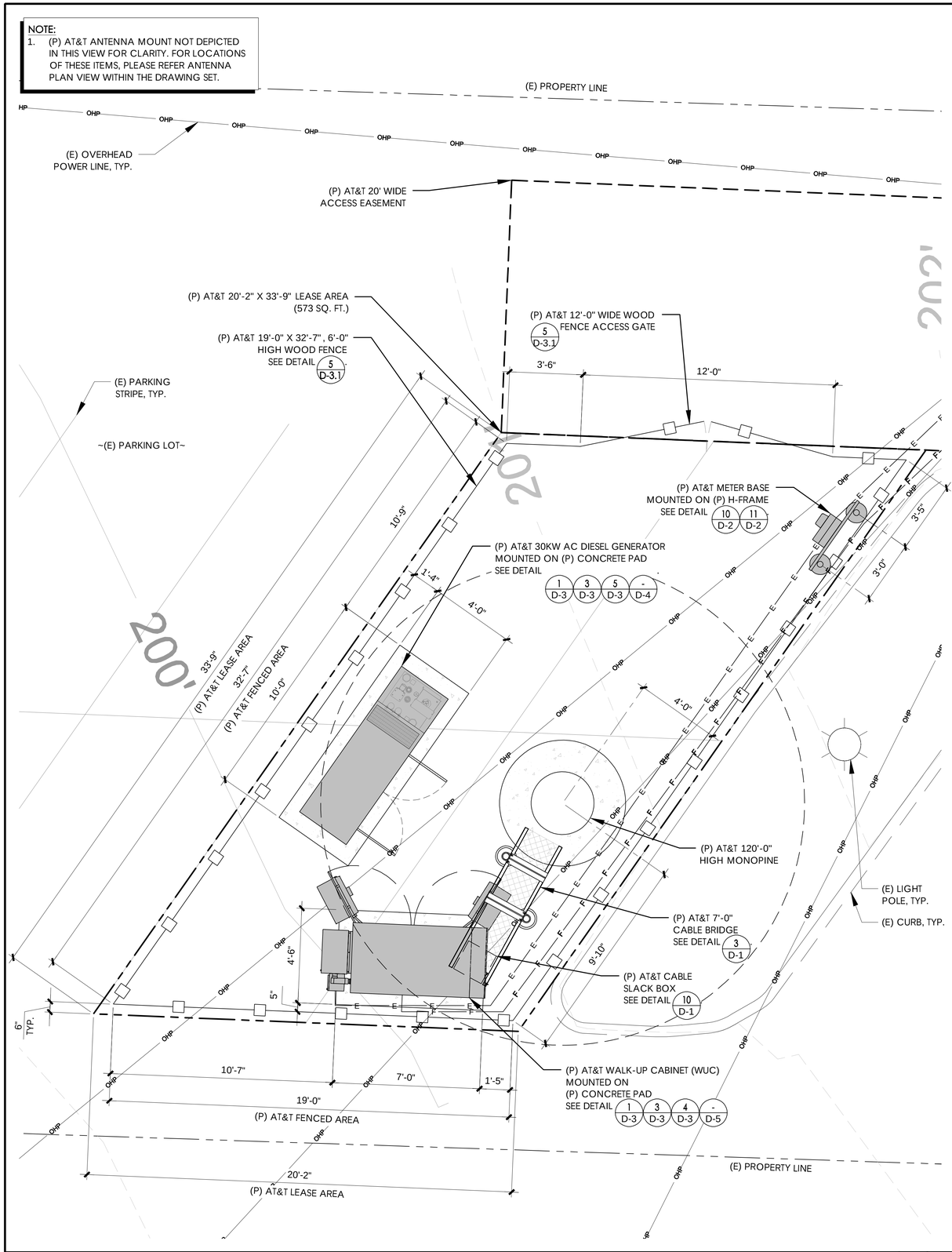
Sheet Number:
A-1.1

DEMO PLAN

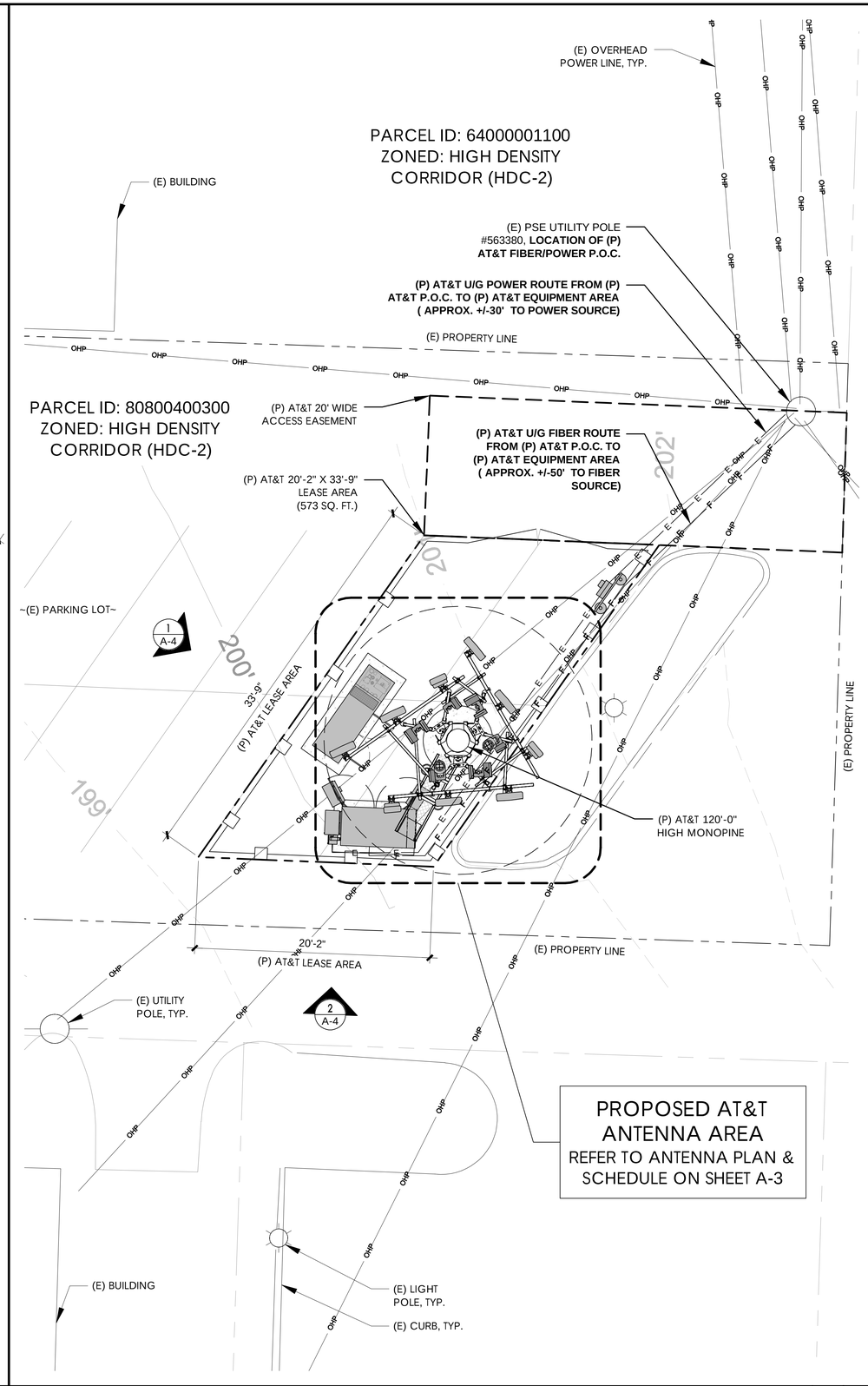
24"x36" SCALE: 3/8" = 1'-0" 2' 1' 0" 2'

NORTH

NOTE:
1. (P) AT&T ANTENNA MOUNT NOT DEPICTED IN THIS VIEW FOR CLARITY. FOR LOCATIONS OF THESE ITEMS, PLEASE REFER ANTENNA PLAN VIEW WITHIN THE DRAWING SET.



COMPOUND PLAN — 24"x36" SCALE: 3/8" = 1'-0" — 2



ENLARGED SITE PLAN — 24"x36" SCALE: 3/16" = 1'-0" — 1

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

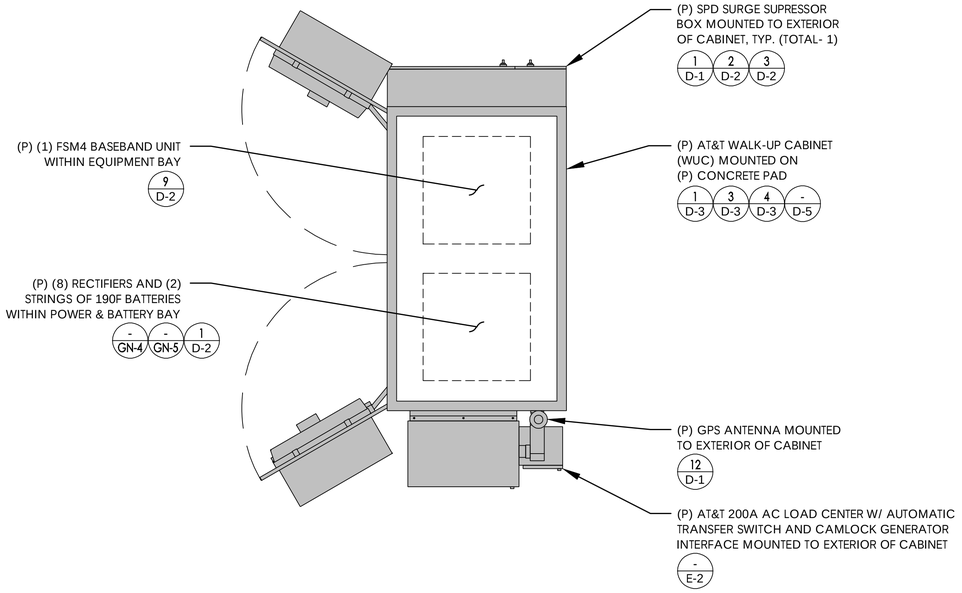
CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

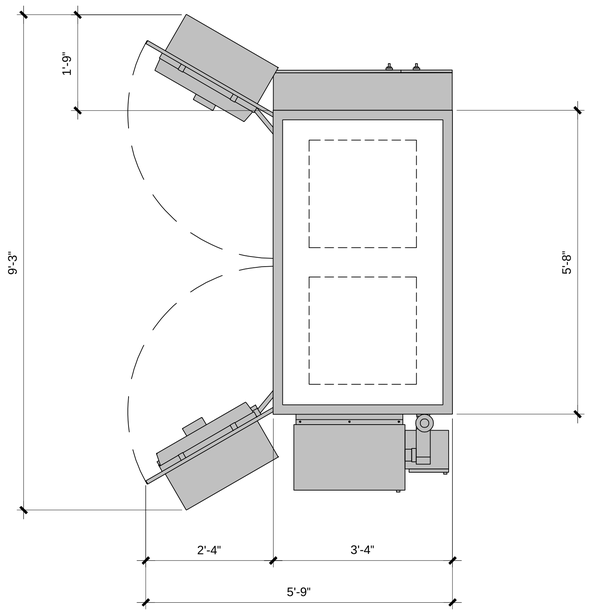
Sheet Title:
ENLARGED SITE PLAN & COMPOUND PLAN

Sheet Number:
A-2



EQUIPMENT PLAN (WALK-UP CABINET - WUC)

24"x36" SCALE: 3/4" = 1'-0" 1' 6" 0" 1' NORTH 2

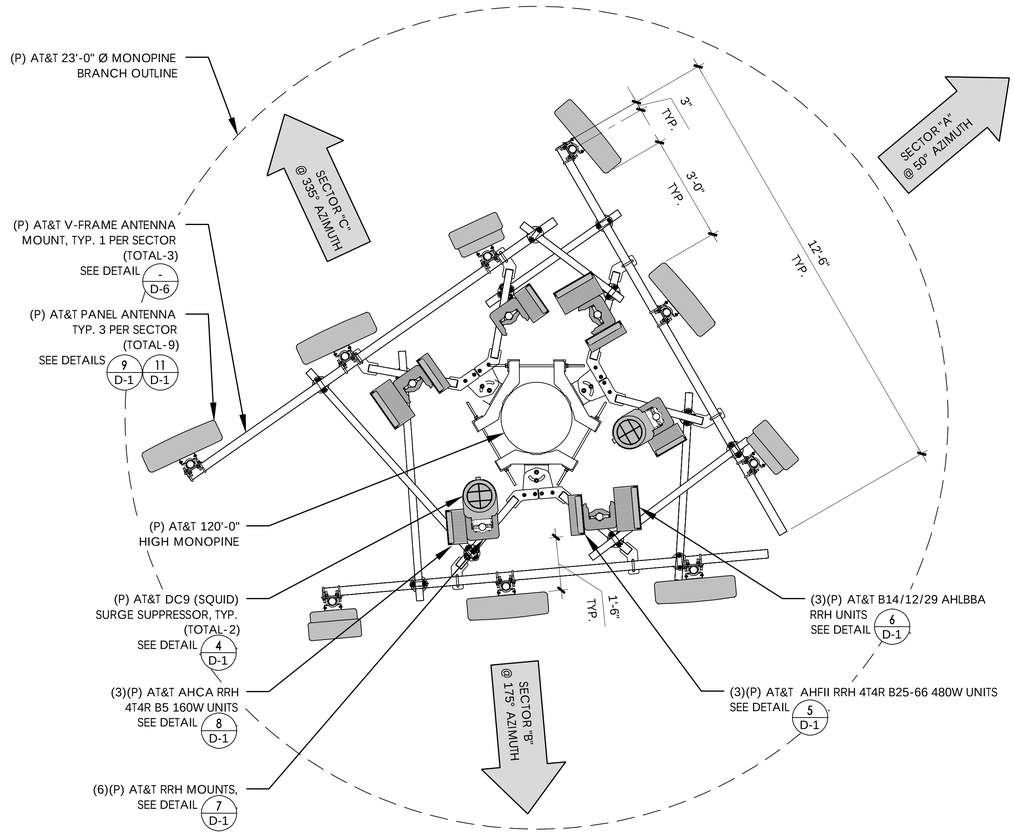


DIMENSION PLAN (WALK-UP CABINET - WUC)

24"x36" SCALE: 3/4" = 1'-0" 1' 6" 0" 1' NORTH 3

NOTE:
1. ALL RELEVANT STRUCTURAL ANALYSIS IS UNDER A SEPARATE PERMIT BY OTHERS.

NOTE:
1. ALL (P) CABLING AND EQUIPMENT MUST BE INSTALLED AND USED IN ACCORDANCE WITH THE PRODUCT'S INCLUDED INSTRUCTIONS, LISTING AND/OR LABELING REQUIREMENTS. PER NEC SECTION 110.3(B).
2. ALL (P) CABLING CONFORMS WITH, AND IS TO BE INSTALLED PER NEC 356.10 & 356.12.
3. RRU'S ARE STACKED AND STAGGERED TO FIT



(P) ANTENNA SCHEDULE

RFDS VERSION: FINAL/1.0
DATE UPDATED: 6/21/2022

	POS	AZIMUTH	RAD CENTER	MECHANICAL DOWNTILT	ANTENNA MAKE	ANTENNA MODEL	RRH MODEL	SURGE SUPPRESSOR	FEEDER TYPE	FEEDER LENGTH
SECTOR "A"	A1	50°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) TRI RRH 4T4R B12/14/29 370W AHLBBA (1) DUAL RRH 4T4R B25/66 480W AHFII	(2) DC9-48-60-24-8C-EV	(6) DC POWER & (2) 18 PAIR FIBER TRUNK CABLES	±135'
	A2	50°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) RRH 4T4R B5 160W AHCA			
	A3	50°	116'-0"	0	NOKIA	AEQK				
	A4									
SECTOR "B"	B1	175°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) TRI RRH 4T4R B12/14/29 370W AHLBBA (1) DUAL RRH 4T4R B25/66 480W AHFII			
	B2	175°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) RRH 4T4R B5 160W AHCA			
	B3	175°	116'-0"	0	NOKIA	AEQK				
	B4									
SECTOR "C"	C1	335°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) TRI RRH 4T4R B12/14/29 370W AHLBBA (1) DUAL RRH 4T4R B25/66 480W AHFII			
	C2	335°	116'-0"	0	CELLMAX	CMA - UBTULBULBHH-6517-17-21-21	(1) RRH 4T4R B5 160W AHCA			
	C3	335°	116'-0"	0	NOKIA	AEQK				
	C4									

ANTENNA PLAN & SCHEDULE

24"x36" SCALE: 1/2" = 1'-0" 2' 1' 0" 2' NORTH 1

PREPARED FOR

AT&T

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19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

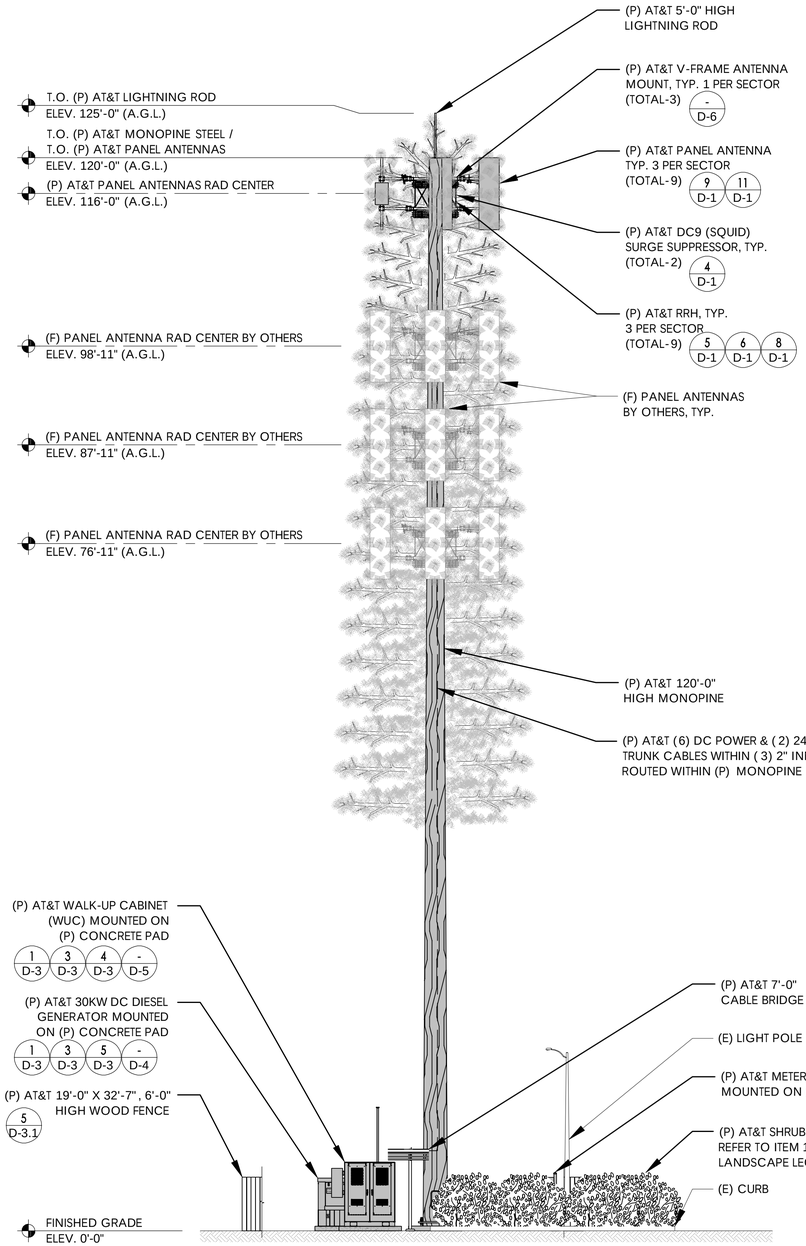
Licensor:

Sheet Title:
ANTENNA PLAN & SCHEDULE & EQUIPMENT PLAN

Sheet Number:
A-3

NOTE:
1. ALL RELEVANT STRUCTURAL ANALYSIS IS UNDER A SEPARATE PERMIT BY OTHERS.

NOTE:
1. AT&T RRU'S, TMA'S, AND SURGE ARRESTORS NOT DEPICTED IN THIS VIEW FOR CLARITY. FOR LOCATIONS OF THESE ITEMS, PLEASE REFER TO PREVIOUS PLANS VIEWS WITHIN THE DRAWING SET



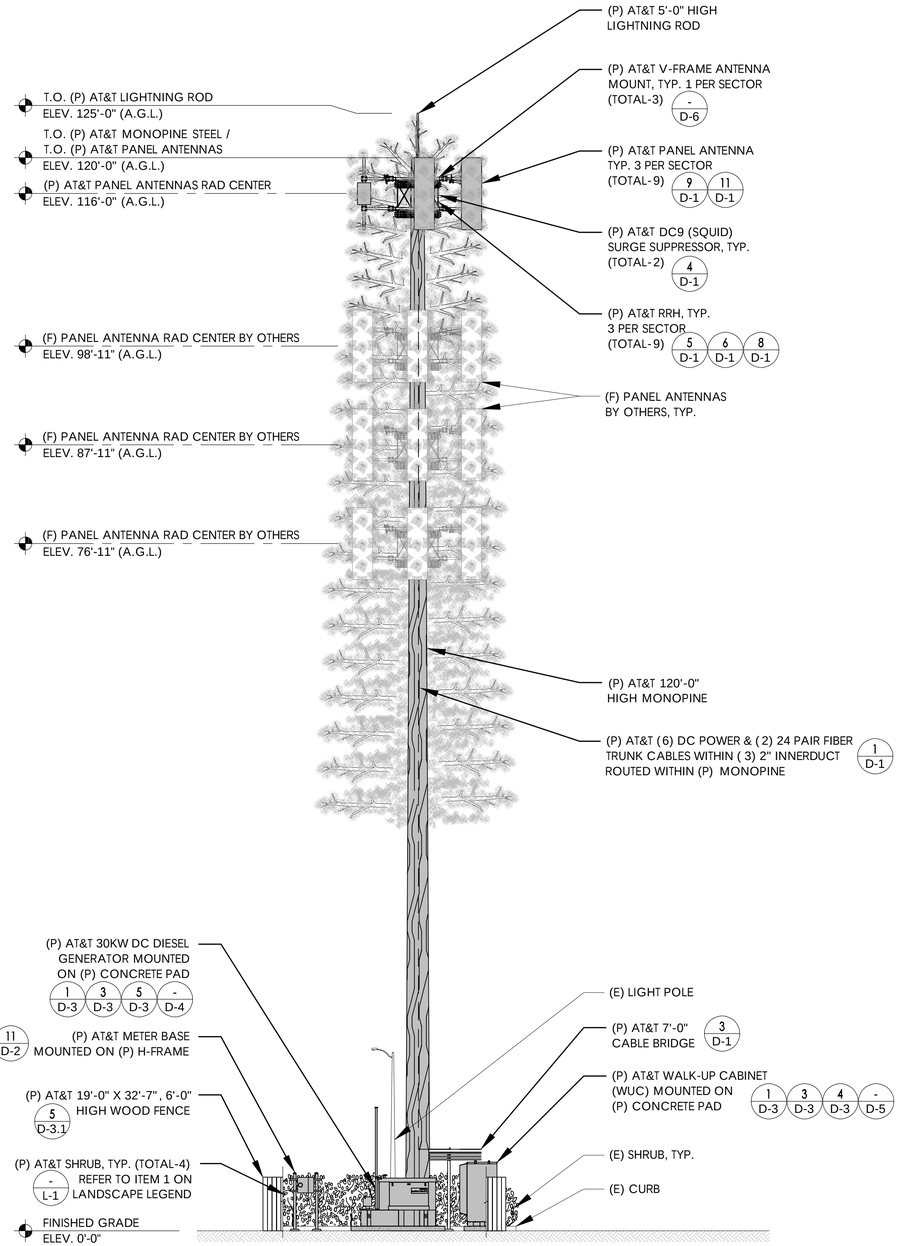
WEST ELEVATION

24"x36" SCALE: 1/8" = 1'-0" 8' 6' 4' 2' 0" 8'

2

NOTE:
1. ALL RELEVANT STRUCTURAL ANALYSIS IS UNDER A SEPARATE PERMIT BY OTHERS.

NOTE:
1. AT&T RRU'S, TMA'S, AND SURGE ARRESTORS NOT DEPICTED IN THIS VIEW FOR CLARITY. FOR LOCATIONS OF THESE ITEMS, PLEASE REFER TO PREVIOUS PLANS VIEWS WITHIN THE DRAWING SET



SOUTH ELEVATION

24"x36" SCALE: 1/8" = 1'-0" 8' 6' 4' 2' 0" 8'

1

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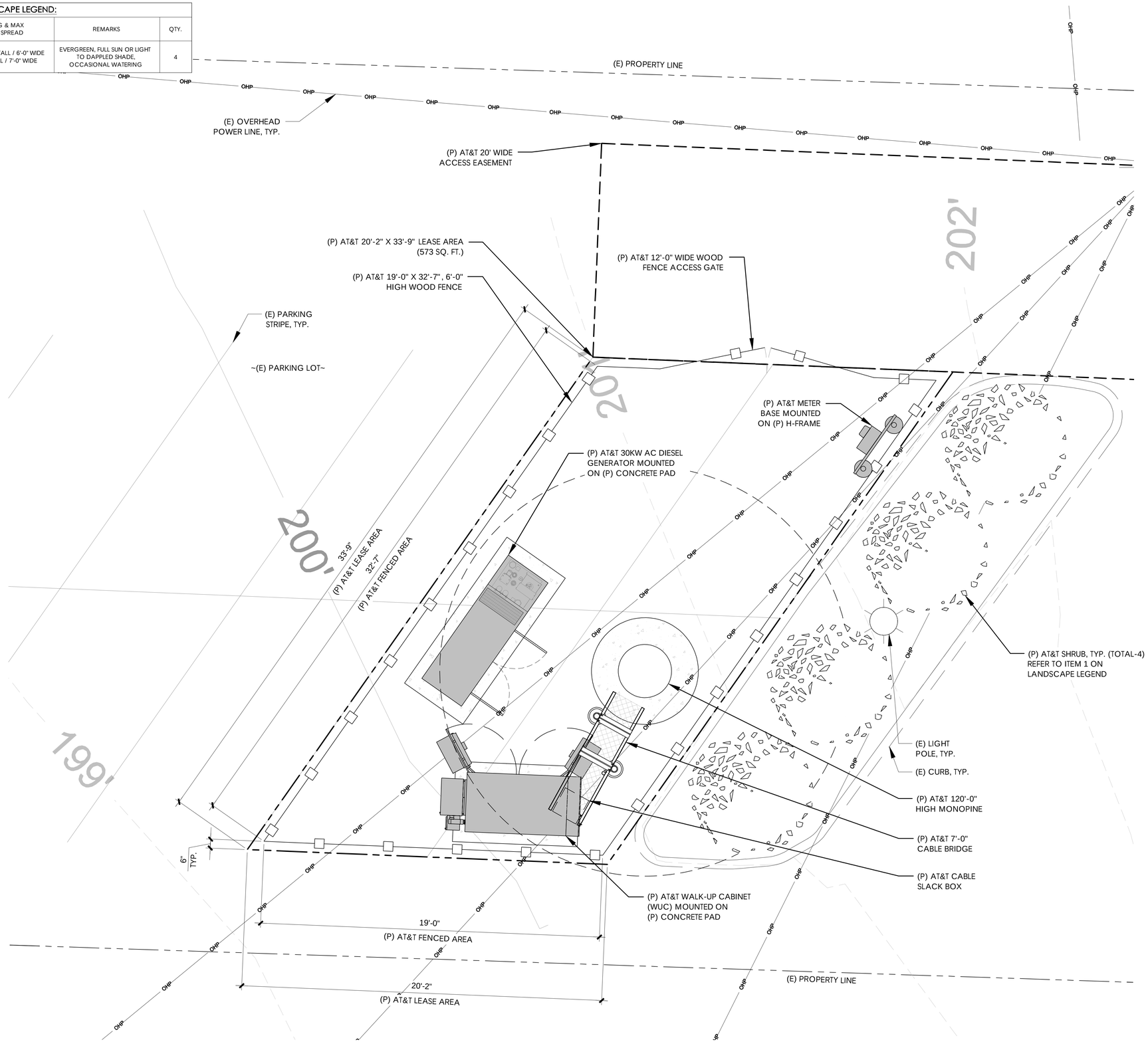
ELEVATIONS

Sheet Number:

A-4

LANDSCAPE LEGEND:				
ITEM	BOTANICAL / COMMON NAME	PLANTING & MAX HEIGHT / SPREAD	REMARKS	QTY.
1	BERBERIS X GLADWYNENSIS 'WILLIAM PENN' / WILLIAM PENN BARBERRY	PLANTING: 5'-0" TALL / 6'-0" WIDE MAX: 6'-0" TALL / 7'-0" WIDE	EVERGREEN, FULL SUN OR LIGHT TO DAPPLED SHADE, OCCASIONAL WATERING	4



LANDSCAPE PLAN

24"x36" SCALE: 3/8" = 1'-0" 2' 1' 0" 2' NORTH 1

PREPARED FOR

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Licensor:

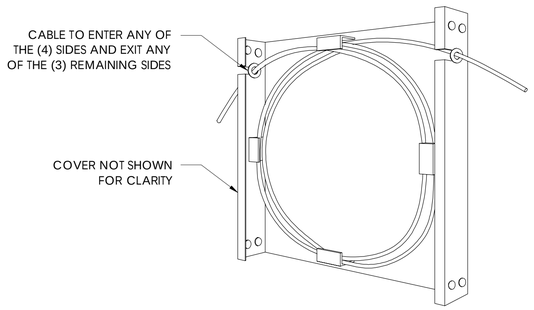
Sheet Title:
LANDSCAPE PLAN

Sheet Number:
L-1

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS

MFG: RAYCAP
MODEL: FB-15-ABOX CEQ 10505
HEIGHT 4.0 IN
DEPTH: 18.0 IN
WIDTH: 18.0 IN

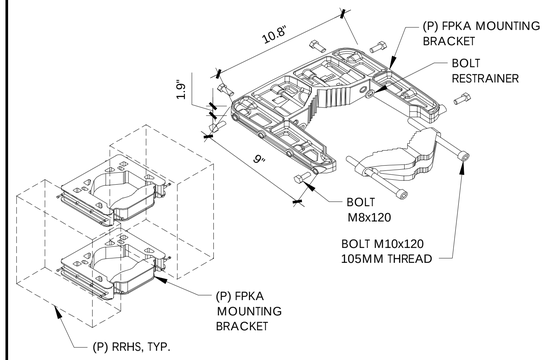


10 CABLE SLACK BOX
N.T.S.

SPECIFICATIONS

MFG: NOKIA
MODEL: FPKA

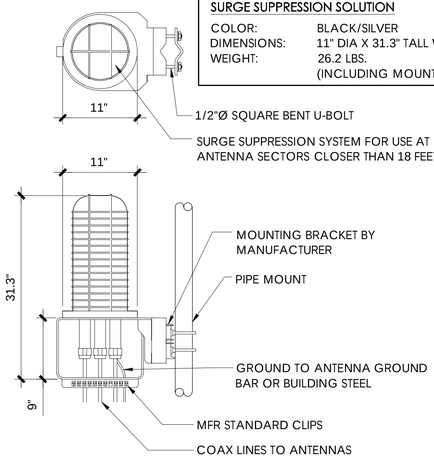
(OR APPROVED EQUIVALENT)



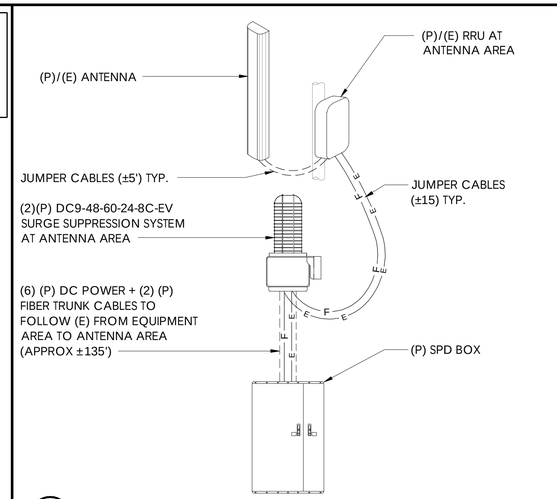
7 RRU MOUNTING BRACKET (BACK TO BACK)
N.T.S.

RAYCAP DC9-48-60-24-8C-EV SURGE SUPPRESSION SOLUTION

COLOR: BLACK/SILVER
DIMENSIONS: 11" DIA X 31.3" TALL W/ 9" BASE
WEIGHT: 26.2 LBS. (INCLUDING MOUNTING HARDWARE)



4 DC9-48-60-24-8C-EV SURGE SUPPRESSOR
N.T.S.



1 NEW POWER / FIBER WIRING SCHEMATIC
N.T.S.

PREPARED FOR

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Sheet Title:

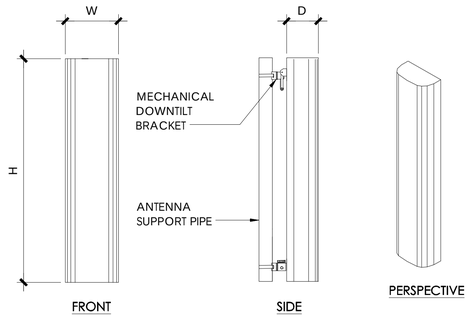
DETAILS

Sheet Number:

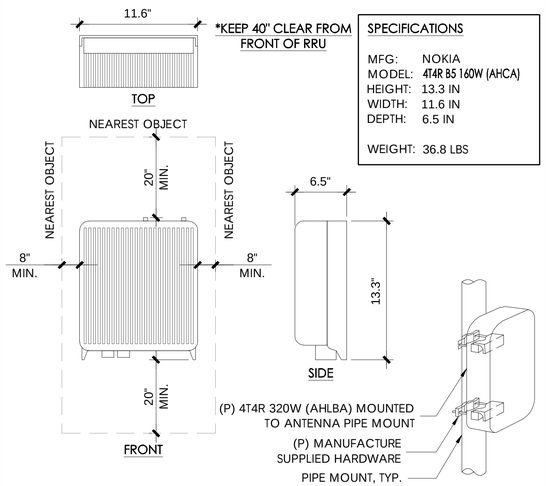
D-1

SPECIFICATIONS:

MFG / MODEL / PORT: CELLMAX / UBTULBULBHH-6517-17-21-21 / 8-PORT
DIMENSIONS: 96.5" H X 27.2" W X 7.7" D
WEIGHT: 112 LBS (W/O MOUNTING KIT)



11 ANTENNA SPECIFICATION
N.T.S.

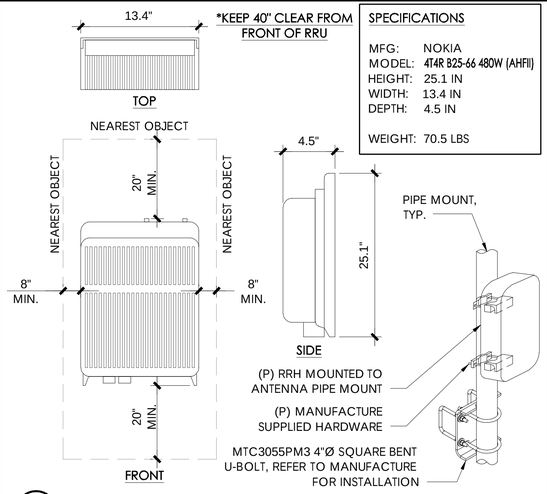


SPECIFICATIONS

MFG: NOKIA
MODEL: 4T4R B5 160W (AHCA)
HEIGHT: 13.3 IN
WIDTH: 11.6 IN
DEPTH: 6.5 IN

WEIGHT: 36.8 LBS

8 AIRSCALE DUAL BAND RRH 4T4R B5 160W (AHCA)
N.T.S.



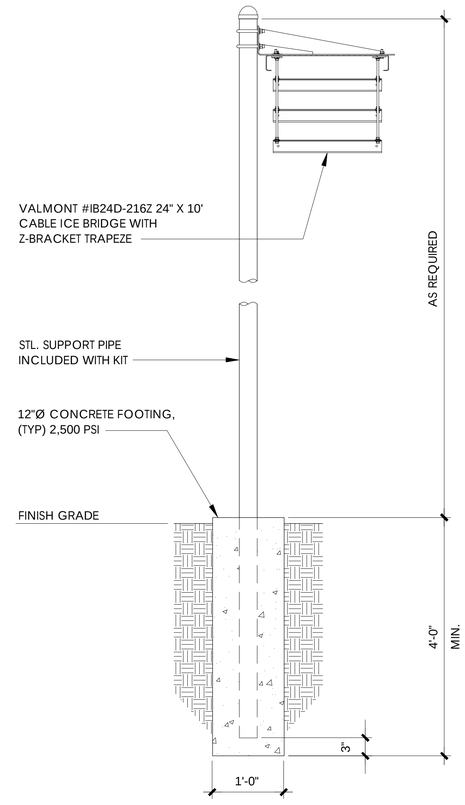
SPECIFICATIONS

MFG: NOKIA
MODEL: 4T4R B25-66 480W (AHFII)
HEIGHT: 25.1 IN
WIDTH: 13.4 IN
DEPTH: 4.5 IN

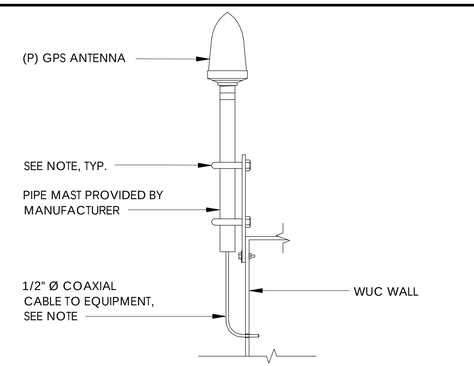
WEIGHT: 70.5 LBS

5 AIRSCALE DUAL BAND RRH 4T4R B25-66 480W (AHFII)
N.T.S.

MOUNTING NOTES:
ICE BRIDGE KITS TO BE ASSEMBLED IN ACCORD WITH THE MANUFACTURER'S GUIDELINES AND REQUIREMENTS.



3 CABLE BRIDGE DETAIL
N.T.S.

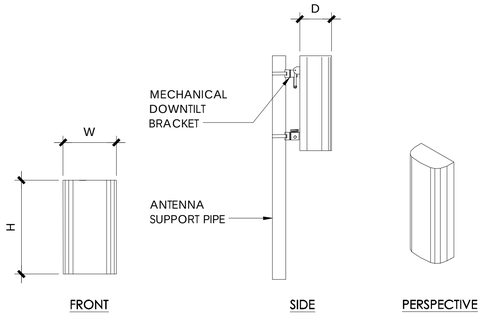


MOUNTING NOTE:
1. FASTEN GPS TO WUC ACCORDING TO WUC DRAWINGS (BY OTHERS)
2. ROUTE GPS ANTENNA CABLES THROUGH THE 4-PORT ROXTEX MULTI-PORT CABLE ENTRY PROVIDED ON THE UPPER SECTION OF THE CABINET SIDE. SEAL PER ROXTEC INSTRUCTIONS.

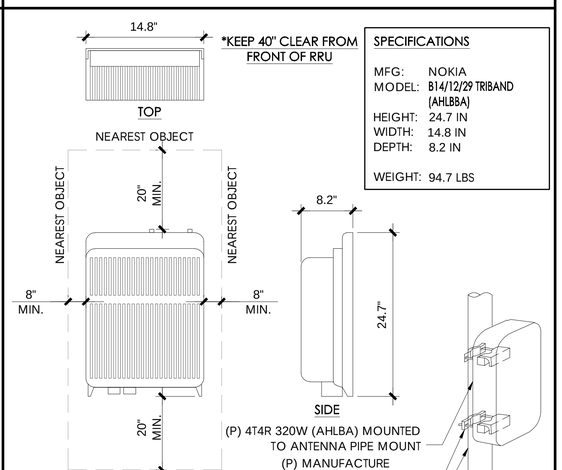
12 GPS MOUNTING DETAIL
N.T.S.

SPECIFICATIONS:

MFG / MODEL / PORT: NOKIA / AEQK / 2-PORT
DIMENSIONS: 29.5" H X 17.7" W X 9.5" D
WEIGHT: 99.2 LBS (W/O MOUNTING KIT)



9 ANTENNA SPECIFICATION
N.T.S.

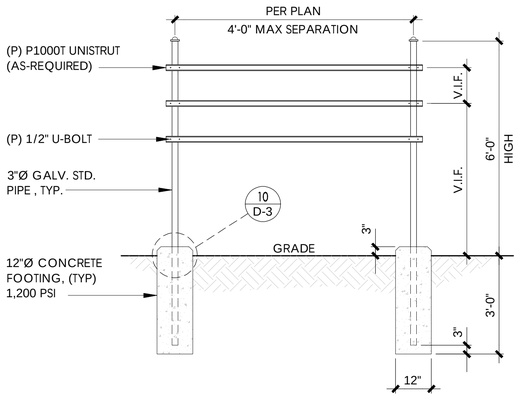


SPECIFICATIONS

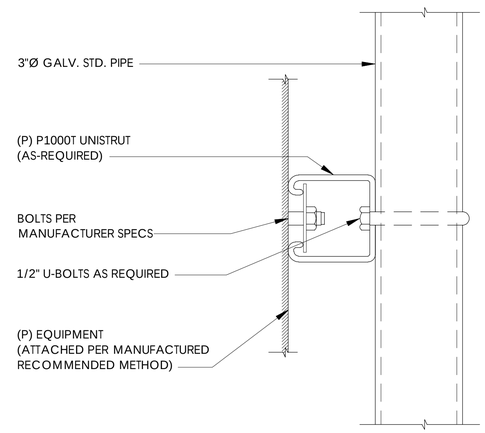
MFG: NOKIA
MODEL: B14/12/29 TRIBAND (AHLBBA)
HEIGHT: 24.7 IN
WIDTH: 14.8 IN
DEPTH: 8.2 IN

WEIGHT: 94.7 LBS

6 NOKIA B14/12/29 TRIBAND RRH (AHLBBA)
N.T.S.



10 H-FRAME DETAIL
N.T.S.



11 EQUIPMENT MOUNTING TO H-FRAME DETAIL
N.T.S.

12 NOT USED
N.T.S.

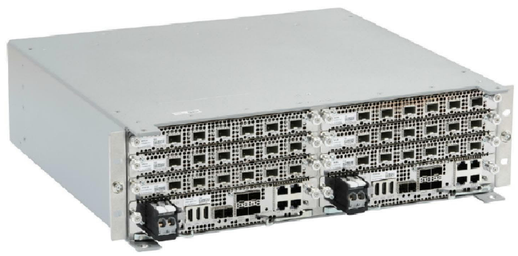
8 NOT USED
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS

MFG: NOKIA
MODEL: FSM4 BASEBAND
HEIGHT 5.04 IN
DEPTH: 15.75 IN
WIDTH: 17.6 IN

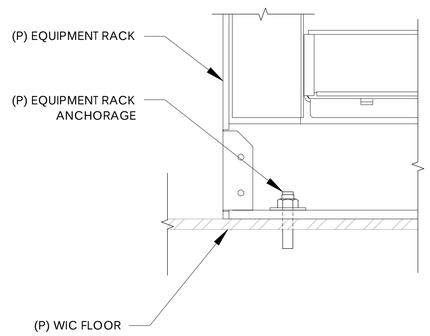
WEIGHT: 22.27 LBS (MIN.)
51.81 LBS (MAX.)



9 FSM4 BASE BAND DETAIL
N.T.S.

5 NOT USED
N.T.S.

NOTE:
1. EQUIPMENT RACK INSTALLED AND ANCHORED IN ACCORDANCE WITH THE MANUFACTURER'S GUILDLINE AND REQUIREMENT



6 RACK ANCHORAGE
N.T.S.

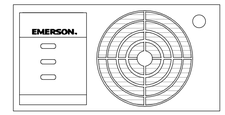
NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

HIGH EFFICIENCY, -48 VDC,
40 A/2000 W, 208/240 VAC SINGLE-PHASE
INPUT (DERATES AT 120 VAC)

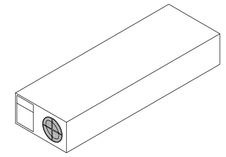
EQUIPMENT SPECIFICATIONS

MFG: EMERSON
MODEL: R48-2000E3
HEIGHT: 1.70 IN
WIDTH: 3.30 IN
DEPTH: 9.90 IN

WEIGHT: 2.49 LBS

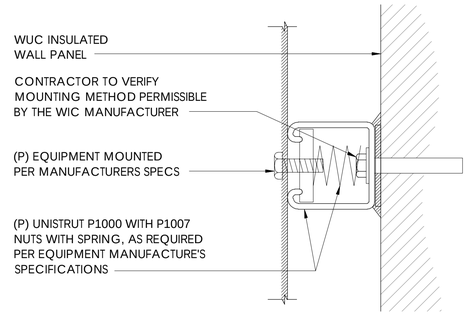


FRONT VIEW



ISOMETRIC VIEW

1 RECTIFIER MODULE
N.T.S.

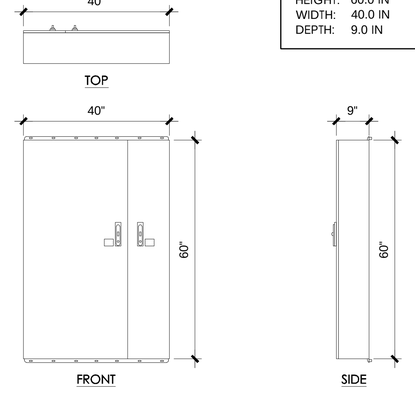


2 EQUIPMENT MOUNTING DETAIL
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS

MFG: VERTIV
MODEL: SPD BOX F1011259
HEIGHT: 60.0 IN
WIDTH: 40.0 IN
DEPTH: 9.0 IN



3 SPD BOX
N.T.S.

PREPARED FOR

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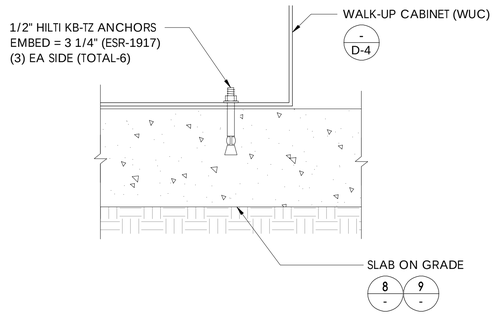
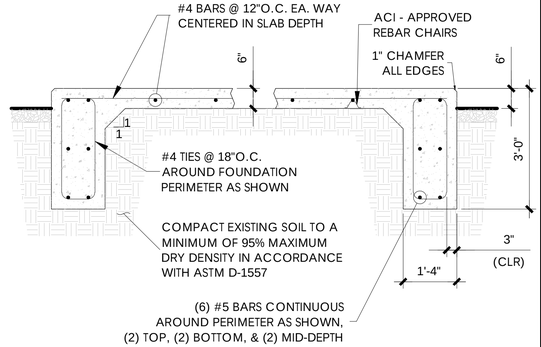
D-2

10 NOT USED
N.T.S.

7 NOT USED
N.T.S.



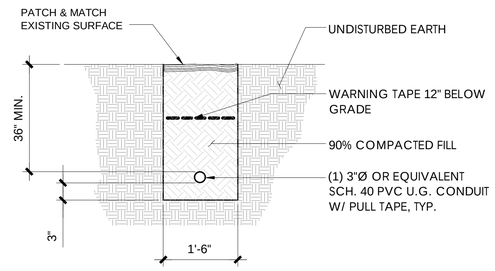
4 WALK-UP CABINET (WUC) ANCHORAGE DETAIL
N.T.S.



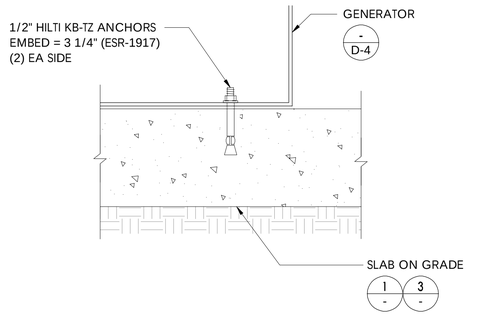
1 CONCRETE FOUNDATION SECTION
N.T.S.

11 NOT USED
N.T.S.

NOTE:
1. VERIFY (E) CONDUIT LOCATION AND CONDITION. DO NOT DAMAGE (E) CONDUIT. (E) CONDUIT TO BE ENCASED IN CONCRETE IF UNDER (N) CONCRETE PAD FOOTING.



8 POWER TRENCH DETAIL
N.T.S.



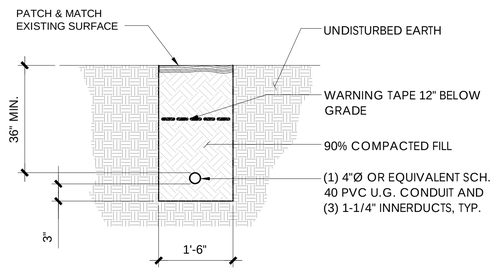
5 GENERATOR ANCHORAGE DETAIL
N.T.S.

SHELTER FOUNDATION NOTES:
1. CONTRACTOR SHALL VERIFY EXTENTS OF FOUNDATIONS AND COORDINATE WITH EQUIPMENT WUC & GENERATOR DRAWINGS. (BY OTHERS)
2. FASTEN EQUIPMENT WUC & GENERATOR TO FOUNDATION ACCORDING TO EQUIPMENT WUC & GENERATOR DRAWINGS (BY OTHERS)
3. COORDINATE CONSTRUCTION OF WUC & GENERATOR FOOTING WITH FOOTING OF ADJACENT STRUCTURES. (IF APPLICABLE)

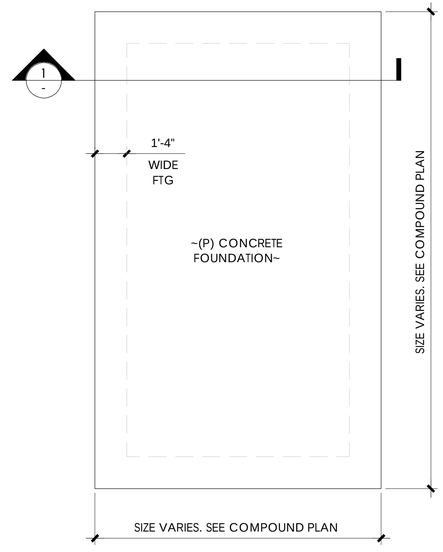
12 NOT USED
N.T.S.

9 NOT USED
N.T.S.

NOTE:
1. VERIFY (E) CONDUIT LOCATION AND CONDITION. DO NOT DAMAGE (E) CONDUIT. (E) CONDUIT TO BE ENCASED IN CONCRETE IF UNDER (N) CONCRETE PAD FOOTING.



6 TELCO TRENCH DETAIL
N.T.S.



3 CONCRETE FOUNDATION PLAN
N.T.S.

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

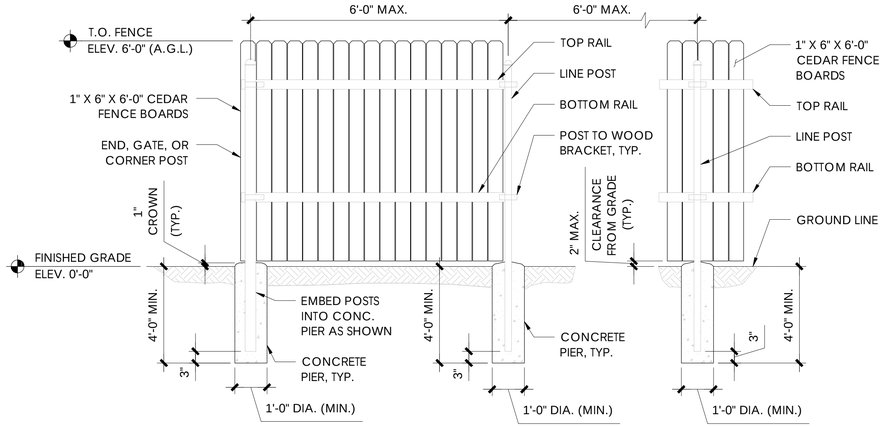
Sheet Title:
DETAILS

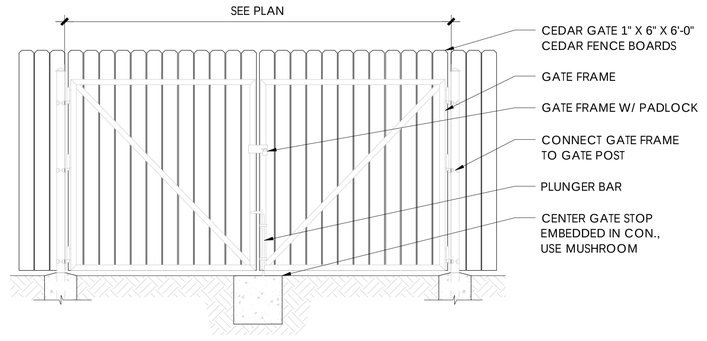
Sheet Number:
D-3

10 NOT USED
N.T.S.

7 NOT USED
N.T.S.

NOTES:
1. POST PIPE SIZES ARE FENCE INDUSTRY STANDARD. ALL PIPE TO BE GALV. (HOT-DIP, ASTM A120 GRADE "A" STEEL). CROSS BRACE ALL POSTS EXCEPT INTERMEDIATES.
2. FENCE LINE GRADE SHALL BE AS UNIFORM AS POSSIBLE SO THE TOP OF THE FENCE HAS A UNIFORM, SMOOTH APPEARANCE.
3. MINOR GRADING WORK ALONG THE FENCE MAY BE REQUIRED TO ACHIEVE UNIFORM FENCE GRADE.





5 CEDAR FENCE DETAIL
N.T.S.

11 NOT USED
N.T.S.

8 NOT USED
N.T.S.

12 NOT USED
N.T.S.

9 NOT USED
N.T.S.

6 NOT USED
N.T.S.

3 NOT USED
N.T.S.

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
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Licensor:

Sheet Title:
DETAILS

Sheet Number:
D-3.1

NOTE:
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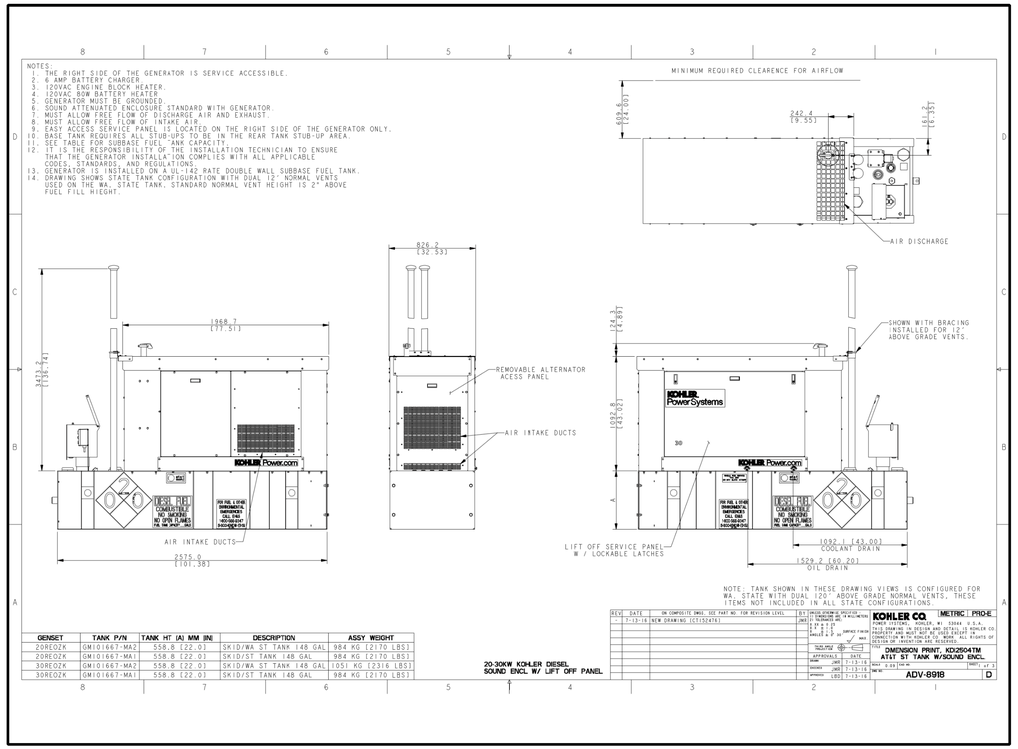
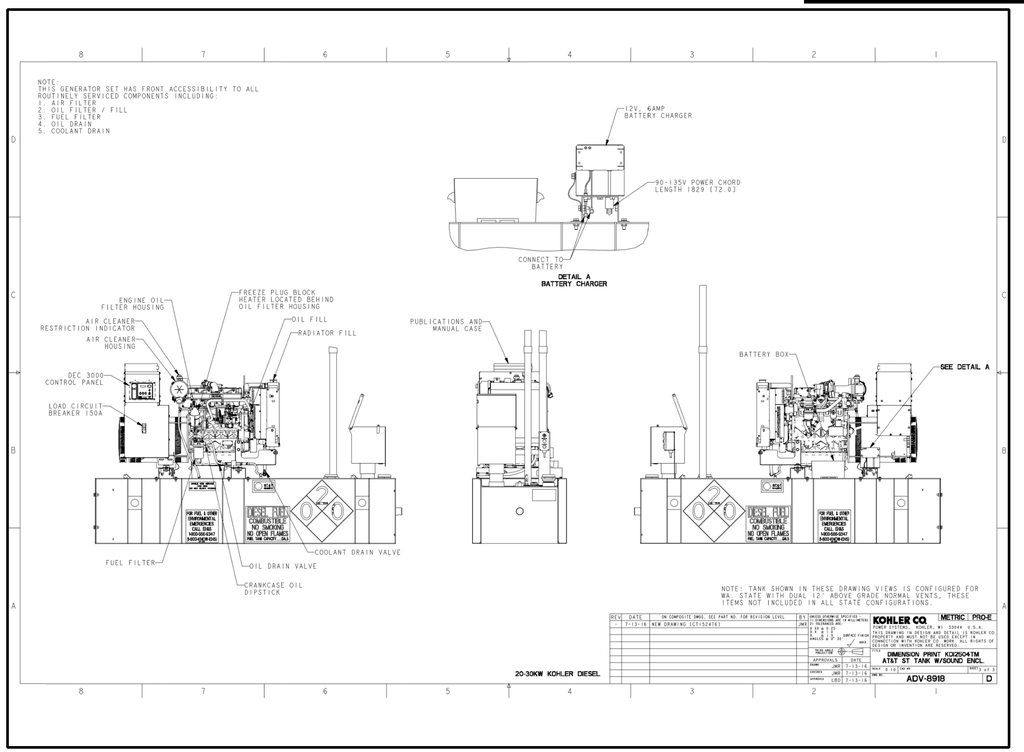


GENSET	TANK P/N	TANK HT (A) MM (IN)	DESCRIPTION	ASSY WEIGHT
20REOZK	GM101667-MA2	558.8 [22.0]	SKID/WA ST TANK 148 GAL	984 KG [2170 LBS]
20REOZK	GM101667-MA1	558.8 [22.0]	SKID/ST TANK 148 GAL	984 KG [2170 LBS]
30REOZK	GM101667-MA2	558.8 [22.0]	SKID/WA ST TANK 148 GAL	1051 KG [2316 LBS]
30REOZK	GM101667-MA1	558.8 [22.0]	SKID/ST TANK 148 GAL	984 KG [2170 LBS]

20-30KW KOHLER DIESEL
SOUND ENCL W/ LIFT OFF PANEL

REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL
-	7-13-16	NEW DRAWING (CT152476)

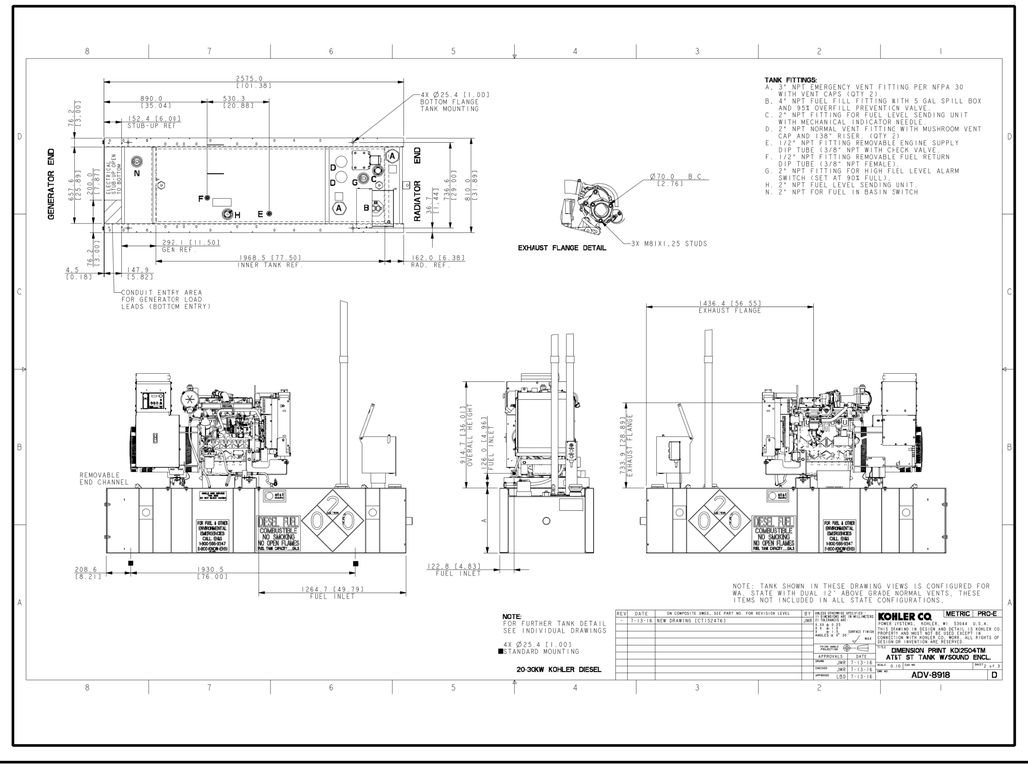
KOHLER CO. | METRIC | PRO-E
KOHLER, WISCONSIN
DIMENSION PRINT, KD/Z504TM
AT&T ST TANK W/SOUND ENCL.
ADV-8918 D



20-30KW KOHLER DIESEL

REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL
-	7-13-16	NEW DRAWING (CT152476)

KOHLER CO. | METRIC | PRO-E
KOHLER, WISCONSIN
DIMENSION PRINT, KD/Z504TM
AT&T ST TANK W/SOUND ENCL.
ADV-8918 D



NOTE:
FOR FURTHER TANK DETAIL SEE INDIVIDUAL DRAWINGS

4X Ø25.4 [1.00]
■ STANDARD MOUNTING

20-30KW KOHLER DIESEL

REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL
-	7-13-16	NEW DRAWING (CT152476)

KOHLER CO. | METRIC | PRO-E
KOHLER, WISCONSIN
DIMENSION PRINT, KD/Z504TM
AT&T ST TANK W/SOUND ENCL.
ADV-8918 D

PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

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J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

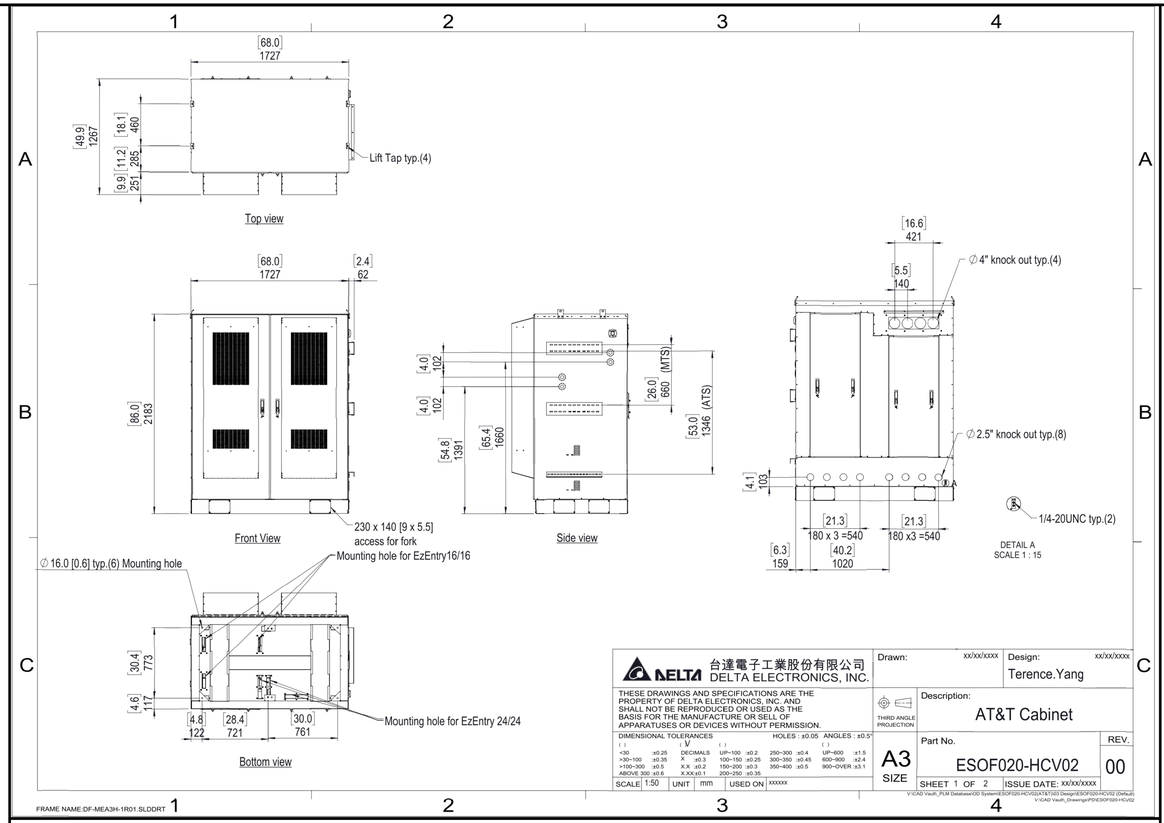
CHECKED BY:

REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

Sheet Title:
GENERATOR DETAILS

Sheet Number:
D-4



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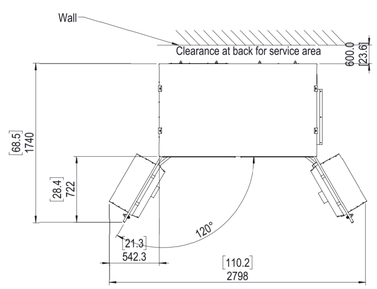
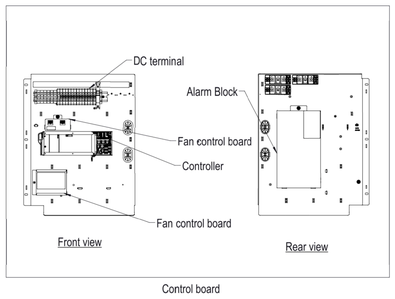
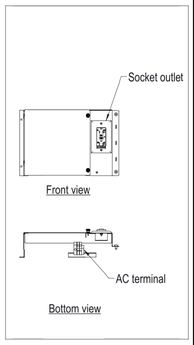
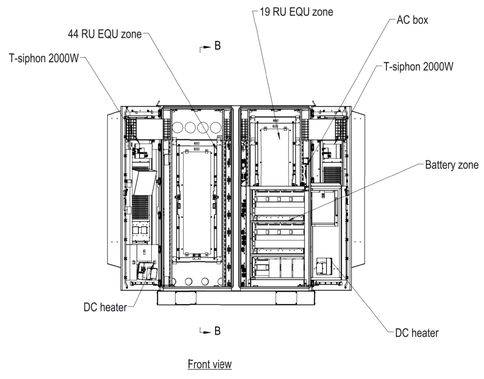
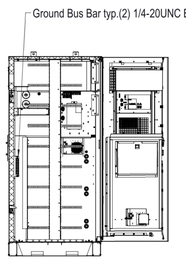
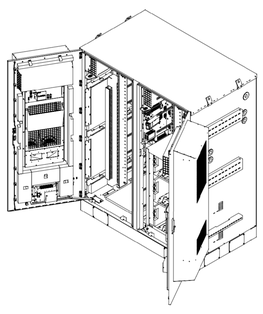












PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

CHECKED BY:

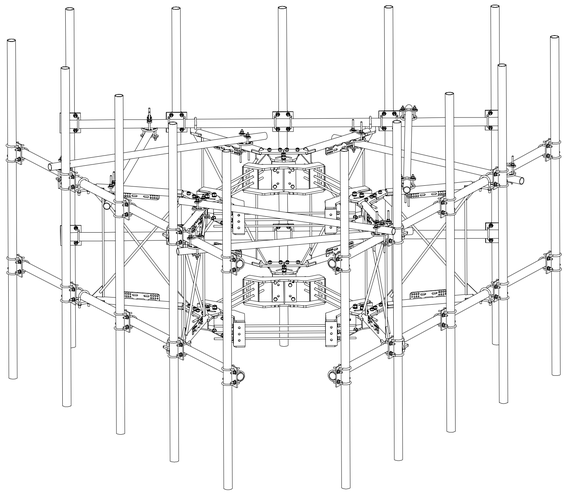
REV	DATE	DESCRIPTION
A	11/07/22	90% CD

Licensor:

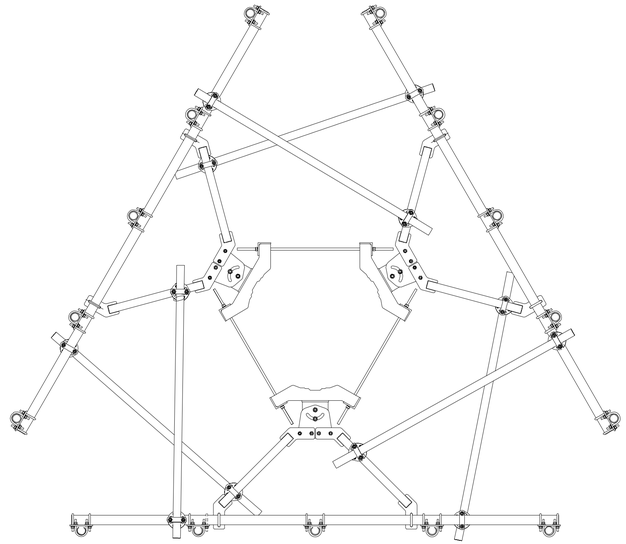
Sheet Title:
WALK-IN CABINET (WIC) DETAILS

Sheet Number:
D-5

NOTE:
1. FOR INFORMATION PURPOSES ONLY.



PARTS LIST						
ITEM	QT	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	6	X-RMBP	RING MOUNT BENT PLATE CONNECTION	15 1/2 in	17.02	102.13
3	6	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	95.30
4	6	X-VFAW	SUPPORT ARM		71.41	428.44
5	30	SCX2	CROSSOVER PLATE	7 in	4.80	143.89
6	6	P284	2-3/8" X 84" SCH 40 GALVANIZED PIPE	84 in	26.91	161.47
7	15	P30120	2-7/8" x 120" (2-1/2" SCH. 40) GALVANIZED PIPE	120 in	58.07	870.99
8	6	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	461.62
9	12	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.51	30.08
10	24	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.92	22.12
11	12	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	5.75
12	18	G34FW	3/4" HDG USS FLATWASHER		0.06	1.06
13	12	G34LW	3/4" HDG LOCKWASHER		0.04	0.51
14	12	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	2.55
15	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		4.18	75.27
16	12	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	13.79
17	24	A582112	5/8" x 2-1/2" HDG A325 HEX BOLT	2 1/2 in	0.33	8.02
18	24	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	7.50
19	108	G58LW	5/8" HDG LOCKWASHER		0.03	2.82
20	108	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	14.03
21	120	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	88.64
22	24	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	9.83
23	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
24	288	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	9.82
25	288	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	4.00
26	288	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	20.63
					TOTAL WT. #	2999.58



TOLERANCE NOTES
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

DESCRIPTION: THREE SECTORS HEAVY WLL FRAME AND MONOPOLE ATTACHMENT HARDWARE WITH FIVE MOUNTING PIPES

SITE PRO 1 — Engineering Support Team: 1-888-753-7446 — A valmont COMPANY
Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CEK 10/26/2018		VFA12-M3-WLL	1 OF 4
CLASS SUB: 81 02	DRAWING USAGE: CUSTOMER	CHECKED BY: BMC 10/29/2018	DWG. NO.: VFA12-M3-WLL	

PROPRIETARY NOTE
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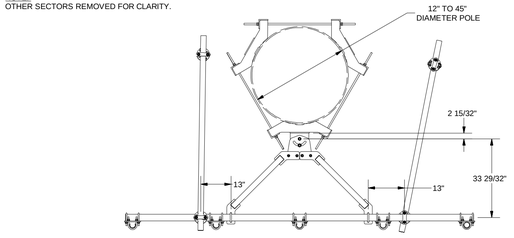
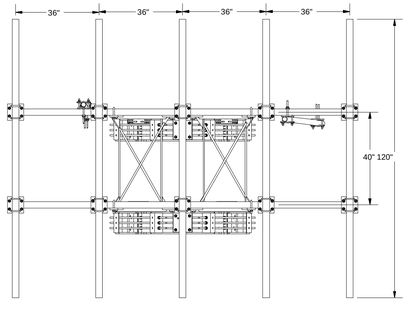
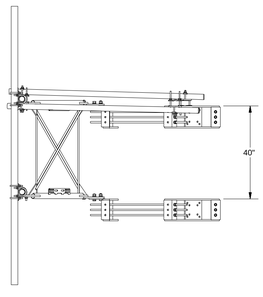
NOTE:
OTHER SECTORS REMOVED FOR CLARITY.







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	CEK 10/26/2018		VFA12-M3-WLL	3 OF 4
CLASS SUB: 81 02	DRAWING USAGE: CUSTOMER	CHECKED BY: BMC 10/29/2018	DWG. NO.: VFA12-M3-WLL	

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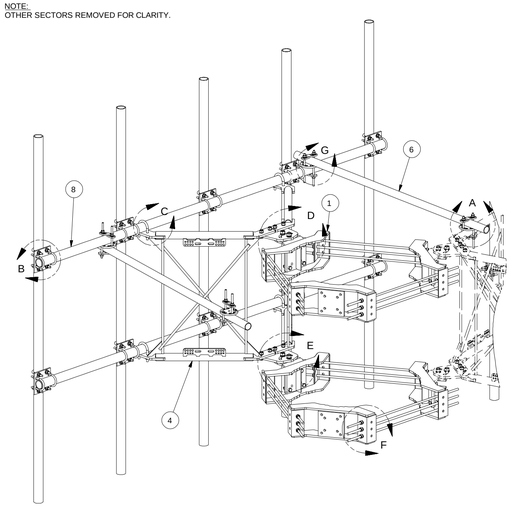

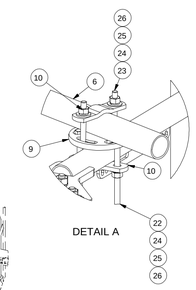

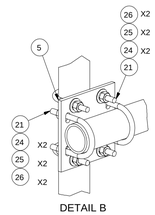

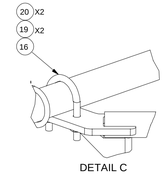

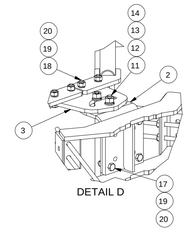

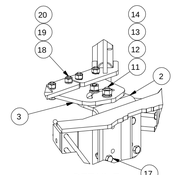

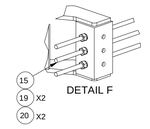

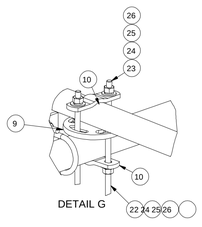

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CLASS SUB: 81 02	DRAWING USAGE: CUSTOMER	CHECKED BY: BMC 10/29/2018	DWG. NO.: VFA12-M3-WLL	

PROPRIETARY NOTE
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PREPARED FOR

AT&T

NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
19801 SW 72ND AVE., STE. 200
TUALATIN, OR 97062

Vendor:

J5 INFRASTRUCTURE PARTNERS

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-068910

Issued For:

OL0734
OLYMPIA MISSION CREEK

1818 4TH AVENUE EAST
OLYMPIA, WA 98506
PARCEL ID: 80800400300

DRAWN BY: JBE

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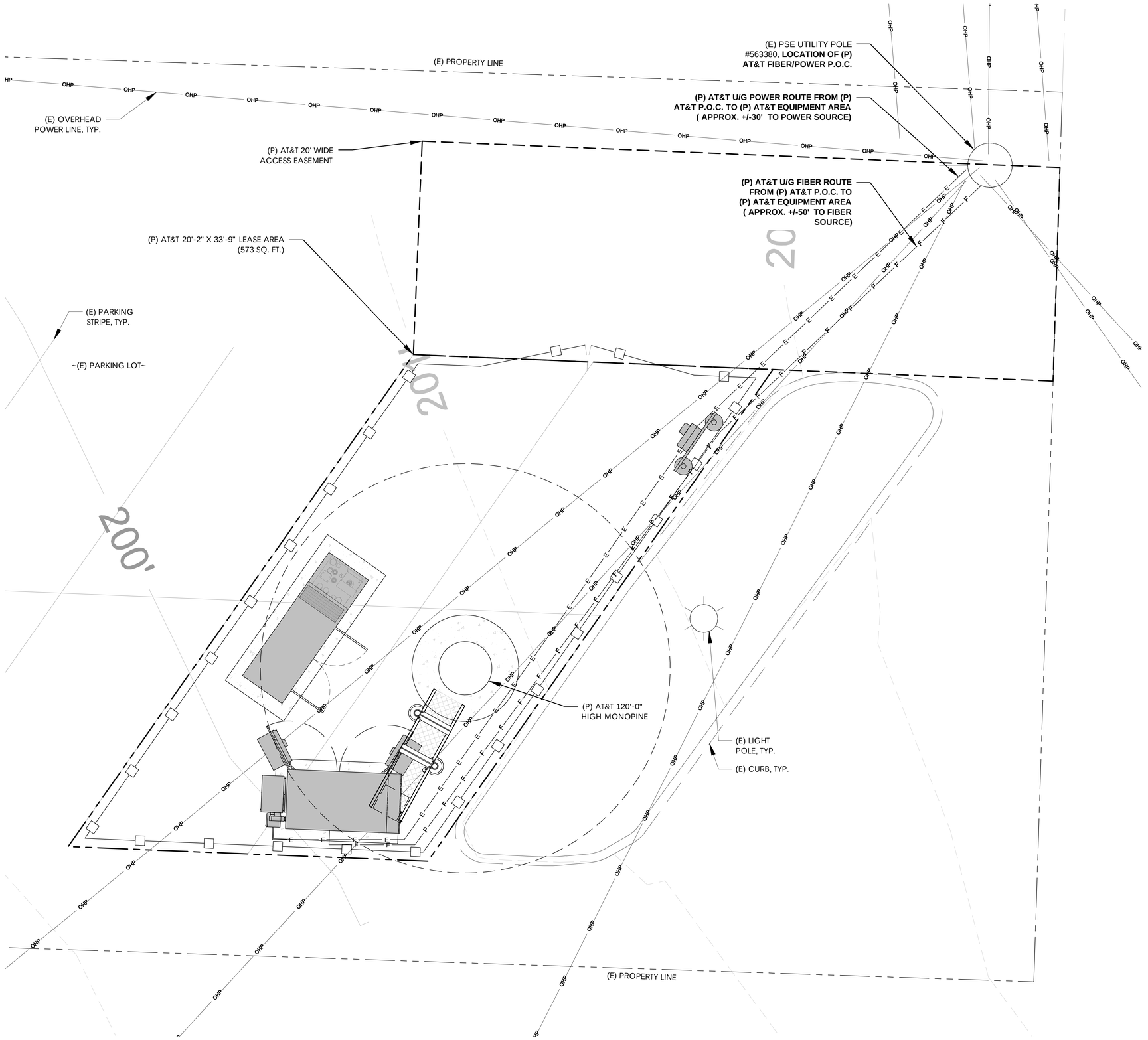
Sheet Title:
ANTENNA MOUNT DETAILS

Sheet Number:
D-6



UTILITY PLAN

24"x36" SCALE: 3/8" = 1'-0" 2' 1' 0" 2' NORTH 1

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Sheet Title:
UTILITY PLAN

Sheet Number:
E-1

NOTES:

1. ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
2. LABEL SERVICE DISCONNECT WITH A RED TAG.
3. SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
4. PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
5. ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
6. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
7. CONDUIT REQUIREMENTS
   - UNDERGROUND PVC (SCH 40 OR 80)
   - INDOOR: EMT (RGS IN TRAFFIC AREAS)
   - OUTDOOR (ABOVE GRADE): RGS

ABBREVIATIONS:

BCW	BARE COPPER WIRE
BTS	BASE TRANSCEIVER STATION
C	CONDUIT
(E)	EXISTING
EG	EQUIPMENT GROUND
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
GEN	GENERATOR
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
MCM	MILLION CIRCULAR MILLS
MI	MECHANICAL INTERLOCK
MP&S	SEE MECHANICAL PLANS & SPECIFICATIONS
(N)	NEW
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NL	NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
PFB	PROVISION FOR FUTURE BREAKER
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	RELOCATE
RG	RELAY TO MONITOR GENERATOR POWER
RU	RELAY TO MONITOR UTILITY POWER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER

NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

VOLTAGE: 120/240V, 1 PHASE, 200A, 22 KAIC
MAIN CB: 2P/200A
BRANCH CB: TYPE Ø0

PANEL 'A'

MOUNTING: SURFACE
NEMA: 3R
LOCATION: MOUNTED ON SHELTER EXTERIOR WALL

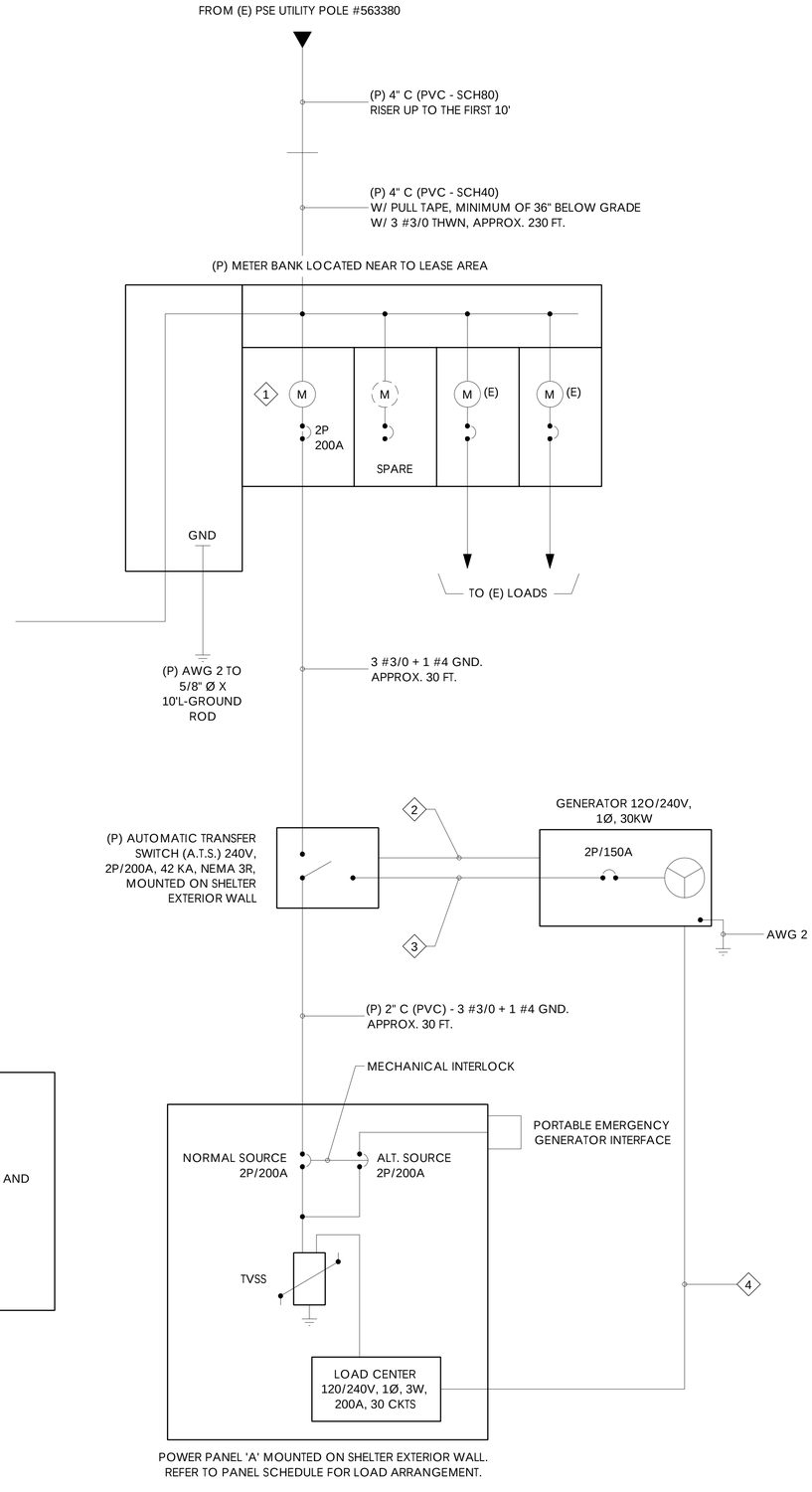
VOLT AMPS PHASE A	VOLT AMPS PHASE B	DESCRIPTION	POLE	BKR	CKT	A	B	CKT	BKR	POLE	DESCRIPTION	VOLT AMPS PHASE A	VOLT AMPS PHASE B
2112		SHELVES 1 & 3 RECTIFIERS	2	30	1			2	20	1	G.F.I. (INTERNAL)	180	
	2112	-	-	-	3			4	30	2	SHELVES 1 & 3 RECTIFIERS		2112
2112		SHELVES 1 & 3 RECTIFIERS	2	30	5			6	-	-	-	2112	
	2112	-	-	-	7			8	30	2	SHELVES 2 & 4 RECTIFIERS		2112
2112		SHELVES 2 & 4 RECTIFIERS	2	30	9			10	-	-	-	2112	
	2112	-	-	-	11			12	30	2	SHELVES 1 & 3 RECTIFIERS		2112
		SPACE			13			14	-	-	-	2112	
					15			16			SPACE		
					17			18					
					19			20					
					21			22					
	180	G.F.I.	1	20	23			24	20	1	BATTERY CHARGER		360
1200		HVAC	2	20	25			26	20	1	HEATER	480	
	1200	-	-	-	27			28	15	1	EXT LIGHTS		100
720		OUTLETS	1	20	29			30	20	1	INTERIOR LIGHT	200	
8256	7716	VA/LINE										7196	6796

PHASE A = 15,452 PHASE B = 14,512

CONNECTED LOAD = 29,964 VA

CONNECTED AMPS = 124.9 A

2 AC PANEL SCHEDULE
N.T.S.



POWER PANEL 'A' MOUNTED ON SHELTER EXTERIOR WALL.
REFER TO PANEL SCHEDULE FOR LOAD ARRANGEMENT.

KEY NOTES:

1. NOT USED
2. (P) 1" C (PVC) - 10 #14 FOR CONTROL AND START-UP. REFER TO GENERATOR AND A.T.S. SPECS. FOR WIRING CONNECTION.
3. (P) 2 "C (PVC) - 3 #3/0 + 1 #4 GND., APPROX. 30 FT.
4. (P) 1" C (PVC) - 4 #12 + 2 #12 GND. FOR BATTERY CHARGER & HEATER.

1 SINGLE-LINE DIAGRAM (SLD)
N.T.S.

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Licensor:

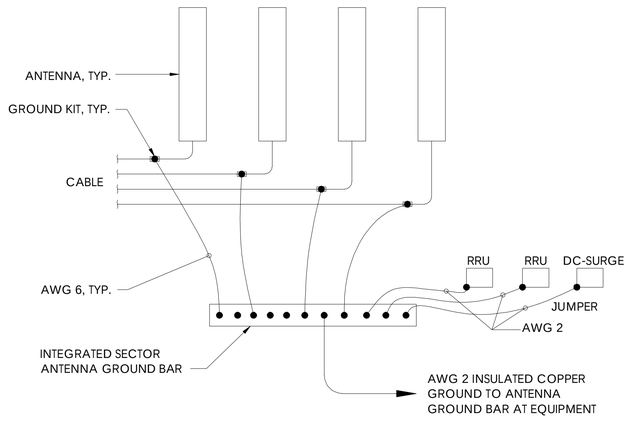
Sheet Title:
ELECTRICAL PANEL SCHEDULE & SLDG

Sheet Number:
E-2

GROUNDING NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
   A) EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
13. GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
17. POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
18. NO LB'S ALLOWED ON GROUNDING.
19. PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
20 ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
21 IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
22 EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES. LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTIOXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
23 THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
24 ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
25 PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
26. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
27 GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
28. ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

3 GROUNDING NOTES
N.T.S.



NOTES:
1. GROUND BAR LOCATION IS SCHEMATIC AS SHOWN ON THIS SHEET AND ACTUAL LOCATION OF INSTALLATION WILL BE DETERMINED BY THE INSTALLER.
2. REFER TO ANTENNA PLAN FOR EXACT NUMBER OF ANTENNA, RRU AND DC SURGE SUPPRESSOR

4 TYP. ANTENNA GROUNDING DIAGRAM

1 NOT USED

2 NOT USED

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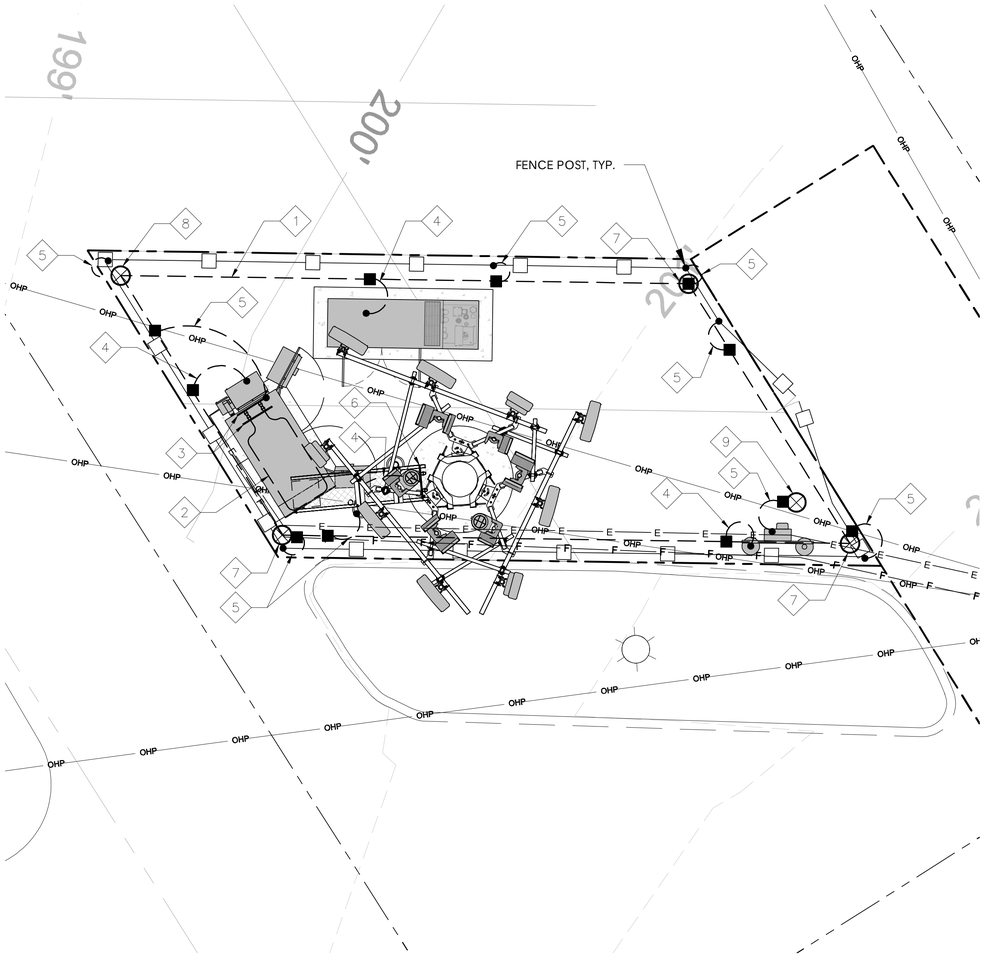
GROUNDING NOTES

Sheet Number:

G-1

KEY NOTES:

1. (P) AWG 2 BCW GROUND RING BURIED 30" BELOW GRADE.
2. (P) AWG 2 INSULATED COPPER GROUND (HALO GROUND) CONNECTED TO EQUIP. INSIDE THE WUC PROVIDED AND INSTALLED BY WUC MANUFACTURER
3. (P) EQUIP. GROUND BAR INSIDE AND OUTSIDE OF WUC.
4. (P) AWG 2 INSULATED COPPER GROUND.
5. (P) AWG 2 BCW.
6. (P) ANTENNA GROUND BAR AT BOTTOM OF MONOPOLE.
7. (P) GROUND ROD.
8. (P) GROUND TEST WELL.
9. (P) ISOLATED GROUND ROD.



GROUNDING LEGEND

- CADWELD CONNECTION (EXOTHERMIC WELD)
- MECHANICAL CONNECTION
- GROUND ROD

EQUIPMENT GROUNDING PLAN

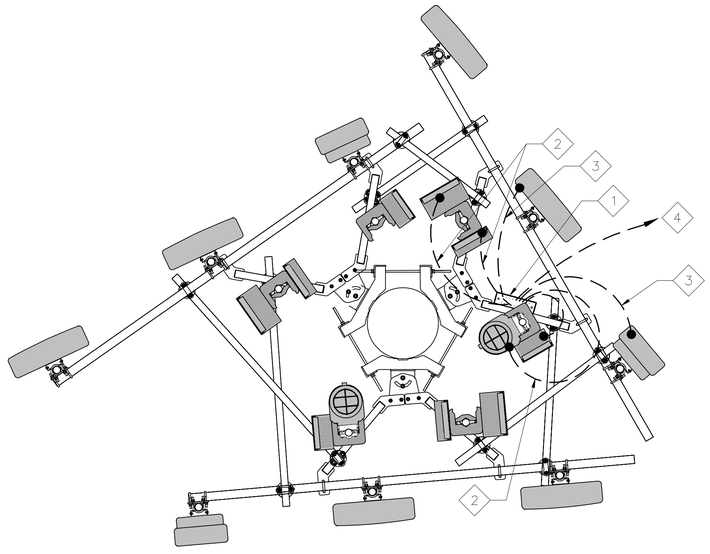
24"x36" SCALE: 1/4" = 1'-0" 4' 3' 2' 1' 0" 4'

NORTH

3

KEY NOTES:

1. ANTENNA GROUND BAR AT EACH SECTOR.
2. AWG 2 INSULATED COPPER GROUND FROM (P) RRH AND DC9.
3. AWG 6 INSULATED COPPER GROUND WIRE FROM ANTENNA GROUND KIT TO ANTENNA GROUND BAR.
4. AWG 2 INSULATED COPPER GROUND TO ANTENNA GROUND BAR AT BOTTOM OF POLE



GROUNDING LEGEND

- CADWELD CONNECTION (EXOTHERMIC WELD)
- MECHANICAL CONNECTION
- GROUND ROD

ANTENNA GROUNDING PLAN (TYP. PER SECTOR)

24"x36" SCALE: 1/2" = 1'-0" 2' 1' 0" 2'

NORTH

1

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GROUNDING PLANS

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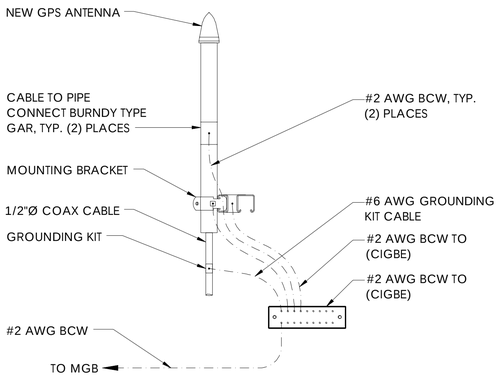
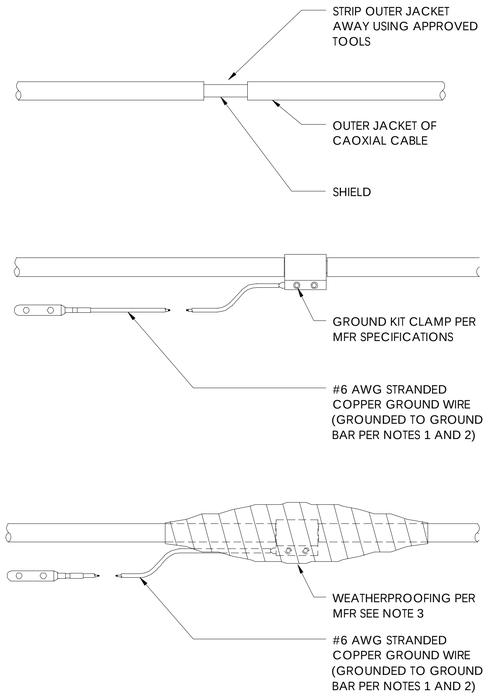
G-2



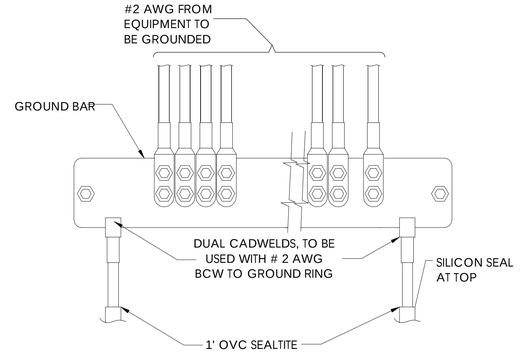
10 GPS ANTENNA GROUNDING
N.T.S.

NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MFR
3. WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MFR



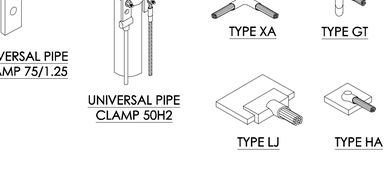
8 GROUND KIT
N.T.S.



NOTE:
1. CONTRACTOR TO UTILIZE KOPR-SHIELD (THANS & BETTS) ON ALL LUG CONNECTIONS OR APPROVED EQUAL
2. ALL LUGS TO BE DUAL HOLE LONG BARREL AND CRIMPED TWICE WITH MFR'S RECOMMENDED TOOL

4 GROUND BAR CONNECTION
N.T.S.

1 NOT USED
N.T.S.



LEGEND

1- COPPER GROUND BAR, "X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL

3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL

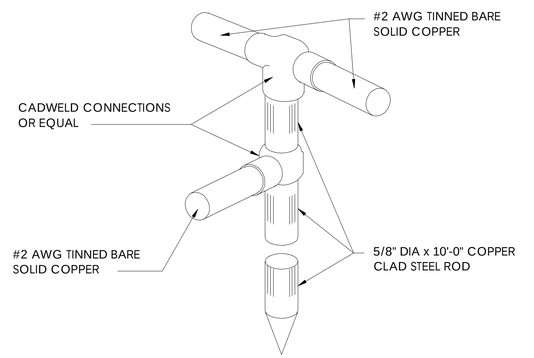
4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL

5- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL

6- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

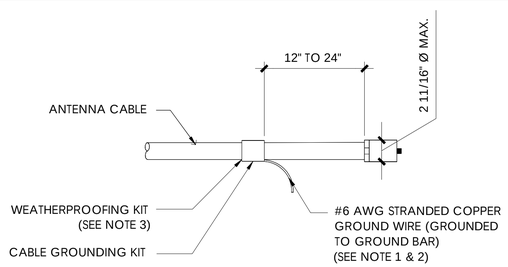
NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

5 GROUND BAR DETAIL
N.T.S.



2 GROUND ROD DETAIL
N.T.S.

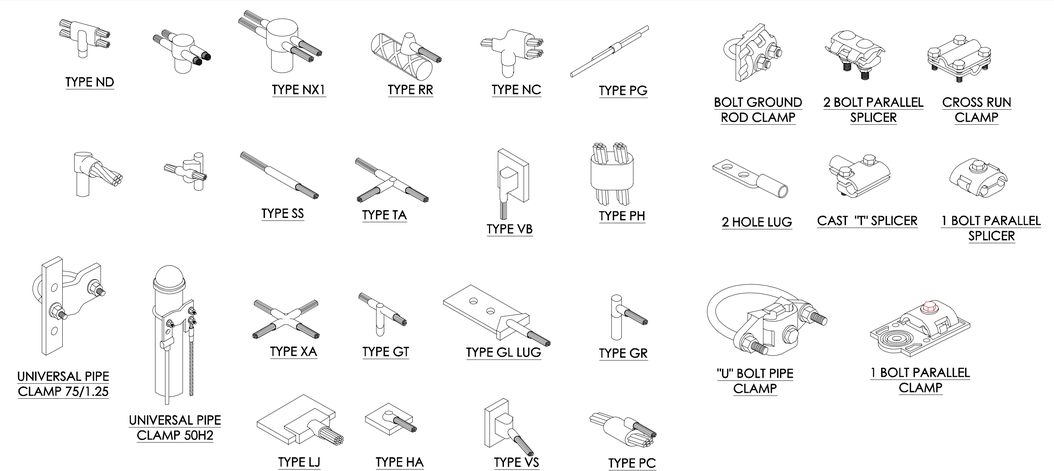
11 NOT USED
N.T.S.



NOTE:

1 DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

9 CONNECTION OF GROUND KIT TO ANTENNA CABLE
N.T.S.



6 TYPICAL MECHANICAL CONNECTIONS
N.T.S.

12 NOT USED
N.T.S.

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GROUNDING DETAILS

Sheet Number:

G-3

SSA acoustics
Stewart · Burt · Nelsen · Esselstrom

July 27, 2022

Cheryl Paul
J5 Infrastructure

Re: Acoustical Report – AT&T OL0734 Olympia Mission Creek
Site: 1818 4th Avenue E, Olympia, WA 98506

Dear Cheryl,

This report presents a noise survey performed in the immediate vicinity of the proposed AT&T telecommunications facility at 1818 4th Avenue E in Olympia, Washington. This noise survey extends from the proposed equipment to the nearest properties. The purpose of this report is to document the existing conditions and the impacts of the acoustical changes due to the proposed equipment. This report contains data on the existing and predicted noise environments, impact criteria and an evaluation of the predicted sound levels as they relate to the criteria.

Code Requirements

The property is within the City of Olympia zoning jurisdiction on property with an HDC-1 zoning designation. All of the receiving properties are zoned HDC-1. Olympia Municipal Code 18.06 identifies HDC-1 as within a Commercial District.

The proposed new equipment includes equipment support cabinets and an emergency generator. The equipment support cabinets are expected to run 24 hours a day. The generator will run once a week during daytime hours only for maintenance and testing purposes.

Olympia Municipal Code 18.40.080 identifies Commercial properties as Class B EDNA and limits noise from equipment on a Class B EDNA property as follows:

Class B EDNA Receiver: Noise is limited to 65 dBA during daytime hours. During nighttime hours, between the hours of 10 p.m. and 7 a.m, the maximum permissible sound level is to 60 dBA.

Ambient Conditions

Existing ambient noise levels were measured on site with a Svantek 971 sound level meter on July 21, 2022. Measurements were conducted as close to the proposed location as possible and the property lines in accordance with the State of Washington code for Maximum Environmental Noise Levels WAC 173-60-020. The average ambient noise level was 53 dBA.

Predicted Equipment Sound Levels

24-Hour Operation Equipment
The following table presents a summary of the equipment and their associated noise levels:

Table 1: Equipment Noise Levels

Equipment	dBA (each)	Quantity	Combined dBA @ 5 ft
Delta ESOF030	65 dBA @ 5 ft	1	65
Total dBA (All cabinets combined)			**65**

Methods established by ARI Standard 275-2010 and ASHRAE were used in predicting equipment noise levels to the receiving properties. Application factors such as location, height, and reflective surfaces are accounted for in the calculations.

The equipment will be located at grade surrounded by a chain-link fence. The nearest receiving property is approximately 19 feet south of the equipment. The following table presents the predicted sound levels at the nearest receiving property:

Table 2: Predicted Noise Levels: Proposed Equipment Cabinets

Line	Application Factor	S
1	Sound Pressure Level at 5 ft (dBA), Lp1	65
2	Distance Factor (DF) Inverse-Square Law (Free Field): DF = 20*log (d1/d2)	-12 (19 ft)
3	New Equipment Sound Pressure Level at Receiver, Lpr (Add lines 1 through 3)	**53**

As shown in Table 2, the sound pressure level from the proposed equipment is predicted to be 53 dBA at the nearest receiving property to the south, which meets the 60 dBA nighttime code limit. Noise levels at other receiving properties, which are further away, will be lower and within code limits.

Emergency Equipment

The proposed equipment includes one Kohler 30REOZK 30 KW generator with a sound enclosure which has a sound level of 65 dBA at 23 feet. The generator will be located at grade surrounded by a chain-link fence. The nearest receiving property is approximately 29 feet south of the generator. The following are the predicted sound levels at the receiving property:

Table 3: Predicted Noise Levels: Proposed Emergency Generator

Line	Application Factor	S
1	Equipment Sound Pressure Level at 23 ft. (dBA), Lp1	65
2	Distance Factor (DF) Inverse-Square Law (Free Field): DF = 20log (d1/d2)	-2 (29 ft)
3	New Equipment Sound Pressure Level at Receiver, Lpr	63

As shown in Table 3, the sound pressure level from the proposed generator during test cycle operation is predicted to be 63 dBA at the nearest receiving property to the south, which meets the 65 dBA daytime code limit. Noise levels at other receiving properties, which are further away, will be lower and within code limits.

Please contact us if you have any questions or require further information.

Sincerely,
SSA Acoustics, LLP

Steven Hedback
Acoustical Consultant

OL0734 Olympia Mission Creek RF Justification

SERVICE OBJECTIVES & TARGETED SERVICE AREA

AT&T is proposing to build a new wireless communication facility "WCF" and/or "Facility" OL0734 Olympia Mission Creek 1818 4th Avenue East, Olympia, WA 98506 in Thurston County.

Attachment 9

Service Objectives—Generally

AT&T strives for a network design that provides high radio frequency ("RF") signal strength and signal-to-interference-plus-noise ratio ("SINR") resulting in quality service inside buildings and vehicles. To support this network design there are two main drivers that prompt the need for a new cell site—coverage and capacity.

"Coverage" is the need to expand wireless service into an area that either has no service or bad service. "Capacity" is the need for more wireless resources. Cell sites have a limited amount of resources to handle voice calls, data connections, and data volume. When these capacity limits are reached, user experience quickly degrades. Capacity issues for LTE networks are identified by using SINR metrics to measure the network's signal quality when there is a high traffic load condition. High traffic areas in the network experience poor SINR due to the increased amount of signal noise/interference generated by the interfering strength of the simultaneous transmissions.

Service Objectives—Proposed New Facility

The proposed new Facility is a service coverage site. Currently, portions in and around Eastside have minimal 4G voice service and AT&T's existing coverage in the area is at or near its capacity and is insufficient for the volume of traffic (*i.e.* though this area already has AT&T coverage, additional capacity is needed to service the volume of users).

The Objective of this proposed new facility to improve the coverage to Northeast & Upper Eastside Residential & Commercial area of Olympia. This new WCF will also improve coverage to 26th Ave NE and around Devon Loop NE . This service objective and Targeted Service Area was determined by AT&T's RF engineers through a combined analysis of market demand, customer complaints, service requests, and RF engineering design (including SINR metrics).

The proposed new Facility meets AT&T's service objectives to provide sufficient continuous and uninterrupted outdoor, in-vehicle, and in-building wireless service within the Targeted Service Area, resulting in fewer dropped calls, improved call quality, and improved access to additional wireless services the public now demands (this includes emergency 911 calls).

In addition to AT&T LTE commercial facilities, this proposed WCF will include facilities to support FirstNet. As a FirstNet site, this proposed WCF is part of a more significant initiative by AT&T to upgrade existing wireless sites and to build new sites to support FirstNet and deploy the new frequency band for first responders ("Band 14"). Placing antenna at the minimum height necessary to reliably make and receive telephone calls and provide data service in the presence of varying signals is crucial for the efficient and effective operation of this site as a FirstNet Network site.

at&t

SEARCH RING

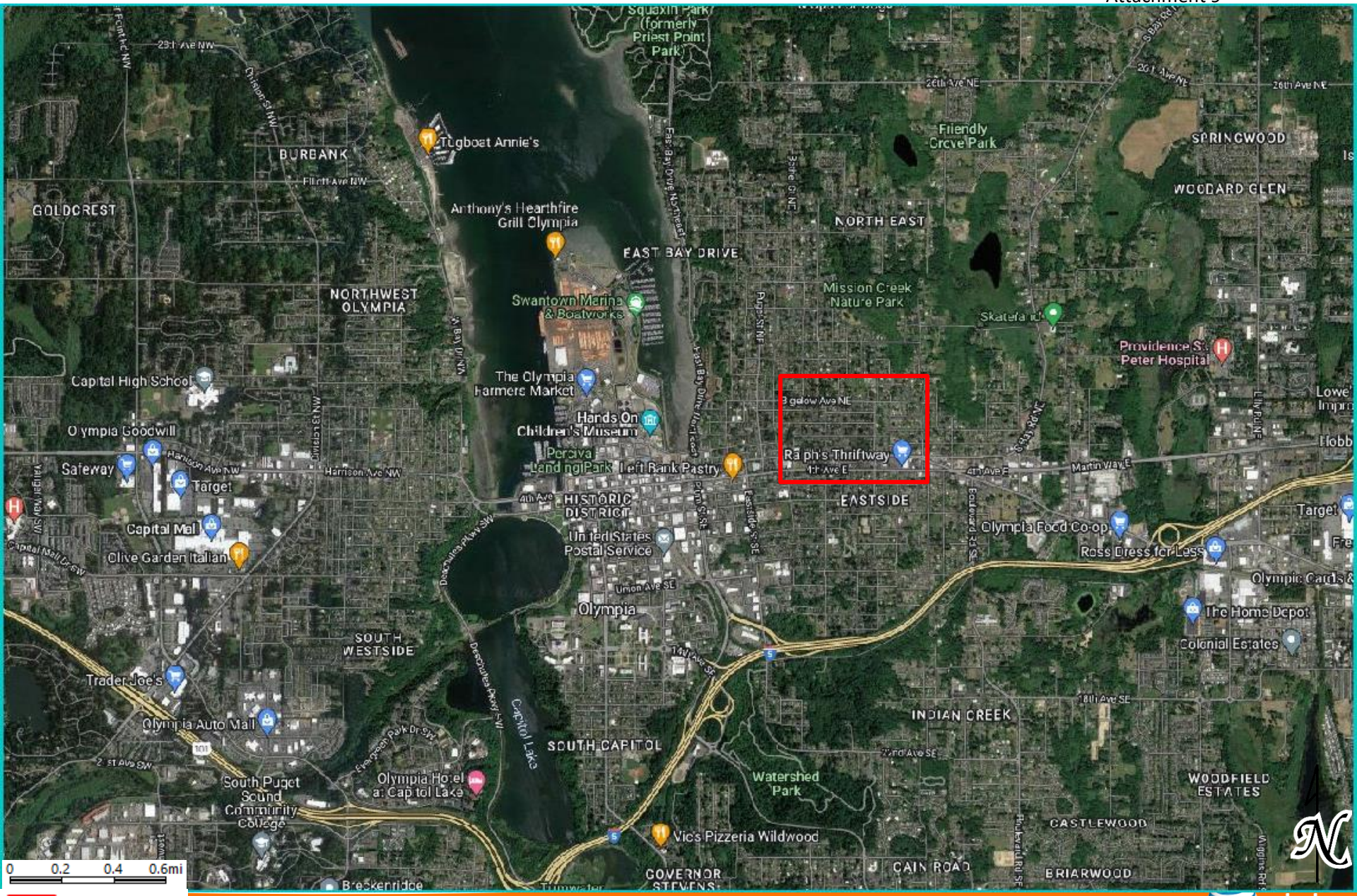
AT&T's RF engineers performed an RF engineering study—considering multiple objectives—to determine the approximate site location and antenna height required to best fulfill the noted service objectives within the Targeted Service Area. From this study, AT&T's RF engineers identified a "search ring" area where a new wireless facility may be located to provide effective service in the Targeted Service Area.

As this is a service coverage site intended to improve coverage in a specific area, the proposed new Facility must be located within the identified search ring to be able to establish a dominant signal within the Targeted Service Area—i.e. the proposed new Facility will provide service to users' handsets and prevent them from communicating with AT&T's existing facility, thereby relieving some of the burden on the existing facility by offloading users' data requirements to the proposed new Facility.

Figure A—Targeted Search Ring, below, indicates the search ring AT&T's RF engineers established for this proposed site. A discussion of the methodology AT&T's RF engineers used to identify the search ring is included at the end of this RF Justification document.

Figure A—Targeted Search Ring

Attachment 9



PROPOSED NEW AT&T FACILITY

Attachment 9

Antennas and Equipment

To meet AT&T's service objectives within the Targeted Service Area, AT&T is proposing to install up to twelve (12) eight-foot (8ft) panel antennas, twelve (12) remote radio head (RRH) units, one (1) microwave antenna, together with additional associated equipment with a 120ft antenna tip height.

Required Height

As the proposed new Facility is intended to provide new coverage and enhance existing capacity, height and location play an important role. The proposed antenna tip height was determined by considering various factors such as the height of surrounding wireless sites, ground elevation, obstructions to the signal, and the surrounding terrain. Accordingly, the proposed 120ft antenna tip height is the minimum necessary to best meet AT&T's service objectives within the Targeted Service Area. A lower antenna tip height at this location would not provide as effective coverage improvement within the Targeted Service Area as compared to the 120ftantenna tip heights. The proposed antenna tip height is also the height where an AT&T wireless device can be reliably used to make and receive telephone calls and use data service in the presence of varying signals.

Projected New Coverage

Based upon the above proposed equipment and antenna tip height, AT&T's RF engineers project that the proposed Facility will provide the following new AT&T coverage.

Figure B—Existing AT&T Coverage shows existing AT&T wireless services in the general area of the proposed new site, which demonstrates the current gap in coverage in the targeted service area. The red star indicates the location of the proposed new WCF. The pink diamond indicates the location of existing AT&T WCF sites; coverage from AT&T's existing WCF sites is shaded in green. As can be seen, there is a coverage gap in all areas not shaded in green. Currently, the target coverage area has minimal to no 4G voice service and does not have adequate 4G LTE service.

Figure C—Projected New AT&T Coverage identifies the projected coverage from the proposed new WCF with the requested antenna tip height of 120ft. The proposed antenna tip height is the minimum necessary to help fill the coverage gap relative to nearby complementary wireless facilities and to support the FirstNet Network. This is also the height where an AT&T wireless device can be reliably used to make and receive telephone calls and use data service in the presence of varying signals.

PROPOSED NEW AT&T FACILITY Cont..

Attachment 9

Figure C.1—Projected New AT&T Coverage with Zoomed In view to target areas.

Figure D—A current map and aerial showing the location of the proposed tower, a map showing the locations and service areas of other personal wireless service facilities operated by the applicant and those proposed by the applicant that are close enough to impact service within the city;

All deployment will comply with city codes, and work with landlord for proper screening and camouflaging to minimize visual impacts in the neighborhood.

Figure B—Existing AT&T Coverage

Targeted Service Area BEFORE Addition of Proposed New Wireless Facility

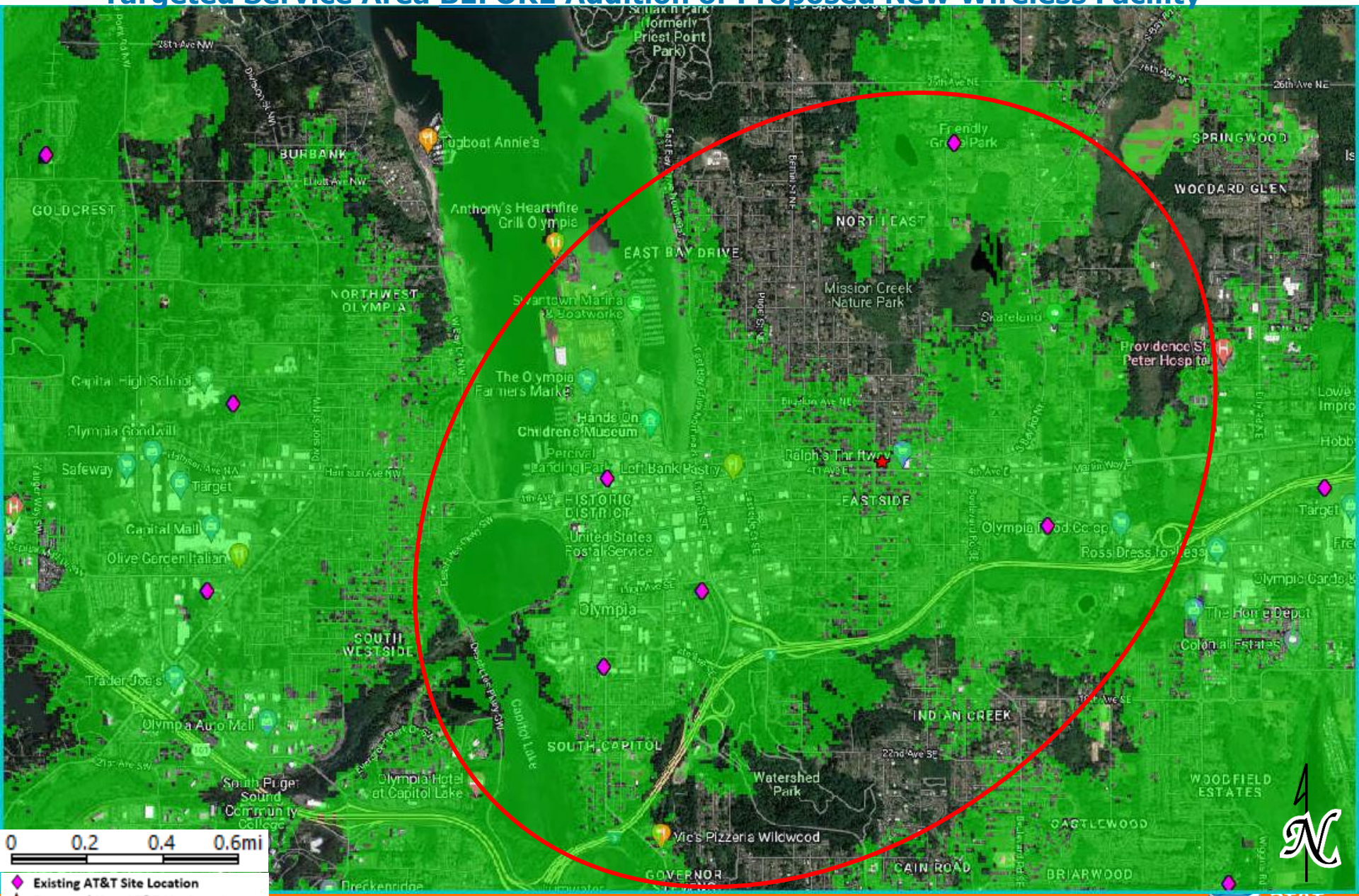


Figure C—Projected New AT&T Coverage

Coverage AFTER Proposed AT&T Facility On-Air—120ft Antenna Tip Height

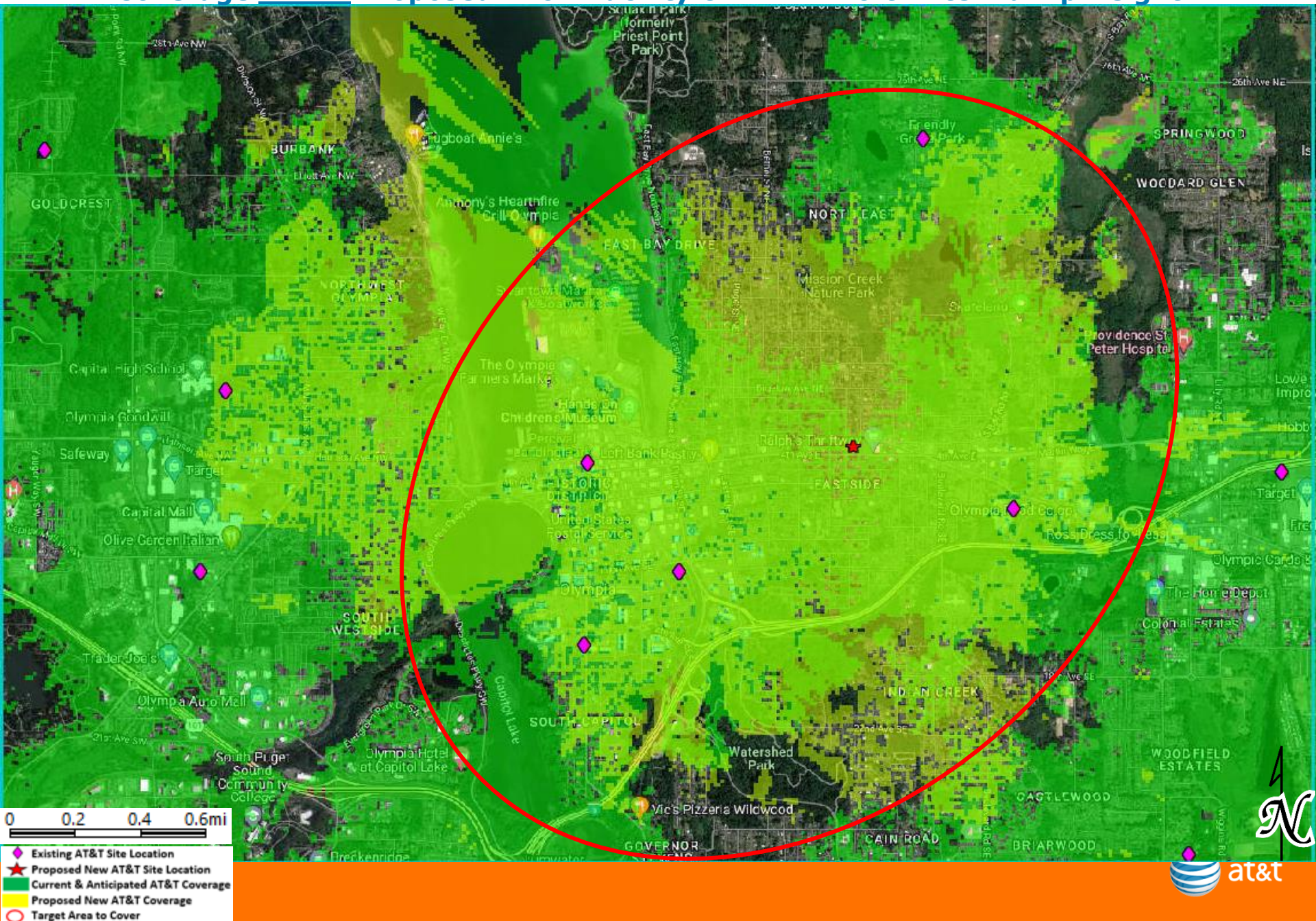


Figure C.1—Projected New AT&T Coverage

Coverage AFTER Proposed AT&T Facility On-Air-120ft Antenna Tip Height-Zoomed In Target Area

Attachment 9

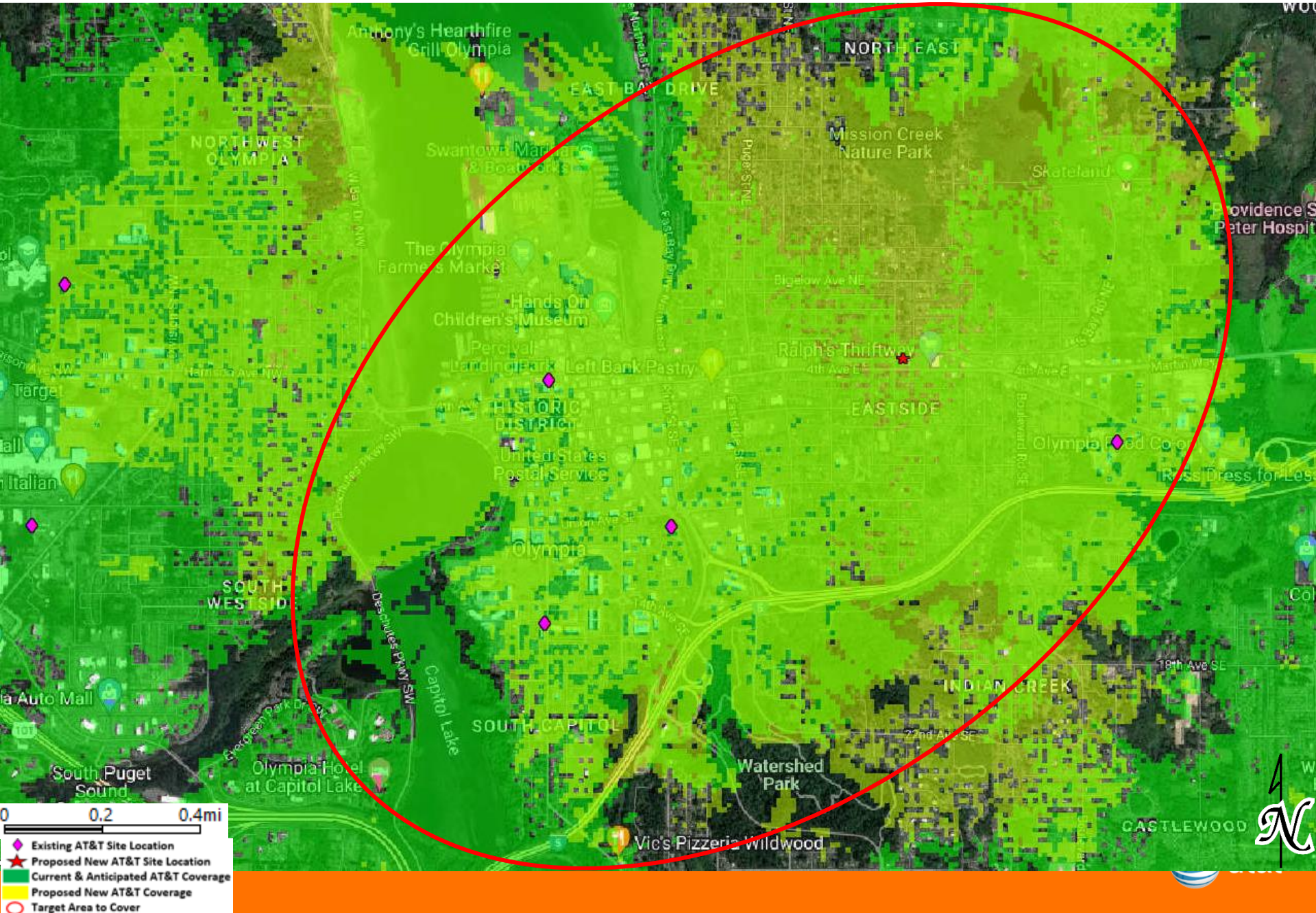
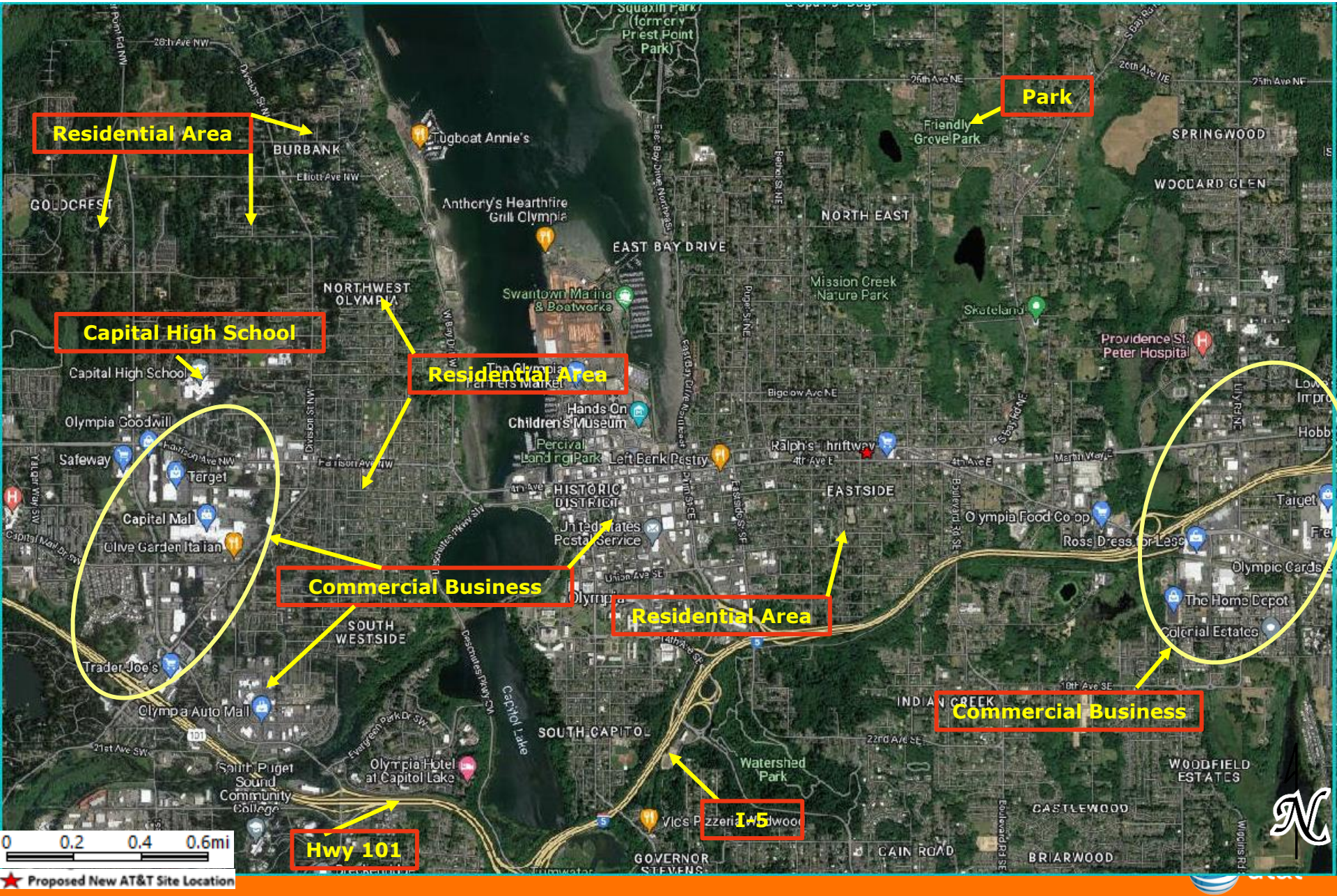


Figure D—Current Aerial Map showing Proposed Location and service areas being covered by existing WCF.

Attachment 9



Alternative Site Analysis

There are no existing buildings/structure that would meet design criteria within one-quarter mile of the Proposed tower.

Search Ring Methodology

AT&T's RF engineers used coverage propagation software systems to predict the coverage provided by the proposed new WCF. The software and AT&T's RF engineers considered the general factors outlined below, as well as more project-specific factors such as the type of antenna, antenna tilt, etc.

Coverage. The antenna site must be located in an area where the radio frequency broadcasts will provide adequate coverage within the targeted service area. The RF engineer must take into consideration the coverage objectives for the site as well as the terrain in and around the area to be covered. Because radio frequency broadcasts travel in a straight line and diminish as they travel further away from the antennas, it is generally best to place an antenna site near the center of the desired coverage area. However, in certain cases, the search ring may be located away from the center of the desired coverage area due to the existing coverage, the surrounding terrain, or other features which might affect the radio frequency broadcasts, *e.g.* buildings or sources of electrical interference.

Clutter. AT&T's WCFs must "clear the clutter"—the WCF site must be installed above or close to RF obstructions (the "clutter") to enable the RF to extend beyond and clear the clutter. AT&T's radio frequencies do not penetrate mountains, hills, rocks, or metal, and are diminished by trees, brick and wood walls, and other structures. Accordingly, AT&T's antennas must be installed above or close to the "clutter" to provide high quality communications services in the desired coverage areas. Additionally, if the local code requires us to accommodate additional carriers on the support structure, the structure must be even taller to also allow the other carriers' antennas to clear the clutter.

Call Handoff. The WCF site must be in an area where the radio broadcasts from the site will allow seamless "call handoff" with adjacent WCF sites. Call handoff is a feature of a wireless communications system that allows an ongoing telephone conversation to continue uninterrupted as the user travels from the coverage area of one antenna site into the coverage area of an adjacent antenna site. This requires coverage overlap for a sufficient distance and/or period of time to support the mechanism of the call handoff.

Quality of Service. Users of wireless communications services want to use their services where they live, work, commute and play, including when they are indoors. AT&T's coverage objectives include the ability to provide indoor coverage in areas where there are residences, businesses and indoor recreational facilities.

Search Ring Methodology—Con't

Radio Frequencies used by System. The designs of wireless communications systems vary greatly based upon the radio frequencies that are used by the carrier. If the carrier uses radio frequencies in the 850 MHz to 950 MHz range, the radio signals will travel further and will penetrate buildings better than the radio frequencies in the 1900 MHz band. As a result, wireless communications systems that use lower radio frequencies will need fewer sites than wireless communications systems that use higher radio frequencies.

Land Use Classifications. A&T's ability to construct a WCF site on any particular property is affected by state and local regulations, including zoning and comprehensive plan classifications, goals, and policies. AT&T's search rings take these laws and regulations into consideration.

WIRELESS – CONDTIONAL USE PERMIT REVIEW (CUP)
Wireless Communications Facility
(AT&T: OL0734 Olympia Mission Creek)

Submitted to City of Olympia, Washington
Community Planning & Development Department

J5 Infrastructure Partners on behalf of New Cingular Wireless PCS, LLC ("AT&T") 19801 SW 72nd Ave. Ste 200, Tualatin, OR 97062

Representative:	J5 Infrastructure Partners 23035 SE 263rd Street (Remote) Maple Valley, WA 98038 **Contact:** Phillip Kitzes 206.227.7445 pkitzes@j5ip.com
Property-Owner:	Elks Lodge 1818 4th Avenue East Olympia, WA 98507
Project Address:	1818 4th Avenue East
Description & Tax Lot:	GPS Coordinates: 47.04659, -122.87704 Parcel No. 80800400300
Zoning Classification:	High Density Corridor 2 (HDC-2)

J5 Infrastructure is submitting this application on behalf of New Cingular Wireless PCS, LLC ("AT&T").

1. PROJECT OVERVIEW

AT&T is proposing to construct a new 120-foot-tall monopine ("WCF" or "facility"), OL0734 Olympia Mission Creek site, at the abovementioned address. The objective is to provide outdoor, in vehicle, and in-building coverage within a geographic area in high demand. All ground equipment will be located within a 20'x33.75' (675') secured lease area. The antennas and ancillary equipment will be colored to match the structure/branches. The monopine is designed to allow for collocation for future wireless providers. There will be a backup generator for emergency purposes only.

AT&T intends for its application of the proposed Wireless Communication Facility (WCF) to include the following documents (collectively, "AT&T's Application"):

- Attachment 1 - Project Narrative (this document)
- Attachment 2 - Statement of Compliance
- Attachment 3 – Wireless CUP Checklist
- Attachment 4 – ATT RF Safety Compliance Statement
- Attachment 5 – RF Justification Report
- Attachment 6 – Title Report
- Attachment 7 – Noise Report
- Attachment 8 – SEPA Checklist
- Attachment 9 – Certified Owners List (Mailing)
- Attachment 10 – Certified Occupants List (Mailing)
- Attachment 11 – FCC License
- Attachment 12 – Zoning Plan Set
- Attachment 13 – Owner Authorization

As shown in AT&T's Application, AT&T's proposal meets the county's criteria for siting new wireless communications facilities and complies with all other applicable county, state, and federal regulations. AT&T's proposal is also the least intrusive means of meeting AT&T's service objective. Accordingly, AT&T respectfully requests that the city approve this project as proposed and modify the approved conditional use permit to allow collocation.

Please Note: The responses and information included in **this document** are intended to support and supplement this application request. All references to "Attachments" in this Project Narrative and the Statement of Code Compliance are in reference to the attachments included as part of AT&T's Application.

2. PROPOSED PROJECT DETAILS

2.1. Subject Property. Detailed information regarding the subject property and proposed lease area is included in **Attachment 12, Zoning Plan Set.**

2.1.1. Proposed Location; Use; Zoning.

- The property is approximately 40,698 SF (0.93 Acre) and zoned High Density Corridor 2 (HDC-2). The proposed location is within a parking lot for the Elks Club with direct access to the surrounding streets, including State Ave NE, 4th Avenue NE, Turner Street SE, and Fir Street SE)—utilities are available. (Note: Alleyways access are there providing access to the streets.) There are no buildings or development on this portion of the site; however, it is part of the lodge (building) complex. The land is relatively flat (2-6% slope). There is no vegetation (other than landscape islands and perimeter vegetation. Surrounding land uses include:
  - North: Business / Residences
  - South: Residences
  - East: Businesses
  - West: Businesses/residences

Note: Three (3) parking spaces of the existing 53 will be eliminated. The Code requires 6 spaces per 1,000 SF of lodge space and the calculated area is approximately 8,200 SF. Thus, the required number of parking stalls for the Elks Lodge is 49 spaces. If 3 spaces are removed, the required number of parking spaces is still met (per Code).

Note: An erosion control plan will be necessary at the time a building permit is submitted to the city for review.

2.1.2. Lease Area.

- Again, the lease area is a 20'x33.75' (675 SF) secured fence area (wood) that will contain the structure, ground equipment and the emergency backup generator. (the "Lease Area").

2.1.3. Access and Parking.

- Access from 114th Avenue SE via an existing dirt/gravel path.
- There will be parking in front of the lease area. As the proposed Facility will be an unmanned wireless facility, after the initial construction, AT&T will only regularly access the Facility for maintenance and inspections, which will likely generate no more than one or two trips per month with a single vehicle.

2.1.4. Utilities.

- **Power.** Power will be provided by the local purveyor. AT&T's GC will install a new meter base and will run conduit from the new meter base to the new equipment. A bridge will be provided from the equipment to the antennas.
- **Fiber.** Fiber to the Facility will be provided via the local fiber purveyor (likely Comcast).
- **Other.** Given this is an unmanned wireless communications facility, no water, sewer, or other utilities are required.

2.2. Wireless Facilities and Equipment. Specifications of the facilities outlined below, including a site plan, can be found in **Attachment 12, Zoning Plan Set**

2.2.1. Antennas and accessory equipment.

- The Three (3) Sectors on the monopine will contain the following AT&T equipment:
  - Twelve (12) panel antennas
  - Twelve (12) remote radio head units (RRHs)
  - Six (6) remote RRH mounts
  - Two (2) surge protectors
  - Three (3) Mounting Brackets
  - One (1) Lightning Rod
  - All other associated and accessory equipment

2.2.2. Ground equipment.

- Ground equipment includes:
  - Two (2) Equipment cabinets (one walk-in)
  - One (1) Generator w/ concrete pad

- One (1) Cable Bridge
- One (1) GPS
- Fiber/cable vaults
- All associated and accessory equipment

3. NETWORK COVERAGE AND SERVICES.

3.1. Overview—AT&T 4G LTE. AT&T is upgrading and expanding its wireless communications network throughout the Pacific Northwest, including the installation of the latest 4G technology at this proposed facility. LTE stands for "Long Term Evolution." This acronym refers to the ongoing process of improving wireless technology standards with speeds up to ten times faster than 3G. LTE technology is the next step in increasing broadband speeds to meet the demands of uses and the variety of content accessed over mobile networks.

Upon completion of this update, AT&T will operate a state-of-the-art digital network of wireless communications facilities throughout the proposed coverage area as part of its nationwide wireless communications network.

The new Facility will allow for uninterrupted wireless service in the targeted service area with fewer dropped calls, improved call quality, and improved access to additional wireless services that the public now demands. This includes emergency 911 calls within the area.

3.2. Network Service Objectives for Proposed Facility. The proposed new Facility is a service coverage site. Currently, portions in and around Eastside have minimal 4G voice service and AT&T's existing coverage in the area is at or near its capacity and is insufficient for the volume of traffic (*i.e.* though this area already has AT&T coverage, additional capacity is needed to service the volume of users).

The proposed Facility meets AT&T's service objectives to provide sufficient continuous and uninterrupted outdoor, in-vehicle, and in-building wireless service within the Targeted Service Area, resulting in fewer dropped calls, improved call quality, and improved access to additional wireless services the public now demands (this includes emergency 911 calls).

In addition to AT&T LTE commercial facilities, this proposed WTF will include facilities to support FirstNet. As a FirstNet site, this proposed WTF is part of a more significant initiative by AT&T to upgrade existing wireless sites and to build new sites to support FirstNet and deploy the new frequency band for first responders ("Band 14"). Placing antennas at the minimum height necessary to reliably make and receive telephone calls and provide data service in the presence of varying signals is crucial for the efficient and effective operation of this site as a FirstNet Network site.

4. SEARCH RING. AT&T's radio frequency ("RF") engineers performed an RF engineering study, considering multiple objectives, to determine the approximate site location and antenna height required to fulfill the noted network objectives for the Targeted Service Area. From this study,

AT&T's RF engineers identified a specific geographic area or "search ring" area, where a WTF may be located to provide effective service. The search ring established for this proposal is provided in Pages 3 to 4 of **Attachment 5—RF Justification**.

5. ALTERNATIVE SITES ANALYSIS. The applicant made diligent attempts to analyze all collocation opportunities on existing Antenna Support Structures or other support structures within a mile radius of the proposed location, as well as alternative technologies:

- **Roosevelt Elementary School**
- **Capital Vision Christian Church**
- **Various commercially zoned properties**
- **Other larger lots and possible suitable sites**

Another component of alternative site analysis is an acceptable property and willing landowner. Given this ring is primarily residential, there are few properties that qualify as being "acceptable" based on size, setbacks, sensitive areas, etc. Once properties are identified that may be acceptable, there needs to a willing property owner that wants the facility. Again, there are very few options in the ring. In fact, this was the only owner that contacted us regarding locating a facility.

6. APPLICABLE LAW

6.1. Local Codes. Per our minor conditional use permit is required for new WTFs located on government property and must comply with all applicable standards and the criteria for approval in the Kent City Code. See **Attachment 4 – Statement of Code Compliance** for AT&T's demonstration of compliance with the applicable code sections.

6.2. Federal Law. Federal law, primarily found in the Telecommunications Act of 1996 ("Telecom Act") acknowledges a local jurisdiction's zoning authority over proposed wireless facilities but limits the exercise of that authority in several important ways.

6.2.1. Local jurisdictions may not materially limit or inhibit. The Telecom Act prohibit a local jurisdiction from taking any action on a wireless siting permit that "prohibit[s] or [has] the effect of prohibiting the provision of personal wireless services." 47 U.S.C. §332(c)(7)(B)(i)(II). According to the Federal Communications Commission ("FCC") Order adopted in September 2018, a local jurisdiction's action has the effect of prohibiting the proviso of wireless service when it "materially limits or inhibits the ability of any competitor or potential competitor to compete in a fair and balanced legal and regulatory environment."[2] Under the FCC Order, an applicant need not prove it has a significant gap in coverage; it may demonstrate the need for a new wireless facility terms of adding capacity, updating to new technologies, and/or maintaining

high quality service.[3] While an applicant is no longer required to show a significant gap in service coverage, in the Ninth Circuit, local jurisdiction clearly violates section 332(c)(7)(B)(i)(II) when it prevents a wireless carrier from using the least intrusive means to fill a significant gap in service coverage. *T-Mobile U.S.A., Inc. v. City of Anacortes*, 572 F.3d 987, 988 (9th Cir. 2009).

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[1] *Accelerating Wireless and Wireline Broadband Deployment by Removing Barriers to Infrastructure Investment*, Declaratory Ruling and Third Report and Order, WT Docket No. 17-79, WC Docket No. 17-84 (rel. Sept. 27, 2018); 83 Fed. Reg. 51867 (Oct. 15,2018) ("FCC Order"). [2] Id. at ¶ 35. [3] Id. at ¶¶ 34-42.

- **Significant Gap**. Reliable in-building coverage is now a necessity and every community's expectation. Consistent with the abandonment of land line telephones and reliance on only wireless communications, federal courts now recognize that a "significant gap" can exist based on inadequate in-building coverage. See, e.g., *T-Mobile Central, LLC v. Unified Government of Wyandotte County/Kansas City,* 528 F. Supp. 2d 1128, 1168-69 (D.Kan. 2007*), affirmed in part,* 546 F.3d 1299 (10th Cir. 2008); *MetroPCS, Inc. v. City and County of San Francisco,* 2006 WL 1699580, *10-11 (N.D. Cal. 2006).

- **Least Intrusive** Means. The least intrusive means standard "requires that the provider 'show that the manner in which it proposes to fill the significant gap in service is the least intrusive on the values that the denial sought to serve.'" 572 F.3d at 995, *quoting MetroPCS, Inc. v. City of San Francisco*, 400 F.3d 715, 734 (9th Cir. 2005). These values are reflected by the local code's preferences and siting requirements.

- **Significant Gap**. Reliable in-building coverage is now a necessity and every community's expectation. Consistent with the abandonment of land line telephones and reliance on only wireless communications, federal courts now recognize that a "significant gap" can exist based on inadequate in-building coverage. See, e.g., *T-Mobile Central, LLC v. Unified Government of Wyandotte County/Kansas City,* 528 F. Supp. 2d 1128, 1168-69 (D.Kan. 2007*), affirmed in part,* 546 F.3d 1299 (10th Cir. 2008); *MetroPCS, Inc. v. City and County of San Francisco,* 2006 WL 1699580, *10-11 (N.D. Cal. 2006).

- **Least Intrusive** Means. The least intrusive means standard "requires that the provider 'show that the manner in which it proposes to fill the significant gap in service is the least intrusive on the values that the denial sought to serve.'" 572 F.3d at 995, *quoting MetroPCS, Inc. v. City of San Francisco*, 400 F.3d 715, 734 (9th Cir. 2005). These values are reflected by the local code's preferences and siting requirements.

6.2.2. Environmental and health effects prohibited from consideration. Also under the Telecom Act, a jurisdiction is prohibited from considering the environmental effects of RF emissions (including health effects) of the proposed site if the site will operate in compliance with federal regulations. 47 U.S.C. § 332(c)(7)(B)(iv).

AT&T has included with this application a statement from its radio frequency engineers demonstrating that the proposed facility will operate in accordance with the Federal Communications Commission's RF emissions regulations. *See* Attachment 4 – RF Justification Report. Accordingly, this issue is preempted under federal law and any testimony or documents introduced relating to the environmental or health effects of the proposed site should be disregarded in this proceeding.

6.2.3. No discrimination amongst providers. Local jurisdiction also may not discriminate amongst providers of functionally equivalent services. 47 U.S.C. § 332(c)(7)(B)(i)(I). A jurisdiction must be able to provide plausible reasons for disparate treatment of different providers' applications for similarly situated facilities.

6.2.4. Shot Clock. Finally, the Telecom Act requires local jurisdictions to act upon applications for wireless communications sites within a "reasonable" period of time. 47 U.S.C. § 332(c)(7)(B)(ii).

The FCC has issued a "Shot Clock" rule to establish a deadline for the issuance of land use permits for wireless facilities. 47 C.F.R. § 1.6001, *et seq*. According to the Shot Clock rule, a reasonable period for local government to act on wireless applications is 90 days for a collocation application, with "collocation" defined to include an attachment to any existing structure regardless of whether it already supports wireless, and 150 days for all other applications.

The Shot Clock applies to all authorizations required for siting a wireless facility, including the building permit, and all application notice and administrative appeal periods. Pursuant to federal law, the reasonable time period for review of this application is 150 days.

Thank you for your time and consideration in the review of this request. Please feel free to contact me by phone (206.227.7445) or email (pkitzes@j5ip.com) if there are any questions or comments.

J5 INFRASTRUCTURE PARTNERS

PHILLIP KITZES
Project Manager I

Chapter 18.44

ANTENNAS AND WIRELESS COMMUNICATIONS FACILITIES

18.44.000 Chapter Contents

Sections:

(Ord. 6395 §1, 2006).

18.44.020 Purpose and Intent

The purposes and intent of this chapter are to:

A. Promote the safety and general welfare of the public by regulating the siting of antennas and wireless communication facilities, to the extent allowed to local governments under federal law.

B. Minimize the impacts of antennas and wireless communication facilities on surrounding areas by establishing standards for location, structural integrity, and compatibility.

C. Encourage the location and collocation of wireless communication facilities on existing structures, thereby a) minimizing new visual, aesthetic, and public safety impacts, b) minimizing effects upon the natural environment and wildlife, and c) reducing the need for additional antenna support structures.

D. Accommodate the growing need and demand for wireless communication services.

E. Encourage coordination between site suppliers and wireless communication services providers.

F. Establish predictable and balanced codes governing the construction and location of wireless communications facilities, within the confines of permissible local regulations.

G. Establish review procedures to ensure that applications for wireless communications facilities are reviewed and acted upon within a reasonable period of time.

H. Respond to the policies embodied in the Telecommunications Act of 1996 in such a manner as not to unreasonably discriminate between providers of functionally equivalent personal wireless services or to prohibit or have the effect of prohibiting personal wireless services.

I. Emphasize concealed (stealth) technologies to protect the character of the City while meeting the demand for wireless communications services.

J. Encourage the use of public lands, buildings, and structures as locations for wireless communication facilities, demonstrating concealed (stealth) technologies.

K. Ensure consideration of and compatibility with the goals and objectives of the Comprehensive Plan for Olympia and the Olympia Growth Area.

(Ord. 6395 §1, 2006).

18.44.040 Applicability - Types of Facilities and Actions

Except as provided in Section 18.44.060 (Exempt Installations) and Chapter 18.46 (Eligible Wireless Communication Facilities Modifications), this chapter shall apply to the development activities including installation, construction, or modification of the following antennas and wireless communications facilities:

A. Existing antenna support structures.

B. Proposed antenna support structures.

C. Public antenna support structures.

D. Replacement of existing antenna support structures.

E. Collocation on existing antenna support structures.

F. Attached wireless communications facilities.

G. Concealed wireless communications facilities.

H. AM/FM/TV/HDTV broadcasting transmission facilities.

I. Satellite earth stations that are over one meter (39.37 inches) in diameter in all residential districts and over two meters (78.74 inches) in all other zoning districts.

(Ord. 7001 §2, 2016; Ord. 6395 §1, 2006).

18.44.060 Exempt Installations

The following items are exempt from the provisions of this chapter; notwithstanding any other provisions contained in Title 18 OMC, the Unified Development Code.

A. Amateur radio operator antennas.

B. Satellite earth stations that are one meter (39.37 inches) or less in diameter in all residential districts and two meters (78.74 inches) or less in all other zoning districts.

C. Government-owned wireless communications facilities, upon the declaration of a state of emergency by federal, state, or local government, and a written determination of public necessity by the City designee; except that such facilities must comply with all federal and state requirements. No wireless communications facility shall be exempt from the provisions of this chapter beyond the duration of the state of emergency.

D. Temporary, commercial wireless communications facilities, upon the declaration of a state of emergency by federal, state, or local government, or determination of public necessity by the City and approved by the City; except that such facilities must comply with all federal and state requirements. Said wireless communications facilities may be exempt from the provisions of this chapter up to three (3) months after the duration of the state of emergency.

E. Routine maintenance and repair of existing wireless communication facilities.

F. Additional base station equipment associated with approved transmission equipment and placed within an approved equipment compound, provided the height of the additional base station equipment does not extend above the screening fence.

(Ord. 7001 §3, 2016; Ord. 6395 §1, 2006).

18.44.080 Siting Alternatives Hierarchy

A. Siting of a wireless communications facility (WCF) (as herein defined) shall be in accordance with Section 18.44.090, Permitted Wireless Communications Facilities by Zoning District, and with the following siting alternatives hierarchy:

1. Concealed Attached Wireless Communications Facility

    a. On City-owned property or rights-of-way of the City so designated as City Property

    b. On other publicly-owned property or ROW

    c. On privately-owned property

2. Collocated or Combined on Existing Antenna Support Structure Facility

    a. On City-owned property or rights-of-way of the City so designated as City Property

    b. On other publicly-owned property or ROW

    c. On privately-owned property

3. ROW-Attached Wireless Communications Facility Mounted on Utility Pole, Electricity Transmission Tower, or Light Post

    a. On City-owned property or rights-of-way of the City so designated as City Property

    b. On other publicly-owned property or ROW

    c. On privately-owned property

4. Concealed Freestanding Wireless Communications Facility

    a. On City-owned property or rights-of-way of the City so designated as City Property

    b. On other publicly-owned property or ROW

    c. On privately-owned property

5. Non-concealed Attached Wireless Communications Facility

    a. On City-owned property or rights-of-way of the City so designated as City Property

    b. On other publicly-owned property or ROW

    c. On privately-owned property

6. Non-concealed Freestanding Wireless Communications Facility

    a. On City-owned property or rights-of-way of the City so designated as City Property

    b. On other publicly-owned property or ROW

    c. On privately-owned property

B. For attached, collocated or combined, or ROW attached WCFs, the order of ranking preference, highest to lowest, shall first be from 1a to 1c in alphabetical order, then likewise from 2a to 2c, 3a to 3c, and 5a to 5c. Where a lower ranked alternative is proposed, the applicant must file relevant information as indicated in the application requirements for wireless communications facilities including, but not limited to, an affidavit by a radio frequency engineer demonstrating that despite diligent efforts to adhere to the established hierarchy within the geographic search area, higher ranked options are not technically feasible, practical or justified given the location of the proposed wireless communications facility.

C. Where a freestanding WCF is permitted, the order of ranking preference from highest to lowest shall first be from 4a to 4c in alphabetical order, then likewise from 6a to 6c. Where a lower ranked alternative is proposed, the

applicant must file relevant information as indicated in the application requirements for wireless communications facilities including, but not limited to, the existing land uses of the subject and surrounding properties within 300 feet of the subject property, and an affidavit by a radio frequency engineer demonstrating that despite diligent efforts to adhere to the established hierarchy within the geographic search area, higher ranked options are not technically feasible, practical, or justified given the location of the proposed wireless communications facility.

D. This section shall not be interpreted to require applicants to locate on publicly owned sites when lease negotiation processes are prohibitively lengthy or expensive relative to those of the private sector. The applicant is considered justified in selecting a lower-ranked privately-owned property option if the local government fails to approve a memorandum of agreement or letter of intent to lease a specified publicly-owned site within one-hundred twenty (120) days of the application date, or if it is demonstrated that the proposed lease rate for the specified public-owned site significantly exceeds the market rate for comparable privately-owned sites.

(Ord. 7159 §2, 2018; Ord. 6395 §1, 2006).

18.44.090 Permitted Wireless Communication Facilities by Zoning District

A. Generally: Table 44.01, Permitted Wireless Communication Facilities by Zoning District, identifies types of Wireless Communication Facilities which are permitted outright (P), subject to a Conditional Use Permit (C), or prohibited (N). Notwithstanding the provisions of Table 44.01, any Eligible Wireless Facilities Modification subject to Chapter 18.46 is permitted outright.

B. Historic districts and properties: Table 44.01 also identifies types of Wireless Communications Facilities permitted outright (P), subject to a Conditional Use Permit (C), or prohibited (N) in National Historic Districts, or on local, state, or Federal historic register properties, depending on the Zoning District Group (as defined within Table 44.01) wherein the site is located.

Table 44.01 PERMITTED WIRELESS COMMUNICATION FACILITIES BY ZONING DISTRICT

Zoning District Group	Antenna Element Replacement	CONCEALED		Collocated or Combined on Existing WCF	ROW Attached Structure**	Mitigation of Existing WCF	Expanding Existing Antenna Array	NON-CONCEALED	
		Attached WCF	Freestanding WCF					Attached WCF	Freestanding WCF
Group 1. INDUSTRIAL ZONES (I, LI)									
	P	P	P	P	P	P	P	P	P
Group 2. COMMERCIAL ZONES (AS, CSH, DB, GC, HDC-3, HDC-4, MS, UC, UW)									
	P	P	P	P	P	P	P	C	N
Group 3. MIXED USE ZONES (PUD, PO/RM, RMU, UR, UW-H)									
	P	P	C	P	P	C	C	N	N
Group 4. NEIGHBORHOOD ZONES (COSC, HDC-1, HDC-2, MHP, MR 7-13, MR 10-18, NC, NR, NV, R1/5, R4, R4-8, R6-12, RLI, RM-18, RM24, RMH, UV)									
	P	C	C	C	C	C	C	N	N
NATIONAL HISTORIC DISTRICTS and LOCAL, STATE, OR FEDERAL REGISTER PROPERTIES									
Groups 1-3	P	C	C	C	C	C	C	N	N
Group 4	P	N	N	N	N	N	N	N	N
SITES WITHIN 300 FEET OF GROUP 4 - NEIGHBORHOOD ZONES									
Groups 1-3	P	C	C	C	C	C	C	N	N
P - Permitted	C - Conditional Use Permit		N- Not Permitted						

* Notwithstanding the provisions of Table 44.01, any Eligible Wireless Facilities Modification subject to Chapter 18.46 is permitted outright.

** Small Cell Facilities attached to structures in the ROW are allowed as permitted uses except where listed as not permitted; provided such facilities shall have a Master Permit/Franchise approval per OMC Chapter 11.02 and have the approval of an administrative utility permit ensuring compliance with the Engineering Design and Development Standards (EDDS 2.060).

(Ord. 7159 §3, 2018; Ord. 7001 §4, 2016; Ord. 6395 §1, 2006).

18.44.100 Development Standards

A. Generally.

1. Applicability - Development Standards: Unless otherwise specified within this chapter, all development standards of the zoning district within which the WCF is located shall apply. Where permitted as provided in Sections 18.44.090 (Permitted Wireless Communications Facilities by Zoning District) and 18.44.080 (Siting Alternatives Hierarchy), the following development standards apply to all new, mitigated, collocated, or combined wireless facility installations. Where any critical areas (see Chapter 18.32), historic (see Chapter 18.12) or scenic view areas (see Section 18.110.060) or corridor plans also apply, the most restrictive standards shall govern.

2. Equipment cabinets: Cabinets shall not be visible from public views. Cabinets may be provided within the principal building, behind a screen on a rooftop, or on the ground within the fenced-in and screened equipment compound.

3. Fencing: All equipment compounds shall be enclosed with a sight-obscuring wood/brick/masonry fence or wall. Fencing shall be subject to the requirements of Subsection 18.40.060(C) Fences/Hedges, Unified Development Code.

4. Buffers: Any WCF, located in any zone, that is proposed to be installed within three-hundred (300) feet of a neighborhood zone as categorized in Section 18.44.090 Permitted Wireless Communications Facilities by Zoning District shall be subject to the same Section 18.44.090 standards as if being located within a neighborhood zone.

5. Landscaping Requirements: Antenna support structures and WCF equipment compounds shall be subject to the requirements of Chapter 18.36 Landscaping and Screening.

6. Signage:

a. The only signage that is permitted upon a non-concealed antenna support structure, equipment cabinet, or fence shall be informational, and for the purpose of identifying the antenna support structure (such as ASR registration number), as well as the party responsible for the operation and maintenance of the facility, its current address and telephone number, security or safety signs, and property manager signs (if applicable).

b. Where signs are otherwise permitted, a WCF may be concealed inside such signage, provided that all applicable standards for both the signage and the concealed WCF are met.

7. Lighting:

a. Lighting on WCFs, if required by the Federal Aviation Administration (FAA), shall not exceed the FAA minimum standards. Any lighting required by the FAA must be of the minimum intensity and number of flashes per minute (i.e., the longest duration between flashes) allowable by the FAA to minimize the potential attraction to migratory birds. Dual lighting standards are required and strobe light standards are prohibited unless required by the FAA. The lights shall be oriented so as not to project directly onto surrounding residential property, consistent with FAA requirements.

b. Any security lighting for on-ground facilities and equipment shall be in compliance with Title 18 OMC, Unified Development Code.

c. Ground lighting used to respectfully illuminate the American flag on a concealed WCF flagpole shall be permitted subject to Title 18 OMC, Unified Development Code.

8. Compliance with federal standards for interference protection: Any applicant for facilities under this section shall certify that such proposed facility shall comply with all applicable federal regulations regarding interference protection.

9. Compliance with ANSI standards: In order to protect the public from excessive exposure to electromagnetic radiation, the WCF applicant shall certify through a written statement that the facility meets or exceeds current American National Standards Institute (ANSI) standards as adopted by the FCC.

10. Abandonment:

a. WCFs and the equipment compound shall be removed, at the owner's expense, within one hundred eighty days (180) days of cessation of use, unless the abandonment is associated with a replacement antenna structure, in which case the removal shall occur within one hundred eighty days (180) days of the installation of the replacement antenna structure.

b. An owner wishing to extend the time for removal or reactivation shall submit an application stating the reason for such extension. The City may extend the time for removal or reactivation up to ninety (90) additional days upon a showing of good cause. If the antenna support structure or antenna is not removed in a timely fashion, the City may give notice that it will contract for removal within sixty (60) days following written notice to the owner. Thereafter, the City may cause removal of the antenna support structure with costs being borne by the current WCF or land owner.

c. Upon removal of the WCF, the equipment compound and at ground foundations including two feet below ground level, the development area shall be returned to its natural state and topography and vegetation shall be consistent with the natural surroundings or consistent with the current use of the land at the time of removal. The cost of rehabilitation shall be borne by the current WCF or land owner.

B. Attached Wireless Communication Facilities.

1. Generally.

a. Height: The top of the attached WCF shall not be more than eighteen (18) feet above the existing or proposed building or structure.

b. Setbacks: An attached WCF and its equipment compound shall be subject to the setbacks of the underlying zoning district. Antennas may extend a maximum of twenty-four (24) inches into the setback. However no antenna or portion of any structure shall extend into any easement other than a utility easement.

c. Least visually obtrusive profile: Feed lines and antennas shall be designed to architecturally match the facade, roof, wall, or structure on which they are affixed so that they blend with the existing structural design, color, and texture. New antennas shall use the least visually obtrusive profile that will meet the network objectives of the desired coverage area. The visual obtrusiveness of the profile of an unobtrusive antenna or antenna array is ranked from least to most obtrusive as follows:

i. Flush-mounted antenna or antenna array

ii. Unconcealed single omni-directional (whip) antenna

2. Attached non-concealed WCFs.

a. Allowable locations: Shall only be allowed on a building, on existing non-concealed antenna support structures and, where the applicant has an agreement with the applicable utility or other authority that exercises jurisdiction over the subject right of way, on electrical distribution poles, transmission towers, and existing ball park light poles, greater than fifty (50) feet in height, subject to approval of the designated staff or other appropriate agency designee and/or the utility company.

b. Equipment compound or cabinets: Equipment compounds or cabinets for WCFs under this subsection shall be designed and located in such a manner as to not interfere with the subject right of way or its primary utilization.

3. ROW attached structures.

a. Allowable locations: Proposed facilities shall only be allowed where the applicant has an agreement with the applicable utility or other authority that exercises jurisdiction over the subject right of way, on existing or replacement utility poles and electricity towers greater than fifty (50) feet in height. In addition, small cell facilities are also allowed on light poles and existing or replacement utility poles less than fifty (50) feet in height. Location of proposed facilities are subject to approval of the designated staff or other appropriate agency designee and/or the utility company.

b. Equipment compound or cabinets: Equipment compounds or cabinets for WCFs under this subsection shall be designed, located, and screened or concealed in such a manner as to not interfere with the subject right of way or its primary utilization. Depending on site conditions, the review authority may require placement in an underground vault to provide for traffic safety, pedestrian access, or other right-of-way utilization requirements.

C. Freestanding Wireless Communication Facilities.

1. Generally.

a. Determination of need: No new or mitigated freestanding WCF shall be permitted unless the applicant demonstrates that no existing structure can reasonably accommodate the applicant's proposed use; or that use of such existing facilities would prohibit personal wireless services in the geographic search ring to be served by the proposed antenna support structure.

b. Designed for concealed collocation: All new or mitigated freestanding WCF shall be designed for maximum collocation installations.

c. Designed for non-concealed collocation: All new or mitigated freestanding WCFs up to 80 feet in height shall be engineered and constructed to accommodate no less than three (3) antenna arrays. All WCFs between eighty-one (81) feet and one hundred twenty (120) feet shall be engineered and constructed to accommodate no less than four (4) antenna arrays.

d. Least visually obtrusive profile: New freestanding antenna support structures shall be configured and located in a manner that shall minimize adverse effects including visual impacts on the landscape and adjacent properties. New freestanding WCFs shall be designed to match adjacent structures and landscapes with specific design considerations such as architectural designs, height, scale, color, and texture. New antennas shall use the least visually obtrusive profile that will meet the network objectives of the desired coverage area. See Section 18.44.100(B)(1)(c) for ranking of obtrusiveness of visual profiles.

e. Grading: Grading shall be minimized and limited only to the area necessary for the new WCF as approved by the Department of Community Planning and Development.

f. Safety: All support structures shall be certified to comply with the safety standards contained in the Electronics Industries Association /Telecommunications Industries Association (EIA/TIA) document 222-F, or current standard, "Structural Standards for Steel Antenna Towers and Supporting Structures," or current standard, as amended, by a Registered State of Washington Professional Engineer.

2. Freestanding concealed WCFs.

a. Height:

i. In all zoning districts where permitted, the maximum height shall be limited to one hundred twenty (120) feet.

ii. All height limits shall exclude lightning rods or lights required by the FAA that do not provide any support for antennas.

b. Setbacks: A concealed freestanding WCF and its equipment compound shall be subject to the setbacks of the zoning district and shall not be any closer to an adjoining property line than the proposed facility is to any dwelling unit on the property on which it is proposed to be located.

3. Freestanding non-concealed WCFs.

a. Antenna support structure: Freestanding non-concealed WCFs shall be limited to either a lattice type or a monopole type antenna support structures unless the applicant successfully demonstrates that such design is not feasible to accommodate the intended uses.

b. Height:

i. In all zoning districts where permitted, the maximum height shall be limited to one hundred twenty (120) feet.

ii. All height limits shall exclude lightning rods or lights required by the FAA that do not provide any support for antennas.

c. Setbacks: A non-concealed freestanding WCF and its equipment compound shall be subject to the regulations applicable to the underlying zoning district, except where the minimum setback distance for an antenna support structure from any property line or public right-of-way is less than the height of the proposed antenna support structure. In that case:

i. If the antenna support structure has been constructed using breakpoint design technology as defined in Section 18.02.180 Definitions, the minimum setback distance shall be equal to 110 percent of the distance from the top of the structure to the breakpoint level of the structure, plus the minimum setback distance. For example, on a 100-foot tall monopole with a breakpoint at 80 feet, the minimum setback distance would be 22 feet (110 percent of 20 feet, the distance from the top of the monopole to the breakpoint) plus the minimum setback for that zoning district. Certification by a Registered Professional Engineer licensed by the State of Washington of the breakpoint design and the design's fall radius must be provided together with the other information required herein from an applicant.

ii. If the antenna support structure has not been constructed using breakpoint design technology, the minimum setback distance shall be equal to the height of the proposed antenna support structure.

iii. However, in all instances, the minimum setback distance from any residentially zoned property, shall at least meet the minimum setback of said residential zoning district.

d. Least visually obtrusive profile:

i. New antenna support structures shall maintain a galvanized gray finish or other approved contextual or compatible color, except as required by federal rules or regulations.

ii. New antennas shall be flush-mounted, unless it is demonstrated through RF propagation analysis that flush-mounted antennas will not meet the network objectives of the desired coverage area.

4. Mitigation of existing freestanding WCFs.

a. Determination of need: WCF mitigation shall accomplish a minimum of one of the following: reduce the number of WCFs, replace an existing WCF with one that is less visually obtrusive, or replace an existing WCF with a new WCF to improve network functionality resulting in compliance with this ordinance.

b. Height: The height of a WCF approved for mitigation shall not exceed one hundred and fifteen (115) percent of the height of the tallest WCF that is being mitigated up to a maximum of one hundred twenty (120) feet.

c. Setbacks: A new WCF approved for mitigation of an existing WCF shall not be required to meet new setback standards so long as the new WCF and its equipment compound are no closer to any property lines than the WCF and equipment compound being mitigated. For example, if a new WCF is replacing an old one, the new one is allowed to have the same setbacks as the WCF being removed, even if the old one had nonconforming setbacks.

d. Buffers: The proposed WCF equipment compound shall be landscaped as outlined in Paragraph 18.44.100(1)(e) herein.

e. Least visually obtrusive profile: Mitigated antenna-supporting structures shall be configured and located in a manner that minimizes adverse effects on the landscape and adjacent properties, with specific design considerations as to height, scale, color, texture, and architectural design of the buildings on the same and adjacent lots. New antennas shall use the least visually obtrusive profile that will meet the network objectives of the desired coverage area. See Paragraph 18.44.110(2)(a)(iii) for ranking of obtrusiveness of visual profiles.

D. Collocated or Combined Facilities.

1. Generally.

a. Buffers: The proposed WCF equipment compound shall be landscaped as outlined in Paragraph 18.44.100(1)(e) herein.

b. Height: A collocated or combined WCF shall not increase the height of an existing antenna support structure by more than twenty (20) feet, and not to exceed forty-five (45) feet above the allowable building height or a total of one hundred twenty (120) feet, whichever is less.

c. Setbacks:

i. A collocated or combined WCF, its equipment compound, and any ancillary equipment shall be subject to the setbacks of the underlying zoning district.

ii. When a collocated or combined WCF is to be located on a nonconforming building or structure, then the existing permitted nonconforming setback shall prevail.

d. Visibility: New antennas shall be flush-mounted onto existing WCFs, unless it is demonstrated through RF propagation analysis that flush-mounted antennas will not meet the network objectives of the desired coverage area.

E. Satellite Earth Stations.

1. Residential installations. The following provisions apply to satellite earth stations with dish antennas greater than one meter (39.37 inches) in diameter serving single family and multifamily structures with four (4) or less units. Satellite earth stations serving more users are classified as commercial installations, and are subject to Section (2) below. [NOTE: satellite earth stations may require a building permit depending on location and placement.]

a. Conditions. Residential satellite earth stations are permitted uses in all districts subject to the following conditions and all other applicable requirements.

i. Satellite earth stations shall be placed in the area bounded by side yard setback lines, the rear wall line of the primary structure and a line four (4) feet inside the lot measured from the rear property line.

ii. Satellite earth stations permitted under this section shall be restricted to those of mesh type construction, or of solid construction when smaller than eight and one-half (8-1/2) feet in diameter, and should blend as much as possible with the background.

iii. Permitted satellite earth stations shall not exceed a height of fifteen (15) feet above the average grade.

b. Variance Standards. Variances from the location and material construction standards of this section shall be reviewed by the Hearing Examiner in accord with Chapter 18.66 (Variances and Unusual Uses) and shall also be subject to the following requirements:

i. The satellite earth station shall be located on the portion of the site where it will be the least visually obtrusive when viewed from adjacent streets and neighboring properties.

ii. Antennas may be required to be screened with a combination of fencing, landscaping, structures or topography which will block the view of the antenna as much as practicable from adjoining property and rights-of-way. Such screening shall be solid (ninety (90) percent or more opaque) to the level of the center of the dish.

2. Commercial installations. Satellite earth stations used in conjunction with commercial, nonresidential uses, and multifamily housing with five (5) or more units are subject to the following requirements:

a. Roof-mounted satellite earth stations shall be located so as to be visually unobtrusive. Antennas over twelve (12) feet in diameter shall be screened to a height of three (3) feet above ground level or the center of the dish, whichever is greater. The design and material composition of the screening shall be compatible with the building design.

b. Satellite earth stations placed on buildings listed on the National or State Register of Historic Places or the Olympia Heritage Register shall not be visible from fronting or flanking streets.

c. Ground-mounted satellite earth stations shall be located in service areas outside of any required landscaping or front and side yard setback area. Additionally, satellite earth stations shall not be placed in the area between the front setback line and the structure. Screening shall be provided with a combination of fencing, landscaping, structures or topography. The screening shall block the lower (90) percent of the antenna, or reach a height of eight (8) feet, whichever is less. Whenever possible, satellite earth stations shall not be visible from neighboring residential areas.

d. No message or identification other than the manufacturer's identification is allowed to be portrayed on satellite earth stations and such identification shall not exceed ten (10) percent of the antenna's surface area.

F. Radio, Television, and Other Communication Towers, Except Wireless Communication Facilities.

1. Essential Public Facilities. Radio, television, and other communication towers shall meet the requirements of Sections 18.04.060(W).

2. Conditional Use Requirements. The following requirements apply to all radio, television, and other communication towers subject to conditional use approval, except wireless communication facilities.

a. Plans. The applicant shall submit complete plans showing the elevations and locations of the buildings and structures, together with locations of buildings and pertinent topographic features and adjoining properties. Approval of such plans shall be contingent upon compatibility with surrounding properties.

b. Nuisances. Rotary converters, generating machinery, or other equipment that would cause noise, electrical interference or similar disturbances beyond the property line are prohibited.

c. Storage. Outdoor storage of motor vehicles or materials is prohibited.

d. Screening. The site shall be screened; however, if the facility is entirely enclosed within a building, landscaping is sufficient. (See Chapter 18.36, Landscaping and Screening.)

(Ord. 7159 §4, 2018; Ord. 6395 §1, 2006).

18.44.110 Approval Process

All approvals are subject to the review processes outlined in Title 18 OMC, Unified Development Code. Additionally, in accordance with Table 44.01 in Section 18.44.090 Permitted Wireless Communications Facilities by Zoning District, the following approval process shall apply:

A. New WCFs and Antenna Element Replacements Not Subject to Chapter 18.46 (Eligible Wireless Communication Facilities Modifications).

1. Any application submitted pursuant to this section shall be reviewed by City staff for completeness. If any required item fails to be submitted, the application shall be deemed incomplete. Staff shall advise an applicant in writing within twenty (20) business days after submittal of an application regarding the completeness of the application. If the application is incomplete, such notice shall set forth the missing items or deficiencies in the application, which the applicant must correct and/or submit in order for the application to be deemed complete.

2. Within twenty (20) days of receiving a timely response from an interested potential co-applicant, the applicant shall inform the respondent and the City in writing as to whether or not the potential collocation or combining is acceptable and under what conditions. If the collocation or combining is not acceptable, then the applicant must provide the respondent and the City written justification as to why the collocation or combining is not feasible.

B. Supplemental Review. The City reserves the right to require a supplemental review for any type of WCF, subject to the following:

1. Due to the complexity of the methodology or analysis required to review an application for a wireless communication facility, the City will require a technical review by a third party expert approved by the City, the costs of which shall be borne by the applicant and be in addition to other applicable fees.

2. The applicant shall submit the required fee as published in the City's current fee schedule.

3. Based on the results of the expert review, the approving authority may require changes to the applicant's application or submittals.

4. The supplemental review may address any or all of the following:

a. The accuracy and completeness of the application and accompanying documentation.

b. The applicability of analysis techniques and methodologies.

c. The validity of conclusions reached.

d. Whether the proposed wireless communications facility complies with the applicable approval criteria set forth in this Chapter.

e. Other items deemed by the City to be relevant to determining whether a proposed wireless communications facility complies with the provisions of the Olympia Municipal Code.

C. Post Construction Field Testing. Within thirty days of becoming fully operational, all facilities shall be field tested by a third party reviewer, at the applicant's expense, to confirm the theoretical computations of RF emissions.

(Ord. 7001 §4, 2016; Ord. 6395 §1, 2006).

18.44.120 Interference with Public Safety Communications

Whenever the City has encountered radio frequency interference with its public safety communications equipment, and it believes that such interference has been or is being caused by one or more WCFs, the following steps shall be taken:

A. The City shall provide notification to all WCF service providers operating in the jurisdiction of possible interference with the public safety communications equipment. Upon such notification, the owners shall use their best efforts to cooperate and coordinate with the City and among themselves to investigate and mitigate the interference, if any, utilizing the procedures set forth in the joint wireless industry-public safety "Best Practices Guide," released by the FCC in February 2001, including the "Good Engineering Practices," as may be amended or revised by the FCC from time to time.

B. If any WCF owner fails to cooperate with the City in complying with the owner's obligations under this section or if the FCC makes a determination of radio frequency interference with the City public safety communications equipment, the owner who fails to cooperate and/or the owner of the WCF which caused the interference shall be responsible, upon FCC determination of radio frequency interference, for reimbursing the City for all costs associated with ascertaining and resolving the interference, including but not limited to any engineering studies obtained by the jurisdiction to determine the source of the interference. For the purposes of this subsection, failure to cooperate shall include failure to initiate any response or action as described in the "Best Practices Guide" within twenty-four (24) hours of the City's notification.

(Ord. 6395 §1, 2006).

Date:	June 6, 2022
Site Number:	OL0734 – Olympia Mission Creek
FA Code:	10578441
USID:	319980
Address:	1818 4th Avenue East, Olympia, WA 98506
Re:	Radio Frequency Compliance

Statement of Compliance

This AT&T wireless communications facility complies with all federal standards for radio frequency radiation in accordance with the Telecommunications Act of 1996 and subsequent amendments and any other requirements imposed by state or federal regulatory agencies.

Description of Facility:

Location Type: Proposed modification to the wireless communications facility will be comprised of multiple panel antennas and associated radio cabinets utilizing licensed frequencies in the 700, 850, 1900, 2100, and 3700 MHz bands. The purpose of the facility is to provide coverage and/or capacity to the geographic service area.

Power Density:

The power density from any sector as designed with the proposed facility shall not exceed the FCC maximum permissible exposure limits in accordance with FCC Public Standards OET Bulletin 65 (e.g., 1 mW/cm^2 at 1900 MHz) at any location that is considered readily accessible by the general public.

The proposed facility should not interfere with other communications facilities. Our sites are monitored 24/7 by a national operations center to insure all is operating normally. In addition, we have local technicians who make routine visits to cell sites to make repairs when needed. AT&T audits our facilities on a semi-annual basis to ensure that FCC compliance levels are continuously met.

If requested, a detailed radio frequency emission safety report detailing the maximum potential exposures will be provided to the jurisdiction.

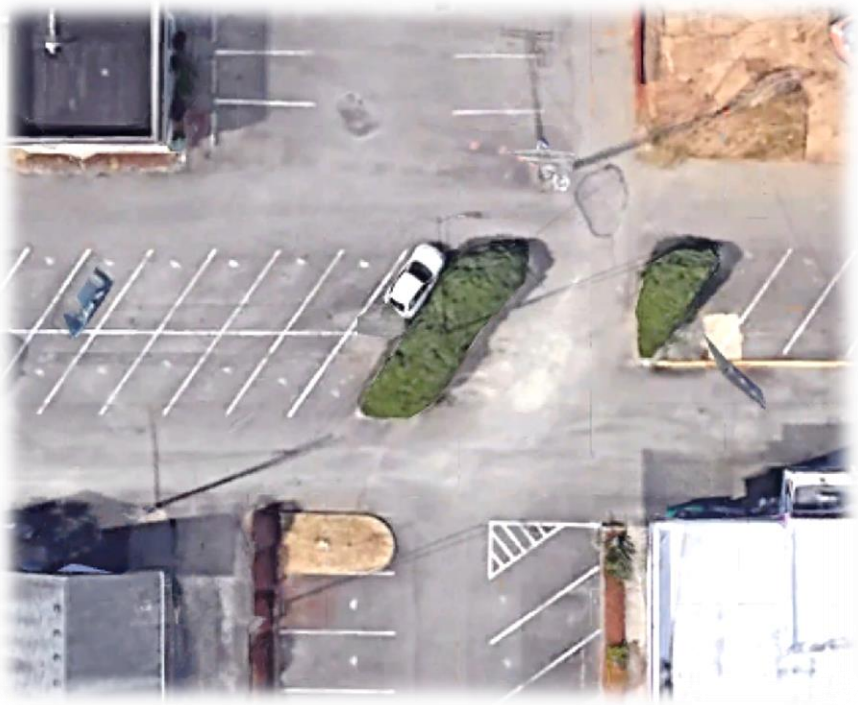
Sincerely,

Juvylyn Calces
AT&T Mobility - RAN Engineering

at&t

MobileComm Professionals, Inc.
Your ISO 9001-2000 Certified, Quality Centric RF Safety Services Partner

Radio Frequency Safety Survey Report Predictive (RFSSRP) Prepared For AT&T



Site Name:	OLYMPIA MISSION CREEK
FA#	10578441
USID:	319980
Site ID:	OL0734
Address:	1818 FOURTH AVENUE EAST OLYMPIA, WA 98506
County:	THURSTON
Latitude:	47.0465830
Longitude:	-122.8770290
Structure Type:	STEALTH POLE-EXTRNL ARRAY
Property Owner:	ELKS LODGE
Pace Job:	MRWOR005896
RFDS Technology:	LTE

Report Information

Report Writer: Vishesh Kumar

Report Generated Date: 01-17-2023(v2)

Compliance Statement

AT&T Mobility Compliance Statement: Based on the information collected, AT&T Mobility will be Compliant when the remediation recommended in section 5 or appropriate remediation determined by AT&T is implemented

Table of Contents

1. Executive Summary

1.1 Site Summary

Max Predictive Spatial Average MPE% & Location on Site (General Public)	164034.00% on Antennas Centerline Level & at AT&T Sec-A antenna no. #A3
Max Predictive Spatial Average MPE% at Ground Level (General Public)	0.25%
AT&T Mobility Site Compliance	AT&T Mobility will be Compliant by implementing remediation recommended as per section 5 in this report.

TABLE 1: Site Summary

1.2 Signage Summary (Proposed)

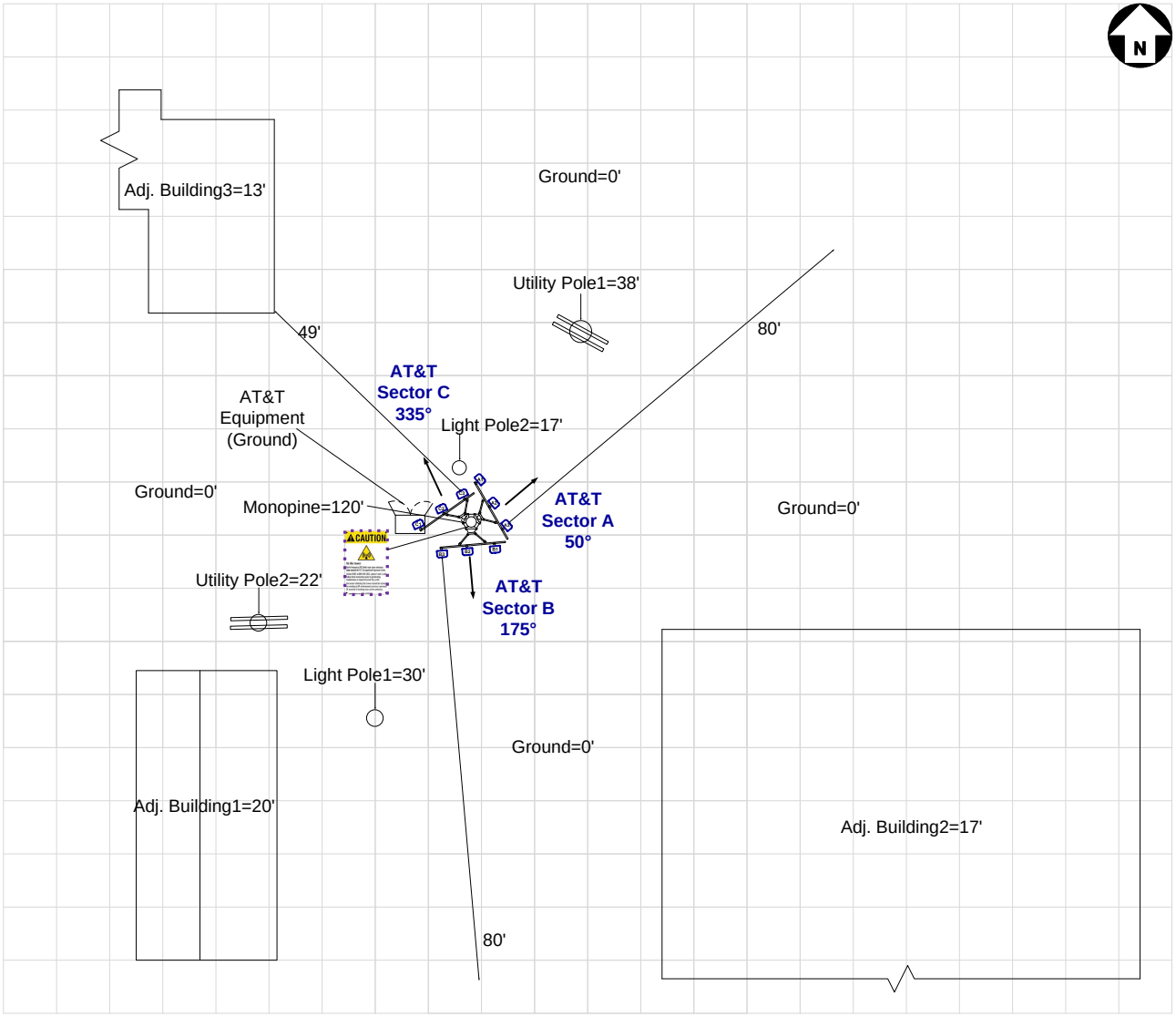
AT&T Signage Locations	Sign Type									
	Safety Instructions	Notice Sign 2	Caution Sign 2	Caution Sign 2B	Caution Sign 2C	Caution 7"x7"	Warning Sign 1B	RF Exposure Map	Lock	Barriers
Access Point(s)				1						
Alpha										
Beta										
Gamma										

TABLE 2: Signage Summary (Proposed)

1.3 List of Documents used to prepare this Report

- *AT&T_OL0734 Olympia Mission Creek_90% NB CD REV A_2022-11-07*
- *SEATTLE-OREGON-NO.-ID_WASHINGTON_WAL00734_2023-New-Site_LTE_kl734n_3804628437_10578441_319980_05-02-2022_Final-Approved_v1.00*

2. Site Scale Map



AT&T Antenna	Proposed	Proposed Signage									
Panel	Barrier	Safety Instructions	Notice 2	Caution 2	Caution 2B	Caution 2C	Caution 7"x7"	Warning 1B	RF Exposure Map	Lock	***Map Scale = 10 ft***
OMNI	Posts										

3. Antenna Inventory

Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	Az (°)	EDT (°)	EDT Range for analysis (°)	MDT (°)	HBW (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	Transmitter Power (Watts)	Total Loss (dB)	Total ERP (Watts)	Total EIRP (Watts)
A1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(B12)	50	3	2-4	0	65	14.85	8	120.00	0.5	3267.24	5360.20
A1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(FN)	50	3	2-4	0	65	14.85	8	120.00	0.5	3267.24	5360.20
A1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(B29)	50	3	2-4	0	65	14.85	8	37.50	0.5	1021.01	1675.06
A1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	1900	LTE/5G	50	1	1-2	0	65	18.85	8	240.00	0.5	16413.88	26928.44
A1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	2100	LTE	50	1	1-2	0	65	18.85	8	120.00	0.5	8206.94	13464.22
A2	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	850	5G	50	3	2-4	0	65	14.85	8	120.00	0.5	3267.24	5360.20
A3	AT&T	Nokia	AEQK N77^	Panel	3840	5G	50	6	6	0	13	22.62	2.46	54.22*	0	9912.11*	16261.7*
B1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(B12)	175	5	4-6	0	65	14.85	8	120.00	0.5	3267.24	5360.20
B1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(FN)	175	5	4-6	0	65	14.85	8	120.00	0.5	3267.24	5360.20
B1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(B29)	175	5	4-6	0	65	14.85	8	37.50	0.5	1021.01	1675.06
B1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	1900	LTE/5G	175	2	1-3	0	65	18.85	8	240.00	0.5	16413.88	26928.44
B1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	2100	LTE	175	2	1-3	0	65	18.85	8	120.00	0.5	8206.94	13464.22
B2	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	850	5G	175	4	3-5	0	65	14.85	8	120.00	0.5	3267.24	5360.20
B3	AT&T	Nokia	AEQK N77^	Panel	3840	5G	175	6	6	0	13	22.62	2.46	54.22*	0	9912.11*	16261.7*
C1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(B12)	335	4	3-5	0	65	14.85	8	120.00	0.5	3267.24	5360.20
C1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(FN)	335	4	3-5	0	65	14.85	8	120.00	0.5	3267.24	5360.20
C1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	700	LTE(B29)	335	4	3-5	0	65	14.85	8	37.50	0.5	1021.01	1675.06
C1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	1900	LTE/5G	335	1	1-2	0	65	18.85	8	240.00	0.5	16413.88	26928.44
C1	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	2100	LTE	335	1	1-2	0	65	18.85	8	120.00	0.5	8206.94	13464.22
C2	AT&T	CellMax	CMA-UBTULBULBHH-6517-17-21-21	Panel	850	5G	335	4	3-5	0	65	14.85	8	120.00	0.5	3267.24	5360.20
C3	AT&T	Nokia	AEQK N77^	Panel	3840	5G	335	6	6	0	13	22.62	2.46	54.22*	0	9912.11*	16261.7*

Table 3.1: Antenna Inventory Table

Note: ^ **Mechanical Tilt value of "0°" MUST be retained for C-BAND and/or DoD AAS antenna(s) at all times to ensure that "EME (Predictive) Study" shall remain valid.**
Any change in EDT value beyond "EDT Range for Analysis (^{0})" as mentioned in the table above will require a new EME (Predictive) study.
* 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor[1] are used to calculate Transmitter Power & ERP/EiRP

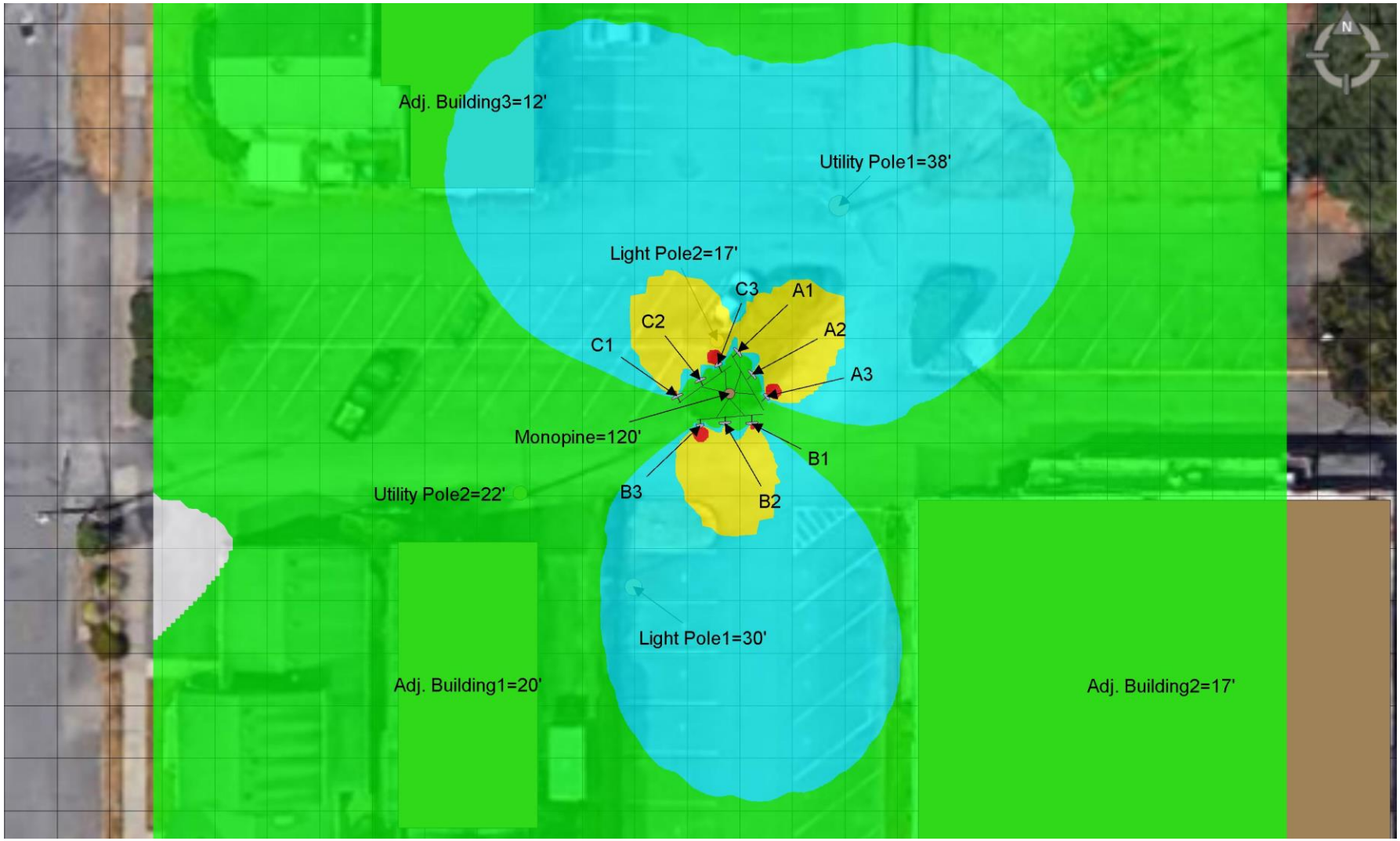
Antenna Heights (Z)

Ant ID	Operator	Antenna Radiation Centerline	Z-Height from Utility Pole1	Z-Height from Light Pole1	Z-Height from Adj. Building2	Z-Height from Light Pole2	Z-Height from Adj. Building3	Z-Height from Ground
A1	AT&T	116.00	74.00	82.00	95.00	95.00	100.00	112.00
A2	AT&T	116.00	74.00	82.00	95.00	95.00	100.00	112.00
A3	AT&T	116.00	76.77	84.77	97.77	97.77	102.77	114.77
B1	AT&T	116.00	74.00	82.00	95.00	95.00	100.00	112.00
B2	AT&T	116.00	74.00	82.00	95.00	95.00	100.00	112.00
B3	AT&T	116.00	76.77	84.77	97.77	97.77	102.77	114.77
C1	AT&T	116.00	74.00	82.00	95.00	95.00	100.00	112.00
C2	AT&T	116.00	74.00	82.00	95.00	95.00	100.00	112.00
C3	AT&T	116.00	76.77	84.77	97.77	97.77	102.77	114.77

Table 3.2: Antenna Height(s) Summary Table

4. Predicted Emission

4.1 Predictive Cumulative MPE Contribution from All Sources at Antennas Centerline Level (116 ft.)



Max. Predictive Spatial Average MPE% = **164034.00%**

Proposed Barrier
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.2 Predictive Cumulative MPE Contribution from All Sources at Utility Pole1 Level (38 ft.)

Max. Predictive Spatial Average MPE% = **0.41%**

Proposed Barrier
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.3 Predictive Cumulative MPE Contribution from All Sources at Light Pole1 Level (30 ft.)

Max. Predictive Spatial Average MPE% = **0.18%**

Proposed Barrier

Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.4 Predictive Cumulative MPE Contribution from All Sources at Adj. Building2 Level (17 ft.)

Max. Predictive Spatial Average MPE% = **0.28%**

Proposed Barrier

Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.5 Predictive Cumulative MPE Contribution from All Sources at Light Pole2 Level (17 ft.)

Max. Predictive Spatial Average MPE% = **0.01%**

Proposed Barrier

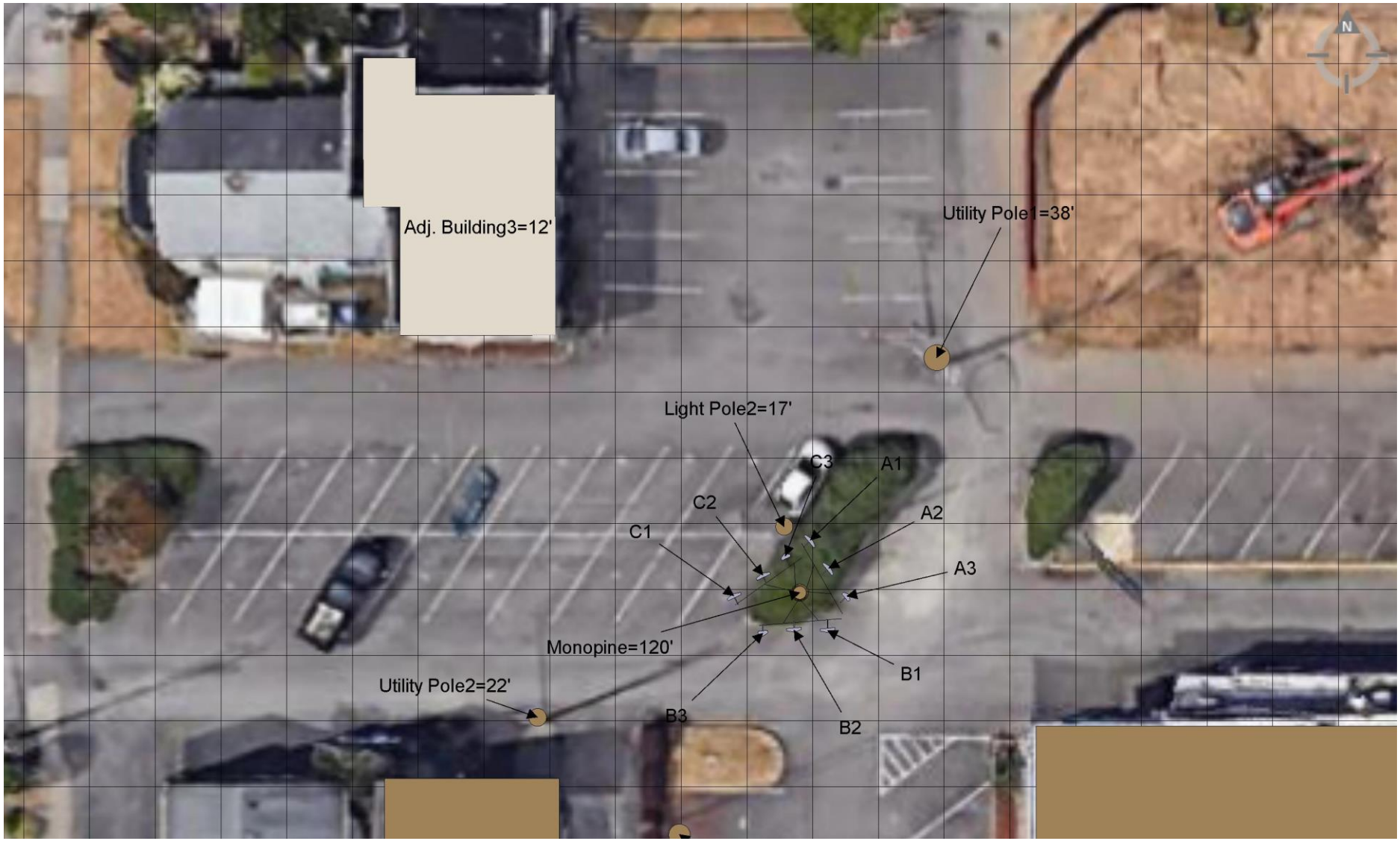
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.6 Predictive Cumulative MPE Contribution from All Sources at Adj. Building3 Level (12 ft.)



Max. Predictive Spatial Average MPE% = **0.30%**

Proposed Barrier

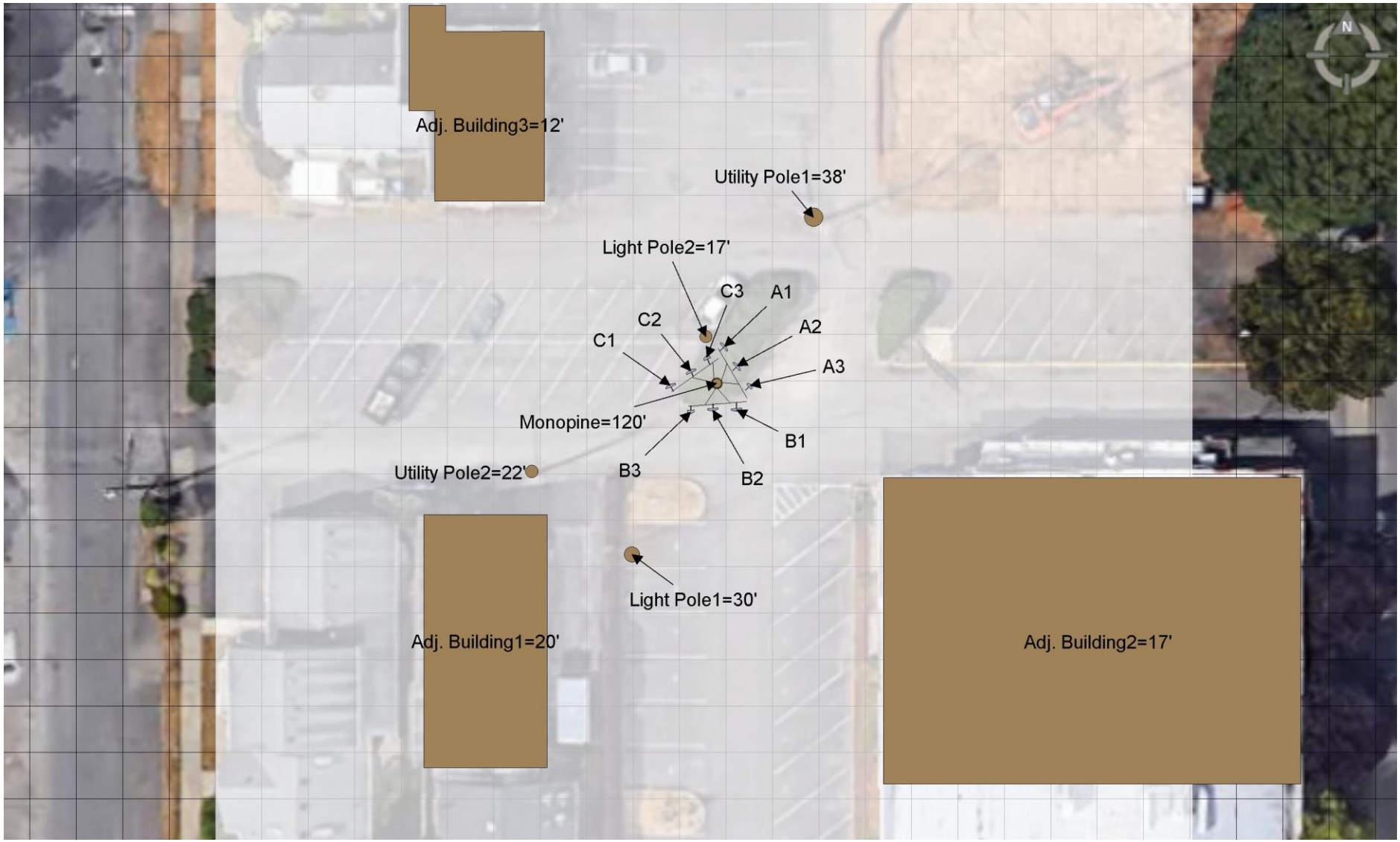
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.7 Predictive Cumulative MPE Contribution from All Sources at Ground Level (0 ft.)



Max. Predictive Spatial Average MPE% = **0.25%**

Proposed Barrier

Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

5. Statement of Compliance

5.1 Statement of AT&T Mobility Compliance

At the time of our Analysis, AT&T Mobility is required to take action to fulfill their Obligations to comply with the FCC's mandate as defined in OET-65

Recommendations

AT&T Alpha Sector:

- No action required.

AT&T Beta Sector:

- No action required.

AT&T Gamma Sector:

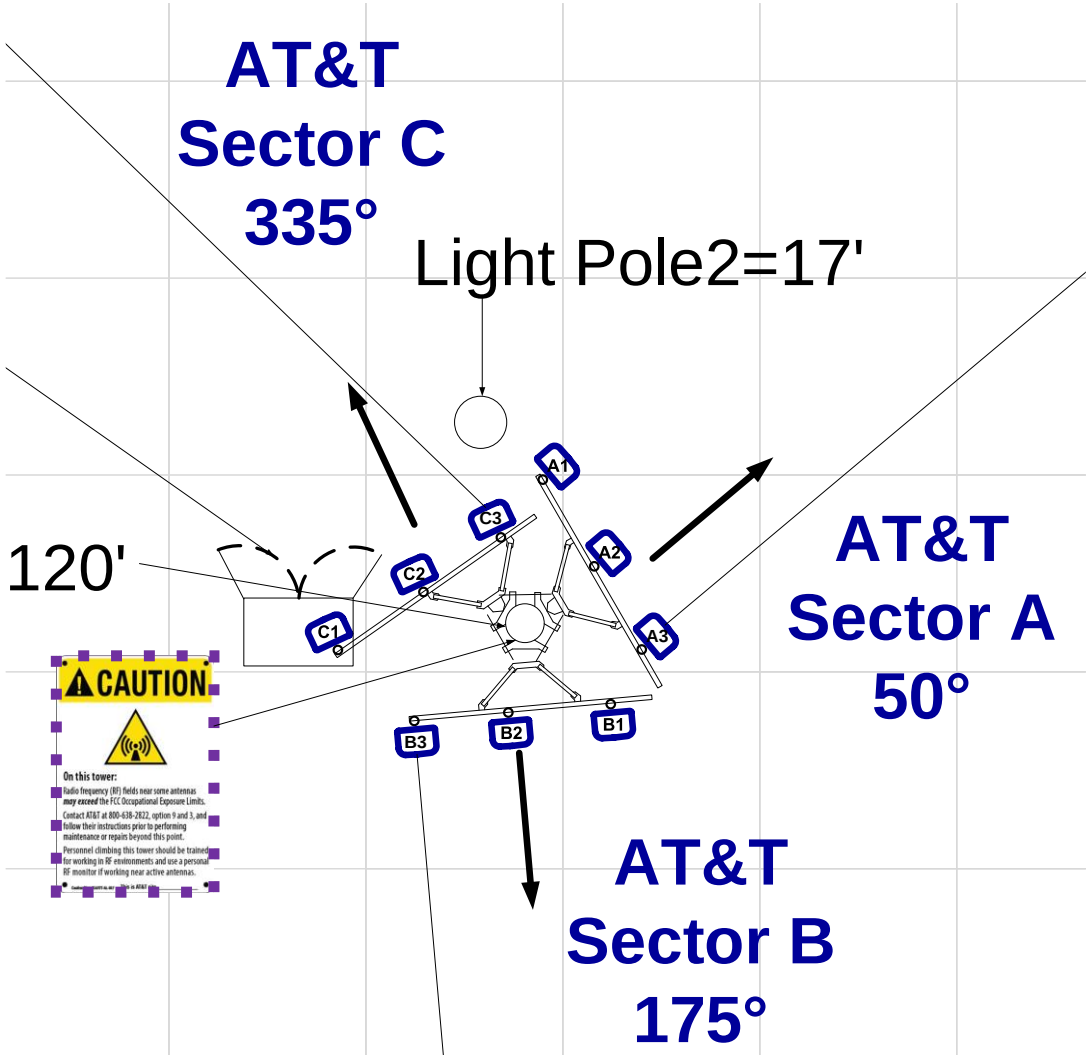
- No action required.

Monopine:

- One Caution 2B Sign to be posted on Monopine at climbing access, facing outwards so approaching people can see as shown in "Recommendations Map – Detailed View" on page 15. (1 Total Sign)

Recommendations Map – Detailed View

AT&T Alpha, Beta & Gamma Sectors



AT&T Antenna	Proposed	Proposed Signage									
Panel	Barrier	Safety Instructions	Notice 2	Caution 2	Caution 2B	Caution 2C	Caution 7"x7"	Warning 1B	RF Exposure Map	Lock	***Map Scale = 10 ft***
OMNI	Posts										

6. Certification

This report has been prepared by or under the direction of the following Registered Professional Engineer:

I, Michael McGuire P.E. State: Washington on date: 01/18/2023 hereby certify that:

I am registered as a Professional Engineer with License number: 48721 and that I am thoroughly familiar with the Regulations of the Federal Communications Commission (FCC), both in general and specifically as they apply to FCC guidelines for human exposure to Radio-frequency electromagnetic radiation and that EME theoretical analysis for site identified as 10578441 located at 1818 FOURTH AVENUE EAST OLYMPIA, WA 98506, has been performed on 01-17-2023 in order to determine where there might be electromagnetic energy that is in excess of both the Controlled Environment and Uncontrolled Environment levels; and that I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge.

Reference Mobile Comm Report #10578441
sealed 18jan2023 mike@h2dc.com
H2DC PLLC WA UBI#: 604 476 076

Appendix A – Statement of Limiting Conditions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at full power at all times. AT&T has further recommended to assume a 75% duty cycle of maximum radiated power for all LTE & 5G carriers (& consider 100% duty cycle for all UMTS carriers).

In this site compliance report, it is assumed that Mechanical Tilt value of "0°" MUST be retained for C-BAND and/or DoD AAS^ antenna(s) at all times to ensure that "EME (Predictive) Study" shall remain valid.

AT&T recommended to consider - For C-BAND and/or DoD AAS^ antenna(s) 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor[1] are used to calculate Transmitter Power & ERP/EiRP.

AT&T recommended to use worst-case tilts (small E-tilt range) for the simulations.

***Power Reduction Factor**: IEC Standard 62232: 2017 allows for a statistically conservative power density model to more realistically define the RF exposure area. AT&T recommends a "0.32" factor to calculate the "Actual Maximum" (time averaged) power value, which accounts for "Beam Scanning," "Scheduling," and "RBS Utilization" This recommended value is a conservative figure modelled and supported by other vendors and through measurements published in scientific articles and white papers by IEEE and others. Those publication are listed below:*

1. IEEE Access, Time-Averaged Realistic Maximum Power Levels for the Assessment of RF Exposure for 5G Radio Base Stations Using Massive MIMO (Published Sept. 18, 2017 / BJÖRN THORS, ANDERS FURUSKÄR, DAVIDE COLOMBI, AND CHRISTER TÖRNEVIK)
2. IEEE Explore, A Statistical Approach for RF Exposure Compliance Boundary Assessment in Massive MIMO Systems (Published Jan. 25, 2018 / Paolo Baracca, Andreas Weber, Thorsten Wild, Christophe Grangeat)
3. IEEE Access, In-situ Measurement Methodology for the Assessment of 5G NR Massive MIMO Base Station Exposure at Sub-6 GHz Frequencies (Published Dec. 20, 2019/SAM AERTS, LEEN VERLOOCK, MATTHIAS VAN DEN BOSSCHE, DAVIDE COLOMBI, LUC MARTENS, CHRISTER TÖRNEVIK AND WOUT JOSEPH)
4. Applied Sciences, Analysis of the Actual Power and EMF Exposure from Base Stations in a Commercial 5G Network (Published July 30, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)
5. Ofcom Technical Report, Electromagnetic Field (EMF) measurements near 5G mobile phone base stations (Published Feb. 21, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)

MobileComm believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor). Thus, at any time, if power density measurements were made, we believe the real time measurements would indicate levels below those depicted in the RF emission diagram(s) in this report. By modelling in this way, MobileComm has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.

Use of Generic Antennas

For the purposes of this report, the use of "Generic" as an antenna model, or "Other Carrier" for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, MobileComm uses the closest frequency in the antenna's range that corresponds to the highest Maximum Exposure Limit (MPE), resulting in a conservative analysis.

Appendix B – FCC Guidelines and Emissions Threshold Limits

All power density values used in this report were analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (µW/cm2).The number of µW/cm2 calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General Population/Uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (µW/cm2). The general population exposure limit for the 700 and 800 MHz Bands is approximately 467 µW/cm2 and 567 µW/cm2 respectively, and the general population exposure limit for the 1900 MHz PCS and 2100 MHz AWS bands is 1000 µW/cm2. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure, have been properly trained in RF safety and can exercise control over their exposure. Occupational/Controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure, have been trained in RF safety and can exercise control over his or her exposure by leaving the area or by some other appropriate means. The Occupational/Controlled exposure limits all utilized frequency bands is five (5) times the FCC's General Public / Uncontrolled exposure limit.

Additional details can be found in FCC OET 65.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $[E]^2$, $[H]^2$, or S (minutes)**
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-I,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $[E]^2$, $[H]^2$, or S (minutes)**
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-I,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

Appendix C – Rules & Regulations

Explanation of Applicable Rules and Regulations

FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Currently, there are two different levels of MPE - General Public MPE and Occupational MPE. An individual classified as Occupational can be defined as an individual who has received appropriate RF training and meets the conditions outlined below. General Public is defined as anyone who does not meet the conditions of being Occupational. FCC Rules and Regulations define compliance in terms of total exposure to total RF energy, regardless of location of or proximity to the sources of energy.

It is the responsibility of all licensees to ensure these guidelines are maintained at all times. It is the ongoing responsibility of all licensees composing the site to maintain ongoing compliance with FCC rules and regulations.

A building owner or site manager can use this report as part of an overall RF Health and Safety Policy. It is important for building owners/site managers to identify areas in excess of the General Population MPE and ensure that only persons qualified as Occupational are granted access to those areas.

Occupational Environment Explained

The FCC definition of Occupational exposure limits apply to persons who:

- *are exposed to RF energy as a consequence of their employment;*
- *have been made aware of the possibility of exposure; and*
- *can exercise control over their exposure.*

FCC guidelines go further to state that persons must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General Public. Compliance is also maintained when any non-occupational individuals (the General Public) are prevented from accessing areas indicated as Red or Yellow in the attached RF Emissions diagram. In addition, a person must be aware of the RF environment into which they are entering. This can be accomplished by an RF Safety Awareness class, and by appropriate written documentation such as this Site Compliance Report.

Appendix D – General Safety Recommendations

The following are general recommendations appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

1. All individuals needing access to the main site should be instructed to read and obey all posted placards and signs.

2. The site should be routinely inspected and this or similar report updated with the addition of any antennas or upon any changes to the RF environment including:

- *adding new antennas that may have been located on the site*
- *removing of any existing antennas*
- *changes in the radiating power or number of RF emitters*

3. Post the appropriate SAFETY INSTRUCTIONS, NOTICE, CAUTION & WARNING sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure Diagrams in the report section above, to inform everyone who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC. The signs below are examples of signs meeting FCC guidelines.

4. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general public if deemed as policy by the building/site owner.

5. For a General Public environment the five color levels identified in measured RF emission diagram can be interpreted in the following manner:

- *White represents areas predicted to be greater than or equal to 0% and less than 1% of the MPE general public limits*
- *Green represents areas predicted to be greater than or equal to 1% and less than 100% of the MPE general public limits*
- *Blue represents areas predicted to be greater than or equal to 100% and lesser than 500% of the MPE general public limits.*
- *Yellow represents areas predicted to be greater than or equal to 500% and lesser than 5000% of the MPE general public limits.*
- *Red areas indicates predicted levels greater than or equal to 5000% of the MPE general public limits.*

Appendix E – References

1 - FCC Definition

FCC defines an Occupational or Controlled environment as one where persons are exposed to RF fields as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Typical criteria for an Occupational or Controlled environment is restricted access (i.e. locked doors, gates, etc.) to areas where antennas are located coupled with proper RF warning signage.

FCC defines a site as a General Public or Uncontrolled environment when human exposure to RF fields occurs to the general public or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over the exposure. Typical criteria for a General Public or Uncontrolled environment are unrestricted access (i.e. unlocked or no restrictions) to areas where antennas are located without proper RF warning signage being posted.

2 - Physical Testing measurement procedure and Tools

The Narda Broadband Field Meter NBM-550 can make rapid conformance measurements with evaluation in the time domain when used in conjunction EA5091 probe. This probe is a so-called Shaped Probe, i.e. it is frequency weighted so that it automatically takes account of the FCC Occupational limit values. To collect data, the probe is pointed towards the potential source(s) of EME radiation and moved slowly from ground level up to slightly above head height (approx. 6 ft).

Spatial Average Measurement A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.

3 - Site Safety Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: *Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.*

Training and Qualification Verification: *All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a workers understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet based courses).*

Physical Access Control: *Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:*

- *Locked door or gate*
- *Alarmed door*
- *Locked ladder access*
- *Restrictive Barrier at antenna locations (e.g. Chain link with posted RF Sign)*

RF Signage: *Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.*

Assume all antennas are active: *Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.*

Maintain a 3 foot clearance from all antennas: *There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.*

Rooftop RF Emissions Diagram: *Section 4 of this report contains an RF Emissions Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas on the rooftop. This analysis is all theoretical and assumes a duty cycle of 75% for each transmitting antenna at full power. This analysis is a worst case scenario. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.*

4 - Definitions

Compliance- *The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation from transmitting antennas.*

Decibel (dB) – *A unit for measuring power or strength of a signal.*

Duty Cycle – *The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 75% corresponds to continuous operation.*

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – *The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna, this product is divided by the cable losses*

Effective Radiated Power (ERP) – *In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.*

Gain (of an antenna in dbd) – *The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from a reference dipole. Gain is a measure of the relative efficiency of a directional antennas as compared to a reference dipole.*

General Population/Uncontrolled Environment – *Defined by the FCC, as an area where RFR exposure may occur to persons who are unaware of the potential for exposure and who have no control of their exposure. General Population is also referenced as General Public.*

Generic Antenna – *For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of antenna models to select a worst case scenario antenna to model the site.*

Isotropic Antenna – *An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.*

Maximum Measurement – *This measurement represents the single largest measurement recorded when performing a spatial average measurement.*

Maximum Exposure Limit (MPE) – *The RMS and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.*

Occupational/Controlled Environment – *Defined by the FCC, as an area where Radio Frequency Radiation (RFR) exposure may occur to persons who are aware of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.*

Radio Frequency Radiation – *Electromagnetic waves that are propagated from antennas through space.*

Spatial Average Measurement – *A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.*

Transmitter Power Output (TPO) – *The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load.*

Appendix F – Proprietary Statement

This report was prepared for the use of AT&T Mobility, LLC to meet requirements specified in AT&T's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by MobileComm are based solely on the information provided by AT&T Mobility and all observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to MobileComm so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Southwest Region Office
PO Box 47775, Olympia, WA 98504-7775 • 360-407-6300

November 9, 2022

Lydia Moorhead, Associate Planner
City of Olympia
Community Planning and Development
P.O. Box 1967
Olympia, WA 98507-1967

Dear Lydia Moorehead:

Thank you for the opportunity to comment on the optional determination of nonsignificance/notice of application for the Olympia Mission Creek Wireless Facility Project (22-5612) located at 1818 4th Avenue East as proposed by Phillip Kitzes for J5 Infrastructure Partners. The Department of Ecology (Ecology) reviewed the environmental checklist and has the following comment(s):

SOLID WASTE MANAGEMENT: Derek Rockett (360) 407-6287

All grading and filling of land must utilize only clean fill. All other materials may be considered solid waste and permit approval may be required from your local jurisdictional health department prior to filling. All removed debris resulting from this project must be disposed of at an approved site. Contact the local jurisdictional health department or Department of Ecology for proper management of these materials.

TOXICS CLEANUP: Thomas Middleton (360) 999-9594

This property is within a quarter mile of a known or suspected contaminated site. The site is Eastside Laundry FSID #14214153. To search and access information concerning this site see http://www.ecy.wa.gov/fs/ and https://fortress.wa.gov/ecy/gsp/SiteSearchPage.aspx.

If contamination is suspected, discovered, or occurs during the proposed SEPA action , testing of the potentially contaminated media must be conducted. If contamination of soil or groundwater is readily apparent, or is revealed by sampling, the Department of Ecology must be notified. Contact the Environmental Report Tracking System Coordinator at the Southwest Regional Office at (360) 407-6300. For assistance and information about subsequent cleanup and to identify the type of testing that will be required, contact Thomas Middleton with the Toxics Cleanup Program at the Southwest Regional Office at (360) 999-9594.

WATER QUALITY/WATERSHED RESOURCES UNIT:
Evan Wood (360) 706-4599

Erosion control measures must be in place prior to any clearing, grading, or construction. These control measures must be effective to prevent stormwater runoff from carrying soil and other pollutants into surface water or storm drains that lead to waters of the state. Sand, silt, clay particles, and soil will damage aquatic habitat and are considered to be pollutants.

Any discharge of sediment-laden runoff or other pollutants to waters of the state is in violation of Chapter 90.48 RCW, Water Pollution Control, and WAC 173-201A, Water Quality Standards for Surface Waters of the State of Washington, and is subject to enforcement action.

Construction Stormwater General Permit:
The following construction activities require coverage under the Construction Stormwater General Permit:

1. Clearing, grading and/or excavation that results in the disturbance of one or more acres **and** discharges stormwater to surface waters of the State; and
2. Clearing, grading and/or excavation on sites smaller than one acre that are part of a larger common plan of development or sale, if the common plan of development or sale will ultimately disturb one acre or more **and** discharge stormwater to surface waters of the State.
    a) This includes forest practices (including, but not limited to, class IV conversions) that are part of a construction activity that will result in the disturbance of one or more acres, **and** discharge to surface waters of the State; and
3. Any size construction activity discharging stormwater to waters of the State that Ecology:
    a) Determines to be a significant contributor of pollutants to waters of the State of Washington.
    b) Reasonably expects to cause a violation of any water quality standard.

If there are known soil/ground water contaminants present on-site, additional information (including, but not limited to: temporary erosion and sediment control plans; stormwater pollution prevention plan; list of known contaminants with concentrations and depths found; a site map depicting the sample location(s); and additional studies/reports regarding contaminant(s)) will be required to be submitted. For additional information on contaminated construction sites, please contact Carol Serdar at Carol.Serdar@ecy.wa.gov, or by phone at (360) 742-9751.

Additionally, sites that discharge to segments of waterbodies listed as impaired by the State of Washington under Section 303(d) of the Clean Water Act for turbidity, fine sediment, high pH, or phosphorous, or to waterbodies covered by a TMDL may need to meet additional sampling and record keeping requirements. See condition S8 of the Construction Stormwater General Permit for a description of these requirements. To see if your site discharges to a TMDL or 303(d)-listed waterbody, use Ecology's Water Quality Atlas at: https://fortress.wa.gov/ecy/waterqualityatlas/StartPage.aspx.

The applicant may apply online or obtain an application from Ecology's website at: http://www.ecy.wa.gov/programs/wq/stormwater/construction/ - Application. Construction site operators must apply for a permit at least 60 days prior to discharging stormwater from construction activities and must submit it on or before the date of the first public notice.

Ecology's comments are based upon information provided by the lead agency. As such, they may not constitute an exhaustive list of the various authorizations that must be obtained or legal requirements that must be fulfilled in order to carry out the proposed action.

If you have any questions or would like to respond to these comments, please contact the appropriate reviewing staff listed above.

Department of Ecology
Southwest Regional Office

(GMP:202205359)

cc: Derek Rockett, SWM
Thomas Middleton, TCP
Evan Wood, WQ

From: Lydia Moorehead
To: Scott Barricklow
Cc: Bonnie Barricklow
Subject: RE: Olympia Mission Creek Wireless Facility
Date: Monday, November 7, 2022 1:18:00 PM

Thanks Scott for your comments. I will forward these onto the applicant.

I'm not seeing public utilities in this area so you must be referring to private utilities like cable & power? Do you have the locations of the utilities by chance? And, what utilities? Do you know if easements are in place for utilities extending over 1818 4th Avenue? No utility easements are noted on the title report for this property.

Typically, private utilities and how they cross adjacent properties are a matter between property owners and the utility companies. While we would like to see any easements that are in place in or near the project area, we cannot require the applicant to relocate poles on your property. The proposed wireless facility is located entirely on the property owned by lodge and should not extend into the alley. Your access would remain open within the alley.

I will ask the applicant to provide additional information regarding private utilities to get a better idea of what is going on in the project area. If you have any additional information about the locations & types of utilities you referred to in your email, please let me know.

Thanks,

Lydia Moorehead | Associate Planner
Olympia Planning & Community Development Department
601 4th Avenue East | PO Box 1967 |Olympia WA 98507-1967
360.570.3746
lmoorehe@ci.olympia.wa.us

From: Scott Barricklow <scott@iwanttv.com>
Sent: Saturday, November 05, 2022 9:10 AM
To: Lydia Moorehead <lmoorehe@ci.olympia.wa.us>
Cc: Bonnie Barricklow <bonnie@celltell.com>
Subject: Olympia Mission Creek Wireless Facility

I have a concern regarding the proposed wireless tower at 1818 4th Ave. Our utility lines run thru the area where the tower is being placed. I would like to know the plan for re-routing these please.

Also we have a utility pole (Cable and phone) on out property that has always made it difficult to access out driveway. Those lines also travel thru the tower area and need relocated. The

addition of the fencing in the parking area could make it even more difficult to access our driveway.

I would like to see that pole removed and a new taller one relocated to the east. This could then support the power to our buildings as well as the phone and cable lines. The removal of the pole would also allow greater access to our driveway even with the fencing in place.

Please reply to confirm receipt and if this solution works.

Thanks,
Scott Barricklow
Sky Systems
1806 4th Ave E. Olympia, WA 98506
360-943-9700
http://iwanttv.com
See installation photos at.. https://www.facebook.com/skysystems

Tressa Pagel

From: Shaun Dinubilo <sdinubilo@squaxin.us>
Sent: Thursday, November 10, 2022 9:24 AM
To: Lydia Moorehead
Subject: RE: City of Olympia - Notice of Land Use Application, Anticipated SEPA Determination and Public Meetings

Hi Lydia,

Thank you for contacting the Squaxin Island Tribe Cultural Resources Department regarding the above listed project for our review and comment. We have no specific cultural resource concerns for this project. However, if DAHP recommends a survey, or any other additional recommendations, we concur with DAHP's recommendations. We would prefer to receive an electronic copy by email once completed. If any archaeological or cultural resources are uncovered during implementation, please halt work in the area of discovery and contact DAHP and the Squaxin Island Tribe's Archaeologist, Shaun Dinubilo via email at sdinubilo@squaxin.us.

Shaun Dinubilo
Archaeologist
Cultural Resource Department
Squaxin Island Tribe
200 S.E. Billy Frank Jr. Way
Shelton, WA 98584
Office Phone: 360-432-3998
Cell Phone: 360-870-6324
Email: sdinubilo@squaxin.us

Email is my perferred method of communication.

As per 43 CFR 7.18[a][1]) of the Archaeological Resource Protection Act, Section 304 of the National Historic Preservation Act, and RCW 42.56.300 of the Washington State Public Records Act-Archaeological Sites, all information concerning the location, character, and ownership of any cultural resource must be withheld from public disclosure.

From: Lydia Moorehead <lmoorehe@ci.olympia.wa.us>
Sent: Wednesday, November 2, 2022 10:25 AM
To: Shaun Dinubilo <sdinubilo@squaxin.us>
Subject: RE: City of Olympia - Notice of Land Use Application, Anticipated SEPA Determination and Public Meetings

Hi Shaun,

The proposal is to put the tower in what is currently a landscape island in the parking lot. No changes to the building itself are proposed. Does that help? Let me know if you need some other visual, I know that the site plan is hard to make out, but that is what the applicant gave us…

Lydia Moorehead | Associate Planner
Olympia Planning & Community Development Department
601 4th Avenue East | PO Box 1967 |Olympia WA 98507-1967
360.570.3746
lmoorehe@ci.olympia.wa.us

From: Shaun Dinubilo <sdinubilo@squaxin.us>
Sent: Tuesday, November 01, 2022 3:38 PM
To: Lydia Moorehead <lmoorehe@ci.olympia.wa.us>
Subject: RE: City of Olympia - Notice of Land Use Application, Anticipated SEPA Determination and Public Meetings

Hello Lydia,

Thank you for contacting the Squaxin Island Tribe Cultural Resources Department regarding the above listed project for our review and comment. Will the construction of the AT and T Monopole directly impact the 1971 Elks Lodge Building? This is not clear in the project description or maps.

Shaun Dinubilo
Archaeologist
Cultural Resource Department

Squaxin Island Tribe
200 S.E. Billy Frank Jr. Way
Shelton, WA 98584
Office Phone: 360-432-3998
Cell Phone: 360-870-6324
Email: sdinubilo@squaxin.us
Email is my perferred method of communication.

From: Tressa Pagel <tpagel@ci.olympia.wa.us>
Sent: Wednesday, October 26, 2022 7:51 AM
Cc: Kenneth Haner <khaner@ci.olympia.wa.us>; Diana Simmons <dsimmons@ci.olympia.wa.us>
Subject: City of Olympia - Notice of Land Use Application, Anticipated SEPA Determination and Public Meetings

The City of Olympia has issued the following **Notice of Land Use Application, Anticipated SEPA Determination and Public Meetings** for the project known as **Olympia Mission Creek Wireless Facility.**

PROJECT: **22-5612**

See the above attachments for further details.

Please forward questions and comments you may have regarding this project to the staff contact listed below:

- **Lydia Moorehead, Associate Planner, 360.570.3746, lmoorehe@ci.olympia.wa.us**

Tressa Pagel | Program Assistant
City of Olympia
Community Planning and Development Department
PO Box 1967 | 601 4th Avenue E | Olympia, WA 98507-1967
Phone: 360.570.3956
Email: tpagel@ci.olympia.wa.us