



**City of Bellevue
Development Services Department
Land Use Division Staff Report**

Proposal Name: Verizon Newtoria "Small Cell" Wireless Communications Facility

Proposal Address: 38 Locations – South Bellevue in the Factoria and Newcastle Subareas

Proposal Description: Administrative Conditional Use approval for a 38 node "small cell" wireless network which includes placing antennas and "small cell" radio units on 12 existing PSE utility poles, 5 replacement PSE utility poles, and 21 replacement PSE-owned light poles. Aerial fiber will connect the installations on the utility poles and underground fiber will connect the light poles.

File Number: 16-129655-LA Administrative Conditional Use

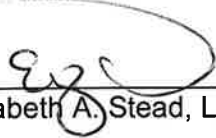
Applicant: MD7, LLC representing Verizon
Becky Todd

Decisions Included: Administrative Conditional Use Approval (Process II, Land Use Code 20.30E)

Planner: Sally Nichols, Senior Planner

State Environmental Policy Act Threshold Determination: **EXEMPT - WAC 197-11-800 (25)(a)(i)**

Director's Recommendation: **Approval with Conditions**
Michael A. Brennan, Director
Development Services Department

By: 
Elizabeth A. Stead, Land Use Director

Notice of Application: August 25, 2016
Notice of Decision: April 5, 2018
Appeal Deadline: April 19, 2018

For information on how to appeal a proposal, visit the Development Services Center at City Hall or call (425) 452-6800. Appeal of the Decision must be received in the City Clerk's Office by 5 PM on the date noted for appeal of the decision.

I. Request/Proposal Description

A. Request

The applicant (Verizon) is requesting Administrative Conditional Use approval to construct a "*small cell*" network in south Bellevue within the Newcastle and Factoria Subareas. The network will be made up of 38 nodes. 12 of the nodes will consist of antennas and equipment placed on existing Puget Sound Energy (PSE) utility poles. Five nodes will have antennas and equipment placed on taller replacement PSE utility poles to accommodate coverage objectives and avoid conflicts with electrical infrastructure. The remaining 21 nodes will have a canister antenna placed on replacement Puget Sound Energy (PSE) light poles in residential neighborhoods where there are no above-ground electrical utilities. All nodes will be located within the public right of way, where utilities are typically placed, and it is important to note that these nodes are not considered 'cell towers'. This will be a "small cell" antenna system placed on existing or replacement support structures.

The initial application proposed 41 nodes. Since then, Verizon has elected to remove three nodes (nodes 26, 27, and 33) from the proposal. Verizon continually evaluates the needs of their network. Over the course of the Land Use review and pole design process, Verizon determined that these nodes were not necessary for the functioning of this "small cell" system.

Nodes on Existing and Replacement PSE Utility Poles:

Each node will consist of two "small cell" antennas, two remote radio units (RRU) in one RRU enclosure, a disconnect box, and aerial fiber (wire) that will connect all these nodes back to the associated "macrocell" site (backhaul) via aerial fiber. There will be no ground-mounted equipment at any of the nodes. **Refer to Attachment A to this report for project drawings which include photo-simulations and design drawings for each node.**

Nodes on Replacement PSE Light Poles:

One canister antenna will be placed on top of the replacement 6-inch square pole. There will also be an RRU unit near the antennas and a disconnect box further down on the pole. All wiring will be placed within the pole. There will be a residential fiber box (flush with the ground) in the right of way within five feet of each pole to provide the underground fiber (power) to each pole.

The light poles are owned and constructed by PSE. The light pole design has been chosen by PSE as a replacement of existing wooden light poles throughout south Bellevue neighborhoods. The new pole will consist of a dark brown six-inch by six-inch square aluminum pole with an LED luminaire. The replacement of these poles is currently being planned by PSE for the Somerset and Newport Hills neighborhoods. These poles are being replaced as part of a neighborhood wide project to replace older, outdated light poles using new technology. Only 21 of the replacement light poles will support the Verizon "small cell" nodes. The design of the replacement PSE light poles is not part of this application and decision. **Refer to Attachment A to this report for project drawings which include photo-simulations and design drawings for each node.**

All of the nodes in the proposed "small cell" system will connect back to an existing "macrocell" site via either aerial or underground fiber. This "macrocell" site is located at 4041 124th Avenue SE and it was approved under previous Land Use reviews. No additional equipment will be required at this "macrocell" site.

"Small cells" are a new way of providing faster data coverage and increased capacity for mobile phone and device users. Unlike the "macrocell" sites currently used throughout Bellevue, "small cells" target much smaller coverage areas by using smaller antennas and associated equipment. Within residential neighborhoods such as south Bellevue, the "small cell" network is being proposed to provide service to customers in neighborhoods that were identified as needing additional coverage and/or capacity. **Refer to coverage map in Attachment A and in the project file.** Coverage is typically hindered by topography and mature trees – both of which are major characteristics found in the Newcastle and Factoria Subareas in South Bellevue. With "small cell" installations, the actual coverage area for each facility (pole/node) is relatively small as compared to the more common "macrocells" – typically a block or two versus one mile or more with "macrocell" sites. Thus, the installations must be placed close to the customers – meaning more nodes spaced closer together within a larger neighborhood context.

B. Process:

The proposed project to construct 38 new wireless installations on PSE utility poles and PSE light poles in the right of way must undergo a publicly noticed administrative review process. This proposal has been submitted by Verizon, a private company. It is important to note that this is *not* a City-sponsored proposal, nor is it a PSE proposal. The City is tasked with reviewing all development applications against the applicable City codes and standards. Because none of the proposed installations are within 520 feet of each other or within 520 feet of any other WCF located either in the public right-of-way or on property owned by the City, the proposal will require review as a new Administrative Conditional Use (ACU) instead of a full Conditional Use per Land Use Code (LUC) 20.20.195.C. Additionally, all of the installations are on either existing or replacement poles. Per LUC 20.20.195.B.1.ii, a replacement pole would not be considered a "new" pole as long as the replacement support structure (pole) is within 10 feet of the existing pole. An installation with a "new" pole and "new" location would require a full Conditional Use review.

The ACU approval is a Process II decision made by the Director of the Development Services Department. The review includes public noticing with a *minimum* 14-day comment period. Public comment is received and reviewed by Land Use up until the decision staff report is written. At the Director's discretion, a public meeting may be held. The Director's decision shall be written in a staff report to indicate whether the application has been approved, approved with conditions, or denied. The decision will be publicly noticed with a mandatory 14-day appeal period. A Process II decision may be appealed by any Party of Record and the appeal shall be heard at a public hearing before the City Hearing Examiner.

Per Washington Administrative Code (WAC)197-11-800 (25)(a)(i), the proposal is EXEMPT from State Environmental Policy Act (SEPA) review.

II. Site Description and Zoning

A. Site Description:

The proposed Newtoria installations (referred to as nodes) are to be located on either existing PSE utility poles and replacement PSE utility poles (17 nodes) or on replacement PSE street lights (21 nodes) in south Bellevue residential neighborhoods. All of the poles and node locations are in the public right of way.

Refer to project drawings A-1.1, 1.2, and 1.3 for site plans showing locations in Attachment A to this report.

Node Locations*

LP = Replacement PSE Light Pole (21 Nodes)

UP = Existing PSE Utility Pole (12 Nodes)

RUP = Replacement PSE Utility Pole (5 Nodes)

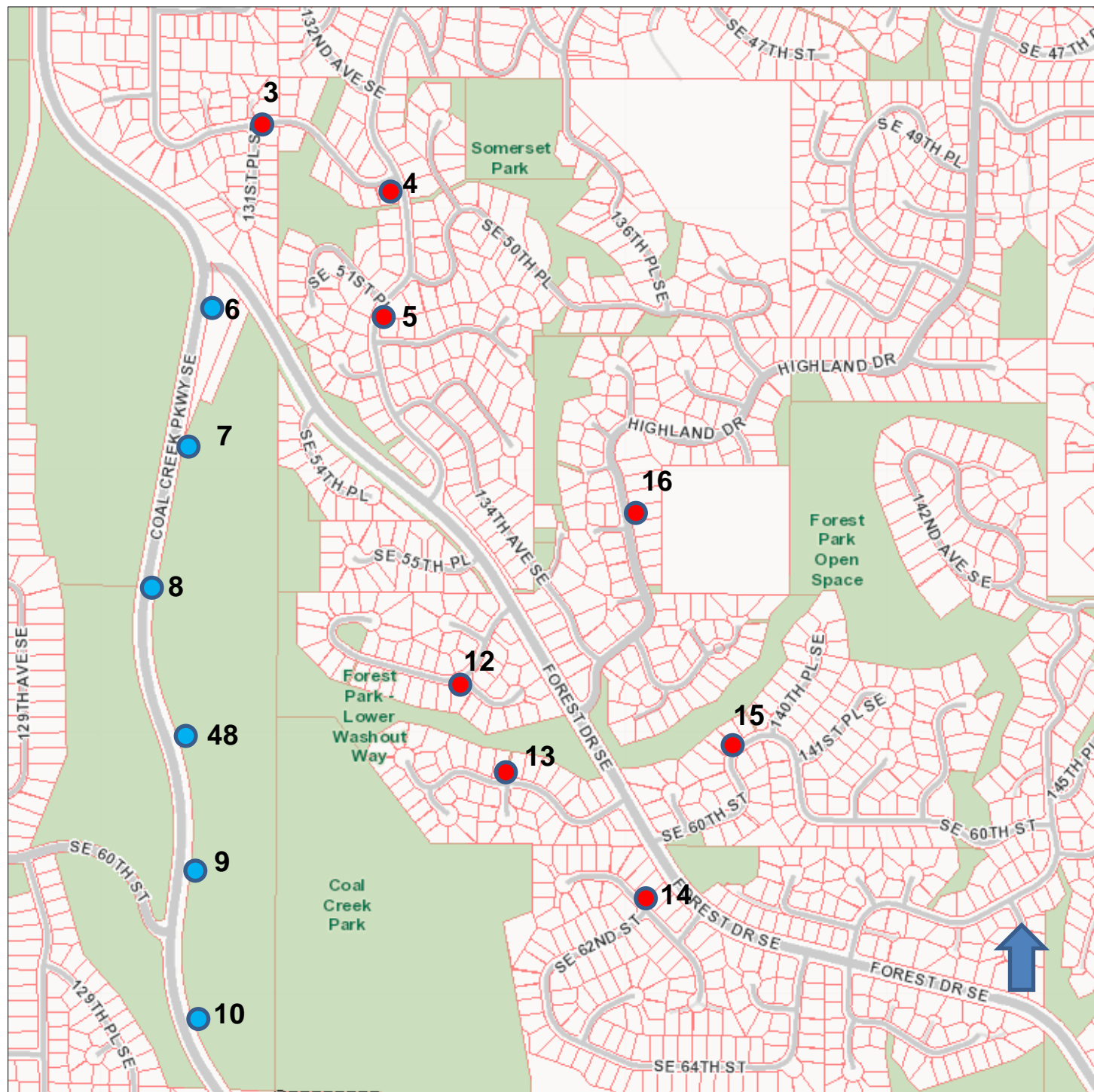
* Note that the numbering of the Nodes goes up to 49, Nodes 1, 2, 11, 17, 18, 20, 25, 26, 27, 33, and 43 were not included in the application.

Node 3:	4902 131 st Pl. SE (LP)	Node 29:	15593 SE 46 th Way (LP)
Node 4:	4905 Somerset Dr. SE (LP)	Node 30:	15724 SE 45 th St. (LP)
Node 5:	5130 Somerset Dr. SE (LP)	Node 31:	4930 159 th Pl. SE (LP)
Node 6:	Coal Creek Parkway (UP)	Node 32:	4807 158 th Ave. SE (LP)
Node 7:	Coal Creek Parkway (UP)	Node 34:	4714 153 rd Ave. SE (LP)
Node 8:	Coal Creek Parkway (UP)	Node 35:	15107 SE 46 th Pl. (LP)
Node 9:	Coal Creek Parkway (UP)	Node 36:	15015 SE 45 th Pl. (RUP)
Node 10:	Coal Creek Parkway (UP)	Node 37:	4749 150 th Ave. SE (RUP)
Node 12:	13503 SE 57 th St. (LP)	Node 38:	14891 SE 50 th St. (RUP)
Node 13:	13412 SE 59 th St. (LP)	Node 39:	14620 SE 49 th St. (LP)
Node 14:	6198 139 th Pl. SE (LP)	Node 40:	4631 Highland Dr. (LP)
Node 15:	13925 SE 60 th St. (LP)	Node 41:	4955 Highland Dr. (LP)
Node 16:	5490 Highland Dr. (LP)	Node 42:	14205 SE 52 nd Pl. (LP)
Node 19:	5884 Lakemont Blvd. (RUP)	Node 44:	13994 SE Newport Way (UP)
Node 21:	Lewis Creek Park (UP)	Node 45:	13832 SE Newport Way (UP)
Node 22:	5398 164 th Ave. SE (UP)	Node 46:	13815 SE 42 nd St. (LP)
Node 23:	4998 164 th Ave. SE (UP)	Node 47:	13371 SE Newport Way (RUP)
Node 24:	4720 164 th Ave. SE (UP)	Node 48:	Coal Creek Parkway (UP)
Node 28:	15858 SE 47 th St. (LP)	Node 49:	5270 Highland Drive (LP)

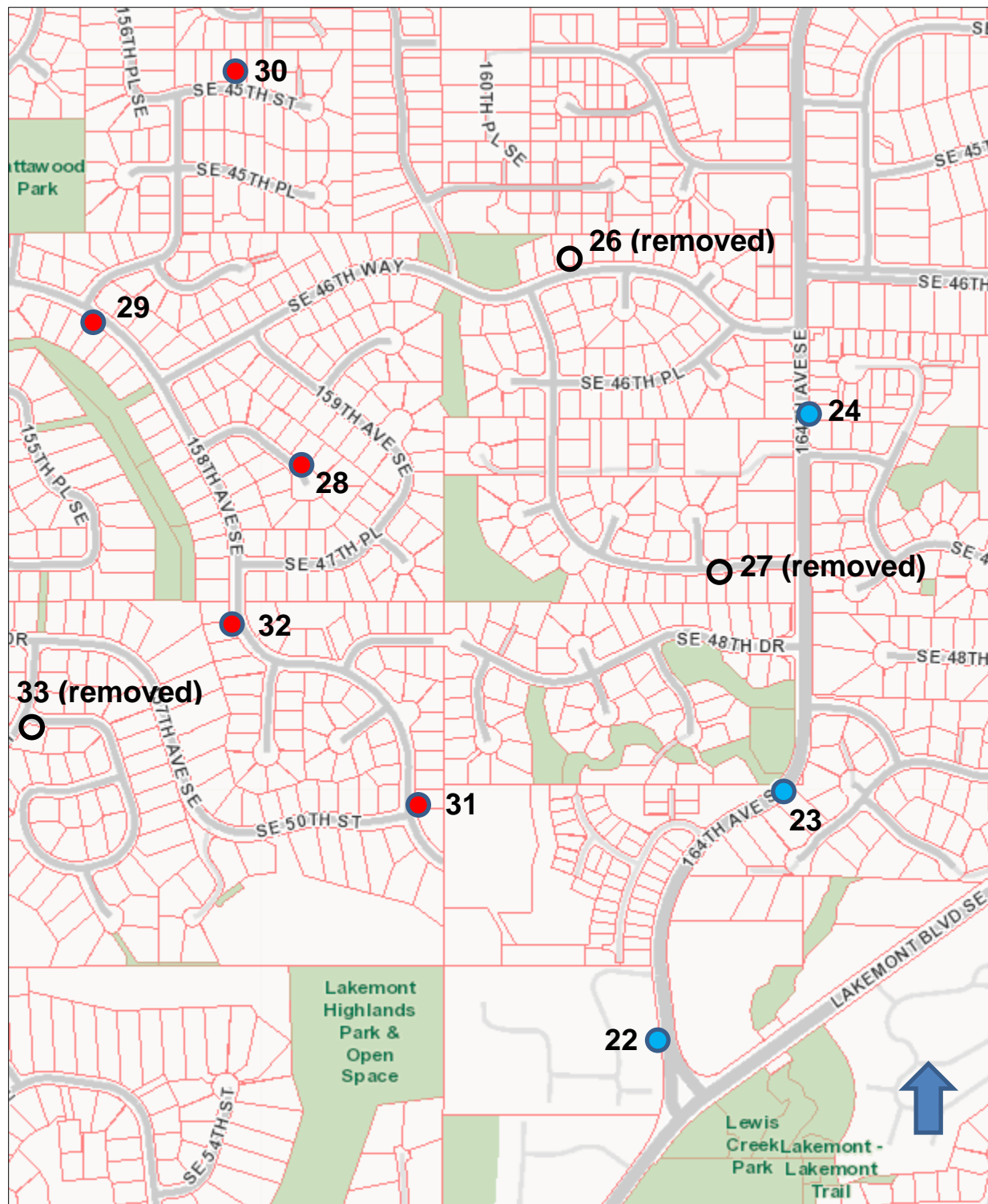
B. Zoning and Context

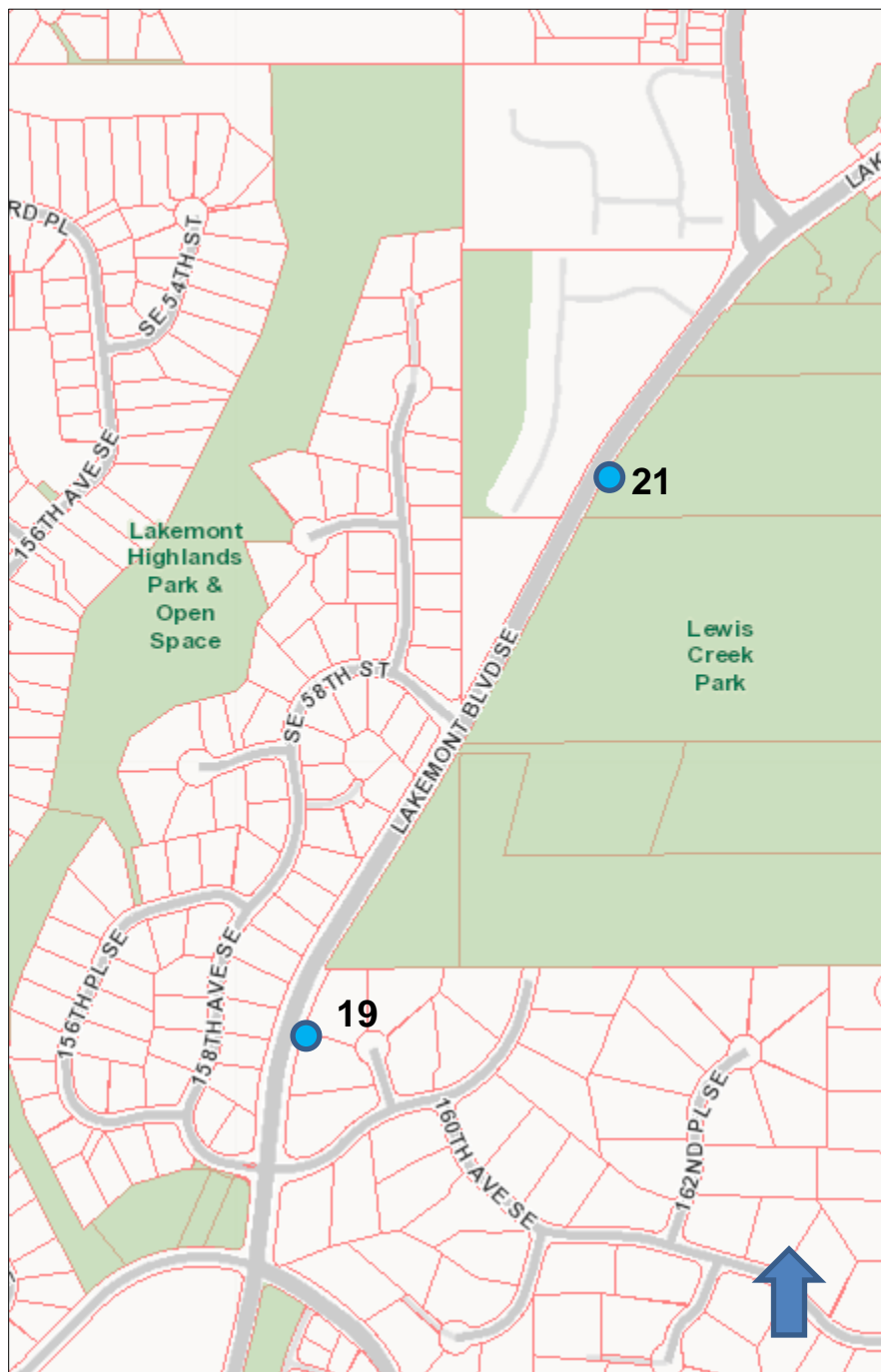
All 38 Nodes lie within residential land use districts. 37 of the nodes fall within single family land use districts (R-2.5, 3.5, 4, and 5). Only one node, Node 22, falls within the R-7.5 multi-family land use district:

APPROXIMATE NODE LOCATIONS

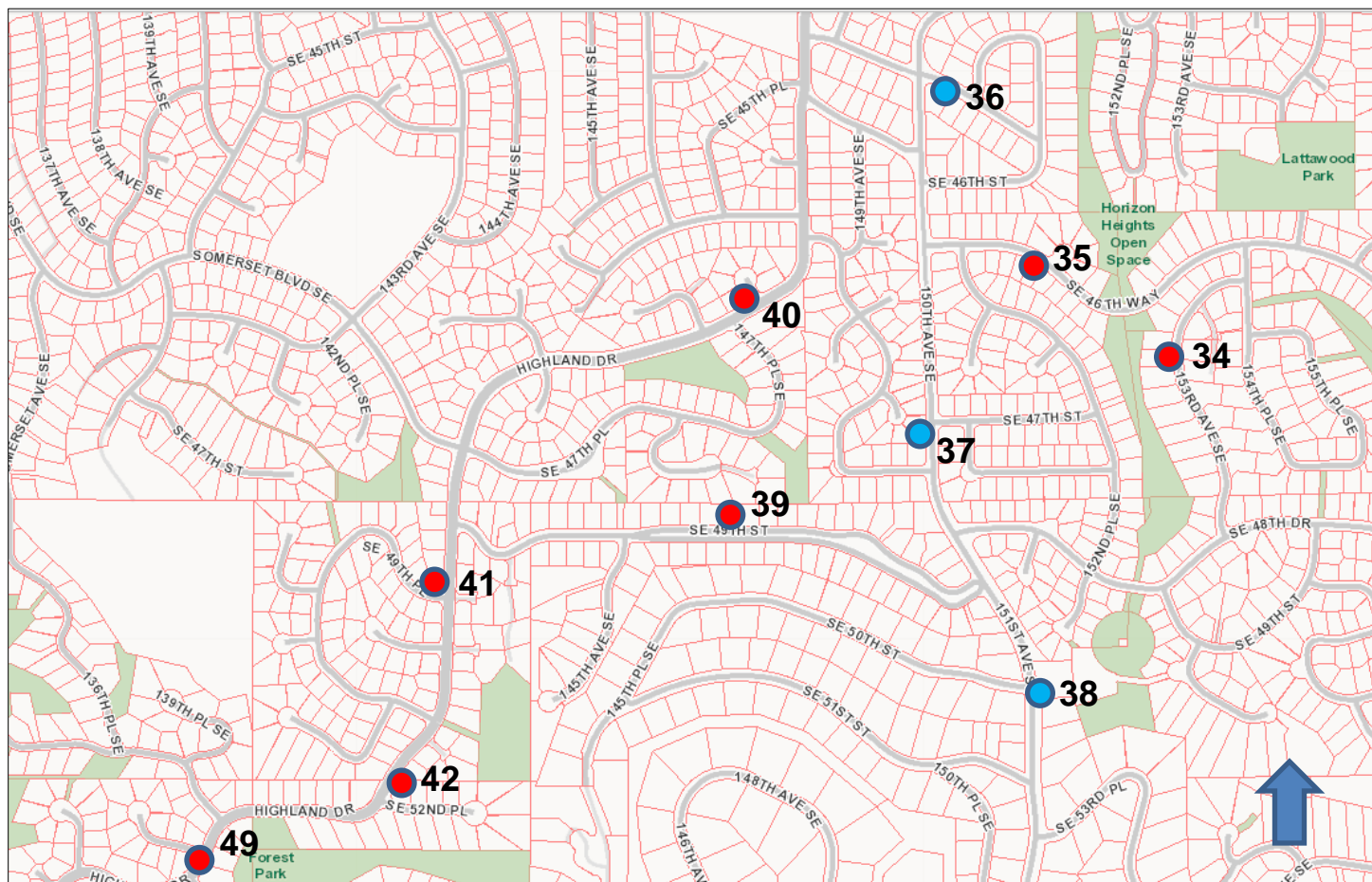




- Node on Existing or Replacement PSE Utility Poles
- Node on Replacement PSE Light Poles

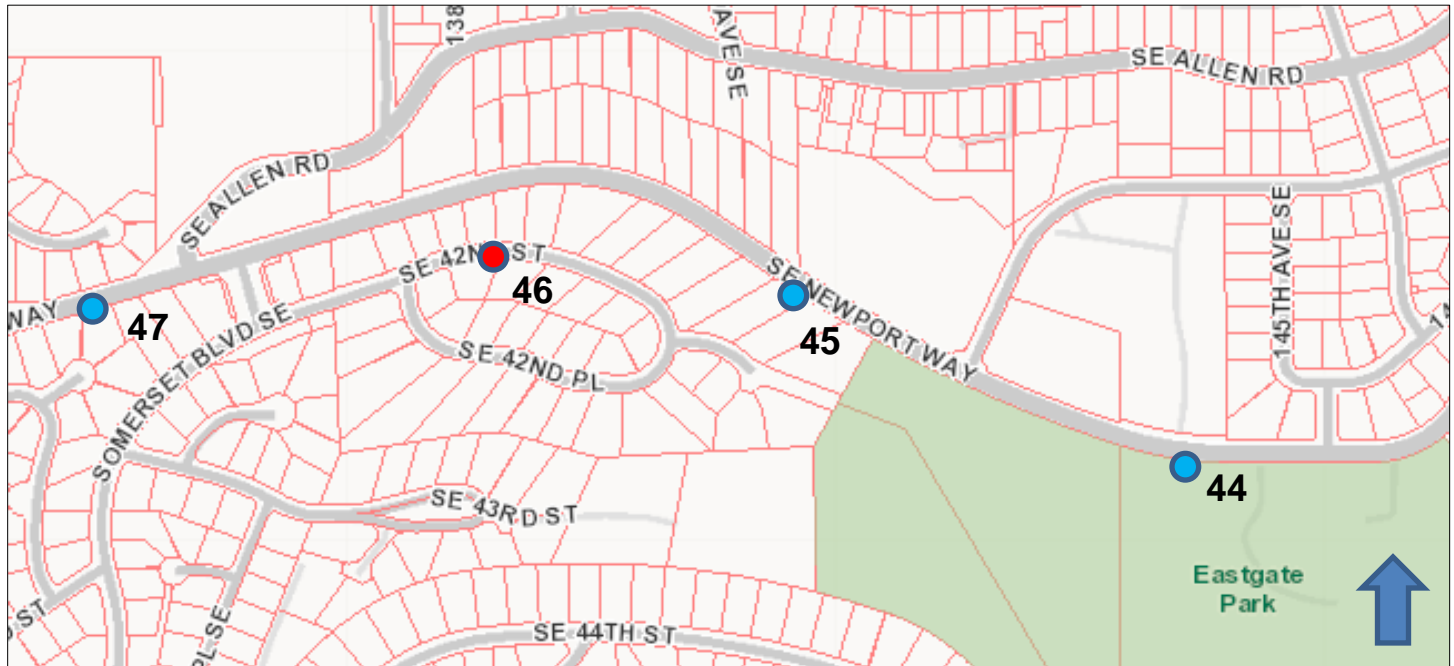




- Node on Existing or Replacement PSE Utility Poles
- Node on Replacement PSE Light Poles



-  Node on Existing or Replacement PSE Utility Poles
-  Node on Replacement PSE Light Poles



● Node on Existing or Replacement PSE Utility Poles

● Node on Replacement PSE Light Poles

III. Public Comments

The City initially notified the public of this proposal on August 25, 2016 with mailed notice and publication in the *Weekly Permit Bulletin*. One, double-sided public information sign was installed in front or near each of the initially proposed 41 nodes (adjacent to either the utility or light poles) on the same day. A public meeting was also scheduled for September 27, 2016 at 6:00 pm at City Hall. Twenty-six citizens attended the public meeting, and to-date, 82 people submitted written comments regarding this proposal.

A summary of the public comments and responses are below:

1. This should be reviewed as a full Conditional Use.

Response: The review process is dictated by the Land Use Code (LUC) 20.20.195. An Administrative Conditional Use is the appropriate review process based on the proposal design and the fact that no nodes are within 520 feet of other wireless installations. Refer to discussion in Section 1.B of this report for additional process information.

2. Is this equipment safe? What are the dangers of being exposed to this type of cellular equipment?

Response: Verizon Wireless equipment operates within the guidelines set by the Federal Communications Commission (FCC) for exposure to RF emissions – FCC “Rules & Regulations” Title 47 CFR 1.1310, Radiofrequency radiation

exposure limits. David J. Pinion, PE of the consulting electrical engineering firm of Hatfield & Dawson, has verified in the April 2016 Non-Ionizing Electromagnetic Exposure Analysis and Engineering Certification report, submitted with this permit application, that the proposed “small cell” system will meet these RF emission/exposure standards. Additional documentation titled SEA Newtoria RF Documentation was provided by Krystal Taylor, Radio Frequency Engineer for Verizon Wireless. It provides additional RF information for this proposal. All RF information can be found in Attachment A to this report.

Verizon Wireless “small cells” fall well below the FCC Public Maximum Permissible Exposure (MPE) limits. Depending upon the frequency transmission, the MPE ranges from 0.0793% (less than 1%) and 4.46% of the allowable RF exposure.

Due to the low power output of “small cells”, the wireless industry suggests that the general public should remain between 4 to 8 feet away from the face of the “small cell” antenna at the top of the pole. This distance does not apply when underneath (or above) the antenna, because of the directional nature of these systems. For comparison, a typical “macrocell” installation may have a public stay-away distance of 30 to 65 feet from the face of the antennas. Additionally, antennas are directional in nature (they have a specific beam pattern) with the signal primarily focused up and down the streets and not directly into the residence behind the pole. There are also required front and rear setbacks for all homes (typically a minimum of 20 feet from the front and rear property lines). When coupled with the fact that the poles are in the right of way, no homes would be within the stay away zone.

Cell phones themselves emit radio frequencies and they are programmed to use the minimum amount of power needed to make a good connection. Stronger cell service signals will dramatically reduce the phone’s necessary operating power level and thus the RF emissions generated by the phone itself. **Refer to Condition of Approval regarding RF testing in Section VI of this report.**

3. What are the exact dimensions (and size limitations) on this equipment, and height restrictions? What is/are the FCC Equipment ID#s that are proposed to be installed?

Response: The dimensions for the equipment can be found on the drawings and photo simulations and are as follows:

Utility Poles:

- Antennas (2 per pole): 24.1 inches H x 16 inches W x 7.1 inches D
- RRU Enclosure (2 RRU’s per pole within 1 enclosure): 28 inches H x 22 inches W x 12 inches D
- Disconnect: 9.75 inches H x 9.1 inches W x 5.25 inches D
- Height: Per LUC 20.20.195.D.1, the WCF support structure (pole) height must be “the minimum necessary for effective functioning of the provider’s networks, as certified by the provider’s licensed engineer.” These poles are owned by and support PSE’s electrical infrastructure. Only five of the 17 utility poles will require replacement with taller poles. These poles range from five to ten feet taller than the existing poles. Verizon and PSE have verified

that this will be the minimum height increase necessary to meet each of their system needs, and the additional height is necessary due primarily to PSE's engineering requirements related to separation of wireless facilities from electrical lines and other PSE equipment. The heights of the utility poles vary depending on their location. Refer to project drawings for specific pole heights.

Light Poles:

- Canister Antenna and base (1 per pole): 24" antenna height with a 12" tapered base/collar. The antenna has a 14.6-inch diameter that tapers to approximately six inches.
- RRU (1 per pole): 7.88 inches H x 7.88 inches W x 4.69 inches D
- Disconnect: 9.75 inches H x 9.1 inches W x 5.25 inches D
- Height to the top of the antenna: 26 feet (23-foot tall light pole with 36" canister antenna and tapered base)

4. How will wiring/cabling be handled in the replacement light poles?

Response: All wiring will be internal to the new replacement light poles.

5. How will this equipment improve our wireless infrastructure and benefit the residents in my neighborhood? Will Verizon and other companies benefit financially from this?

Response: The equipment proposed is to provide coverage and capacity targeting properties around the "small cell" nodes. With these "small cell" installations, the network will be more reliable and speed for data will improve for Verizon customers in the residences of this neighborhood.

Additionally, Verizon has a federally-mandated obligation to provide wireless E-911 service, as the great majority of 911 calls are made from wireless devices. Solving coverage gaps and capacity issues is key to achieving a fast, reliable emergency response system.

Verizon's network will be strengthened by this proposal. Verizon is a publicly held company traded on the New York Stock Exchange (VZ). As such, the directors owe a fiduciary duty to their stockholders to deliver shareholder value, including reasonable profits.

6. Can the wireless company change the equipment whenever they want? Or will permits be required for future changes?

Response: All modifications to existing wireless facilities are reviewed under a Predevelopment Services Permit (DC Permit) to determine if additional land use/permit review is required. Any expansion must respect the Conditions of Approval in Section VI of this report and the concealment technologies and design required for each node in this "small cell" system. **Refer to Conditions of Approval regarding antenna mounting and cabling, antennas and equipment color, ground mounted equipment, noise, and expansion beyond "small cell" in Section VI of this report.**

7. Can this infrastructure be placed underground?

Response: No. Verizon has designed their system to be operational by line-of-sight technology and as such, the system cannot function underground.

8. Who will be overseeing what the cellular company does. Who is policing/governing their actions?

Response: The City of Bellevue, through permit review and permit inspections, oversees the WCF installations. In addition to this ACU approval, Verizon will be required to obtain a Right-of-Way Use Permit and a Wireless Communications Facilities (WCF) in the Right of Way Permit from the City. In addition, prior to activation, the applicant will be required to have an inspection of each node by Land Use to ensure that the facilities were installed per the drawings in this approval and subsequent permits. Lastly, Verizon will perform pre- and post-installation RF testing on a minimum of three poles to confirm compliance with FCC regulations. The test results will be submitted to Land Use for inclusion in this project file. **Refer to Conditions of Approval regarding the Right of Way Use Agreement, the Right of Way Permit, radio frequency testing and completion of work/facility activation in Section VI of this report.**

9. When does the permit have to be approved or denied? How long does the neighborhood have to discuss location of these wireless transponders?

Response: The City is tasked with reviewing WCF applications as quickly as possible. The FCC has promulgated rules that require a reasonable amount of time for wireless companies to secure permit approvals. Companies may seek injunctive relief in federal court against local jurisdictions that fail to meet FCC timelines. Public comment was taken by Land Use from the date of the Notice of Application until this decision staff report was written and the decision noticed.

10. Why did the City of Bellevue choose this specific neighborhood for this installation? Are there other locations that would work?

Response: The City of Bellevue did not choose this neighborhood. This is a Verizon wireless communications facility and as such, the locations for the “small cell” system and each of the nodes were selected by Verizon Wireless and were based on Verizon’s specific network needs. The City’s only involvement in this proposal is the review of the ACU permit application for compliance with City codes and the review of any required ancillary permits.

11. If this permit is approved, will other wireless companies be able to piggy-back on in the same locations? Or is it just one company per pole/location?

Response: PSE owns the utility poles and light poles in the right of way and as the owner, determines who can be located on their poles. This is based on PSE’s safety and engineering standards. It is also important to note that the Washington Utilities and Transportation Commission (WUTC) recently adopted rules which require PSE and other electrical and telecommunications companies to allow attachment to existing poles. This legislation (Chapter 480-54 WAC and

Chapter 80.54 RCW) provides that an owner (in this case PSE) may only deny access where there is insufficient capacity or for reasons of safety, reliability, and generally applicable engineering principles; provided that the owner may not deny access for capacity if the requestor agrees to replace the pole to accommodate increased capacity. In addition, the Land Use Code does not preclude other carriers from co-locating on these poles in the future.

12. A few neighbors would like more information regarding the RF emissions and would like an independent tech report.

Response: Per the permit submittal requirement in the Land Use Code, the applicant has provided the required detailed documentation verifying that the installation meets all FCC standards. Refer to the Non-Ionizing Electromagnetic Exposure Analysis and Engineering Certification prepared for Verizon by Hatfield & Dawson, Consulting Electrical Engineers, dated April, 2016 and SEA Newtoria RF Documentation by Krystal Taylor, Verizon Radio Frequency Engineer in the project file and attached to this report. However, Verizon has also proposed to do pre- and post- construction measurements of RF emissions to verify compliance with FCC regulations. The results of this monitoring will be sent to the City and placed in the project file for public viewing. **Refer to Condition of Approval regarding radio frequency testing in Section VI of this report.**

13. Why is this WCF needed? Cell service is fine where we live.

Response: Cellular data usage demand is continuing to grow exponentially. Verizon's business model is to be the industry leader in providing a stable, reliable and fast network. This proposal will help meet the current and anticipated consumer demand in the neighborhoods served by the Newtoria project.

Cities such as Bellevue have significant changes in topography and mature evergreen vegetation, making it hard for some residents to receive reliable service while others just a few blocks away may have excellent reception. By placing antennas closer to the homes to be served, under the canopies of large trees, "small cell" systems solve some of these inequities and improve service for everyone.

14. How long will it be until additional equipment is needed?

Response: At this time, Verizon does not have any plans to add additional equipment or antennas. Additional equipment placed on these poles must also meet PSE's requirements for location with respect to their electrical lines and equipment.

Note too that this is a review and decision specifically for a "small cell" installation. "Small cells" are defined in the Revised Code of Washington (RCW) 80.36.375 and are characterized by the small size of the antennas and RRU's. The small size of the components is a concealment/screening method designed to reduce the visual and aesthetic impacts to surrounding neighborhoods. Additional antennas or equipment square footage might possibly defeat this concealment technique inherent in a "small cell" and if so, would require City

review either through a new ACU or via an amendment to this decision. **Refer to Condition of Approval regarding modification of the administrative conditional use plans and expansion beyond “small cell” in Section VI of this report.**

15. What are the other options? Why is the proposed option the better option?

Response: Larger “macrocell” sites with many more, larger antennas and ground equipment cabinets or vaults are the alternative to this proposal. Because Verizon is targeting residential neighborhoods, the “macrocell” sites would still need to be placed within the South Bellevue residential land use districts and potentially in front of homes, making them even more impactful to the neighborhood. More significantly, “macrocell” sites have limitations on how effectively they can provide coverage as demand grows. The proposed “small cell” system is a better option for the carrier, based on their proprietary business model, to provide an improved network because it better targets the area, has smaller antennas and no ground equipment, and has fewer visual impacts on adjacent properties.

16. Will fans or cooling devices be installed? Will these installations have associated noise?

Response: There will be no fans, cooling devices, or back-up generators placed on any of these installations. Power will come directly from the PSE pole. **Refer to Condition of Approval regarding noise in Section VI of this report.**

17. How will this affect property values?

Response: City codes do not directly address property values. However, through application of the Wireless Communications Facilities section of the Land Use Code (Section 20.20.195), applicants are required to minimize the visual and aesthetic impacts to surrounding neighborhoods and to ensure that the RF emissions meet the FCC standards.

18. Who is responsible for property restoration associated with installation?

Response: There may be minor clearing associated with the installation of the five replacement utility poles and the 21 replacement light poles, the attachment of the antennas and RRU's, and the connection of the antennas and RRU's connection to necessary utilities, including underground fiber and power. All work will be in the public right of way and should not trigger a clearing and grading permit. However, this work will require a Right of Way Use Permit. Any disturbance to the right of way, including the trenching for the underground fiber, must be restored to an equal or better condition and right of way disturbance will be reviewed and controlled under the Right of Way Use Permit.

Construction hours will be determined under the Right of Way Use Permit to minimize impacts to surrounding residential neighborhoods and schools. **Refer to Condition of Approval regarding the Right of Way Use Permit in Section VI of this report.**

19. Why are there warning signs on the poles? Can Verizon use smaller stickers?

Response: Warning signage is required by the FCC on all wireless installations. However, Verizon agreed at the public meeting to look to see if smaller signs can be used.

20. The installation will harm existing utilities infrastructure in front of homes.

Response: The construction of the facility will require review and approval of a Right of Way Use Permit as well as a Wireless Communications Facility in the Right of Way Permit. These permits will ensure that existing infrastructure in the right of way is not compromised.

21. Mercer Island has kept WCF's out of residential areas. Why can't Bellevue do the same?

Response: Under Section 332(c)(7) of the FCC regulations, one of the limits on a jurisdiction's permitting authority is that a jurisdiction cannot prohibit or effectively prohibit provision of personal wireless service. Consistent with that limitation, Mercer Island's code allows WCF's in residential neighborhoods on certain public and utility facilities, parks, PSE substation, and on certain rights-of-way. MICC 19.06.040.C.

Bellevue's code treats residential districts a little differently. In the Land Use Code (LUC) 20.20.195.B.2, WCF's are not permitted on residential structures, undeveloped sites in residential land use districts, or on sites developed with residential uses. The LUC does not prohibit siting WCF's on a multi-family site in the R-20 or R-30 land use districts, on any nonresidential structure (schools, churches, public facilities, utility poles, etc.), or in any public right of way in *any* residential land use district.

Bellevue's code also provides a hierarchy for siting non-exempt WCFs. Whereas placing WCF's attached to public facility structures, building mounted or integrated with utility support structures is the top preference in the hierarchy, these conditions were not available in the residential neighborhood that Verizon proposes to serve with the Newtoria proposal. However, co-location on utility poles as proposed with this project is the second most preferred location in the location hierarchy.

It is also important to keep in mind that the LUC implements the goals and policies of the City of Bellevue's Comprehensive Plan, Volume 1, Utilities Element, which may differ from Mercer Island's plan. Therefore, it would take a policy change from the Council that balances the desires of neighborhoods with the requirements of state and federal law. Refer to Section IV.A of this report for additional information regarding how this proposal is consistent with the Comprehensive Plan.

IV. Applicable Decision Criteria / Findings and Conclusions

Compliance with the decision criteria of Land Use Code Section 20.30E.140 (Administrative Conditional Use Permit) is discussed below.

A. The administrative conditional use is consistent with the Comprehensive Plan.

As conditioned, the proposal is consistent with the policies found in the Utilities section of the City of Bellevue Comprehensive Plan, Volume 1. The Utilities policies listed below are particularly relevant to the City's decision on this specific wireless application:

UT-46. Support new and emerging information and telecommunications technologies that would benefit utility service delivery by being sustainable, appropriate and viable.

UT-50. Encourage widespread, affordable, high-speed internet access, including access to competing telecommunications services and new forms of technology to provide the community with choice and to facilitate innovation.

UT-51. Maintain Bellevue's competitive advantage and attraction as a highly connected community.

Finding: The City's Land Use Code allowing this proposed facility is in place to support policies that place the provision of high-speed internet access throughout the entire City as a high priority.

UT-53. Ensure a permitting process that achieves a balance between encouraging deployment of advanced high-speed telecommunications infrastructure and protecting neighborhood character.

UT-64. Require the reasonable screening and/or architecturally compatible integration of all new utility and telecommunication facilities.

UT-65. Protect Bellevue's aesthetic quality and infrastructure investment from unnecessary degradation caused by the construction of telecommunication infrastructure.

UT-79. Require the placement and design of wireless communication facilities in a manner that minimizes the adverse impacts on adjacent land uses.

Finding: The design of "small cell" systems, with small antenna and RRU dimensions, is intended to reduce the visual and aesthetic impacts of these facilities, particularly when co-located on utility poles with existing electrical equipment or on neighborhood light poles.

Other methods that will be used to reduce the impacts and ensure concealment of the wireless technology include the following:

Nodes on Existing and Replacement PSE Utility Poles:

The facilities are located on existing utility poles or new replacement poles placed in the same location as the existing pole. No additional poles will be necessary.

- All antennas, mounts, conduits (including existing non-Verizon conduits on the pole), and ancillary equipment will be painted a shade of brown to match each existing pole.

- There will be no equipment, including meters, on the ground.
- Additional cabling diagrams will be required to ensure that the amount of exposed cable/wires is minimized and that all cabling is pulled tight.

Nodes on Replacement PSE Light Poles:

- Each light pole will have a single canister antenna placed at the top of the pole and all cabling/fiber will be within the pole. The antenna has been designed specifically to be as stealth as possible and compatible with the new PSE light pole design.
- All antennas and ancillary equipment will be painted a shade of brown to match the light pole.
- There will be no equipment, including meters, on the ground.

Refer to Condition of Approval regarding antennas mounting and cabling, antenna and equipment color, ground mounted equipment, noise, and expansion beyond “small cell” in Section VI of this report.

UT-61. Allow new aerial telecommunication lines on existing systems provided that they shall be designed to address visual impacts and are required to be placed underground at the time of undergrounding electrical distribution lines.

Finding: Because the electrical service in some of the neighborhoods to be served by this proposal is overhead and the “small cell” system is operational by line-of-sight technology, the applicant will connect 12 of the nodes via an aerial fiber line (wire) which will be placed close to the existing electrical lines/wires. All wiring necessary for the neighborhood light poles will be contained within the poles and the poles will be connected via underground fiber.

Per the Land Use Code (LUC 20.20.195.D.9) and condition of approval for this decision, the facility must be removed at no expense to the City if co-located on an electrical system facility or utility support structure that is subsequently undergrounded. **Refer to Condition of Approval regarding removal upon undergrounding in Section VI of this report.**

UT-67. Encourage consolidation on existing facilities where reasonably feasible and where such consolidation leads to fewer impacts than would construction of separate facilities. Examples of facilities which could be shared are towers, electrical, telephone and light poles, antenna, substation sites, trenches, and easements.

UT-83. Recognize that wireless communication facilities will be deployed in all areas of the city to provide coverage and capacity consistent with the changing use of wireless technology. Minimize the attendant impacts, particularly the visual impacts of, wireless communication facility towers, lattice towers and structures by utilizing criteria for the design and location of such facilities that appropriately balance the need for wireless services and the impacts of the necessary facilities.

UT-85. Minimize visual impacts of wireless communication facilities by encouraging system designs in the following preferred and descending order:

1. Attached to public facility structures, building mounted, or integrated with utility poles, light standards, and signal supports;
2. Co-located on utility poles, light standards, signal supports; and
3. Free standing towers.

Finding: The electrical service in the residential neighborhoods to be served by this proposal currently is delivered either by overhead distribution and transmission lines or through underground electrical service. The proposed “small cell” installations will all be co-located on existing and/or replacement PSE utility poles in the public right of way or on replacement neighborhood light poles in the right of way, which are the second preferred locations per the Comprehensive Plan and the Land Use Code.

UT-84. Minimize visual impacts of wireless communication facilities by encouraging deployment in land use districts in the following preferred and descending order when possible, considering the provider’s coverage needs:

1. Nonresidential land use districts, except Transition Areas;
2. Transition Areas;
3. Multifamily (R-20 and R-30) districts; and
4. Park sites and Residential districts.

Finding: The entire coverage area shown in the submitted propagation maps for the WCF consists of residential properties that are important to Verizon’s coverage objectives. Because of the relatively short reach of the “small cell” antennas, each antenna needs to be close to the residences that they intend to serve, which requires that they be located within single family and multi-family land use districts. Aesthetic treatments are proposed to make the facility as visually unobtrusive to adjacent residences as possible. While the poles themselves fall within residential land use districts, they are physically located within the right of way and not on any private residential properties.

UT-86. Require timely removal of abandoned facilities that are visually intrusive whenever facilities are replaced or upgraded.

Finding: It is a requirement of the Land Use Code (LUC 20.20.195.D.8) and a Condition of this decision that any of the installations must be removed by the facility owner within 90 days of the date it ceases to be operational, or if the facility falls into disrepair and is not maintained. **Refer to Condition of Approval regarding removal of abandoned sites in Section VI of this report.**

B. The design is compatible with and responds to the existing or intended character, appearance, quality of development and physical characteristics of the subject property and immediate vicinity;

Finding: The project will be compatible with the surrounding residential neighborhood due to the following:

1. Nodes on Existing and Replacement PSE Utility Poles:

The antennas and RRU's will be placed on existing or replacement PSE utility poles where there is already utility infrastructure including aerial fiber (electrical wires).

- Only five of the 17 wood utility poles will be taller than the existing utility poles. In these cases, the existing poles will be replaced with new wood poles in the same location. All are located within the right of way on major arterial streets.
- All antennas, mounts, conduits (including existing non-Verizon conduits on the pole), and ancillary equipment will be painted a shade of brown to match each existing utility pole or light pole.
- The "small cell" antennas will be smaller than standard WCF "macrocell" antennas so as not to create a significant visual impact and shall meet the size of "small cell" antennas" (antennas and enclosure shall be no more than three cubic feet in volume) per the RCW.
- Cabling diagrams will be required as part of the construction permits to ensure that the amount of exposed cable/wires is minimized and that all cabling is pulled tight.
- Pipe mounts will not be allowed to extend above or below the antennas.

2. Nodes on Replacement PSE Light Poles:

PSE owns the neighborhood light poles in the right of way and is in the process of replacing the older wooden light poles in south Bellevue neighborhoods with new metal poles and lights to address advanced technologies and efficiencies. A single canister antenna will be placed on the top of each identified new light pole (node).

- Each light pole will have a single antenna placed at the top of the pole and all cabling/fiber will be within the pole. The antenna has been designed specifically to be as stealth as possible and compatible with the new PSE light pole design.
- All antennas and ancillary equipment will be painted a shade of brown to match the light pole.
- In most cases, the height of the new pole, including the canister antenna on top, will be very close to the height of the existing light poles – generally within three feet.

3. All Nodes (Both Utility and Light Poles):

- There will be no ground equipment, including meters, on the ground at any of the 38 nodes.
- There will be no fans or generators that produce noise at any of the nodes.

Refer to Condition of Approval regarding antenna mounting and cabling, antenna and equipment color, ground mounted equipment, and site restoration in Section VI of this report.

- C. The administrative conditional use will be served by adequate public facilities including streets, fire protection, and utilities.

Finding: The existing poles and the proposed WCF's will be served by adequate public facilities, including streets, fire protection, and utilities.

The Fire Department has reviewed this application and has determined that there are no substantial concerns regarding interference with emergency signals.

Refer to Conditions of Approval regarding existing City of Bellevue existing radio systems and interference in Section VI of this Staff Report.

D. The administrative conditional use will not be materially detrimental to uses or property in the immediate vicinity of the subject property; and

Finding: Through the application of City codes that govern wireless communications facilities, the co-location of two “small cell” antennas and one remote radio unit enclosure on existing or replacement PSE electrical utility poles and the placement of one canister antenna and remote radio unit on replacement PSE light poles will result in a WCF system that will not substantially impact the surrounding properties. “small cell” antennas and equipment are smaller in size and emit considerably lower RF emissions than traditional “macrocell” installations. They will benefit the neighborhoods surrounding each node by delivering improved wireless service to areas where Verizon has identified coverage and capacity gaps.

A condition of approval will require that antennas, mounts, conduits, and all ancillary equipment be painted brown to match the utility pole or light pole to which they are attached and there will be no ground-mounted equipment. In addition, equipment and installation techniques have been designed to be as unobtrusive as possible. As a result, the project will not be materially detrimental to uses or property in the immediate vicinity.

Finally, the facility will be removed when it ceases to be operational or falls into disrepair and is not maintained, or if the utility support structure is removed or placed underground. **Refer to Condition of Approval regarding antenna and equipment color and the removal of abandoned sites in Section VI of this staff report.**

E. The administrative conditional use complies with the applicable requirements for a wireless communication facility as provided by the Land Use Code 20.20.195, including location and design preferences.

Finding: As conditioned, the proposed wireless facility complies with the location and design preferences as detailed in LUC 20.20.195. Further, the proposal meets all specific Land Use Code requirements applicable to non-exempt wireless communications facilities per LUC 20.20.195.D, as summarized below.

1. Height:

Nodes on Existing and Replacement PSE Utility Poles:

The utility pole height in five of the 17 utility pole nodes will be increased by a range of approximately five to ten feet on replacement utility poles (refer to project drawings in Attachment A of this report). The carrier and PSE have verified that this will be the minimum height increase necessary to meet their

system needs, and the additional height is necessary due primarily to PSE's engineering requirements related to separation from lines and other PSE equipment. The remaining 12 utility poles will require no additional height. **Refer to project drawings in Attachment A to this report for heights specific to each node.**

Nodes on Replacement PSE Light Poles:

The new PSE replacement light poles will be 23 feet tall and the canister antenna at the top will add another three feet for an overall height of 26 feet. In ten nodes, this new overall height of the pole and antenna will be less than 12 inches taller than the existing, old light poles, which average approximately 25'-6" in height. In eight nodes, the new poles and antennas will be approximately two feet taller than the existing light poles. In three of the nodes (13,16 and 39), the height of the new 26-foot tall pole and antenna will add significant height over the existing condition – 5'-4", 6'-0" and 11'-0" respectively. **Refer to project drawings in Attachment A to this report for heights specific to each node.**

2. WCF Location and Design

a. Preferred Location (LUC 20.20.195.D.2.a):

Although the location of this "small cell" system, within multi-family and single family residential neighborhoods, is third and fourth in the list of preferred locations, it is necessary because the system is specifically targeting Verizon residential users. "small cell" antennas, because they have such a short reach, need to be close to the residences they are serving in order to operate as intended.

b. Preferred Facility Design (LUC 20.20.195.D.2.b):

The co-location of the antennas and RRU at each node on utility poles and light poles are second on the list of preferred facility design hierarchy. Because the system was designed to reach residential customers, there were no public facility structures, non-residential buildings, or utility support structures available to meet Verizon's needs.

c. Minimizing Adverse Impacts (LUC 20.20.195.D.2.c):

Impacts from siting the installation at each of the 38 nodes were considered when co-locating on existing utility poles and light poles in the right of way. Refer to the Development Standards in Section IV.E.4 below for additional ways the applicant will minimize impacts from these installations.

3. Dispersal Limits (LUC 20.20.195.D.3): The applicant has verified that there are no other WCF's within 520 feet of this proposal in the public right of way.

4. Development Standards (LUC 20.20.195.D.4): The proposal has addressed the following development standards to ensure that the WCF minimizes the adverse impacts - especially visual and aesthetic impacts - on the properties adjacent to rights of way where the facilities will be located and in the vicinity of the facility.

a. Paint and Screening Techniques (LUC 20.20.195.D.4.a):

The small size of “small cell” antennas and RRU’s is an effective screening/concealment measure because relative to traditional “macrocell” antennas, the size effectively minimizes the visual impacts of a wireless facility on the surrounding neighborhood. All antennas and equipment must meet the definition of “small cells” as defined in Revised Code of Washington (RCW) 80.36.375.

On existing utility poles, replacement utility poles, and replacement light poles, all antennas, RRU’s, ancillary equipment, conduits, and mounting hardware/ brackets attached to the pole, either existing or proposed, will be painted brown to match the pole. This includes any existing conduits that were placed on the utility poles by other providers and/or PSE.

Refer to Conditions of Approval regarding antenna mounting and cabling, antenna and equipment color, and ground mounted equipment in Section VI of this report.

b. Design and Configurations to Minimize Visual Intrusion of the Facility (LUC 20.20.195.D.4.b):

In addition to the relatively small size of the “small cell” antennas and RRU’s, particularly when placed against existing electrical infrastructure, the following attributed of the proposed “small cell” design will reduce visual impacts of the system:

Nodes on Existing and Replacement PSE Utility Poles:

- All coaxial cables shall be pulled tight to minimize visual impacts.
- No antennas, RRU’s or ancillary equipment may be chained to the utility pole.
- Conduit runs shall be minimized as much as possible and where possible, conduits shall be placed as close as possible to each other.
- Pipe mounts will not extend beyond the top or bottom of the antennas.
- RRU’s will be placed within an RRU enclosure.
- All antennas, RRU’s, ancillary equipment, conduits, and mounting hardware/ brackets attached to the pole, either existing or proposed, will be painted brown to match the pole.

Nodes on Replacement PSE Light Poles:

- Each canister antenna, RRU, and mounting hardware/ brackets attached to the pole will be painted brown to match the pole.
- A single canister antenna will be used on top of the pole. The antenna, with a slender profile, has been selected because it has a diameter that is as close as possible to the six-inch by six-inch dimensions of the pole – thereby looking as much as possible like an extension of the pole.
- All cabling will be contained within the pole.

Refer to Condition of Approval regarding antenna mounting and cabling and antenna and equipment color in Section VI of this report.

c. Construction and Site Restoration Techniques (LUC 20.20.195.D.4.c):

There may be minor clearing associated with the installation five replacement poles, the attachment of the antennas and RRU's, and the connections of the antennas and RRU's connection to necessary utilities, including underground fiber for power. All work will be in the public right of way and will not trigger a clearing and grading permit. However, any disturbance to the right of way must be restored to an equal or better condition and right of way disturbance will be reviewed under the Right of Way Use Permit.

Construction hours will be determined under the Right of Way Use Permit to minimize impacts to surrounding residential neighborhoods and schools. **Refer to Condition of Approval regarding the Right of Way Use Permit in Section VI of this report.**

d. WCF Equipment (LUC 20.20.195.D.4.d):

As proposed and approved in this decision, no ground mounted equipment, including meters, will be allowed at any of the 38 nodes. **Refer to Condition of Approval regarding ground-mounted equipment in Section VI of this report.**

e. Co-location (LUC 20.20.195.D.4.e):

This proposal is for co-location of two antennas and one remote radio unit (RRU) on 12 existing and five replacement utility poles and one canister antenna and one RRU on 21 replacement light poles. Additional co-location on the pole for other carriers might be a possibility, subject to technical feasibility and approval by PSE. However, specific details or analysis with regards to future co-location have not been included as part of this proposal.

5. Radio Frequency Emissions (LUC 20.20.195.D.5): The Engineering Certification Letter submitted by Verizon's radio frequency (RF) engineer states that the facility will comply with the radio frequency emission standards adopted by the Federal Communications Commission (FCC). This certification letter can be found in the project file at the Record's Department in City Hall.

Although not required by the Land Use Code, the applicant (Verizon) has agreed to provide pre- and post-installation testing of RF emissions to confirm compliance with the FCC regulations. **Refer to Condition of Approval regarding radio frequency testing in Section VI of this report.**

6. Setback Requirements for Freestanding Wireless Communication Facilities (LUC 20.20.195.D.6):

Does not apply, since the proposal installations will be on existing PSE utility poles in the right of way.

7. **Independent Technical Review (LUC 20.20.195.D.7):**
No such review was deemed necessary for this application since Verizon has agreed to provide pre- and post-installation RF measurements. **Refer to Condition of Approval regarding radio frequency testing in Section VI of this report.**
8. **Removal of Abandoned Antennas and Towers (LUC 20.20.195.D.8):**
Refer to Condition of Approval regarding abandoned sites in Section VI of this report.
9. **Removal Upon Undergrounding (LUC 20.20.195.D.9):**
Refer to Condition of Approval regarding removal upon undergrounding in Section VI of this report.

V. DECISION

After conducting the various administrative reviews associated with this proposal, including applicable land use consistency and City Code and Standard compliance reviews, the Director of the Development Services Department does hereby **APPROVE** the proposal subject to the following **CONDITIONS**:

VI. CONDITIONS OF APPROVAL:

The following conditions are imposed under authority referenced:

Compliance with Bellevue City Codes and Ordinances

The applicant shall comply with all applicable Bellevue City Codes, Standards, and Ordinances including but not limited to:

Applicable Codes, Standards & Ordinances

Clearing & Grading Code – BCC 23.76
Construction Codes – BCC Title 23
Fire Code – BCC 23.11
Land Use Code – BCC Title 20
Noise Control – BCC 9.18
Sign Code – BCC Title 22
Right-of-Way Use Code 14.30
Utility Code – BCC Title 24

Contact Person

Janney Gwo, (425) 452-6190
Building Division, (425) 452-6864
Sean Nichols, (425) 452-2926
Sally Nichols, (425) 452-2727
Sally Nichols, (425) 452-2727
Sally Nichols, (425) 452-2727
Hopi Shull, (425) 452-2983
Lori Santo, (425) 452-6828

1. Modification to the Administrative Conditional Use (ACU) Plans

Approval of this ACU is for the design and information submitted under this permit application. ANY modification, including but not limited to the provision of additional equipment, meters, antennas, conduit, and fiber to this approval shall be processed as either a new Administrative Conditional Use OR as a Land Use Exemption to this approval. The applicant shall demonstrate compliance with the Land Use Code in effect at the time of issuance of this report when the modification occurs within the two-year vesting period. Any modifications of the project design must be reviewed for consistency with the design intent of this report. **Conditions of Approval run for the life of the project.**

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.30E.175

2. Antenna Mounting and Cabling

The antennas shall be attached to the existing or replacement utility pole such that no portion of the antenna extends above the height of the existing support structure (pole).

All proposed cabling shall be **pulled tightly** to minimize visual impacts. Detailed drawings shall be included in the wireless communication facilities in the right of way permit (CA Permit) submittal drawings. The details shall include, but not be limited to the following:

- a) Provide an enhanced detail demonstrating how the cabling will be pulled tight from the antennas to the RRU and from the RRU to the power source.
- b) Provide an enhanced detail that shows how all other cabling and fiber will be installed and how the cabling and aerial fiber will run from the antennas, equipment, and/or power source through these conduits. Include dimensions for distances between the top of each conduit and the RRU enclosure, antennas, power source, and/or aerial fiber.
- c) Conduit runs shall be minimized as much as possible while still screening as much of the exposed cabling as possible. Where feasible, conduits shall be placed as close as possible to each other.
- d) No antennas or equipment shall be chained to the poles. Methods of attachment must be clearly identified and included in the wireless communication facilities in the right of way permit (CA Permit) submittal drawings and shall maintain the stealth characteristics of each node.
- e) No pipe mounts shall extend past the top or bottom of the antennas.
- f) Multiple RRU's shall be placed within one RRU enclosure.
- g) The applicant shall work with Land Use to verify that the RRU's and antennas shall be placed as close to each other as possible to minimize exposed cabling.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.20.195.B.1.a.v

3. Antenna and Equipment Color

- a) **All** antennas (existing and proposed) and **all** associated equipment (including the pipe mounts, ancillary equipment and any existing conduits on the utility pole by others shall be painted *brown* to match the support structure (pole).
- b) *Prior to installation*, color samples shall be submitted as part of the Wireless Communication Facilities (WCF) in the Right of Way Permit (CA Permit). The color will be reviewed under the CA Permit to ensure as close a match

as possible to each of the existing and replacement poles. Note that more than one shade of brown may be necessary to provide as close a color match to each individual pole.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.20.195.D.4.a

4. Ground Mounted Equipment

As submitted and shown in approval documents, no ground mounted equipment, including meters, will be allowed in any of the 38 nodes that make up this “small cell” network installation.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.20.195.D.4

5. Noise

To reduce impacts on homes close to the poles, and as proposed by Verizon in this ACU application, no fans, generators or other noise-producing equipment will be allowed as a component of this “small cell” network installation.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.20.195.D

6. Expansion Beyond “Small Cell”

This approval is for a “small cell” network made up of “small cell” antennas and RRU’s, as defined in RCW 80.36.375. Any modifications to these installations that expand the facility at each node such that it no longer qualifies as a “small cell” per the RCW definition or diminishes the stealth characteristics of the nodes shall require additional Land Use review as a new Administrative Conditional Use.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: RCW 80.36.375, LUC 20.30E.175

7. Right of Way Use Agreement

No permits, including a Right of Way Use Permit, can be issued and no construction may begin until the applicant has executed a written right of way use agreement, which must be approved by the City Council.

REVIEWER: Hopi Shull, Right-of-Way
AUTHORITY: BCC 6.04.010 and 14.30.070.B

8. Right-of-Way Use Permit

Any use of the public right of way to install the “small cell” equipment on utility poles and run fiber in the right of way will require a Right of Way Use Permit.

Any disturbance of property in the right of way must be restored to a equal or better condition prior to facility activation.

REVIEWER: Hopi Shull, Right-of-Way
AUTHORITY: BCC 14.30.070 and 14.30.080

9. Radio Frequency Testing

The applicant (Verizon) will be required to perform a pre- and post-installation radio frequency emission measurement on a minimum of three selected nodes within the “small cell” system. Actual nodes to be tested shall be coordinated between the applicant and Land Use. Results of these measurements shall be submitted as a post-issuance revision to this Administrative Conditional Use permit and included for public view in the project file.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.20.195.D

10. Existing Radio System & Interference

If this telecommunications system causes interference problems with any of the existing radio systems for the City of Bellevue, this system will be required to immediately shut down until the interference can be removed or corrected.

REVIEWER: Sean Nichols, Fire Department
AUTHORITY: FCC 90.672

11. Completion of Work/Facility Activation

The facility shall not be activated until all work included in the project scope and shown on the plans and specifications is completed.

PRIOR TO ACTIVATION, the applicant shall call for a Land Use Inspection (600 Inspection) under the CA Permit so that Land Use can verify that each node was installed per the approved plans.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.40.425

12. Removal of Abandoned Sites

The owner of this facility shall provide the Director with copies of any notice of intent to cease operations that is provided to the Federal Communications Commission (FCC). All WCFs and the associated equipment shall be removed by the facility owner within 90 days of the date it ceases to be operational, or if the facility falls into disrepair and is not maintained. Disrepair includes structural features, paint, or general lack of maintenance, which could result in safety or visual impacts.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.20.195.D.8

13. Removal Upon Undergrounding

The owner of this facility must remove any of the installations at no expense to the city if the electrical system facility or the utility support structure to which they are attached are subsequently undergrounded.

REVIEWER: Sally Nichols, Land Use
AUTHORITY: LUC 20.20.195.D.9

Attachments

Project Plans and Documentation

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CODE COMPLIANCE

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E-1	GROUNDING NOTES AND DETAILS

SIGNATURE BLOCK

TITLE	SIGNATURE	DATE
CONSTRUCTION MANAGER		
RF ENGINEER		
REAL ESTATE		
SITE ACQUISITION		
PROPERTY OWNER		
TOWER OWNER		

CONFIDENTIAL AND PROPRIETARY

Not for disclosure outside VERIZON WIRELESS without permission.

verizon

NEWTORIA
SOUTHEAST BELLEVUE
BELLEVUE, WA

PROJECT DESCRIPTION:

THE SCOPE OF WORK INCLUDES:
THE INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT ON
EXISTING PSE UTILITY POLES, FIBER AND POWER LINE
EXTENSIONS TO NEW EQUIPMENT, ALL FOR 41 NODES IN A
POLYGON AREA IN NORTHWEST BELLEVUE

PROJECT SUMMARY

APPLICANT: VERIZON WIRELESS 3245 158TH AVE SE MS231 BELLEVUE, WA 98008	APPLICANT AGENT: md7 9725 3rd AVE NE, STE 401 SEATTLE, WA 98115 CONTACTS: BECKY TODD PHONE: 206-310-1793 emails: btodd@md7.com
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DESIGN CONSULTANT:

CAMP ASSOCIATES INC.
19401 40TH AVE W, SUITE 304
LYNNWOOD, WA 98036
CONTACT: ERIC CAMP
PHONE: 425-740-6392
FAX: 425-224-1614

SITE NAME: NEWTORIA

SITE ADDRESS: SOUTHEAST BELLEVUE
BELLEVUE, WA

LAND OWNER: TBD

STRUCTURE OWNER: PUGET SOUND ENERGY

JURISDICTION: CITY OF BELLEVUE, WA

PARCEL NUMBERS: SEE SHEETS A-1.1, A-1.2, & A-1.3

DRIVING DIRECTIONS FROM 3245 158TH AVE SE, BELLEVUE, WA TO NODE 3:

- 1) DEPART 3245 158TH AVE SE, BELLEVUE, WA 98008 ON 158TH AVE SE (SOUTH-WEST)
- 2) TURN RIGHT (WEST) ONTO SE EASTGATE WAY
- 3) TURN LEFT (WEST) ONTO RAMP I-90 W / SEATTLE
- 4) TAKE RAMP (LEFT) ONTO I-90 [MOUNTAINS TO SOUND GREENWAY-I-90]
- 5) AT EXIT 10, TURN RIGHT ONTO RAMP I-405 S / I-405 N / BELLEVUE / EVERETT / RENTON / TACOMA
- 6) TAKE RAMP (LEFT) ONTO I-405 S / TACOMA / RENTON-04 AM2.6
- 7) AT EXIT 10, TURN RIGHT ONTO RAMP COAL CREEK PKWY. / FACTORIA
- 8) KEEP LEFT TO STAY ON RAMP
- 9) TURN LEFT (SOUTH) ONTO COAL CREEK PKWY (SE)
- 10) KEEP STRAIGHT ONTO COAL CREEK PKWY (SE) [SE COAL CREEK PKWY]
- 11) TURN LEFT (EAST) ONTO FOREST DR SE
- 12) TURN LEFT (NORTH) ONTO SOMERSET DR SE [133RD PL SE]
- 13) TURN LEFT (WEST) ONTO SE 49TH ST
- 14) ARRIVE AT NODE #3

AREA MAP



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

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CONTRACTOR NOTES:

THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.

GENERAL NOTES:

DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, AND THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANYTHING ELSE DEEMED NECESSARY TO COMPLETE INSTALLATIONS AS DESCRIBED HEREIN.

PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE NEW PROJECT, WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS, FIELD CONDITIONS AND CONFIRM THAT THE PROJECT MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY ERRORS, OMISSIONS, OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING.

THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/ VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

ALL WORK PERFORMED ON PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

THE STRUCTURAL COMPONENTS OF THIS PROJECT SITE/FACILITY ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.

ANTENNA SUPPORTING POLE IS UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION SUB-CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF PERSONNEL AND PROPERTY FROM HAZARDOUS EXPOSURE TO OVERHEAD DANGERS.

GENERAL CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR SITUATIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE SCOPE OF WORK.

THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION UPON COMPLETION OF WORK. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

CONTRACTOR SHALL ENSURE THE GENERAL WORK AREA IS KEPT CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND NATIONAL CODES, REGULATIONS AND SAFETY REGULATIONS, ALL OSHA REGULATIONS, ALL PUBLIC AND MUNICIPAL AUTHORITIES, AND ANY UTILITY COMPANIES' REGULATIONS AND DIRECTIVES.

THE DRAWINGS AND SPECIFICATIONS ARE A GENERAL DIRECTIVE FOR THE SCOPE OF WORK. EXACT DIMENSIONS AND LOCATIONS MAY CHANGE IN THE FIELD. THE CONTRACTOR IS TO VERIFY THE DIMENSIONS AND LOCATIONS AND REPORT ANY AND ALL DISCREPANCIES TO REPRESENTATIVE. ANY MINOR ERRORS AND OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS DOES NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

CONTRACTOR IS RESPONSIBLE FOR FIELD MEASUREMENTS TO CONFIRM LENGTHS OF CABLE TRAYS AND ELECTRICAL LINES AND ANTENNA MOUNTING.

VERIFICATION THAT EXISTING TOWER/POLE/STRUCTURE CAN SUPPORT THE PROPOSED ANTENNA, COAX & ADDITIONAL EQUIPMENT LOADING IS TO BE DONE BY OTHERS.

CIVIL NOTES:

- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND STIPULATED IN THE SPECIFICATION PROJECT SUMMARY.
- RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE PCS EQUIPMENT, TOWER AREAS, AND ADJACENT BUILDINGS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION.

SUBGRADE AND BASE PREPARATION:

- FOR SLAB-ON-GRADE CONSTRUCTION IT WILL BE NECESSARY TO OVEREXCAVATE THE SITE BY 2'-0" AND IMPORT AN APPROVED GRANULAR FILL. THE FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY UNIT WEIGHT WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557). COMPACTION REQUIREMENTS APPLY TO BACKFILL FOR UTILITY TRENCHES AND FOUNDATION EXCAVATIONS WITHIN STRUCTURES, DRIVEWAYS, OR PARKING LOT AREAS.
- COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN SUCCESSIVE, HORIZONTAL, APPROXIMATELY SIX- TO EIGHT-INCH LOOSE LIFTS AND MECHANICALLY COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY.
- ANY ORGANIC MATERIAL, DELETERIOUS MATERIAL, OR DISTURBED SOIL SHALL BE REMOVED FROM FLATWORK AREAS.
- THE GROUND SURFACE SURROUNDING EXTERIOR STRUCTURES SHALL BE SLOPED TO DRAIN AWAY IN ALL DIRECTIONS.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH A.C.I. 301, A.C.I. 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
- UNLESS NOTED OTHERWISE, ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT, AIR-ENTRAINED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 POUNDS PER SQUARE INCH AT 28 DAYS. TYPE I-11 PORTLAND CEMENT WILL BE USED WITH A MAXIMUM AGGREGATE SIZE OF 3/4" AND 6% ±1% AIR ENTRAINMENT. ALL CONCRETE WILL HAVE A MAXIMUM WATER/CEMENT (W/C) RATIO OF 0.48.
- ALL CONCRETE FLATWORK SHALL HAVE A STIFF BROOM FINISH AND HAVE A SLOPE OF 1/8" PER FOOT UNLESS NOTED OTHERWISE.
- REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, DEFORMED.
- DETAIL, FABRICATE AND ERECT REINFORCEMENT BARS, INCLUDING BAR SUPPORTS, SPACERS, ETC. IN ACCORDANCE WITH 'DETAILING OF CONC. REINFORCEMENT' (A.C.I. 315-80, REV. 1986).
- UNLESS OTHERWISE NOTED, ALL LAP SPICES SHALL BE CLASS B CONFORMING TO ACI 318-95.
- A CHAMFER OF 1" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH A.C.I. 301 SECTION 4.2.4 UNLESS OTHERWISE NOTED.
- CONCRETE WORK SHALL BE COORDINATED WITH THE MECHANICAL, EQUIPMENT, AND ELECTRICAL WORK TO ASSURE THAT ALL AFFECTED PIPES, CONDUITS INSERTS, ETC. ARE IN PLACE AND VERIFIED BEFORE PLACING CONCRETE.
- CONCRETE COVER FOR REINFORCING BARS SHALL CONFORM TO THE FOLLOWING UNLESS INDICATED OTHERWISE ON THE DRAWINGS:

-CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND -	2 INCHES
-CONCRETE CAST AGAINST EARTH-	3 INCHES
- COORDINATE LOCATION OF STEEL ANCHOR BOLTS WITH STEEL FABRICATOR PRIOR TO INSTALLATION IN FIELD.
- CONTRACTOR SHALL PROVIDE SLEEVES FOR ALL WALL/SLAB PENETRATIONS (PIPING, CONDUIT, ETC.) POWER, TELCO AND COAX TO ENTER SITE UNDER EQUIPMENT SLAB.

METAL NOTES:

PART 1 - GENERAL

- SECTION INCLUDES: STRUCTURAL STEEL FRAMING MEMBERS, BASE PLATES, PLATES, BARS AND GROUTING UNDER BASE PLATES.
- SUBMITTALS: SHOP DRAWINGS: INDICATE SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, OPENINGS, CONNECTIONS, CAMBERS, LOADS, AND WELDED SECTIONS.
- QUALITY ASSURANCE
 - FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISI SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 - PERFORM DESIGN UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE.

PART 2 - PRODUCTS

- MATERIALS:

A. STRUCTURAL STEEL MEMBERS:	ASTM A572, GRADE 50
B. STRUCTURAL TUBING:	ASTM A500, GRADE B
C. PIPE:	ASTM A53, TYPE E OR S, GRADE B
D. BOLTS, NUTS, AND WASHERS:	ASTM A325
E. ANCHOR BOLTS:	ASTM A307
F. WELDING MATERIALS:	AUG D11, TYPE REQUIRED FOR MATERIALS BEING WELDED
G. GROUT:	NON-SHRINK TYPE, PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 1000 psi AT 28 DAYS. SSPC 15, TYPE 1, RED OXIDE
H. SHOP AND TOUCH-UP PRIMER:	ZINC RICH TYPE
I. TOUCH-UP PRIMER FOR GALV. SURFACES:	
- FABRICATION: CONTINUOUSLY SEAL JOINTED MEMBERS BY CONTINUOUS WELDS. GRIND EXPOSED WELDS SMOOTH.
- FINISH:

A. PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC SP-1 TO SP-10 PROCEDURES.
B. STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED.

PART 3 - EXECUTION

- EXAMINATION AND PREPARATION: VERIFY THAT THE FIELD CONDITIONS ARE ACCEPTABLE.
- ERECTION:

A. ALLOW FOR ERECTION LOADS. PROVIDE TEMPORARY BRACING TO MAINTAIN FRAMING IN ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRIDGING AND BRACING.
B. FIELD WELD COMPONENTS INDICATED ON SHOP DRAWINGS.
C. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
D. AFTER ERECTION, TOUCH-UP WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED OR GALVANIZED WITH TOUCH-UP PRIMERS AS SPECIFIED UNDER SECTION 05000-METALS, PART 2 - PRODUCTS, H & I, SURFACES TO BE IN CONTACT WITH CONCRETE NOT INCLUDED.
- FIELD QUALITY CONTROL: FIELD INSPECTION OF MEMBERS, CONNECTIONS, WELDS AND TORQUING.

TELECOMMUNICATIONS WIRING COMPONENTS
COAXIAL ANTENNA CABLE

- GENERAL
 - ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.
 - CERTAIN MATERIALS AND PRODUCTS WILL BE SUPPLIED BY THE OWNER (REFER TO GENERAL CONDITIONS FOR THE LIST OF OWNER FURNISHED EQUIPMENT, MATERIALS AND SUPPLIES FOR THESE ITEMS). THE CONTRACTOR IS RESPONSIBLE FOR PICKUP AND DELIVERY OF ALL SUCH MATERIALS.
 - ALL OTHER MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR.
- MATERIALS:
 - COAXIAL CABLE:
 - INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURERS' REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
 - ALL COAX RUN LENGTHS GREATER THAN 143 FEET SHALL BE 1-5/8" AND IN LENGTH LESS THAN OR EQUAL TO 143 FEET SHALL BE 1/2".
 - ANTENNA AND COAXIAL CABLE GROUNDING
 - ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)
 - COAXIAL CABLE IDENTIFICATION
 - TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLES, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
 - SECOND LOCATION IS INSIDE THE EQUIPMENT SHELTER NEAR THE WAVEGUIDE ENTRY PORT.
 - USE ANDREW CABLE TIES (FT.# 27290) TO SECURE IDENTIFICATION TAGS.
 - TESTING
VERIZON WIRELESS SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEET TEST & REPORT. THE CONTRACTOR IS TO PROVIDE CLIMBER / QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE VERIZON WIRELESS A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEET TEST.

ELECTRICAL NOTES:

INSTALLATION OF SECONDARY POWER AND CONNECTION TO METER SHALL BE COMPLETED IN COMPLIANCE WITH NATIONAL ELECTRIC CODE, NFPA 710, AND THE STATE LAWS, RULES AND REGULATIONS FOR INSTALLING ELECTRIC WIRES & EQUIPMENT. ALL LATEST ISSUE, AND WITH SPECIFICATIONS PER ASTM B 231, B 400, I.C.E.A. 8651-401, I.C.E.A. F81-510, & LOCAL PUD.

PROVIDE A METER BASE PER LOCAL UTILITY STANDARDS. MOUNT ON SIDE OF OUTER FURNISHED BACK BOARD.

UNDERGROUND CONDUIT SHALL BE RIGID POLYVINYL CHLORIDE CONDUIT: SCHEDULE 40, TYPE I, CONFORMING TO UL ARTICLE 651: WESTERN PLASTICS OR CARLON MANUFACTURER. COUPLINGS SHALL BE SLIP-ON, SOLVENT SEALED T PIPE. SOLVENT: WESTERN TYPE COMPATIBLE WITH PVC DUCT. ALL BENDS SHALL BE "WIDE SWEET" TYPE WITH A 24" MINIMUM RADIUS. ALL CONDUIT UNDER ROADS SHALL BE R50, (OR PVC ENCASED IN 8"x18" RED CONCRETE DUCTBANK).

CONDUIT USED INDOORS SHALL BE EMT, AND RIGID GALVANIZED STEEL FOR OUTDOORS. COUPLINGS SHALL BE RIGID STEEL AND COMPRESSION TYPE FOR EMT. SET SCREW FITTINGS ARE NOT PERMITTED. FOR ALL STUB-UPS, USE RIGID GALVANIZED STEEL CONDUIT.

WIRE AND CABLE SHALL BE OF THE TYPE AND SIZE AS REQUIRED BY NEC. THERE WILL BE NO SPICES ALLOWED. PROVIDE HDPE PULLING HAND HOLES AS NEEDED.

CONTRACTOR SHALL PROVIDE TEST OF THE GROUNDING SYSTEM BY CERTIFIED TESTING AGENCY. PROVIDE INDEPENDENT TEST RESULTS TO THE PROJECT MANAGER FOR REVIEW. GROUNDING SYSTEM RESISTANCE TO GROUND SHALL NOT EXCEED 5 OHMS. ALL ABOVE GRADE INTERIOR GROUNDING CONNECTORS SHALL BE DOUBLE-LUG COMPRESSION TYPE. ALL BELOW GRADE AND EXPOSED EXTERIOR GROUNDING CONNECTIONS TO PERMANENT EQUIPMENT AND FIXED BUILDING ELEMENTS SHALL BE CADWELD TYPE. CARE SHALL BE TAKEN TO REVIEW CONNECTION LOCATIONS AND MATERIAL TYPES TO AVOID POSSIBLE GALVANIC CORROSION. ALL EXPOSED GROUNDING CONNECTIONS TO BE COATED WITH ANTI-CORROSIVE AGENT SUCH AS "NO-OXY", "NOAOLX" OR "PENETROX". VERIFY PRODUCT WITH PROJECT MANAGER. ALL BOLTS, WASHERS AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.

ALL EXTERIOR GROUND BARS SHALL BE COATED WITH ANTI-CORROSIVE AGENT SUCH AS LPS-3 OR AS PER NOTE & ABOVE.

ALL JUNCTION AND OUTLET BOXES TO BE LABELED WITH KROY TAPE, OR EQUAL, DESIGNATING ALL CIRCUIT NUMBERS CONTAINED IN EACH BOX.

CONTRACTOR TO ENSURE ILC PROVIDED WITH (2) INTERNAL TVSS.

CONTRACTOR SHALL COORDINATE WITH SITE SURVEY TO LOCATE EXISTING UNDERGROUND UTILITIES. WHEREVER POTENTIAL CONFLICTS/ INTERFERENCES EXIST, HAND EXCAVATE TO AVOID DAMAGE. CONTACT ALL UTILITIES TO LOCATE UNDERGROUND PIPING IN PUBLIC ROW.

VERIFY THAT A.I.C. OF THE UTILITY DOES NOT EXCEED THE A.I.C. RATING OF THE PROVIDED EQUIPMENT SHELTER PACKAGE. IF OVER 10KAIC, PROVIDE FUSIBLE SERVICE ENTRANCE SWITCH AND CONFIRM LOWERING OF AIC TO ACCEPTABLE LEVELS.

UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

GROUNDING NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
- ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (CADWELD).
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING TWO (2) HIGH PRESS GRIPS.
- ALL EXOTHERMIC CONNECTIONS TO THE GROUND RODS SHALL START AT THE TOP & HAVE A VERTICAL SEPARATION OF 6" FOR EVERY ADDITIONAL CONNECTION.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG TIN PLATED COPPER UNLESS OTHERWISE INDICATED.
- GROUND RODS SHALL BE STAINLESS STEEL OR COPPER CLAD STEEL, 5/8" 10-FT. LONG (OR NOTED OTHERWISE ON PLANS), AND SHALL BE DRIVEN VERTICALLY WITH THEIR TOPS 18" BELOW FINAL GRADE OR 6' BELOW FROST LINE FOR MAXIMUM DEPTH.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6' MINIMUM BELOW THE FROST LINE.
- INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE PAD, SPREAD FOOTING, OR FENCE.
- EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
- OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM)
- MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS.
- CONTRACTOR TO VERIFY CURRENT GROUNDING STANDARDS PRIOR TO CONSTRUCTION.



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

1	8/23/18	PRELIM PERMIT ISSUE
2	8/23/18	PRELIM PERMIT ISSUE
3	8/23/18	PRELIM PERMIT ISSUE
4	8/23/18	PRELIM PERMIT ISSUE
5	8/23/18	PRELIM PERMIT ISSUE
6	8/23/18	PRELIM PERMIT ISSUE
7	8/23/18	PRELIM PERMIT ISSUE
8	8/23/18	PRELIM PERMIT ISSUE
9	8/23/18	PRELIM PERMIT ISSUE
10	8/23/18	PRELIM PERMIT ISSUE

SHEET NAME

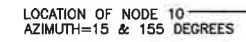
GENERAL NOTES

SHEET NUMBER

SP-1

PROJECT NUMBER

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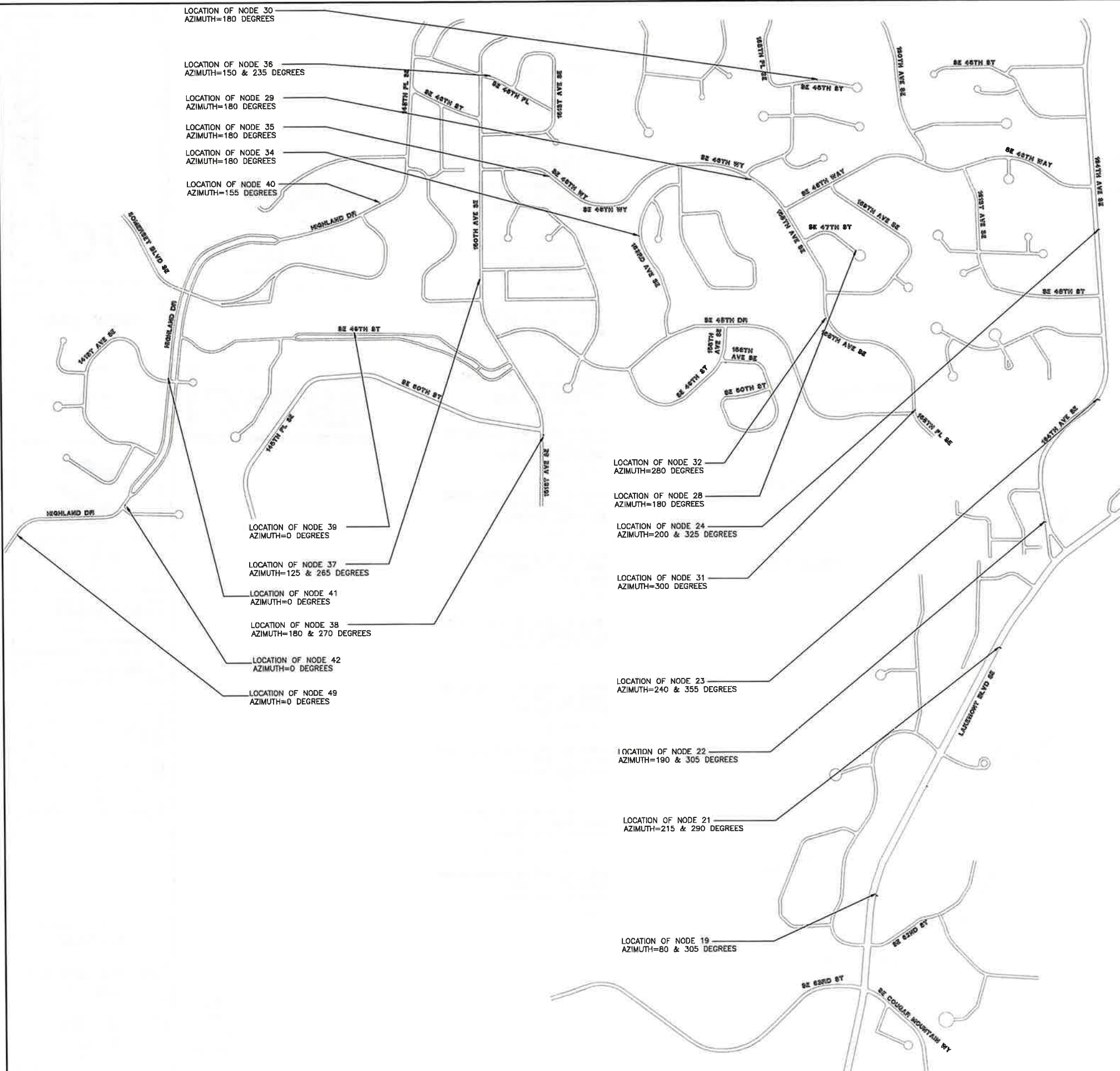


PROJECT NUMBER



NORTH

0 400 800 1200



APPLICANT:
VERIZON WIRELESS
3245 158th AVENUE, SE
BELLEVUE, WA 98008

DESIGN CONSULTANT:
CAMP & ASSOCIATES INC.
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CONTACT: ERIC CAMP
PHONE: 425-280-8651
email: eric.camp@campassoc.com

APPLICANT AGENT:
md7
9725 3rd AVE NE, STE 401
SEATTLE, WA 98115
CONTACTS: BECKY TODD
PHONE: 206-310-1793
emails: btodd@md7.com

LEGAL DESCRIPTIONS

- NODE 19, POLE ID: 320271/168039**
5884 LAKEMONT BLVD
BELLEVUE, WA 98006
NOT APPLICABLE
- NODE 21, POLE ID: 220442/168134**
LEWIS CREEK PARK
BELLEVUE, WA 98006
NOT APPLICABLE
- NODE 22, POLE ID: 220523/168172**
5398 184TH AVE SE
BELLEVUE, WA 98006
NOT AVAILABLE AT THIS TIME
- NODE 23, POLE ID: 220622/168221**
4998 184TH AVE SE
BELLEVUE, WA 98006
NOT AVAILABLE AT THIS TIME
- NODE 24, POLE ID: 220769/168225**
4720 184TH AVE SE
BELLEVUE, WA 98006
HAMPTON PLACE
- NODE 28, POLE ID: 220744/168044**
16868 SE 47TH ST
BELLEVUE, WA 98006
WHISPERING HEIGHTS DIV # 4
- NODE 29, POLE ID: 220801/167966**
15593 SE 46TH WAY
BELLEVUE, WA 98006
NOT AVAILABLE AT THIS TIME
- NODE 30, POLE ID: 220882/168018**
16724 SE 45TH ST
BELLEVUE, WA 98006
WHISPERING VIEW
- NODE 31, POLE ID: 220825/168083**
4930 159TH PL SE
BELLEVUE, WA 98006
EAGLES MERE #4
- NODE 32, POLE ID: 220895/168012**
4807 158TH AVE SE
BELLEVUE, WA 98006
EAGLES MERE #42
- NODE 34, POLE ID: 220764/167876**
4714 153RD AVE SE
BELLEVUE, WA 98006
THE HEIGHTS
- NODE 35, POLE ID: 220812/167814**
15107 SE 46TH PL
BELLEVUE, WA 98006
WHISPERING HEIGHTS DIV # 1
- NODE 36, POLE ID: 220902/167763**
15015 SE 45TH PL
BELLEVUE, WA 98006
EASTGATE ADD DIV L
- NODE 37, POLE ID: 220734/167753**
4749 150TH AVE SE
BELLEVUE, WA 98006
NOT AVAILABLE AT THIS TIME
- NODE 38, POLE ID: 220613/167805**
14891 SE 50TH ST
BELLEVUE, WA 98006
HORIZON VIEW ADD DIV A
- NODE 39, POLE ID: 220899/167863**
14620 SE 49TH ST
BELLEVUE, WA 98006
EAGLES MERE # 1
- NODE 40, POLE ID: 220812/167676**
4631 HIGHLAND DRIVE
BELLEVUE, WA 98006
HORIZON HIGHLANDS ADD
- NODE 41, POLE ID: 220869/167518**
4956 HIGHLAND DRIVE
BELLEVUE, WA 98006
SOMERSET EAST DIV #1
- NODE 42, POLE ID: 220575/167494**
14205 SE 52ND PL
BELLEVUE, WA 98006
SOMERSET EAST DIV #3
- NODE 49, POLE ID: 220554/167408**
5270 HIGHLAND DRIVE
BELLEVUE, WA 98006
WESTWOOD HIGHLANDS DIV #2

NOTE:
ALL LEGAL DESCRIPTIONS WERE OBTAINED
FROM THE KING COUNTY WEB SITE. NO
TITLE REPORTS OR OFFICIAL SURVEY
WERE AVAILABLE AT THE TIME THESE
DRAWINGS WERE COMPLETED.



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2/23/18	PRELIM PERMIT ISSUE
3/11/17	PRELIM PERMIT ISSUE
3/29/17	PRELIM PERMIT ISSUE
4/7/17	PRELIM PERMIT ISSUE
4/9/16	PRELIM PERMIT ISSUE
4/13/16	PRELIM PERMIT ISSUE
4/13/16	PRELIM PERMIT ISSUE
4/30/16	PRELIM PERMIT ISSUE
4/3/16	PRELIM PERMIT ISSUE

SHEET NAME

**OVERALL SITE PLAN
RING #2**

SHEET NUMBER

A-1.2

PROJECT NUMBER

--



DESIGN CONSULTANT:
CAMP & ASSOCIATES INC.
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CONTACT: ERIC CAMP
PHONE: 425-280-8651
email: eric.camp@campassoc.com

LEGAL DESCRIPTIONS

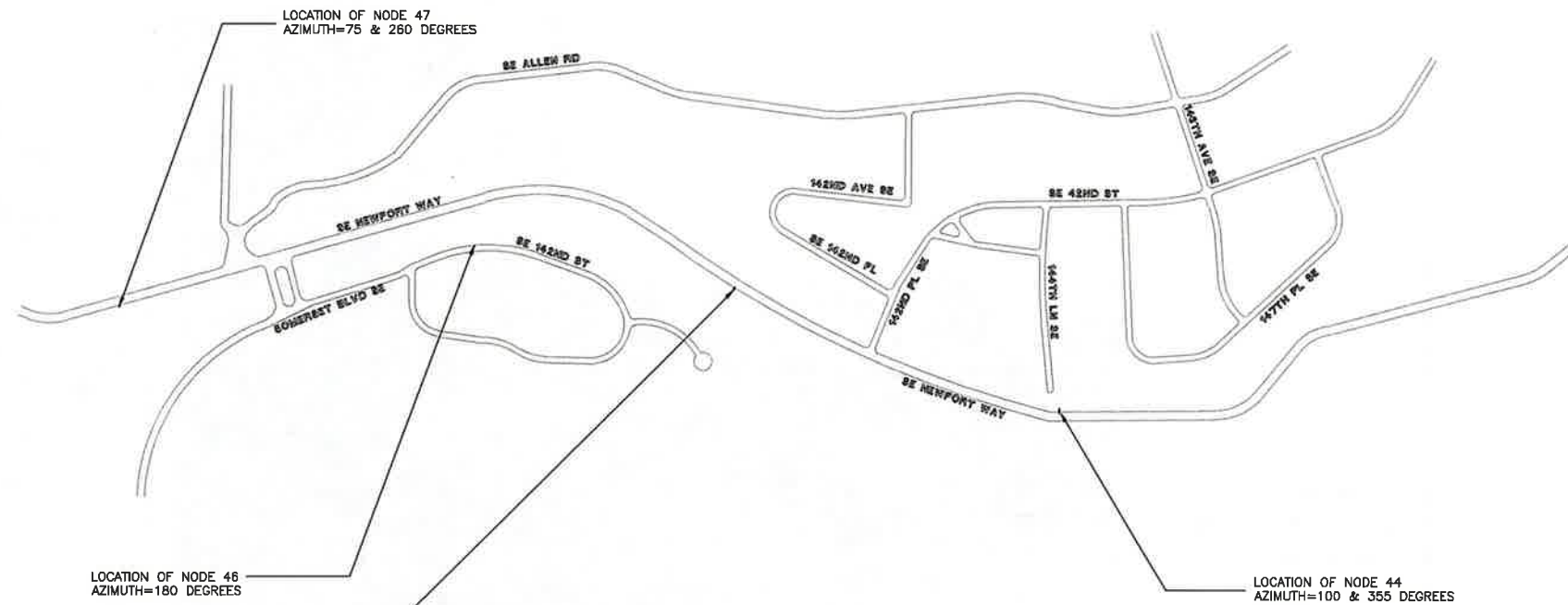
LEGAL DESCRIPTIONS TO BE DETERMINED

GARDENBROOK DIV NO 2 CORRECTION PLAT

SOMERSET NORTH SLOPE

"LOT 3" BELLEVUE SHORT PLAT NO 08-102955-1F REC NO 2008022999000000 SD SHORT.
PLAT DAF - POR OF NW 1/4 OF SW 1/4 OF NW 1/4 STR 15-24-05 - BEG AT NKN OF
WEST LN OF WESTWOOD ADDITION TO EASTGATE PLAT WITH SLY MGN OF NEWPORT ISSAQUAH
RD TH N 00-22-38 E 27.68 FT TO NORTH LN OF SD NW 1/4 OF SW1/4 OF NW 1/4 TH
N 89-04-20 W ALG SD NW 1/4 TH S 00-22-38 W 180.00 FT TH S 89-04-20
W 180.00 FT TO WEST LN OF WESTWOOD ADDITION TO EASTGATE TH N 00-22-38 E ALG
WEST LN 152.32 FT TO THE POB
TH S 00-22-38 W 180.00 FT TO LESSOR POR DEEDED
TO KING COUNTY FOR NEWPORT WAY UNDER REC NO 5714516 & LESSOR POR DEEDED TO
CITY OF BELLEVUE FOR NEWPORT WAY SE UNDER REC NO 19990924002002

NOTE:
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WERE AVAILABLE AT THE TIME THESE
DRAWINGS WERE COMPLETED.



0 300 600 900

OVERALL SITE PLAN

SCALE: 1" = 300'-0" (22x34), 1" = 600'-0" (11x17)

NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER:	EJC
-------------------------	-----

PREPARED BY: GA

APPROVED BY: EJC

7	SS	3/22/18	PRELIM PERMIT ISSUE
6	GA	11/21/17	PRELIM PERMIT ISSUE
5	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/18	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
	GA	3/22/16	PRELIM PERMIT ISSUE

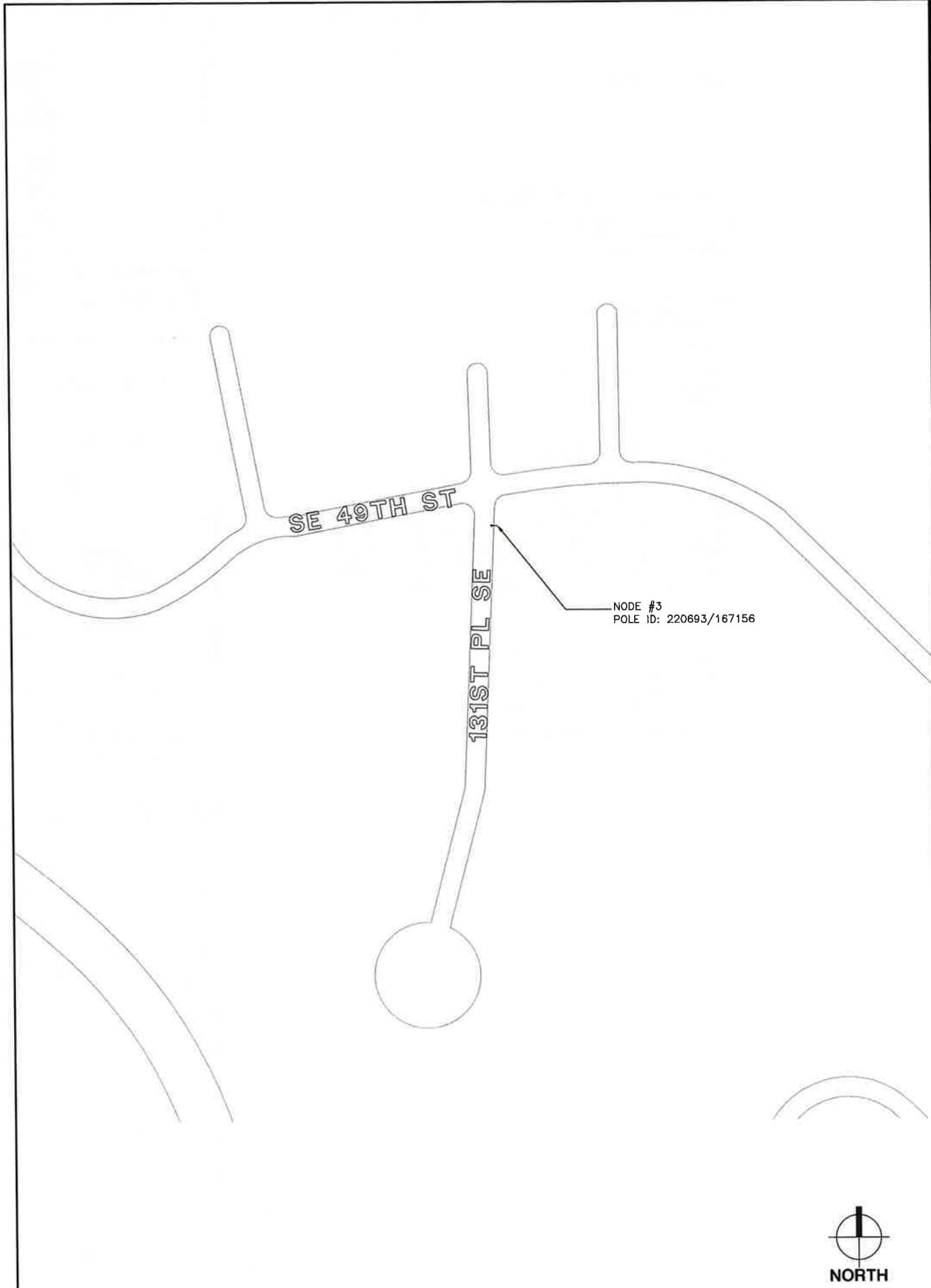
SHEET NAME

**OVERALL SITE PLAN
RING #3**

SHEET NUMBER

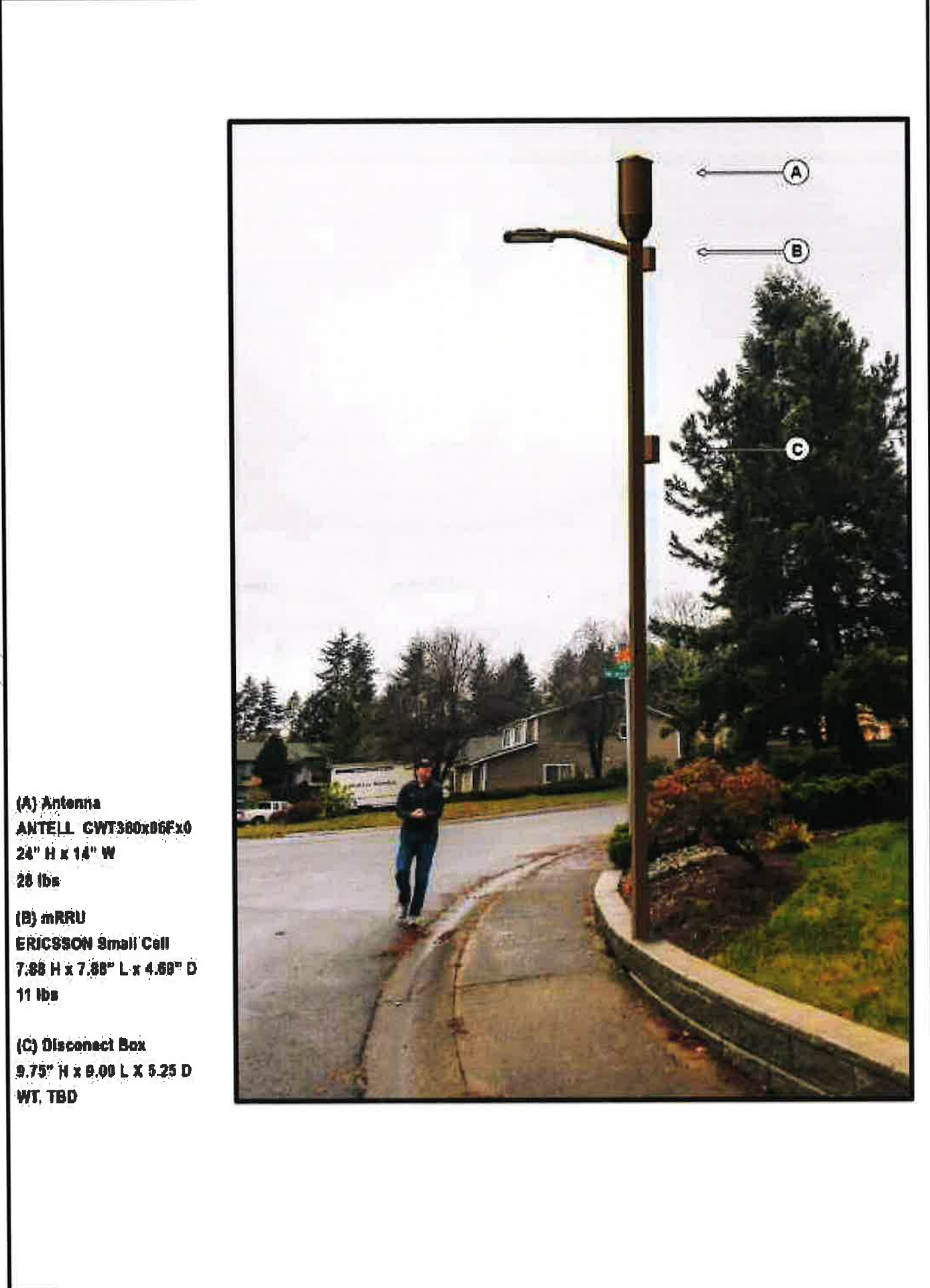
A-1.3

PROJECT NUMBER



1

NODE 3 VICINITY MAP
NOT TO SCALE



2

NODE 3 PHOTO SIM
NOT TO SCALE

- (A) Antenna
ANTELL CWT380x06F x0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON 9small Cell
7.88 H x 7.88" L x 4.89" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD

verizon

mcd7

NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

C

CAMP+
ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER:

EJC

PREPARED BY:

GA

APPROVED BY:

EJC

2	SS 3/22/18	PRELIM PERMIT ISSUE
3	GA 11/21/17	PRELIM PERMIT ISSUE
3	GA 8/29/17	PRELIM PERMIT ISSUE
2	GA 7/19/17	PRELIM PERMIT ISSUE
3	GA 9/14/16	PRELIM PERMIT ISSUE
2	GA 6/17/16	PRELIM PERMIT ISSUE
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A	GA 3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

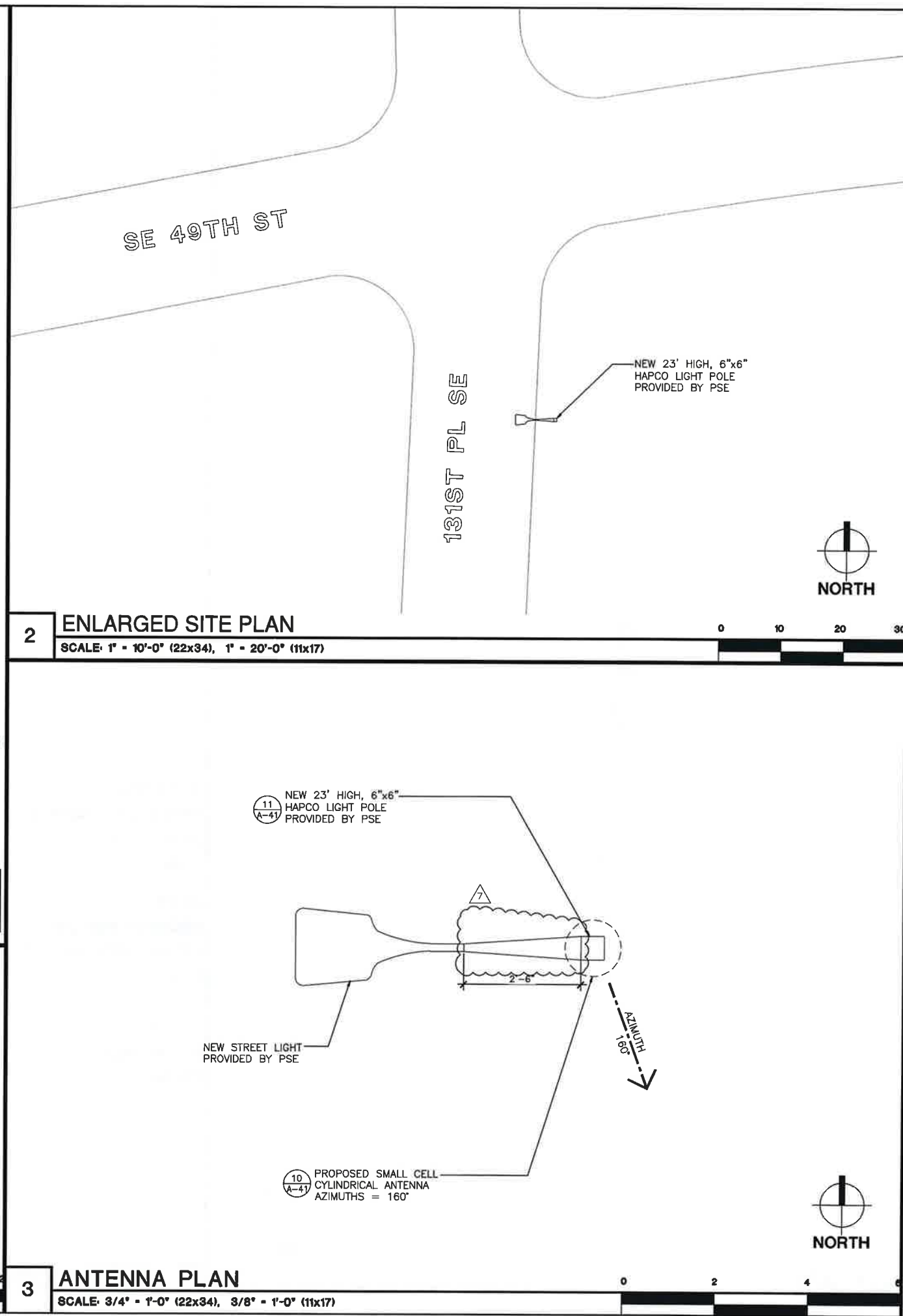
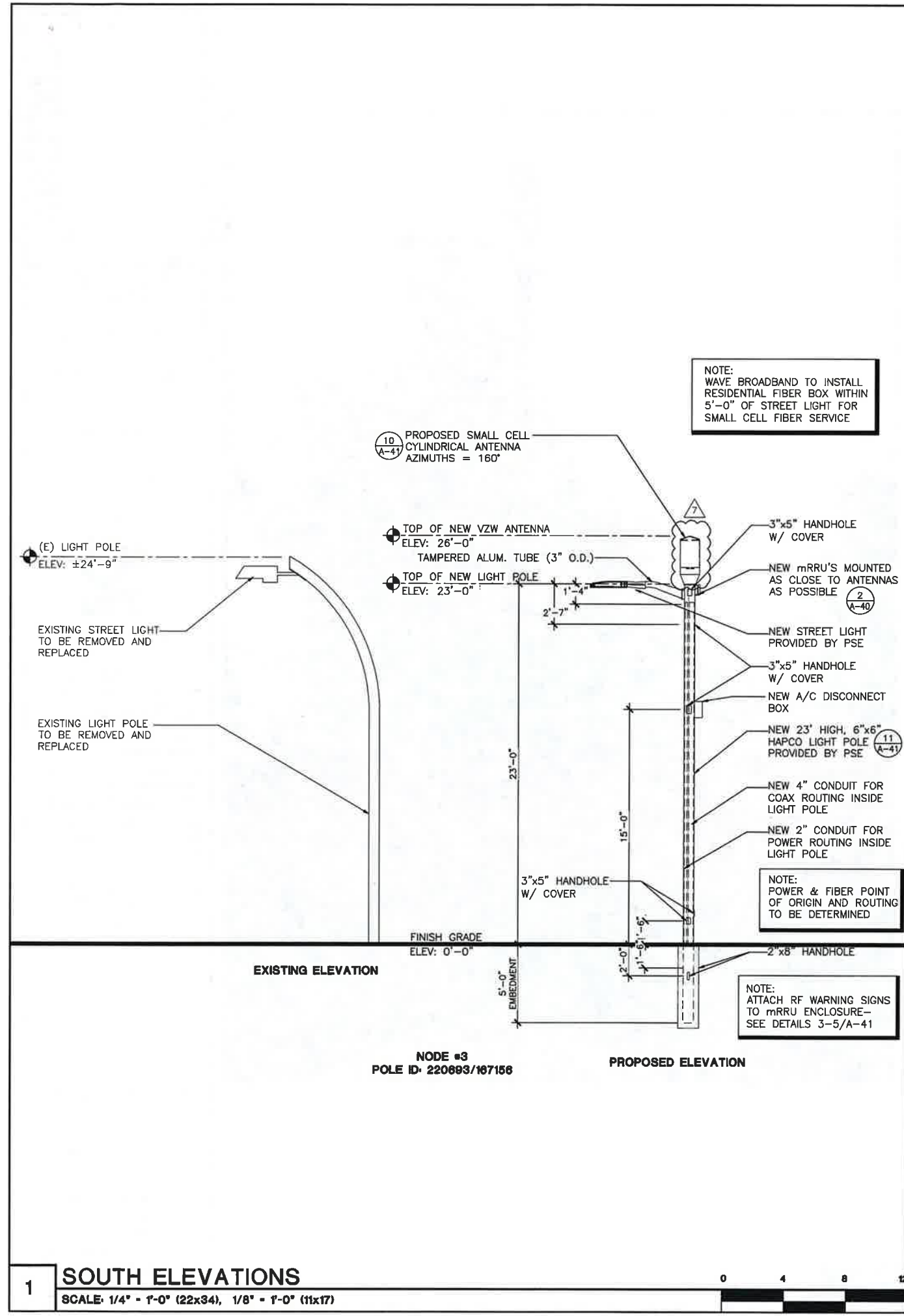
NODE 3
PHOTO SIM

SHEET NUMBER

A-2.0

PROJECT NUMBER

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verizon

md7

NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
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PROJECT MANAGER: EJC

PREPARED BY: GA

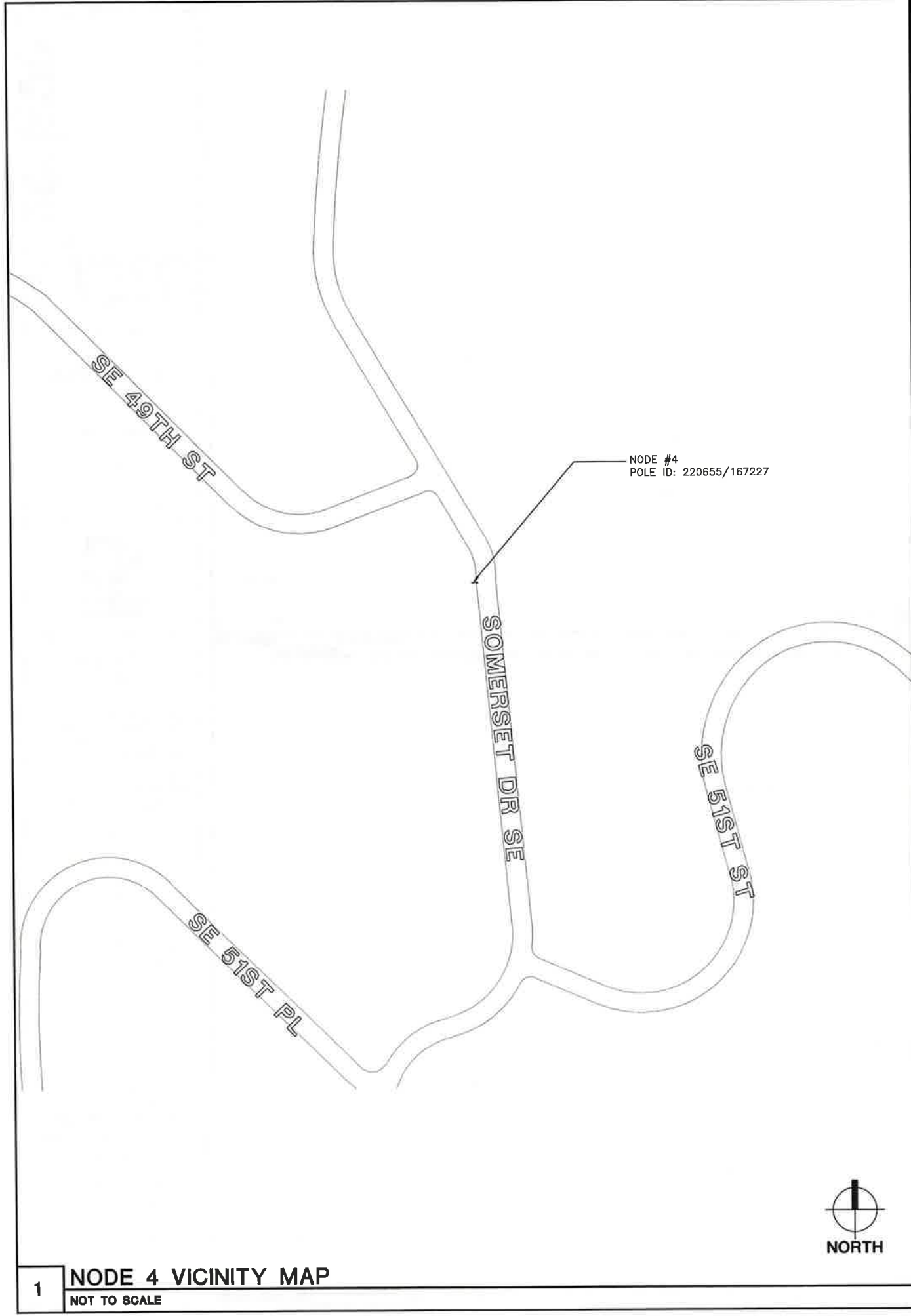
APPROVED BY: EJC

DATE	DESCRIPTION
11/22/18	PRELIM PERMIT ISSUE
11/21/17	PRELIM PERMIT ISSUE
8/29/17	PRELIM PERMIT ISSUE
7/19/17	PRELIM PERMIT ISSUE
9/14/16	PRELIM PERMIT ISSUE
6/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
**NODE 3 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION**

SHEET NUMBER
A-2.1

PROJECT NUMBER
--



- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00" L x 5.25" D
WT. TBD



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-9851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

7/25/18	PRELIM PERMIT ISSUE
8/1/17	PRELIM PERMIT ISSUE
8/29/17	PRELIM PERMIT ISSUE
7/19/17	PRELIM PERMIT ISSUE
9/14/16	PRELIM PERMIT ISSUE
5/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

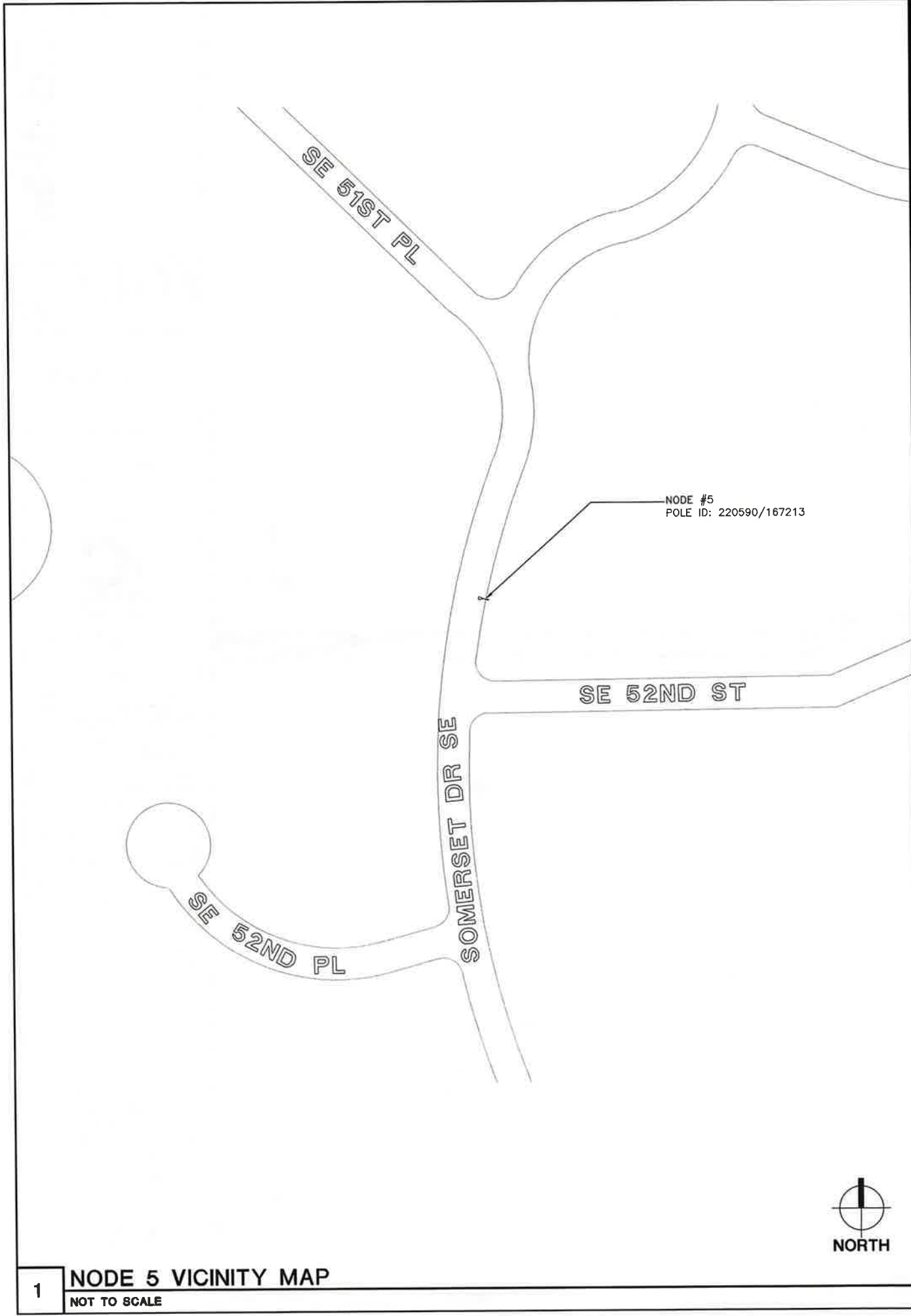
SHEET NAME

NODE 4
PHOTO SIM

SHEET NUMBER

A-3.0

PROJECT NUMBER



- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-9651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SCA	11/21/17	PRELIM PERMIT ISSUE
SCA	8/29/17	PRELIM PERMIT ISSUE
SCA	7/19/17	PRELIM PERMIT ISSUE
SCA	9/14/16	PRELIM PERMIT ISSUE
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SCA	3/30/16	PRELIM PERMIT ISSUE
SCA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

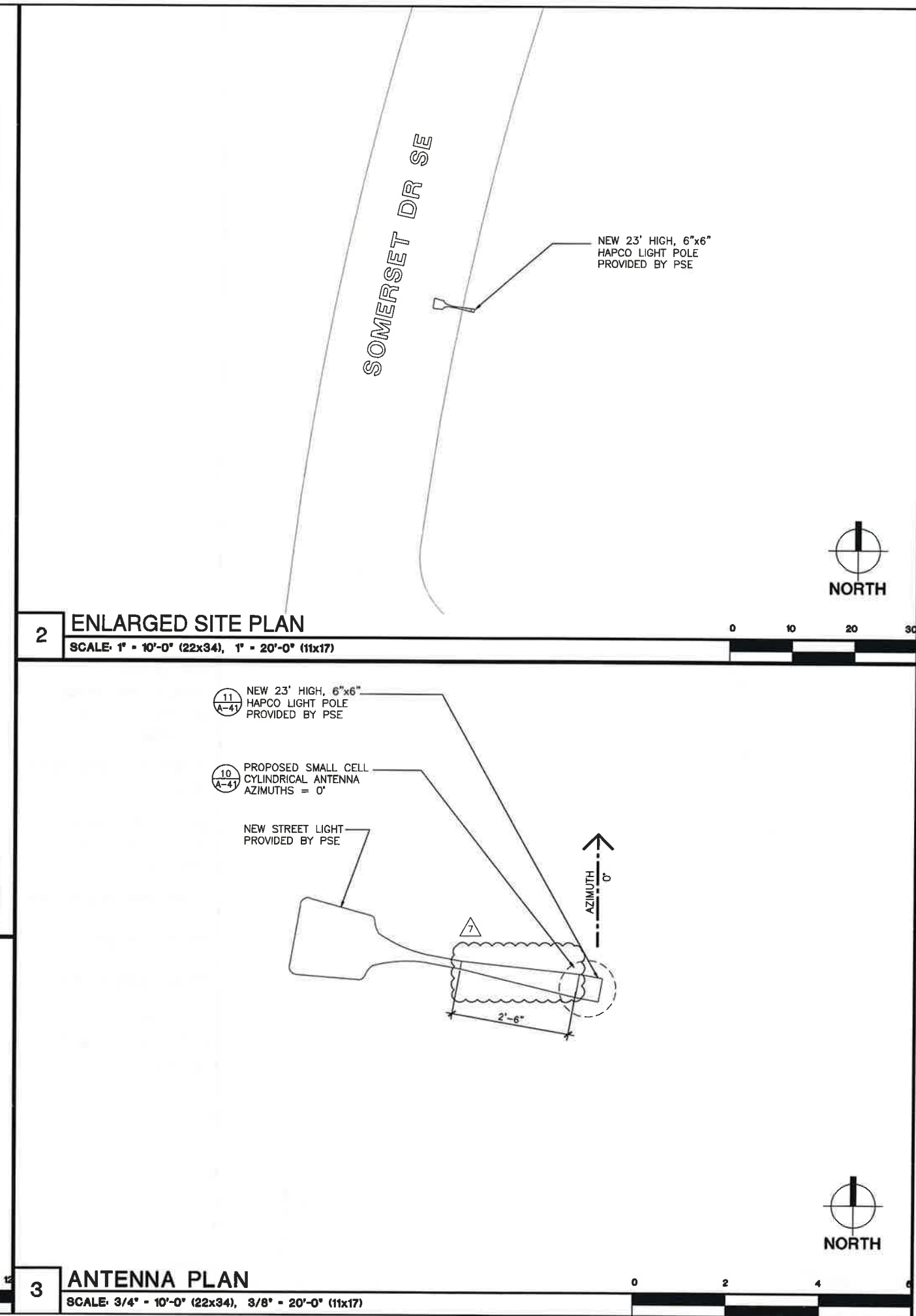
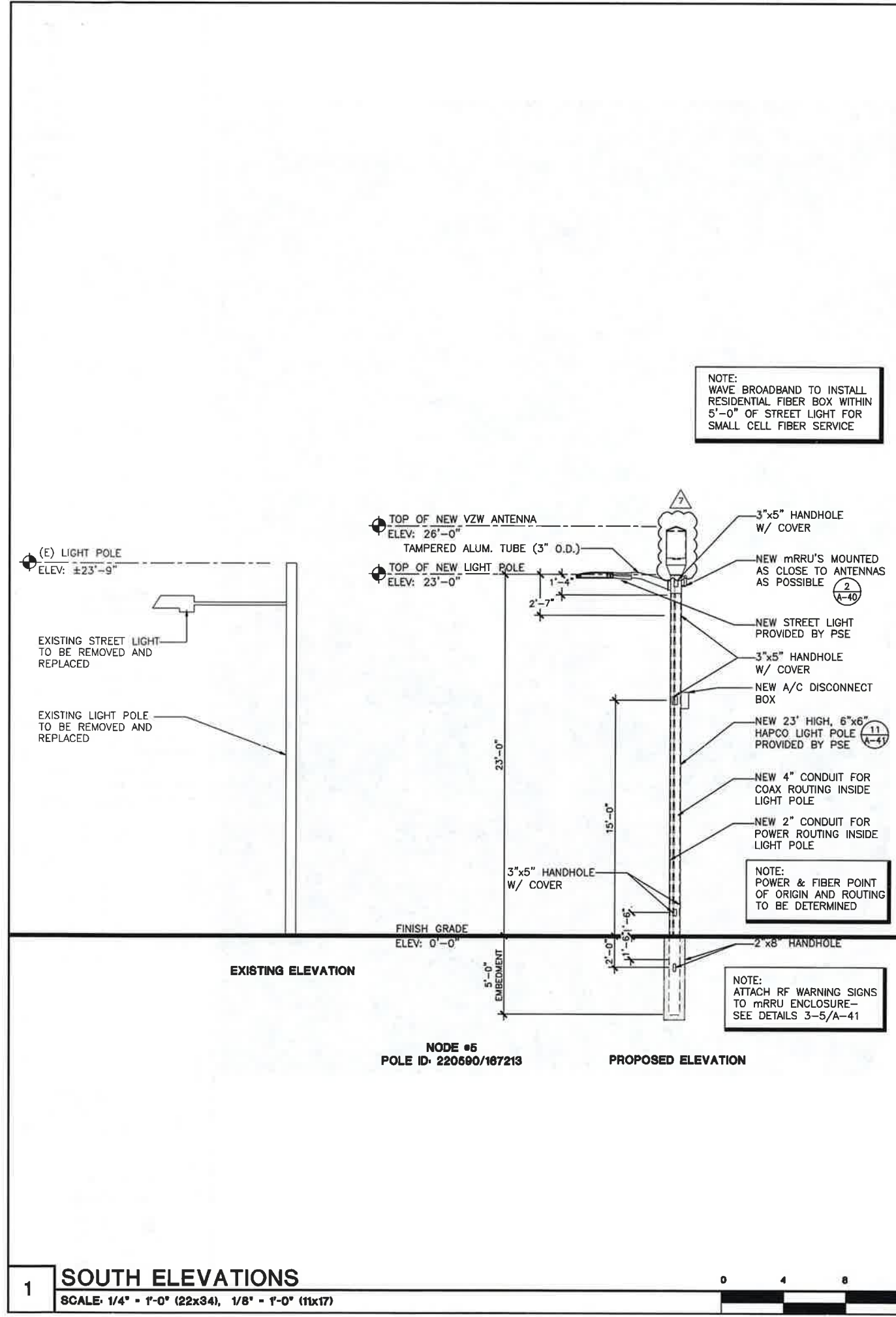
NODE 5
PHOTO SIM

SHEET NUMBER

A-4.0

PROJECT NUMBER

--



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

DATE	DESCRIPTION
SS 3/22/18	PRELIM PERMIT ISSUE
GA 11/21/17	PRELIM PERMIT ISSUE
GA B/29/17	PRELIM PERMIT ISSUE
GA 7/19/17	PRELIM PERMIT ISSUE
GA 9/14/16	PRELIM PERMIT ISSUE
GA 5/17/16	PRELIM PERMIT ISSUE
GA 5/13/16	PRELIM PERMIT ISSUE
GA 3/30/16	PRELIM PERMIT ISSUE
GA 3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
**NODE 5 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION**

SHEET NUMBER
A-4.1

PROJECT NUMBER

NODE #6
POLE ID: 167125/220598

COAL CREEK PKWY SE

FOREST DR SE



- (A) Antenna (x2)
ANTEL HTXCWW4513Fx0
24.1" H x 18" W x 7.1" D
11.7 lbs (x2)
- (B) Microlab Low PIM Splitters
10" L (x4)
- (C) MTC3760PRE2 RRU
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber
- (G) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1814
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
GA	11/21/17	PRELIM PERMIT ISSUE
GA	8/29/17	PRELIM PERMIT ISSUE
GA	7/19/17	PRELIM PERMIT ISSUE
GA	9/14/16	PRELIM PERMIT ISSUE
GA	6/17/16	PRELIM PERMIT ISSUE
GA	5/13/16	PRELIM PERMIT ISSUE
GA	3/30/16	PRELIM PERMIT ISSUE
GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

NODE 6
PHOTO SIM

SHEET NUMBER

A-5.0

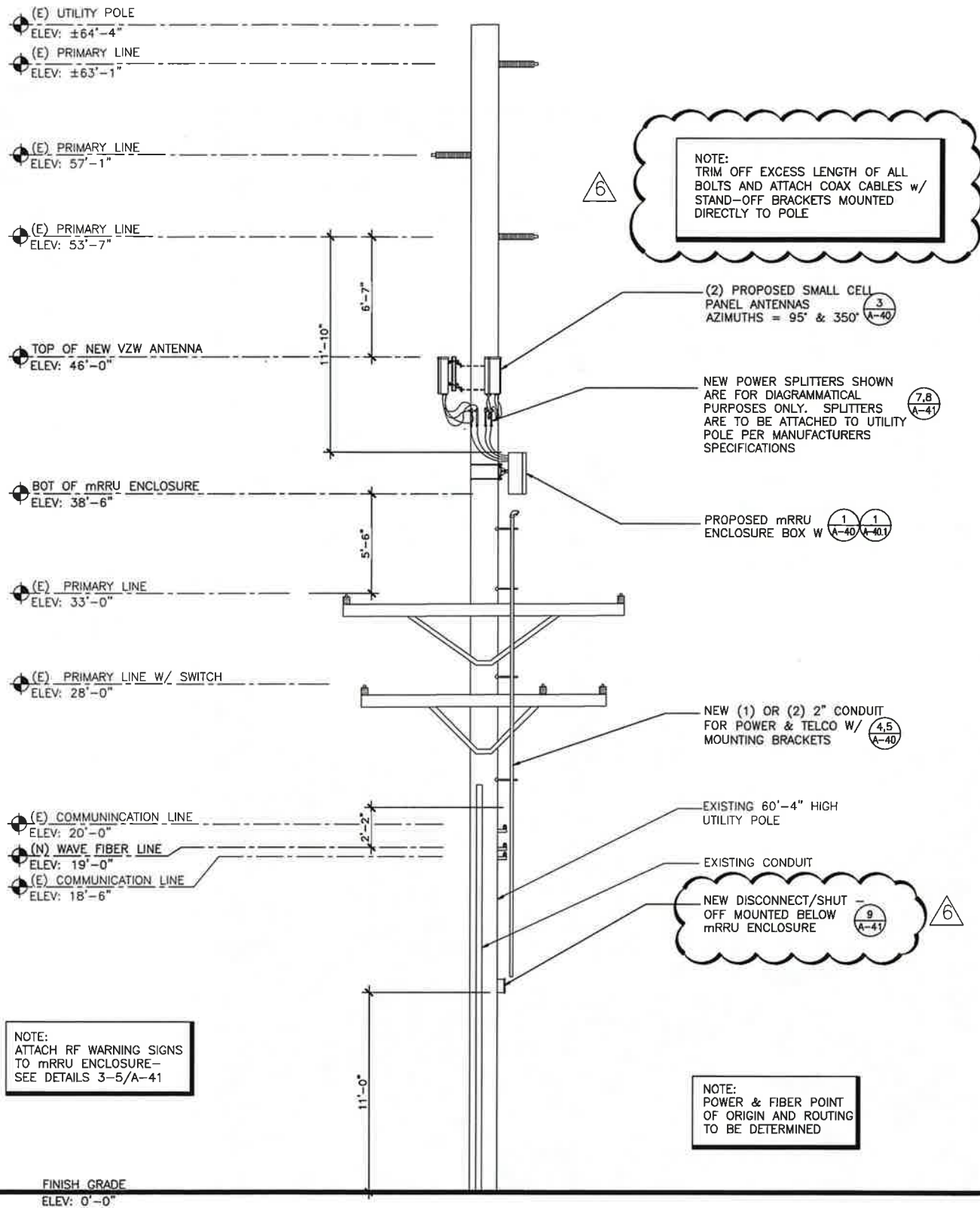
PROJECT NUMBER

1

NODE 6 VICINITY MAP
NOT TO SCALE

2

NODE 6 PHOTO SIM
NOT TO SCALE



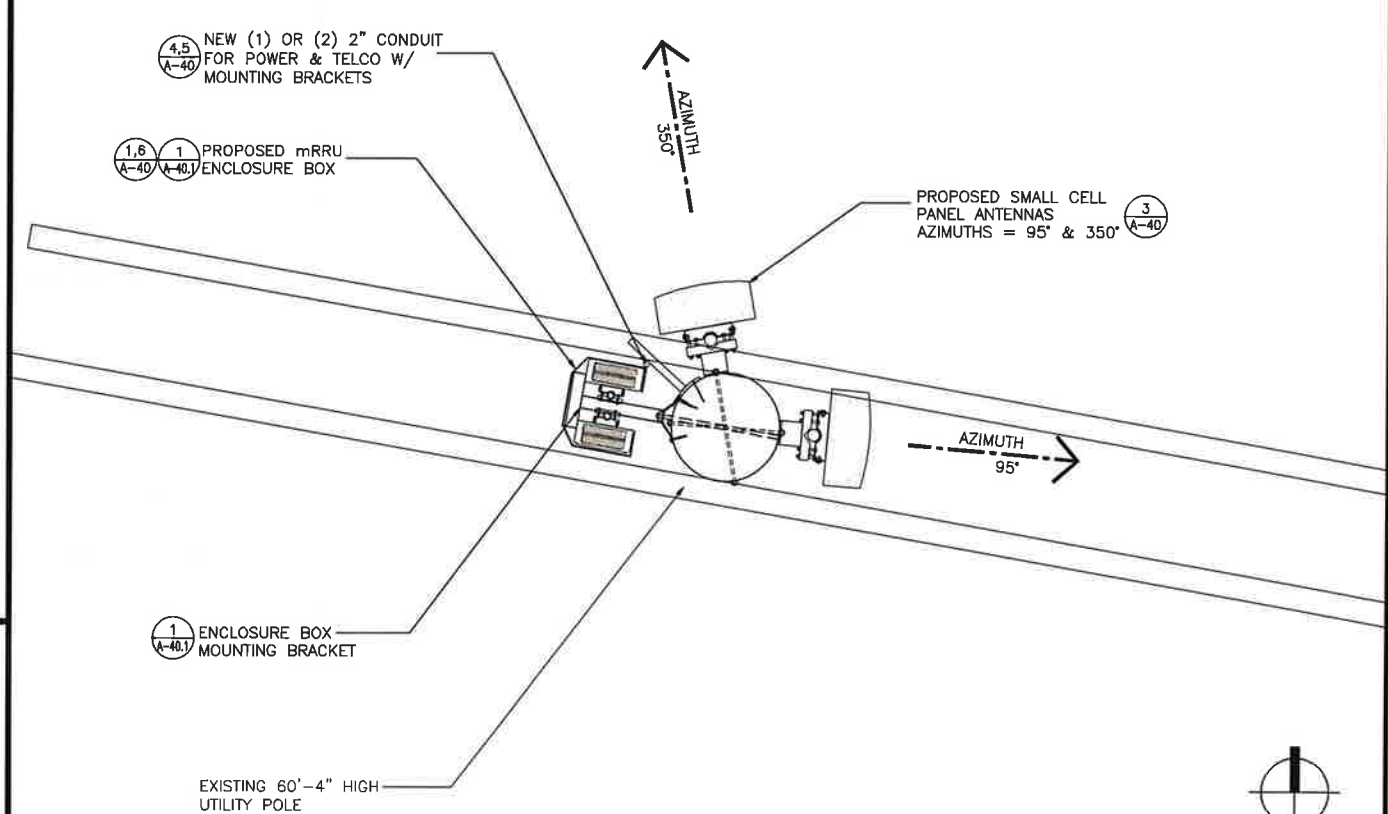
NODE #6
POLE ID: 187125/220598

NORTH ELEVATION

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

GA	3/22/18	PRELIM PERMIT ISSUE
GA	11/21/17	PRELIM PERMIT ISSUE
GA	8/29/17	PRELIM PERMIT ISSUE
GA	7/19/17	PRELIM PERMIT ISSUE
GA	9/14/16	PRELIM PERMIT ISSUE
GA	6/17/16	PRELIM PERMIT ISSUE
GA	5/13/16	PRELIM PERMIT ISSUE
GA	3/30/16	PRELIM PERMIT ISSUE
GA	3/22/16	PRELIM PERMIT ISSUE

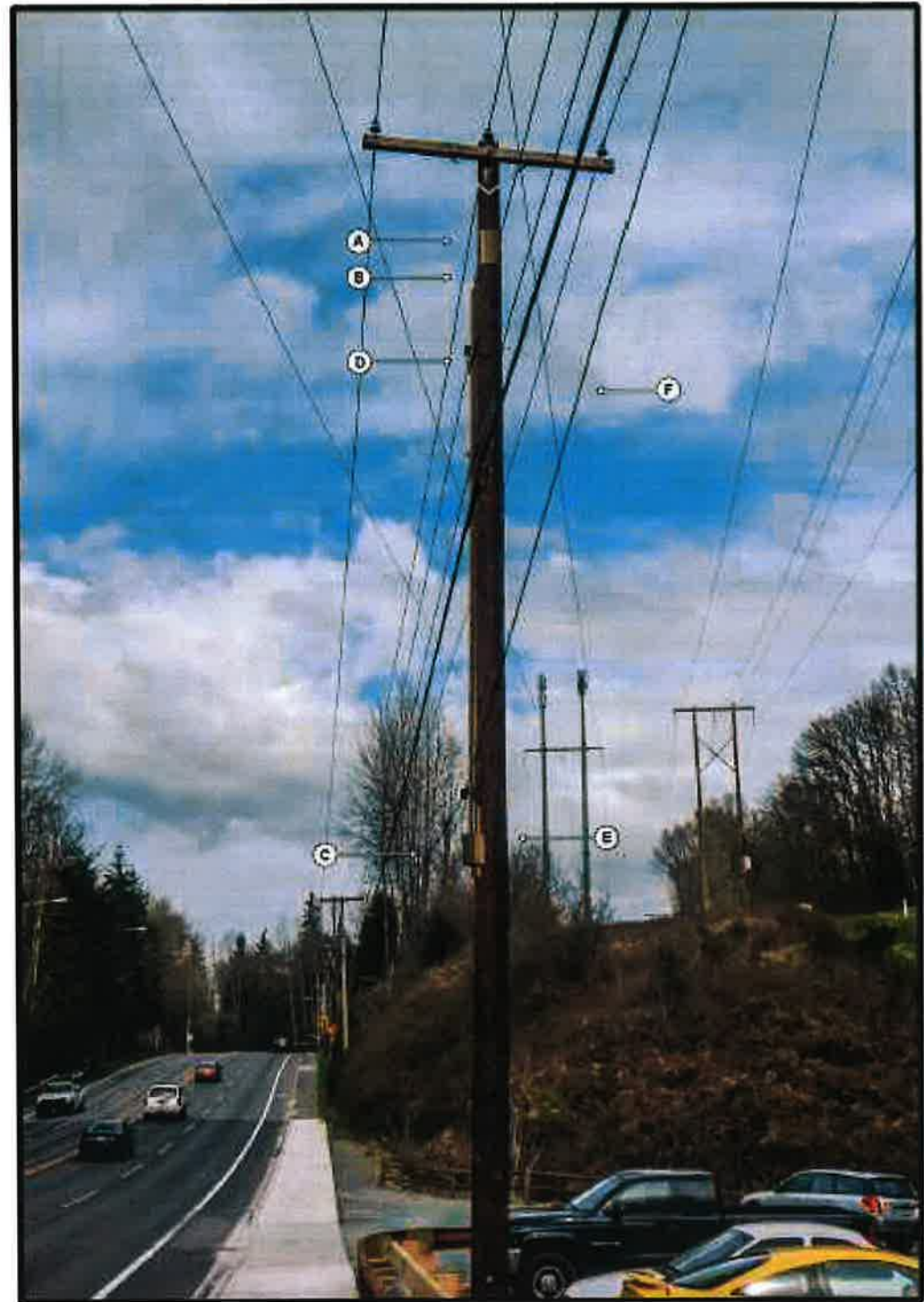
SHEET NAME
NODE 6 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-5.1

PROJECT NUMBER
--



- (A) Antenna (x2)
ANTEL HTXCWN4513Fx0
24.1" H x 18" W x 7.1" D
11.7 lbs (x2)
- (B) MicroLab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

7/25/18	PRELIM PERMIT ISSUE
8/11/17	PRELIM PERMIT ISSUE
8/29/17	PRELIM PERMIT ISSUE
7/19/17	PRELIM PERMIT ISSUE
9/14/16	PRELIM PERMIT ISSUE
6/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

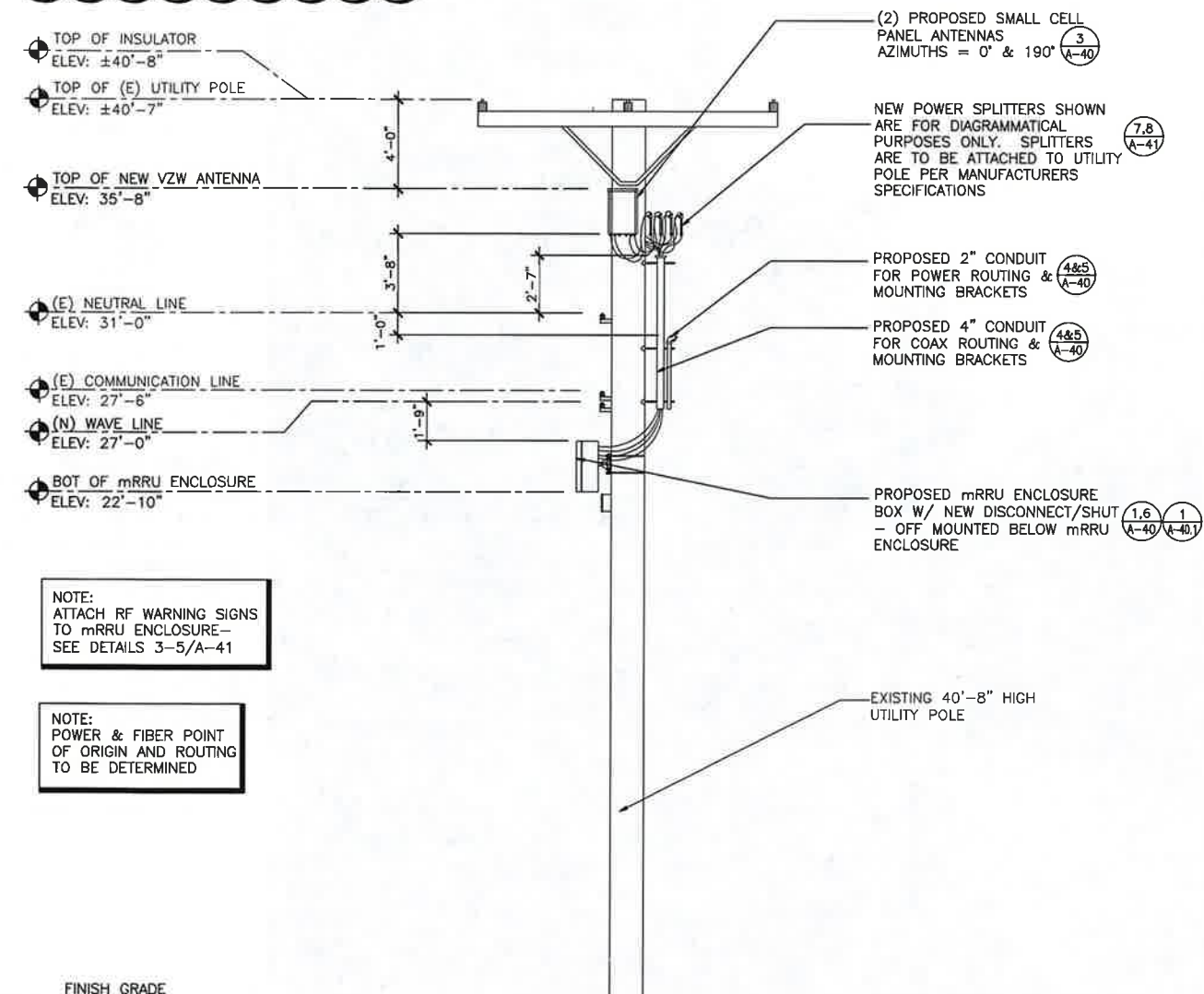
NODE 7
PHOTO SIM

SHEET NUMBER

A-6.0

PROJECT NUMBER

NOTE:
TRIM OFF EXCESS LENGTH OF ALL
BOLTS AND ATTACH COAX CABLES w/
STAND-OFF BRACKETS MOUNTED
DIRECTLY TO POLE



NOTE:
ATTACH RF WARNING SIGNS
TO mRRU ENCLOSURE—
SEE DETAILS 3-5/A-41

NOTE:
POWER & FIBER POINT
OF ORIGIN AND ROUTING
TO BE DETERMINED

FINISH GRADE
ELEV: $0'-0"$

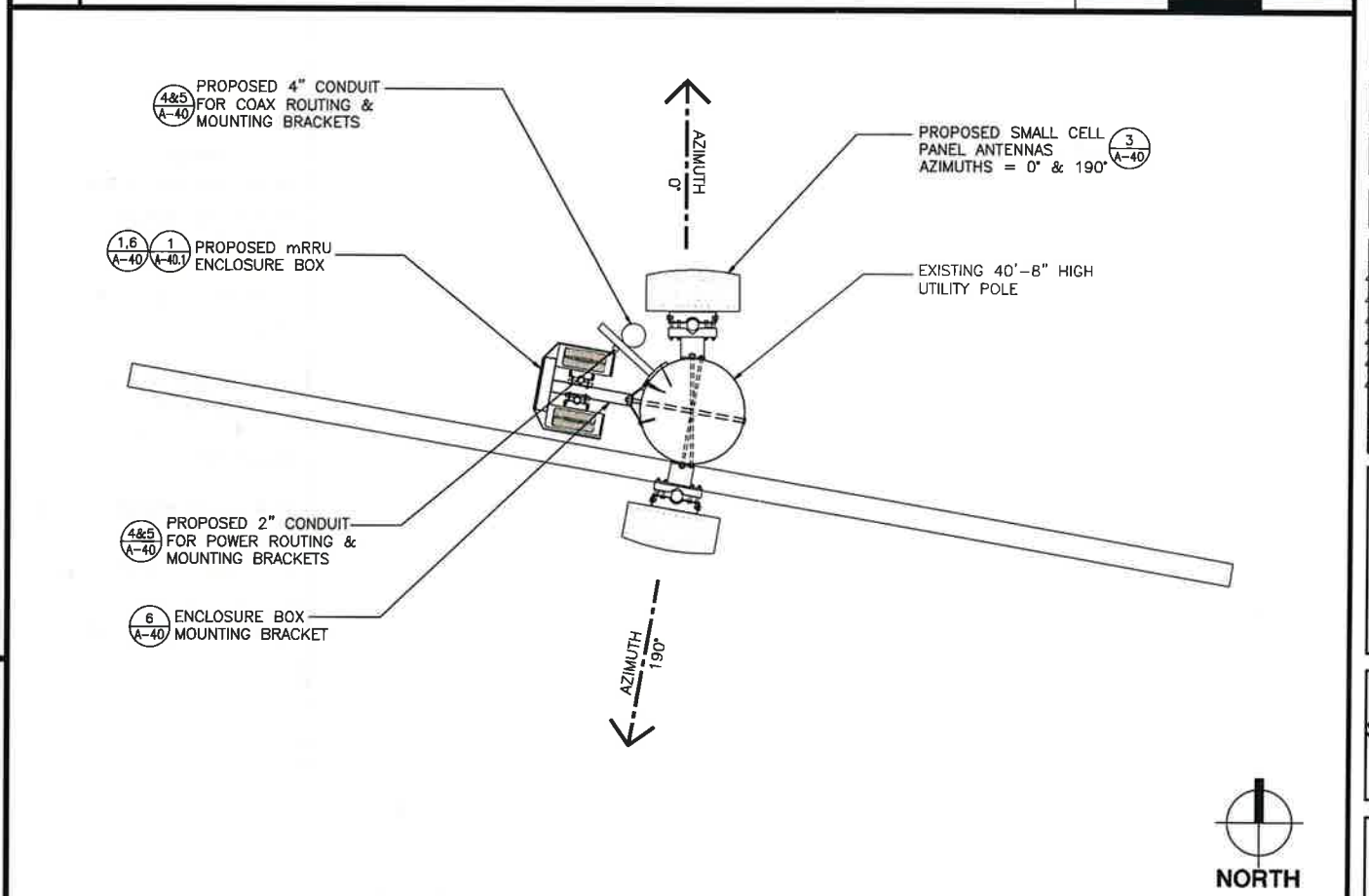
NODE #7
POLE ID: 220513/167109

1 SOUTH ELEVATION

SCALE: $1/4" = 1'-0"$ (22x34), $1/8" = 1'-0"$ (11x17)

2 ENLARGED SITE PLAN

SCALE: $1" = 10'-0"$ (22x34), $1" = 20'-0"$ (11x17)



3 ANTENNA PLAN

SCALE: $3/4" = 10'-0"$ (22x34), $3/8" = 20'-0"$ (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-9851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

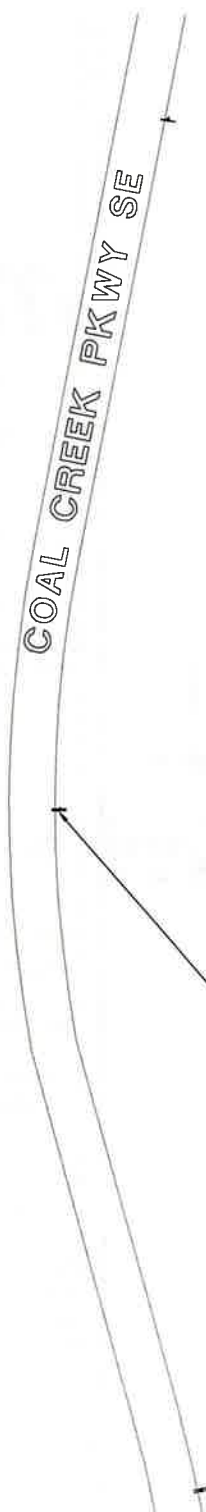
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3	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	5/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
A	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 7 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-6.1

PROJECT NUMBER



NODE #8
POLE ID: 220430/167195



- (A) Antenna (x2)
ANTEL HTXCWW4513Fx0
24.1" H x 16" W x 7.1" D
11.7 lbs (x2)
- (B) Microlab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SCA	11/21/17	PRELIM PERMIT ISSUE
SCA	3/29/17	PRELIM PERMIT ISSUE
SCA	7/19/17	PRELIM PERMIT ISSUE
SCA	9/14/16	PRELIM PERMIT ISSUE
SCA	6/17/16	PRELIM PERMIT ISSUE
SCA	5/13/16	PRELIM PERMIT ISSUE
SCA	3/30/16	PRELIM PERMIT ISSUE
SCA	3/22/16	PRELIM PERMIT ISSUE

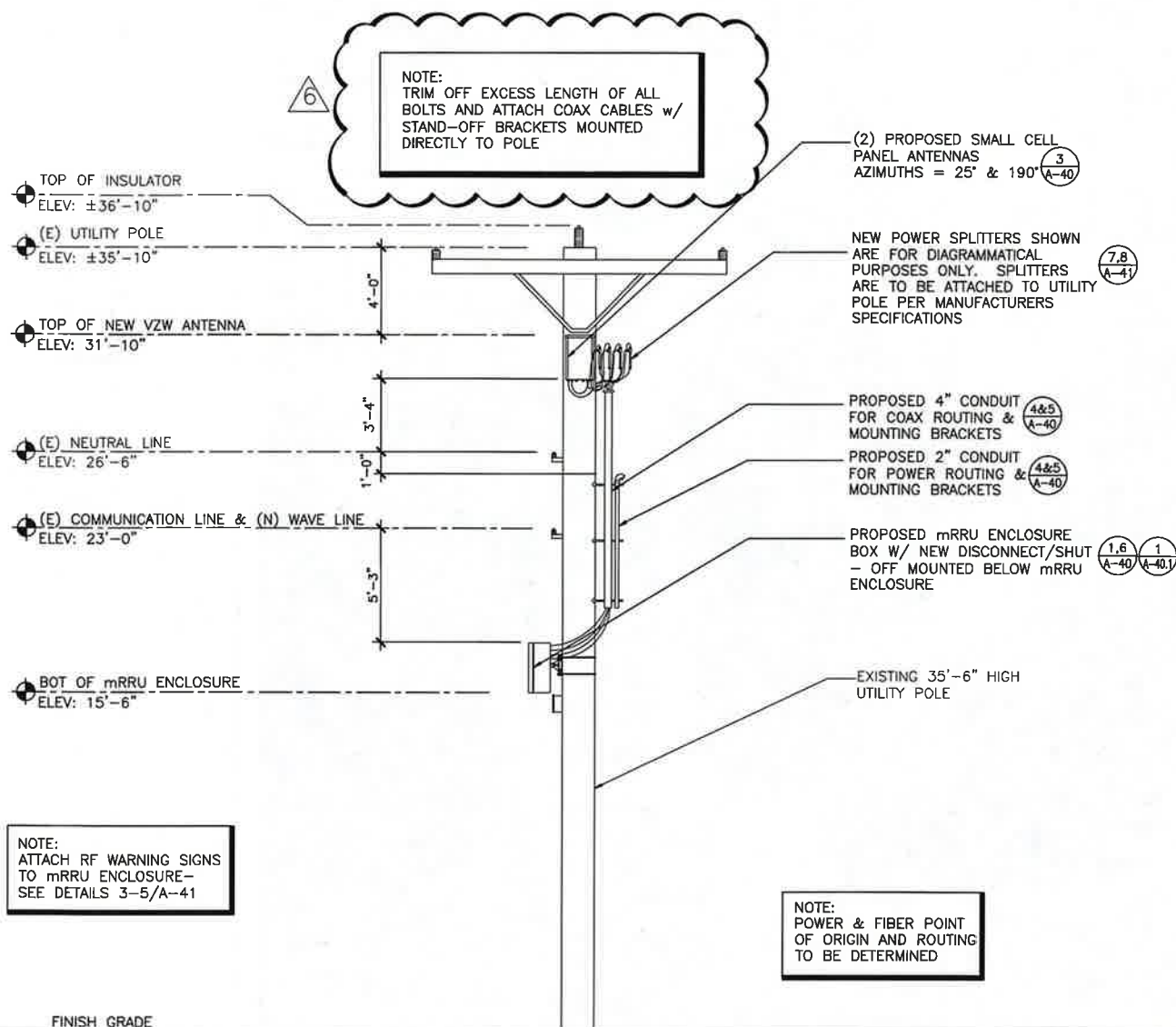
SHEET NAME

NODE 8
PHOTO SIM

SHEET NUMBER

A-7.0

PROJECT NUMBER



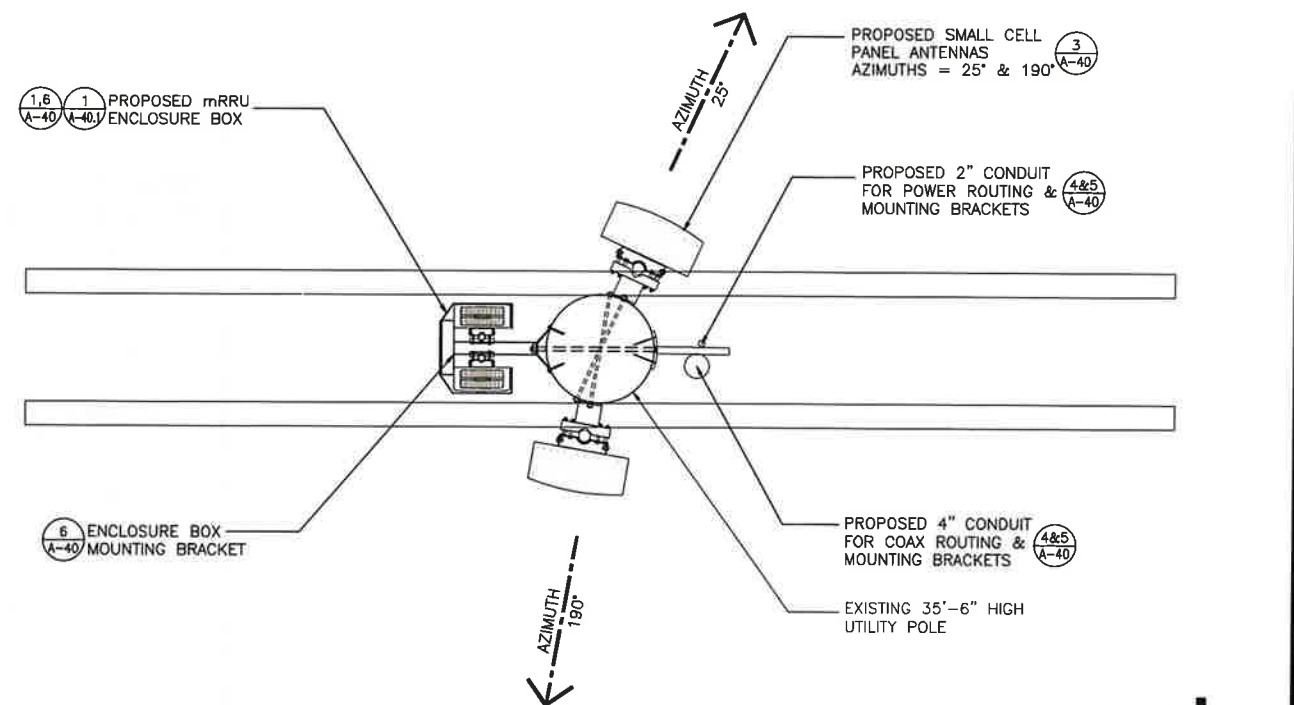
NODE #8
POLE ID: 220430/167195

SOUTH ELEVATION

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

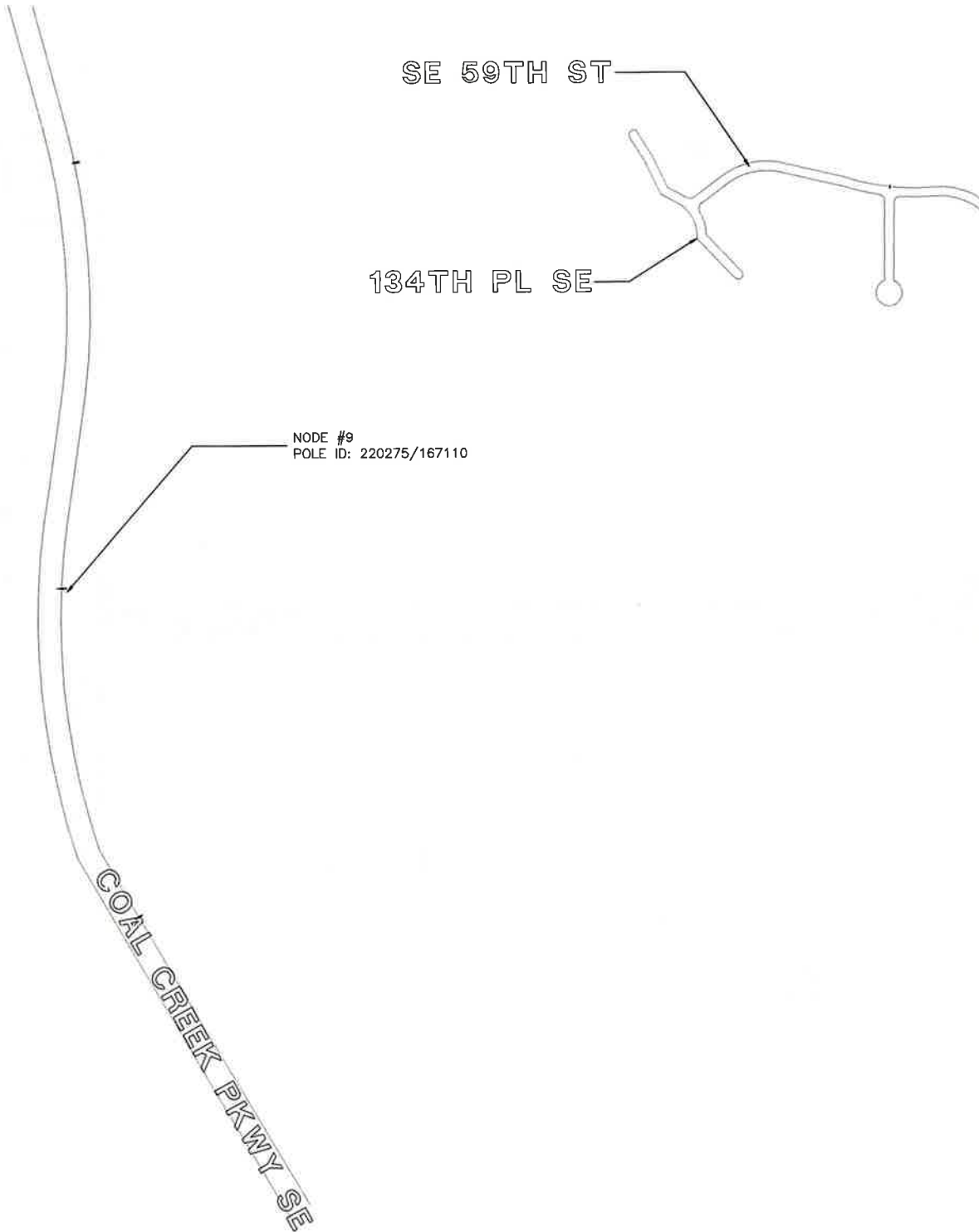
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GA	11/21/17	PRELIM PERMIT ISSUE
GA	8/29/17	PRELIM PERMIT ISSUE
GA	7/19/17	PRELIM PERMIT ISSUE
GA	9/14/16	PRELIM PERMIT ISSUE
GA	5/17/16	PRELIM PERMIT ISSUE
GA	5/13/16	PRELIM PERMIT ISSUE
GA	3/30/16	PRELIM PERMIT ISSUE
GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 8 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-7.1

PROJECT NUMBER



- (A) Antenna (x2)
ANTEL HTXCWW4613Fx0
24.1' H x 16" W x 7.1" D
11.7 lbs (x2)
- (B) Microlab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



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LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SGA	11/21/17	PRELIM PERMIT ISSUE
SGA	3/29/17	PRELIM PERMIT ISSUE
AGA	7/19/17	PRELIM PERMIT ISSUE
SGA	9/14/16	PRELIM PERMIT ISSUE
AGA	5/17/16	PRELIM PERMIT ISSUE
1GA	5/13/16	PRELIM PERMIT ISSUE
0GA	3/30/16	PRELIM PERMIT ISSUE
AGA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

NODE 9
PHOTO SIM

SHEET NUMBER

A-8.0

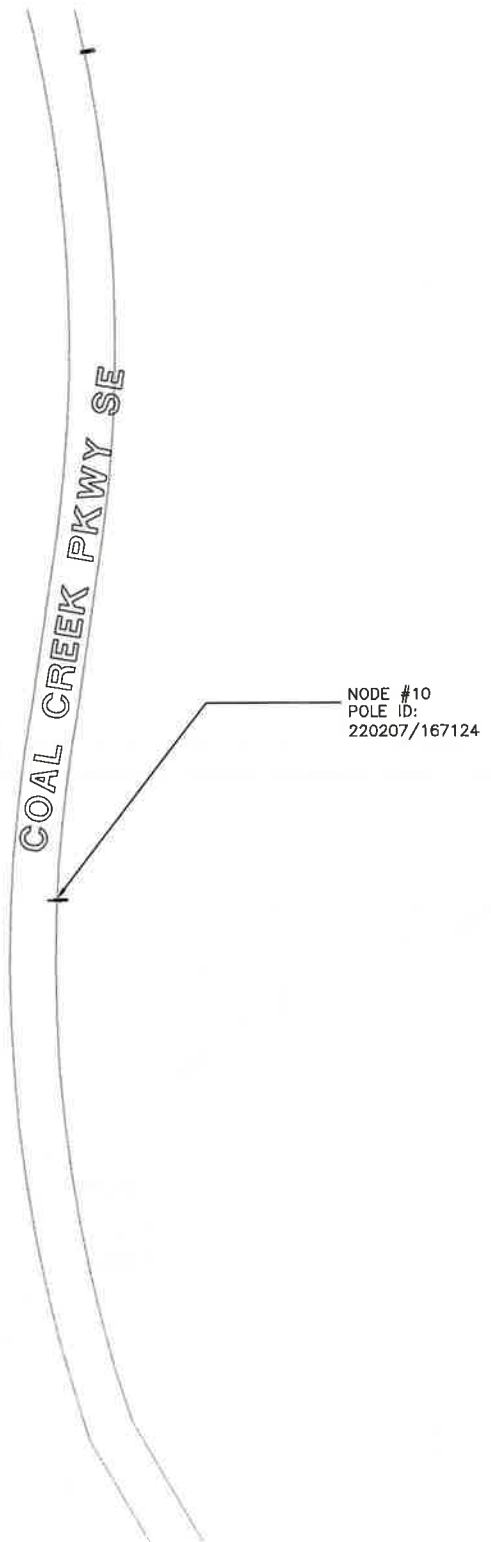
PROJECT NUMBER

--



SOUTH ELEVATION
SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)





1 NODE 10 VICINITY MAP
NOT TO SCALE

- (A) Antenna (x2)
ANTEL HTXGWN4513F x0
24.1" H x 18" W x 7.1" D
11.7 lbs (x2)
- (B) Microlab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
26" H x 22" W x 12" D
Weight TBD
- (D) Proposed FSE power draw
- (E) Proposed Wave Conduit



2 NODE 10 PHOTO SIM
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA


CAMP+ ASSOCIATES

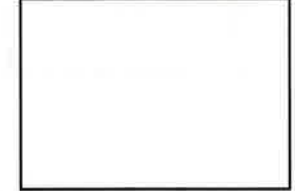
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
3	GA	11/21/17	PRELIM PERMIT ISSUE
3	GA	8/29/17	PRELIM PERMIT ISSUE
2	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	5/17/16	PRELIM PERMIT ISSUE
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0	GA	3/30/16	PRELIM PERMIT ISSUE
1	GA	3/22/16	PRELIM PERMIT ISSUE



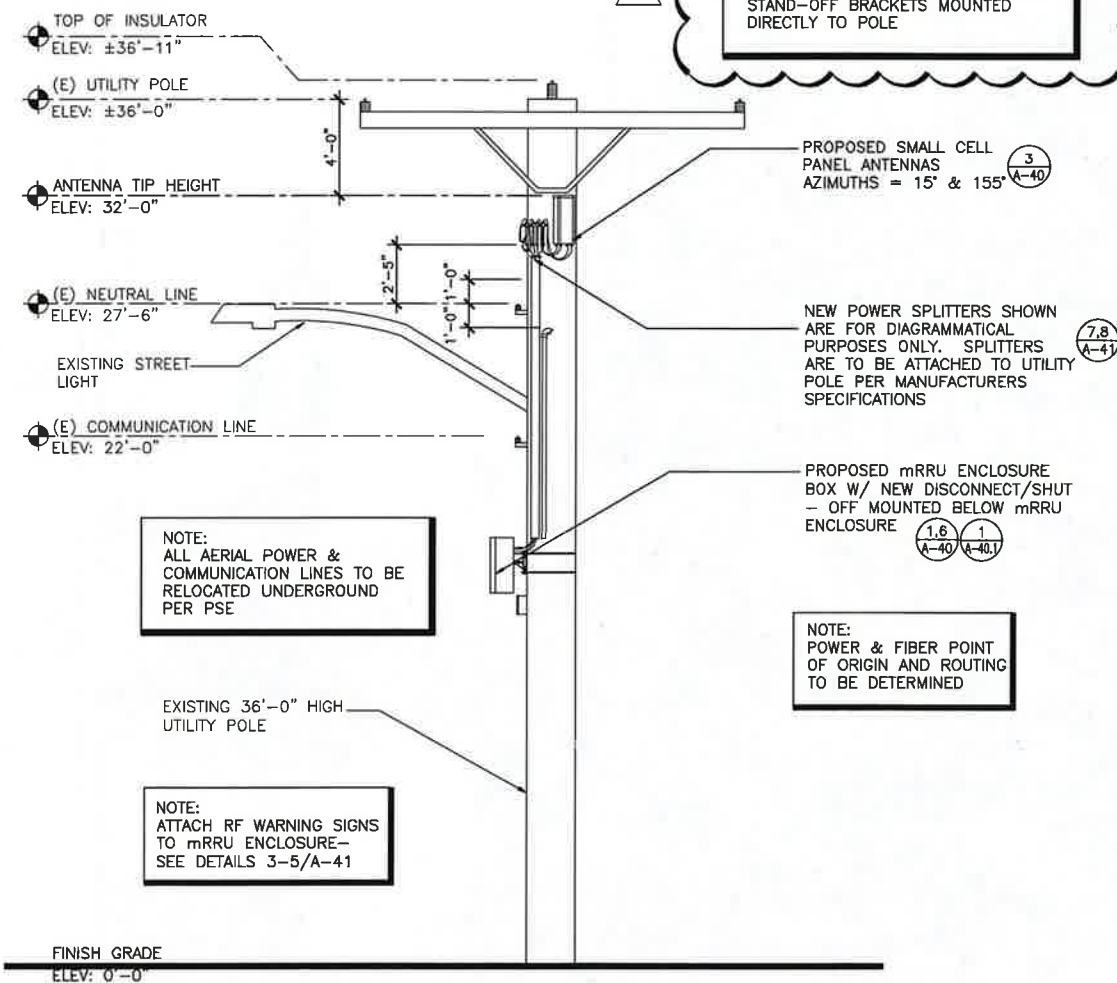
SHEET NAME

NODE 10
PHOTO SIM

SHEET NUMBER

A-9.0

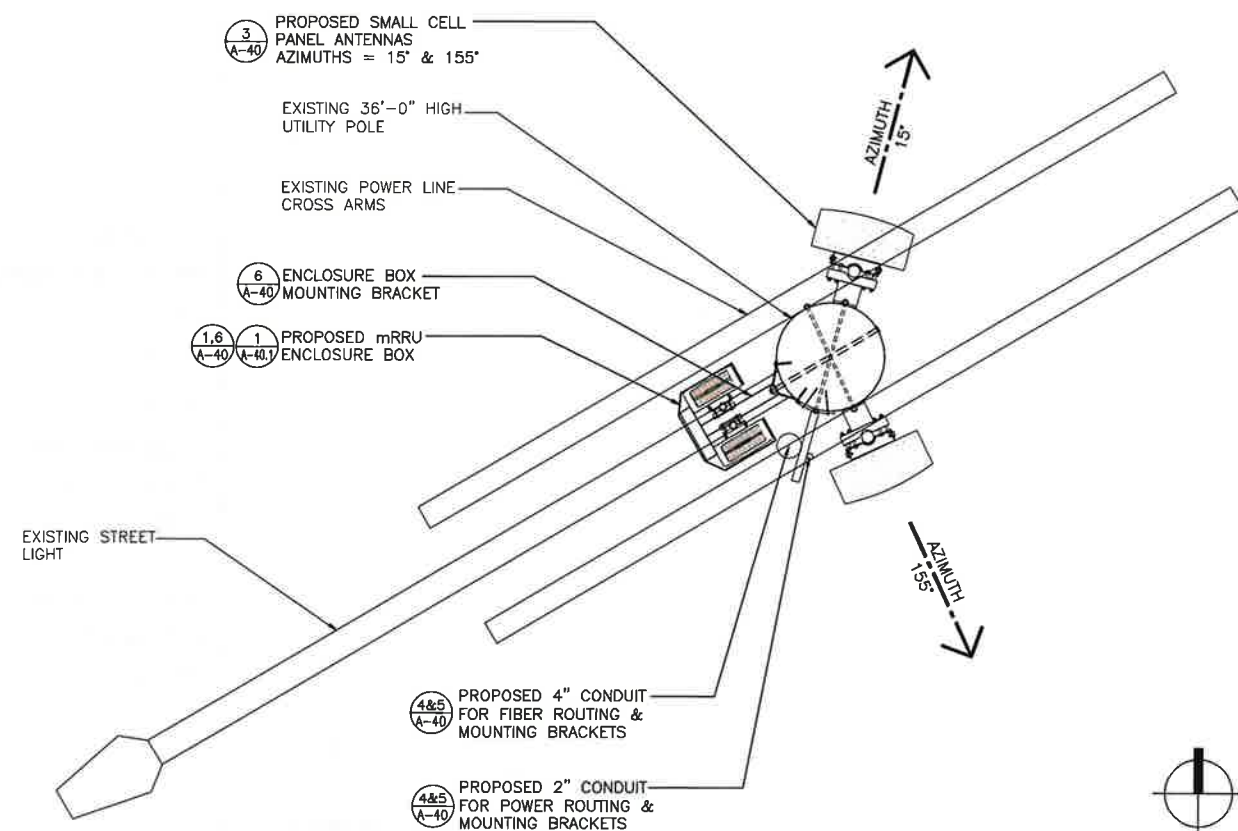
PROJECT NUMBER



NODE #10
POLE ID: 220207/167124

2 ENLARGED SITE PLAN

SCALE: $1" = 10'-0"$ (22x34), $1" = 20'-0"$ (11x17)



3 ANTENNA PLAN

SCALE: $3/4" = 10'-0"$ (22x34), $3/8" = 20'-0"$ (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

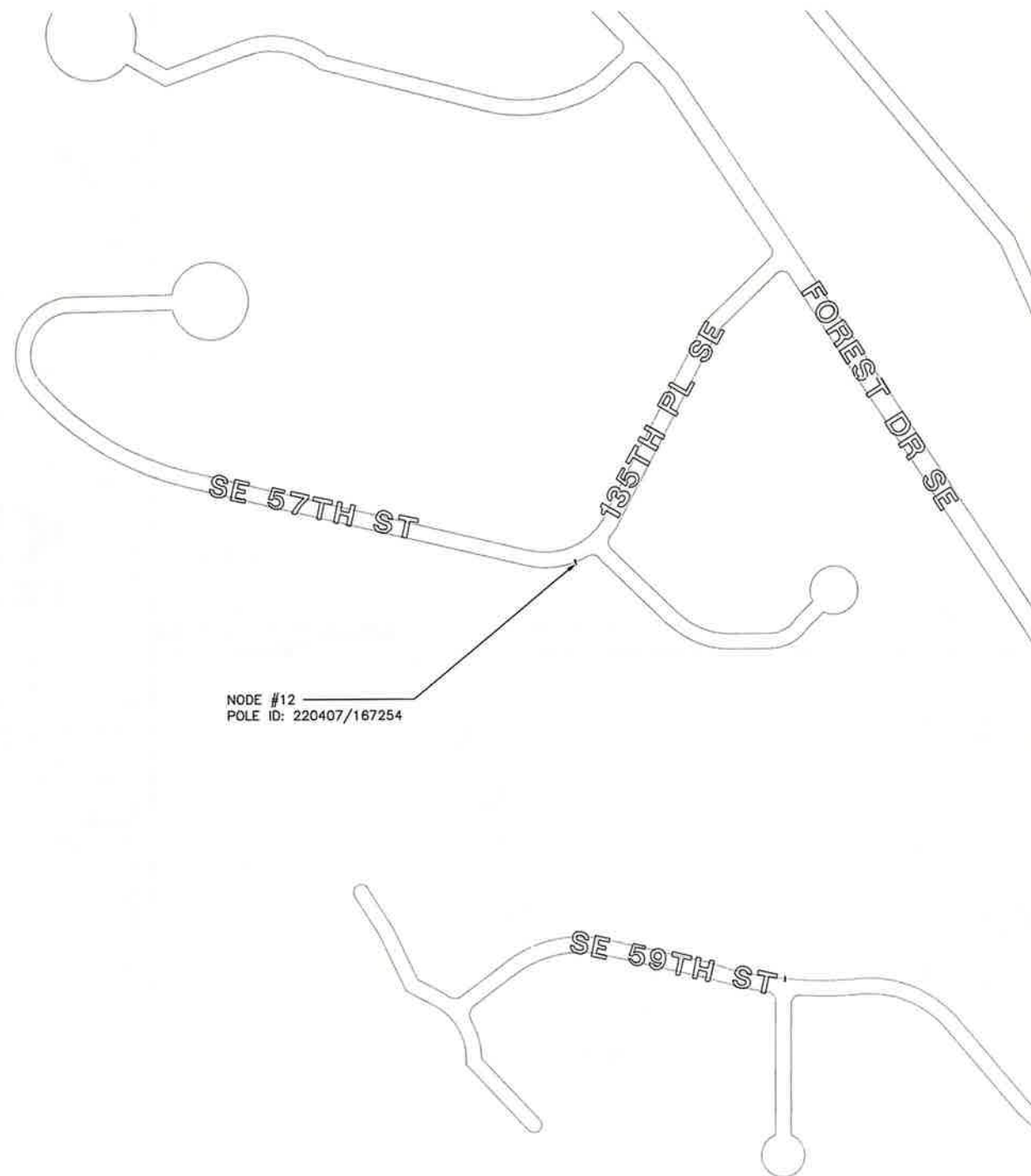
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8/11/17	PRELIM PERMIT ISSUE
8/29/17	PRELIM PERMIT ISSUE
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5/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 10 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-9.1

PROJECT NUMBER



NODE #12
POLE ID: 220407/167254



- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.89" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS/22/18	PRELIM PERMIT ISSUE
3	GA/11/21/17	PRELIM PERMIT ISSUE
4	GA/3/29/17	PRELIM PERMIT ISSUE
4	GA/7/19/17	PRELIM PERMIT ISSUE
3	GA/9/14/16	PRELIM PERMIT ISSUE
2	GA/5/17/16	PRELIM PERMIT ISSUE
1	GA/5/13/16	PRELIM PERMIT ISSUE
0	GA/3/30/16	PRELIM PERMIT ISSUE
0	GA/3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

NODE 12
PHOTO SIM

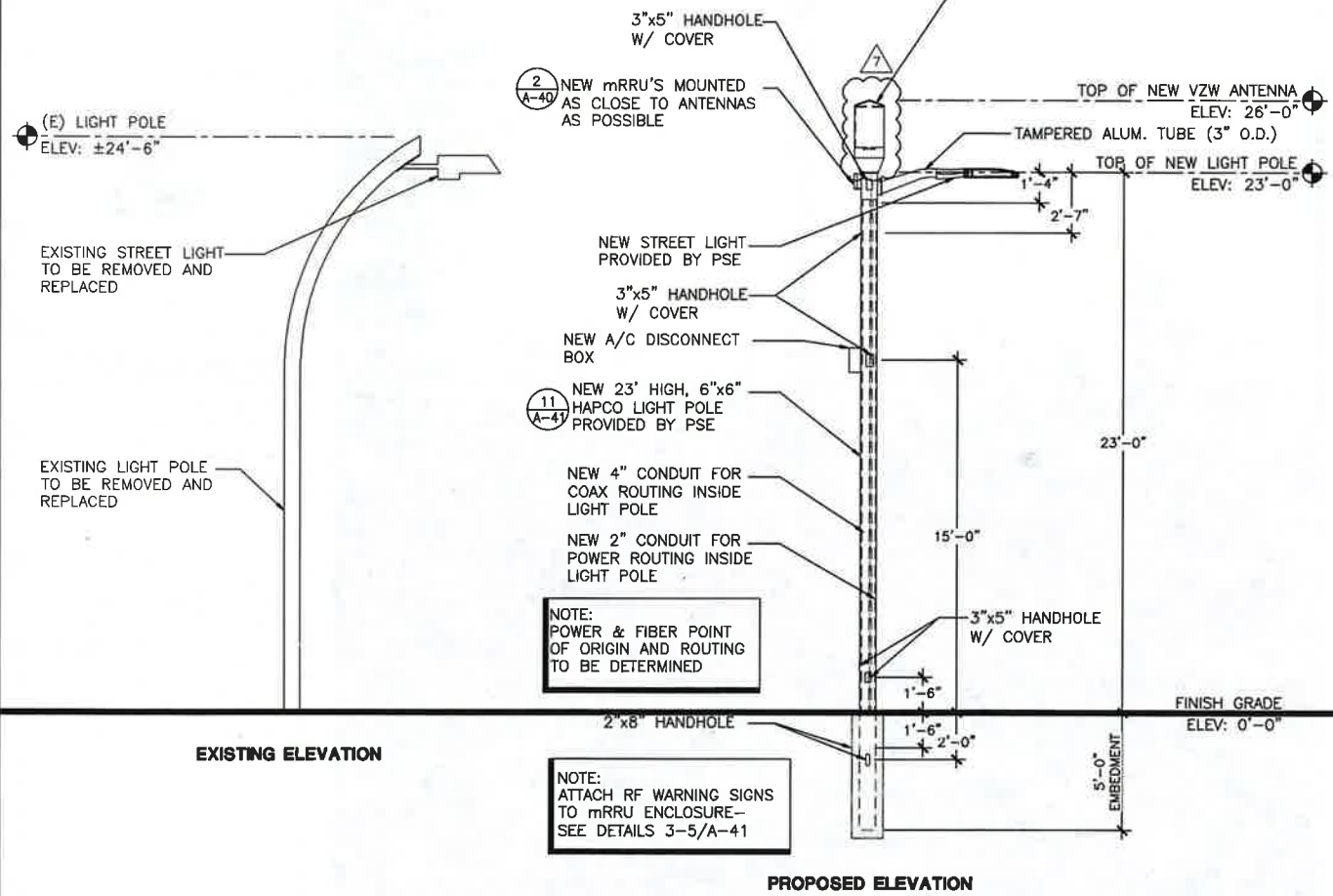
SHEET NUMBER

A-10.0

PROJECT NUMBER

NOTE:
WAVE BROADBAND TO INSTALL
RESIDENTIAL FIBER BOX WITHIN
5'-0" OF STREET LIGHT FOR
SMALL CELL FIBER SERVICE

PROPOSED SMALL CELL
CYLINDRICAL ANTENNA
AZIMUTHS = 160°



NOTE:
ATTACH RF WARNING SIGNS
TO mRRU ENCLOSURE-
SEE DETAILS 3-5/A-41

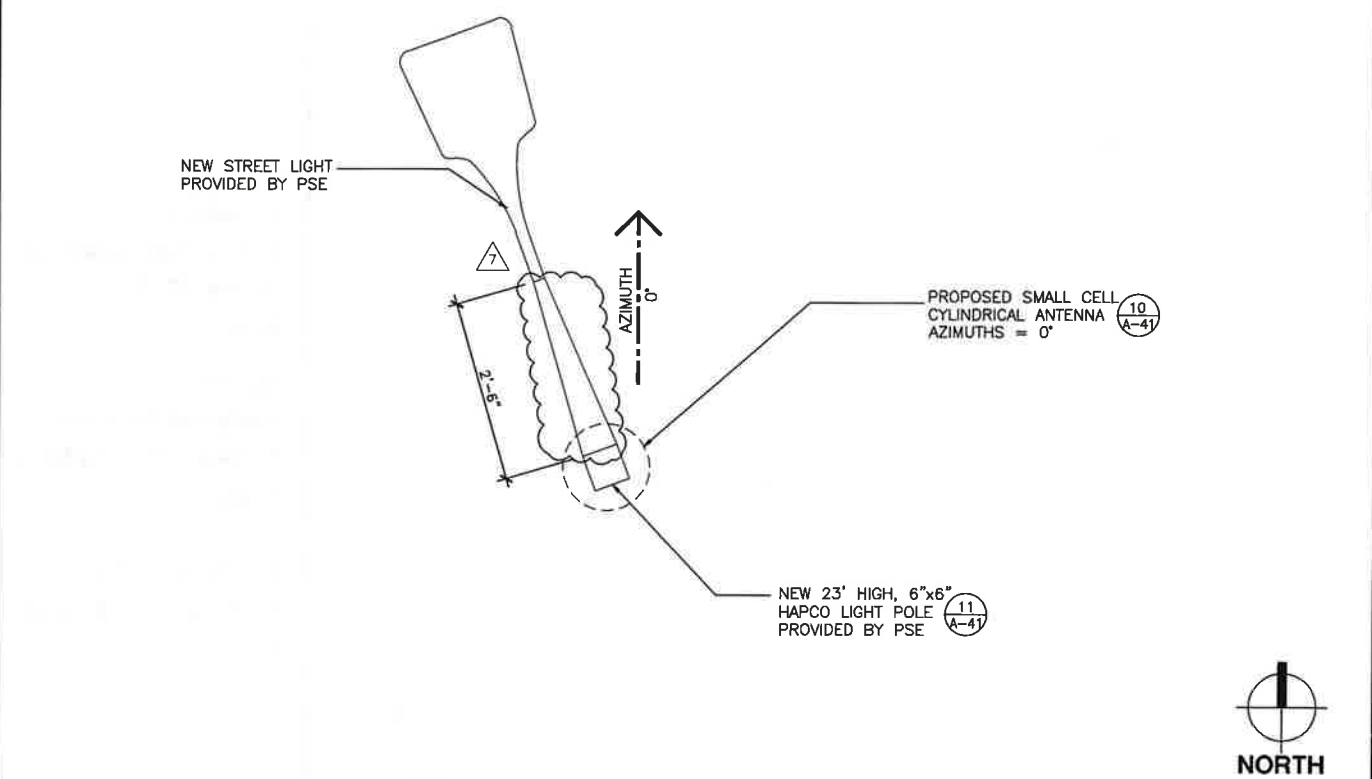
NOTE:
POWER & FIBER POINT
OF ORIGIN AND ROUTING
TO BE DETERMINED

WEST ELEVATIONS

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



ANTENNA PLAN

SCALE: 3/4" = 1'-0" (22x34), 3/8" = 1'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

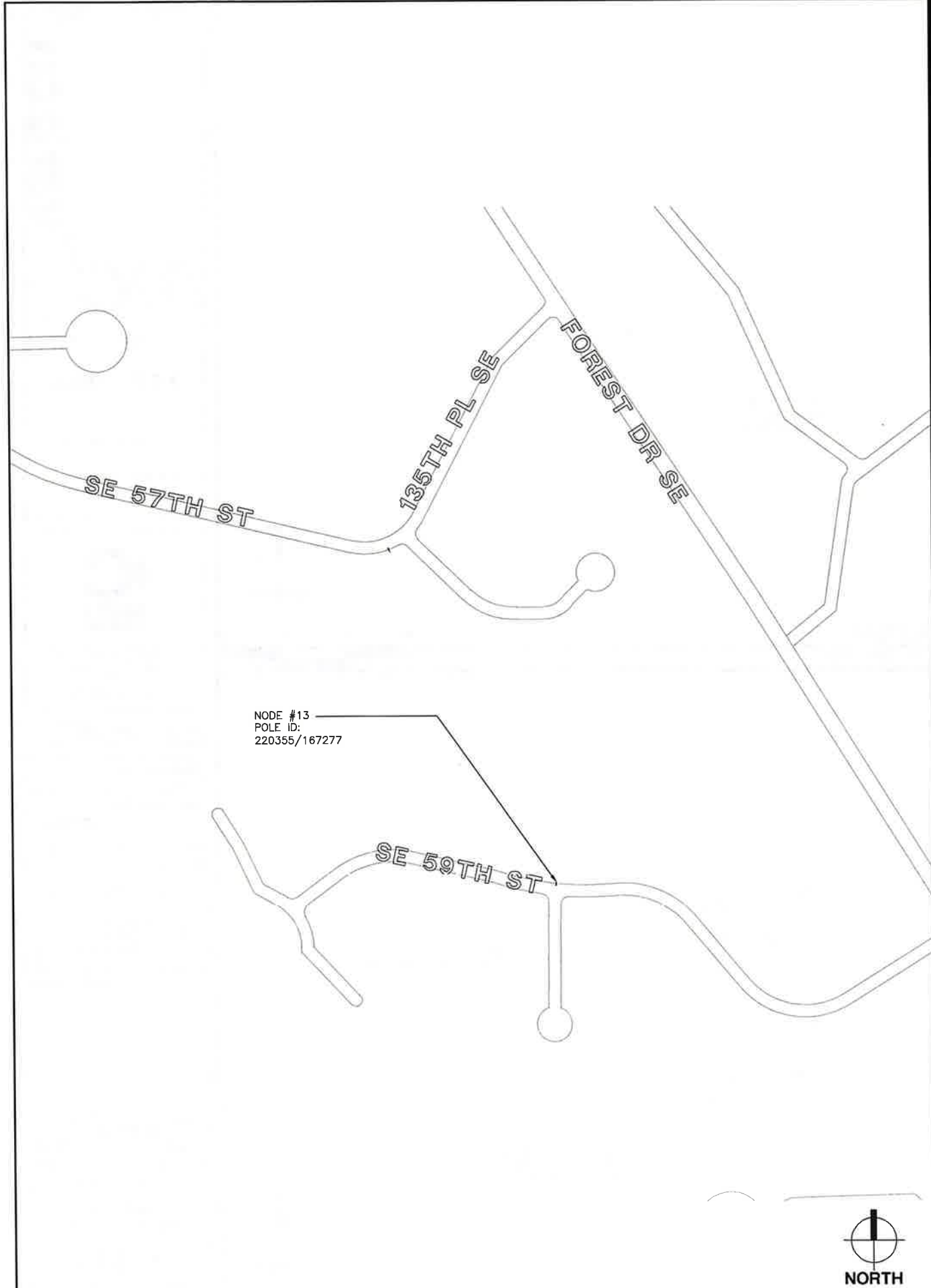
APPROVED BY: EJC

1	GA	3/22/18	PRELIM PERMIT ISSUE
2	GA	11/21/17	PRELIM PERMIT ISSUE
3	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
5	GA	9/14/16	PRELIM PERMIT ISSUE
6	GA	5/17/16	PRELIM PERMIT ISSUE
7	GA	5/13/16	PRELIM PERMIT ISSUE
8	GA	3/30/16	PRELIM PERMIT ISSUE
9	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 12 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-10.1

PROJECT NUMBER
--



NODE #13
POLE ID:
220355/167277

- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
26 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.86" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
1	GA	11/21/17	PRELIM PERMIT ISSUE
1	GA	8/29/17	PRELIM PERMIT ISSUE
2	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
1	GA	3/22/16	PRELIM PERMIT ISSUE



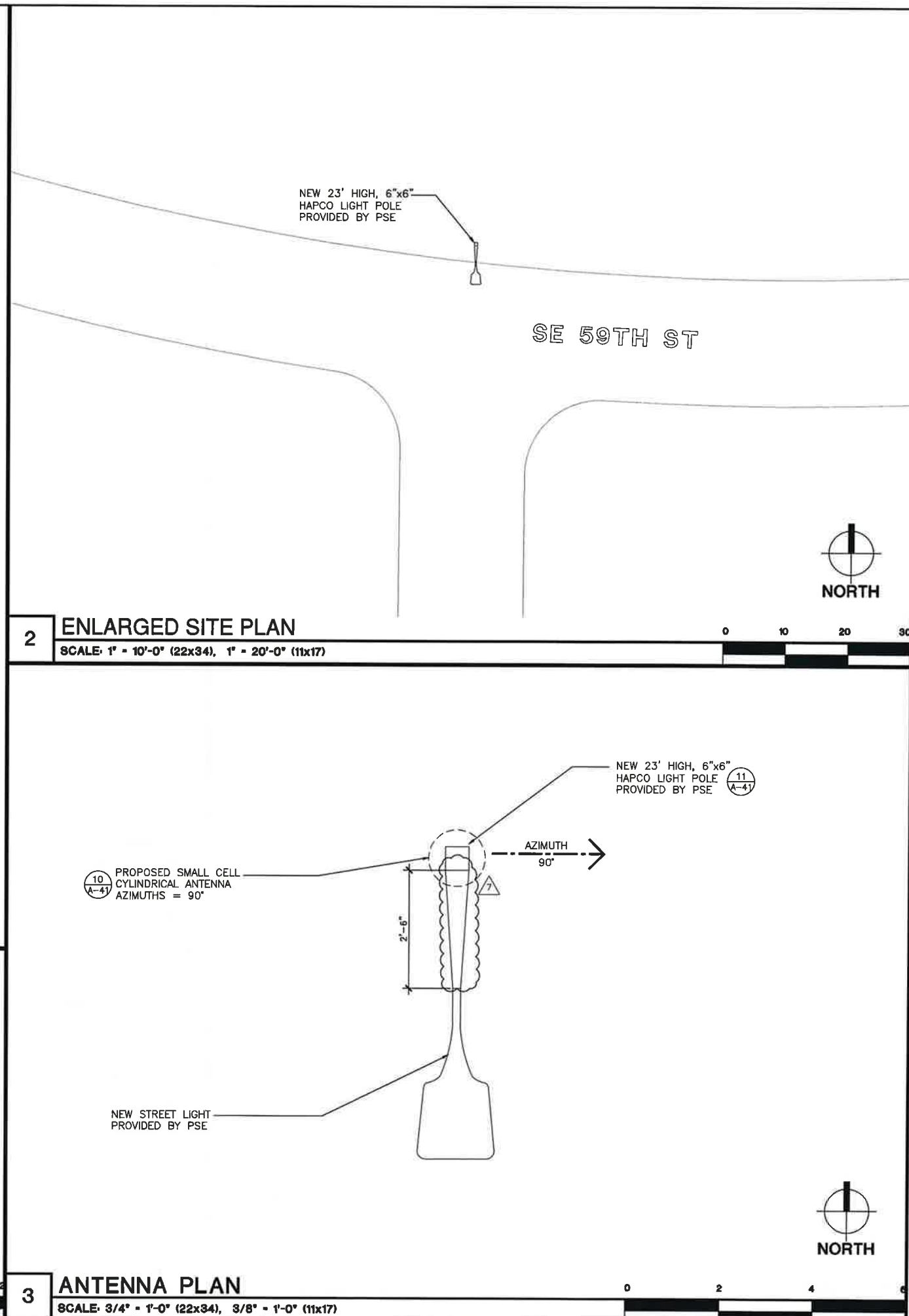
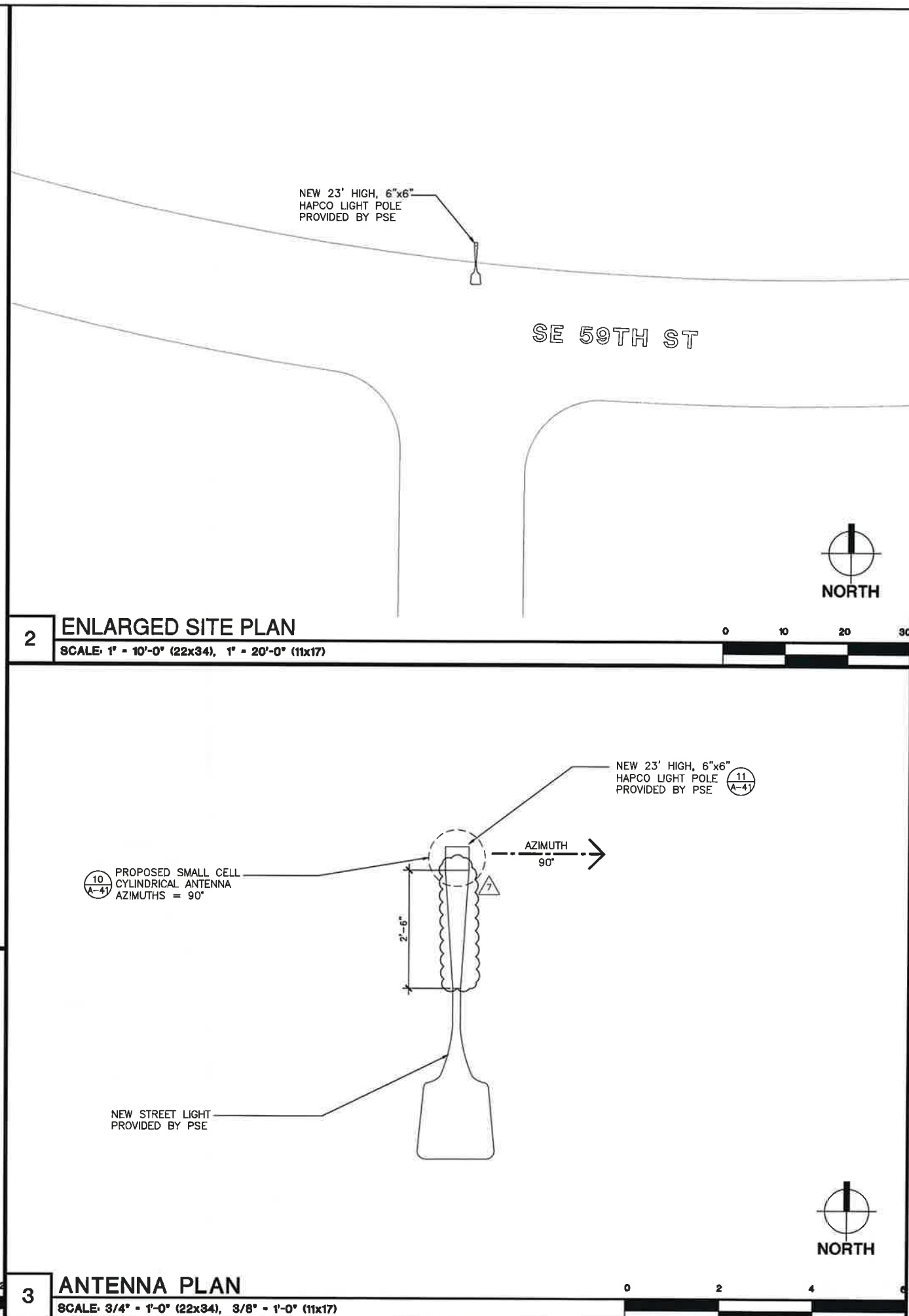
SHEET NAME

NODE 13
PHOTO SIM

SHEET NUMBER

A-11.0

PROJECT NUMBER



SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER:	EJ
------------------	----

PREPARED BY: GA

APPROVED BY: EJ

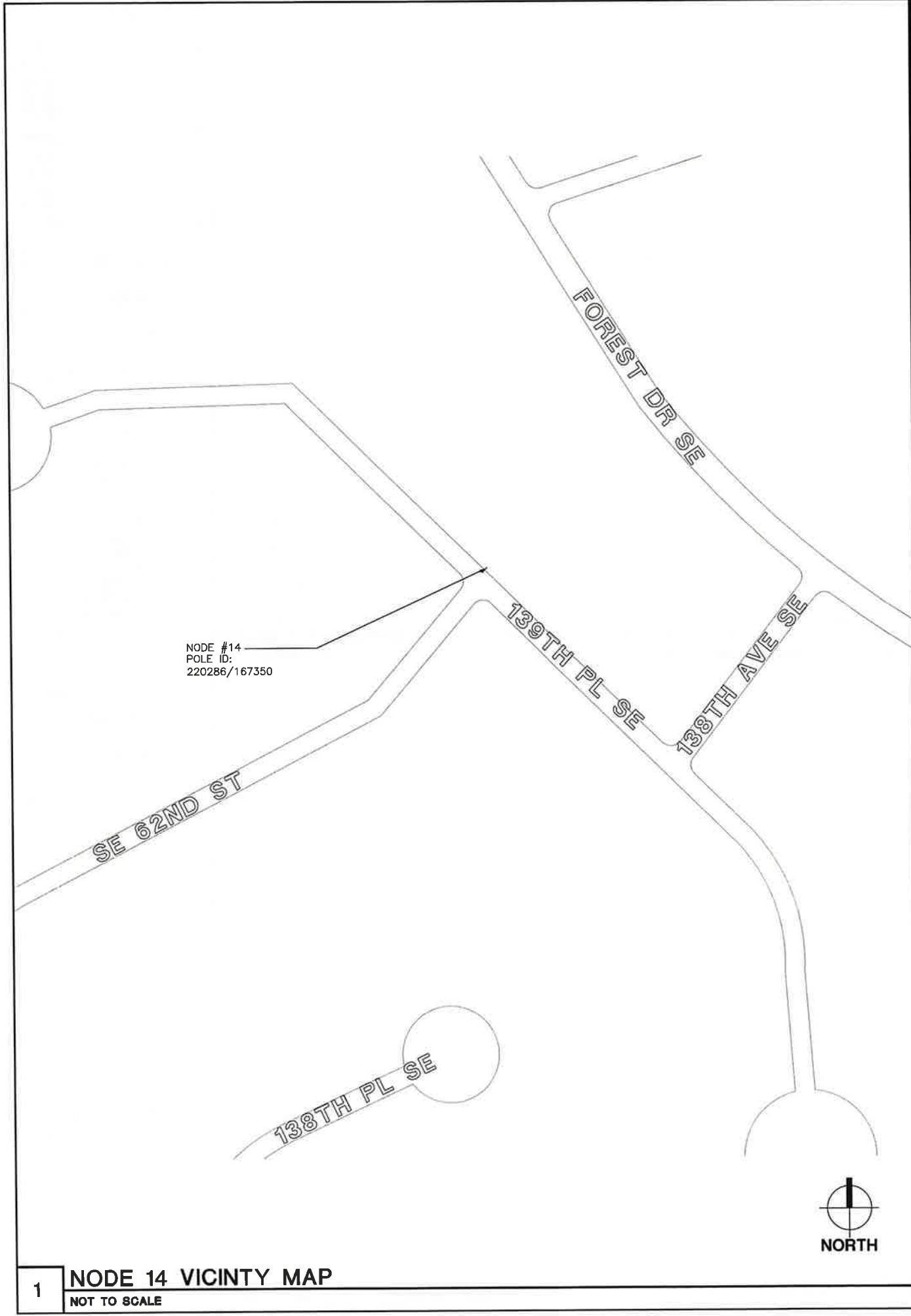
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6	GA	11/21/17	PRELIM PERMIT ISS
5	GA	8/29/17	PRELIM PERMIT ISS
4	GA	7/19/17	PRELIM PERMIT ISS
3	GA	9/14/16	PRELIM PERMIT ISS
2	GA	6/17/16	PRELIM PERMIT ISS
1	GA	5/13/16	PRELIM PERMIT ISS
0	GA	3/30/16	PRELIM PERMIT ISS
	GA	3/22/16	PRELIM PERMIT ISS

SHEET NAME
NODE 13 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-11.1

PROJECT NUMBER



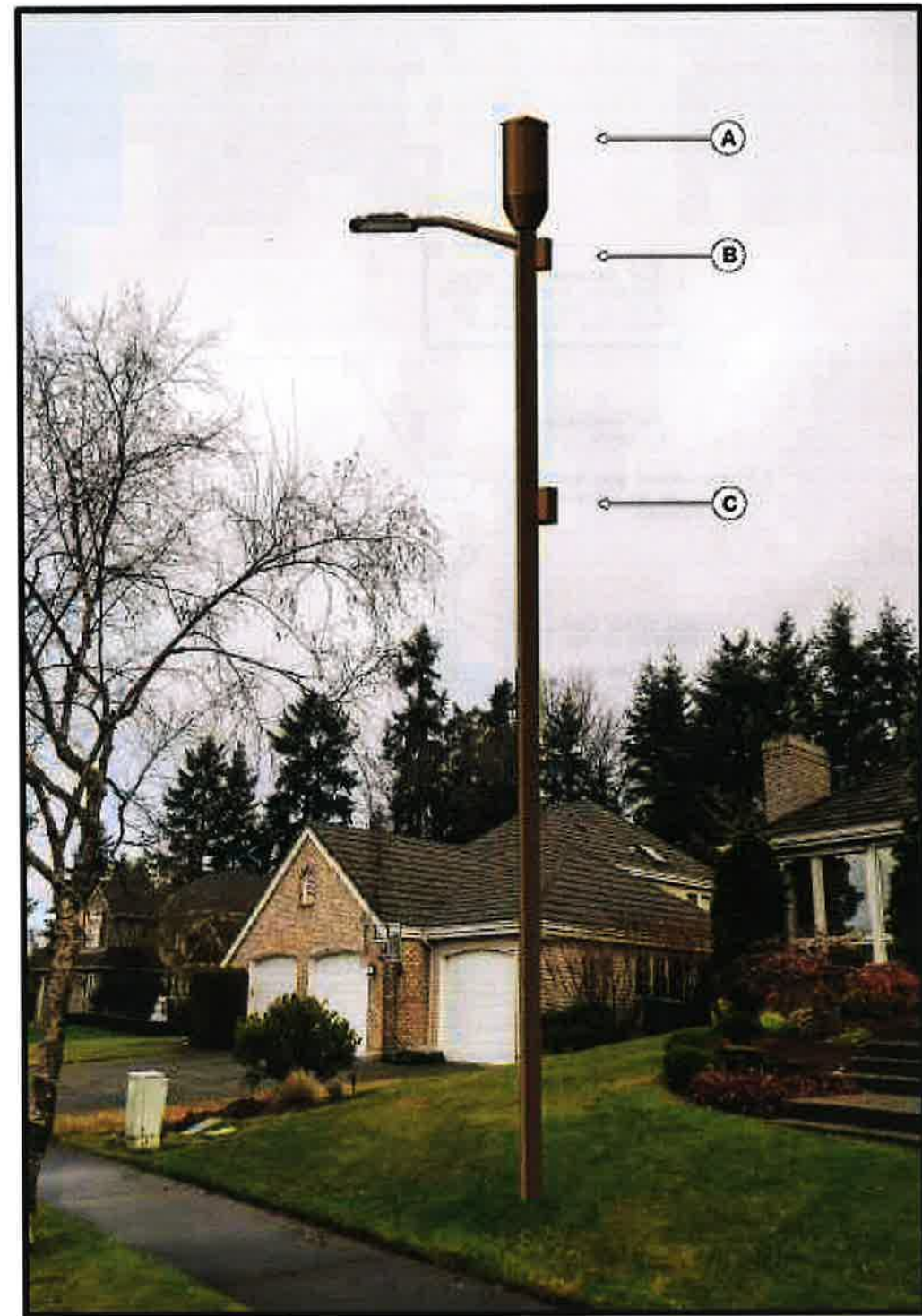
NODE #14
POLE ID:
220286/167350



1 NODE 14 VICINTY MAP
NOT TO SCALE

- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L X 5.25 D
WT. TBD

2 NODE 14 PHOTO SIM
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



CAMP+ ASSOCIATES

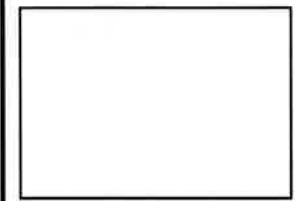
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8636
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SGA	11/21/17	PRELIM PERMIT ISSUE
SGA	8/29/17	PRELIM PERMIT ISSUE
SGA	7/19/17	PRELIM PERMIT ISSUE
SGA	9/14/16	PRELIM PERMIT ISSUE
SGA	6/17/16	PRELIM PERMIT ISSUE
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OGA	3/30/16	PRELIM PERMIT ISSUE
AGA	3/22/16	PRELIM PERMIT ISSUE



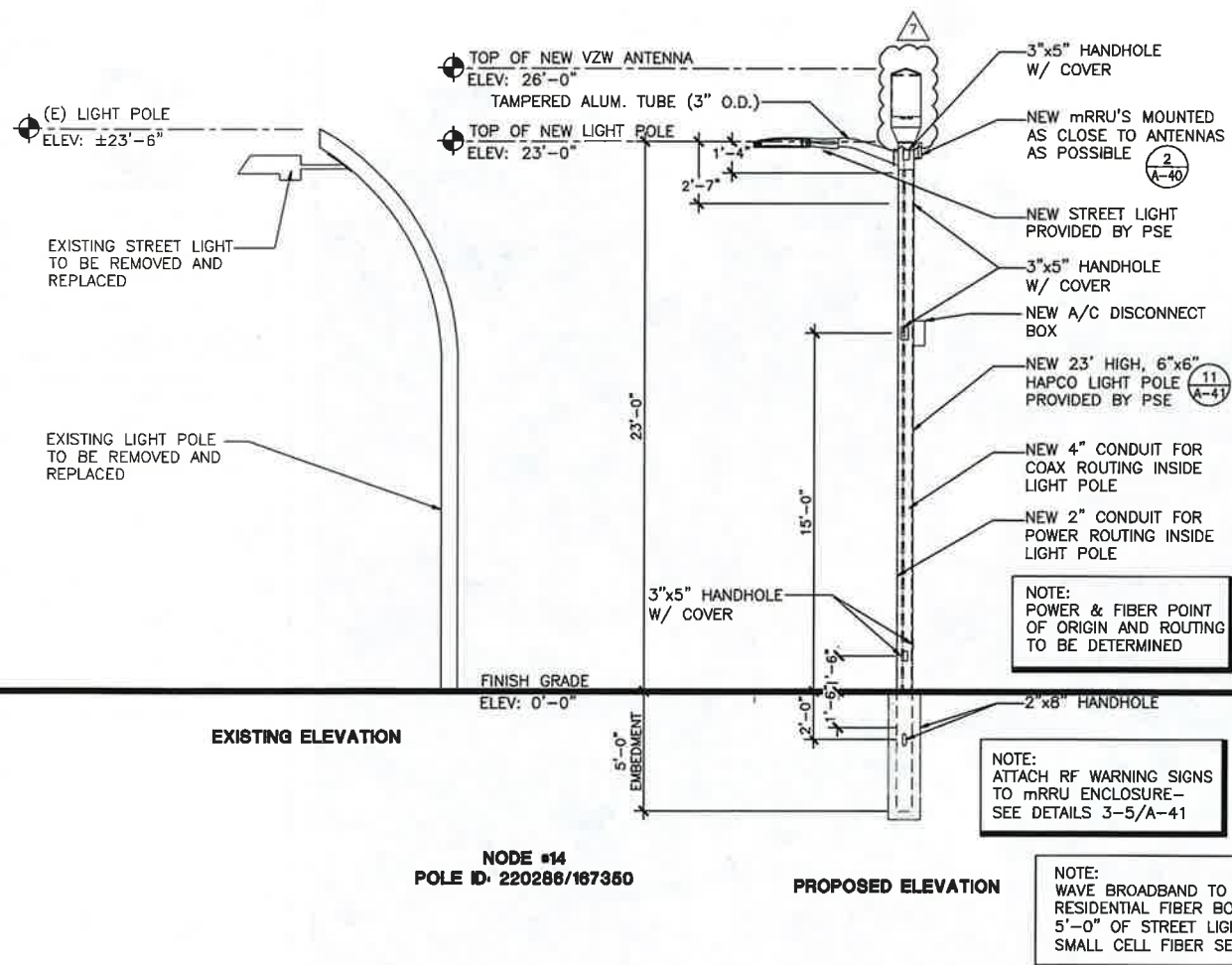
SHEET NAME

NODE 14
PHOTO SIM

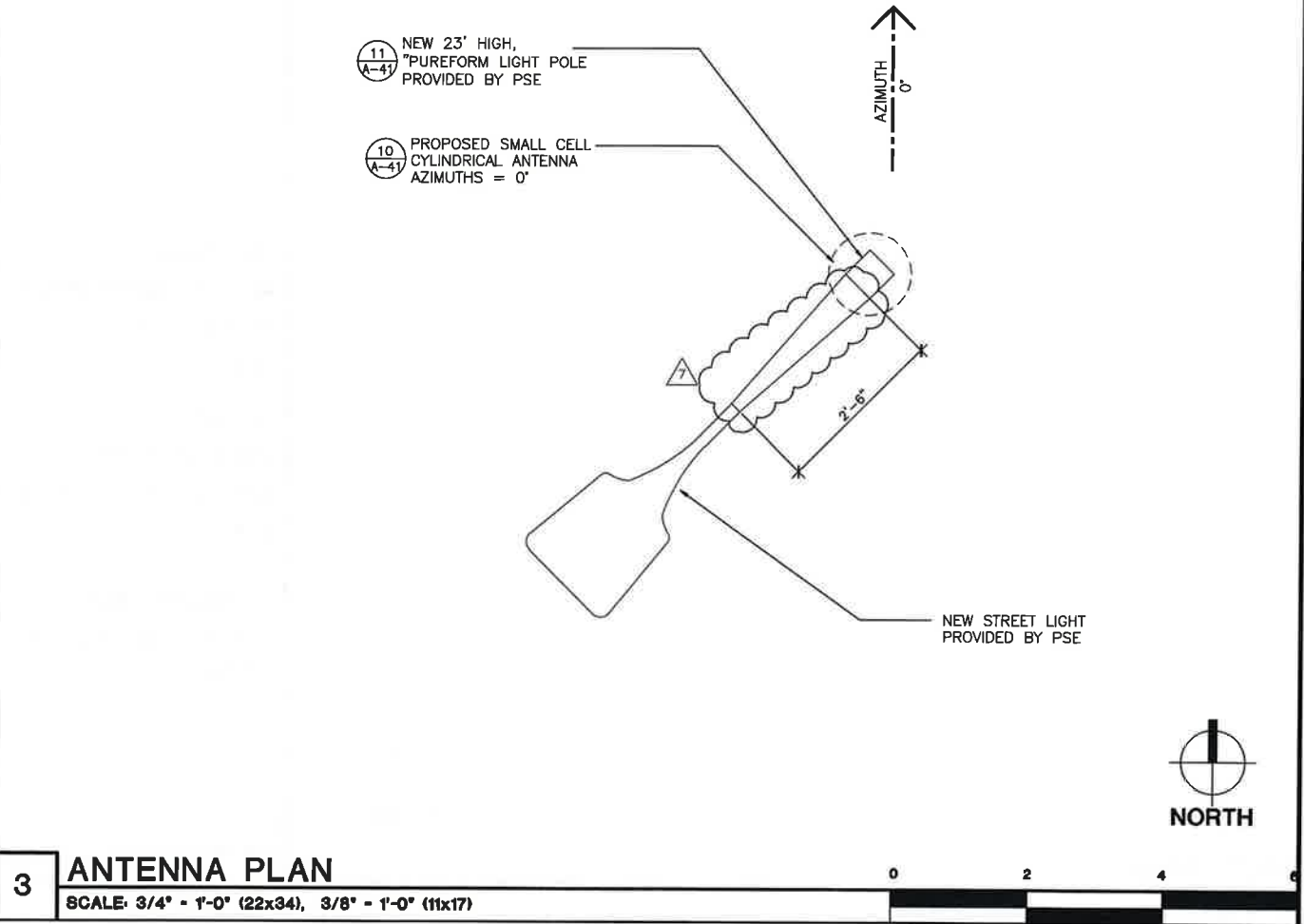
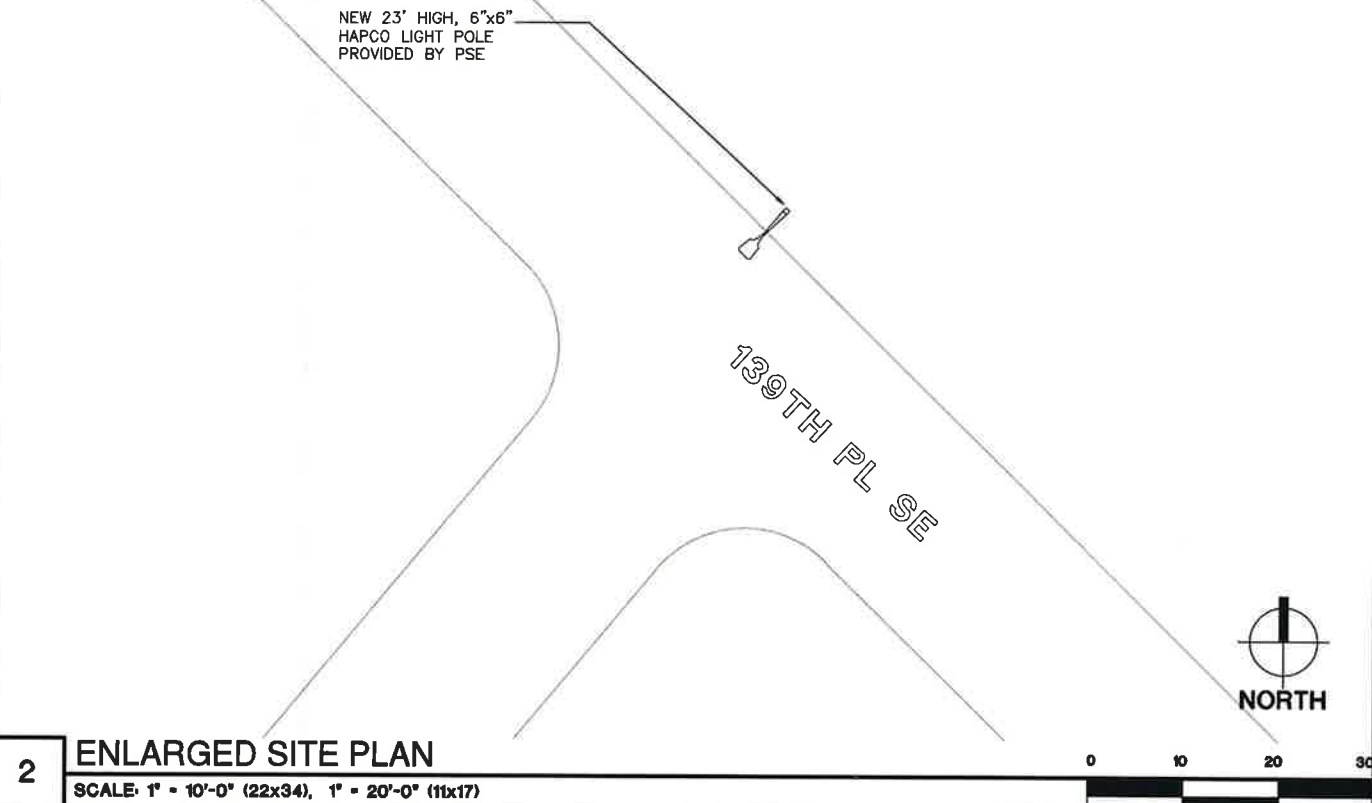
SHEET NUMBER

A-12.0

PROJECT NUMBER



1 SOUTHEAST ELEVATIONS
SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)



3 ANTENNA PLAN
SCALE: 3/4" = 1'-0" (22x34), 3/8" = 1'-0" (11x17)

NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

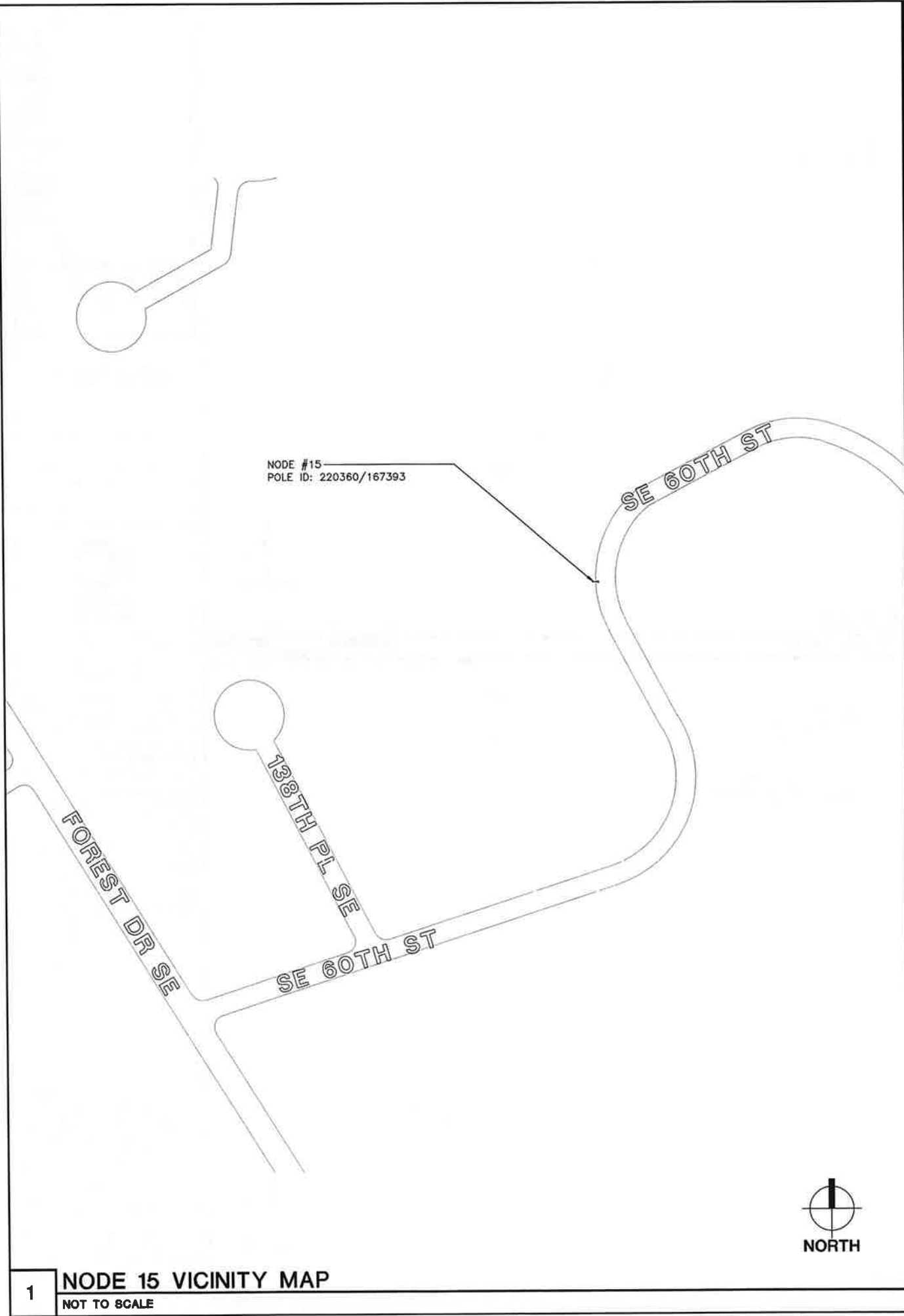
APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
6	GA	11/21/17	PRELIM PERMIT ISSUE
5	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	5/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	5/30/16	PRELIM PERMIT ISSUE
A	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 14 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-12.1

PROJECT NUMBER
--



- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SGA	11/21/17	PRELIM PERMIT ISSUE
SGA	8/29/17	PRELIM PERMIT ISSUE
SGA	7/19/17	PRELIM PERMIT ISSUE
SGA	9/14/16	PRELIM PERMIT ISSUE
SGA	6/17/16	PRELIM PERMIT ISSUE
SGA	5/13/16	PRELIM PERMIT ISSUE
SGA	3/30/16	PRELIM PERMIT ISSUE
SGA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

NODE 15
PHOTO SIM

SHEET NUMBER

A-13.0

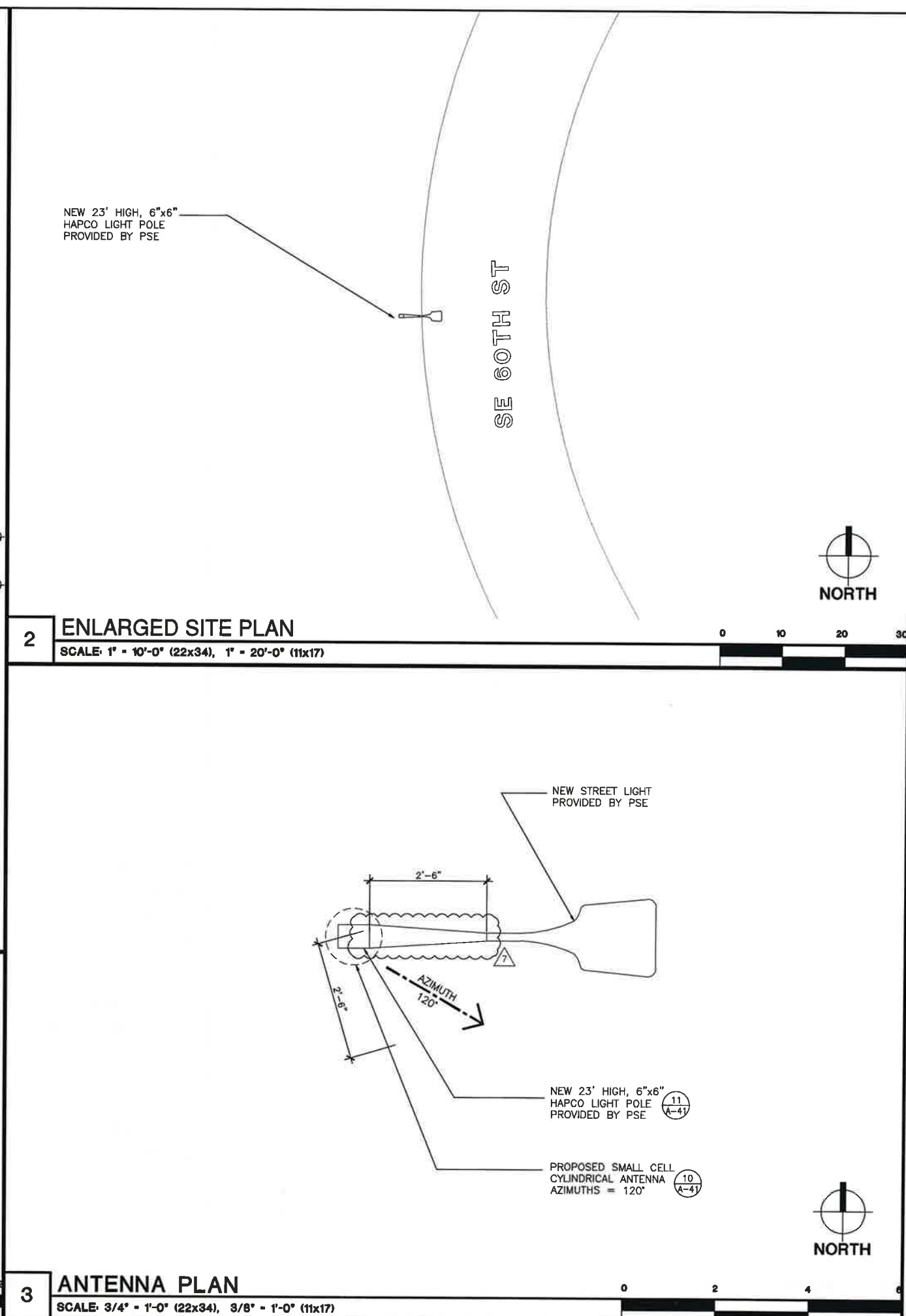
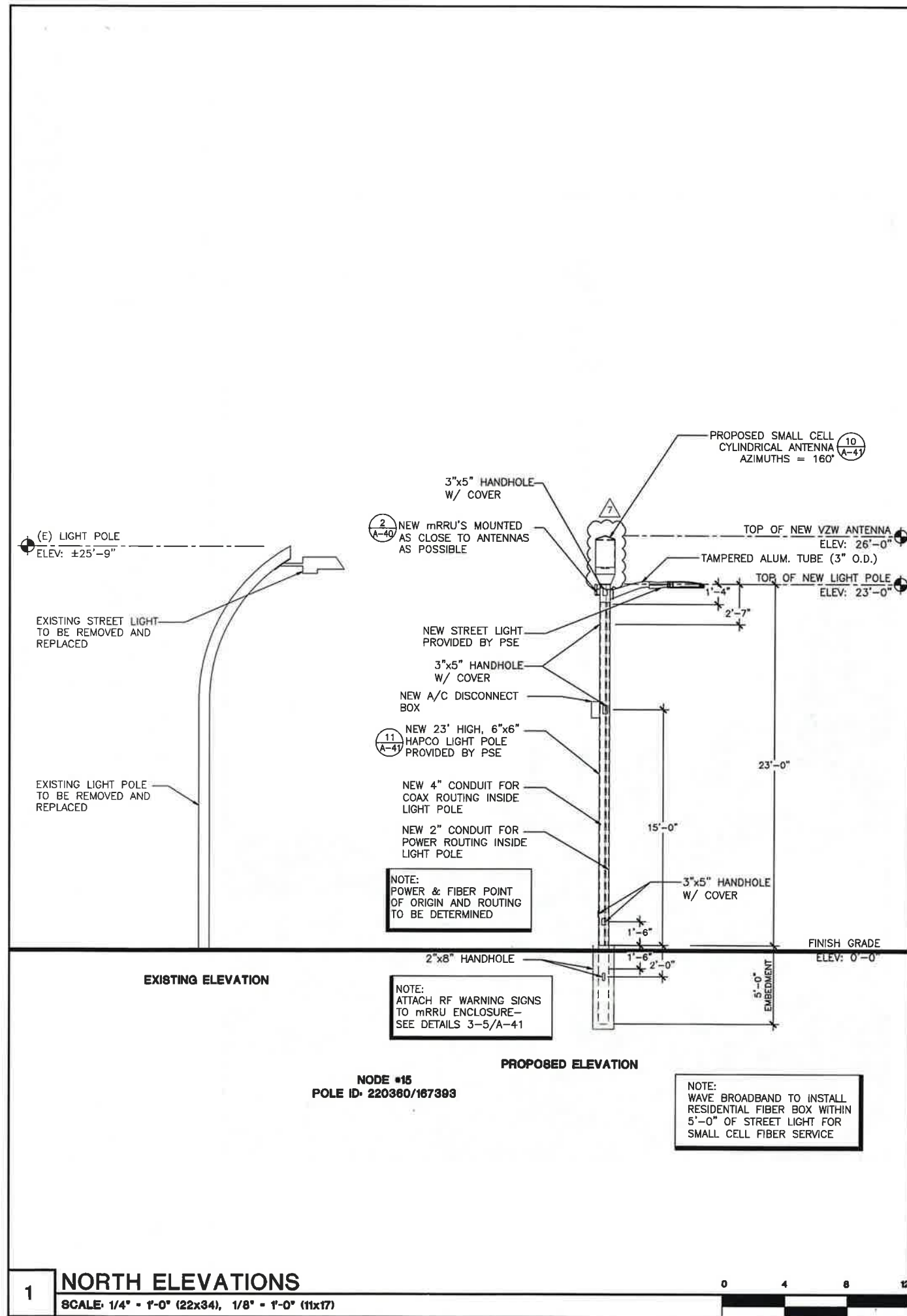
PROJECT NUMBER

1

NODE 15 VICINITY MAP
NOT TO SCALE

2

NODE 15 PHOTO SIM
NOT TO SCALE



verizon

mcd

NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

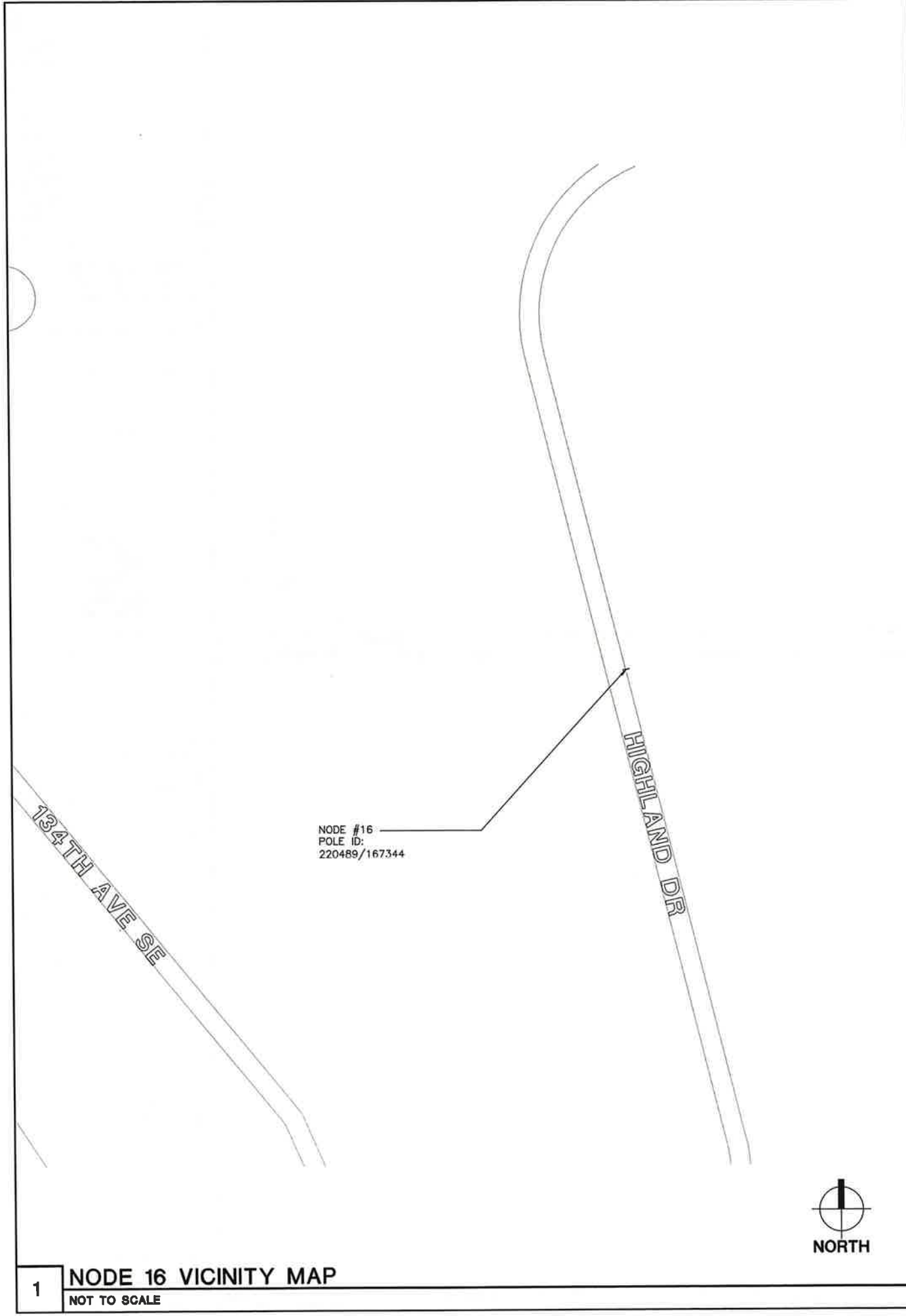
APPROVED BY: EJC

NO.	DATE	DESCRIPTION
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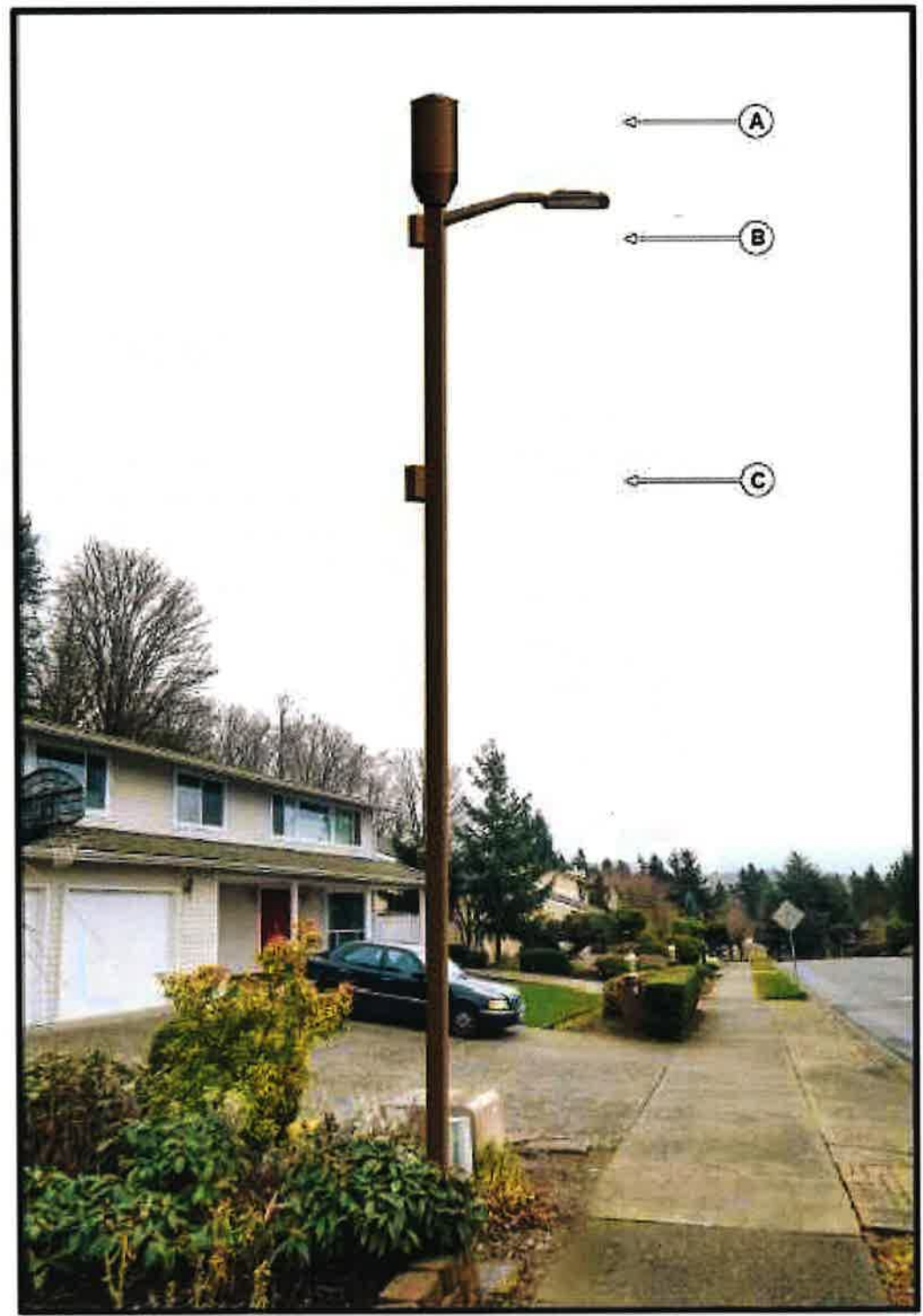
SHEET NAME
NODE 15 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-13.1

PROJECT NUMBER
--



- (A) Antenna
ANTELL CWT360x08Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.60" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
1	GA	11/21/17	PRELIM PERMIT ISSUE
1	GA	8/29/17	PRELIM PERMIT ISSUE
1	GA	7/19/17	PRELIM PERMIT ISSUE
1	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
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1	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

NODE 16
PHOTO SIM

SHEET NUMBER

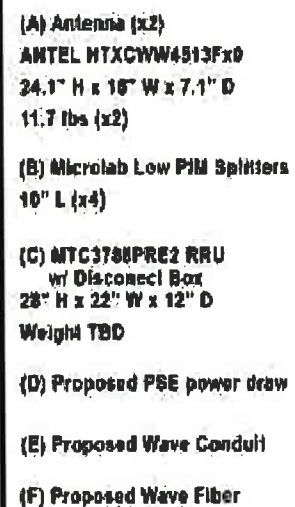
A-14.0

PROJECT NUMBER

--



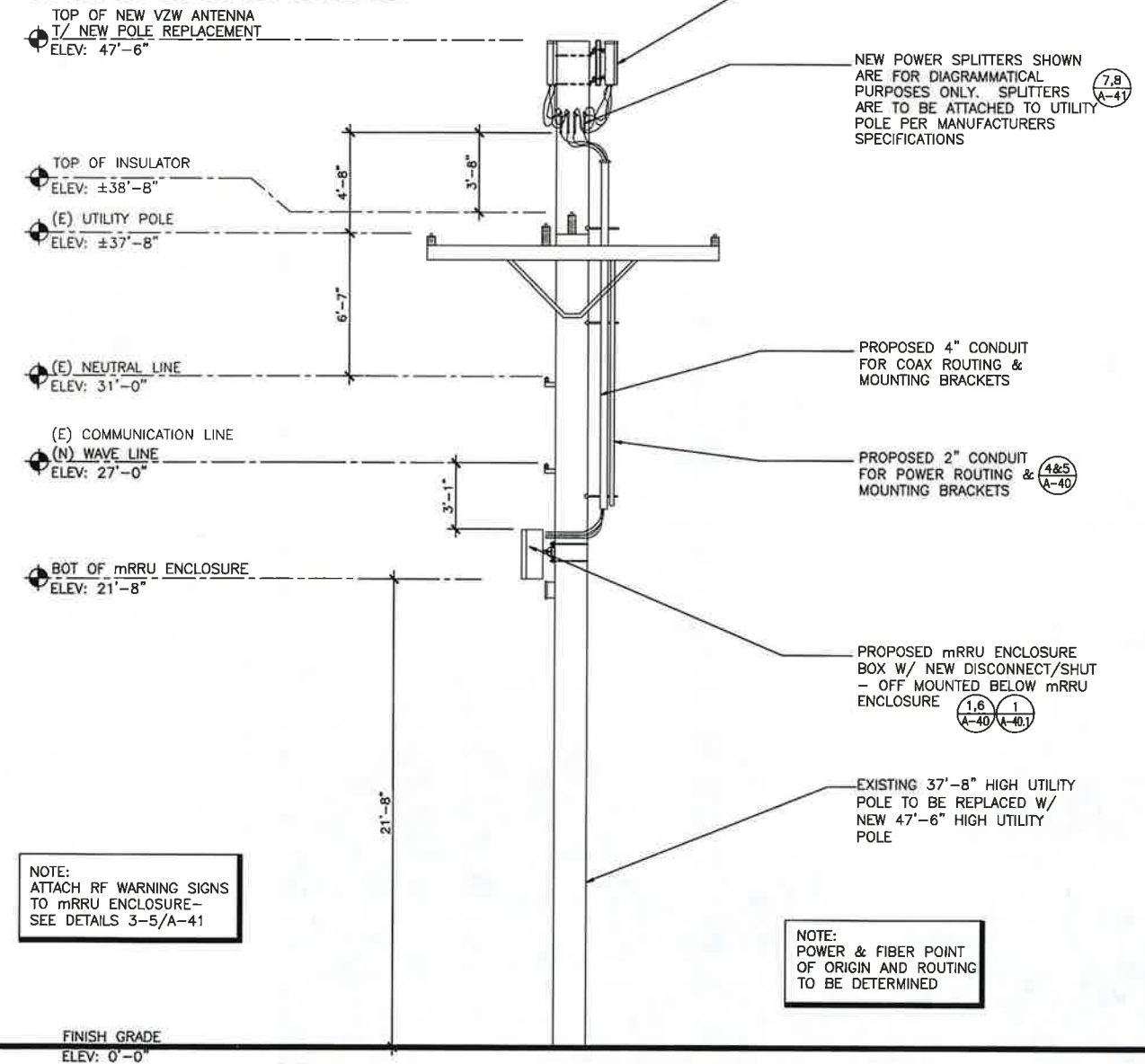
NODE 19 VICINITY MAP
NOT TO SCALE



NODE 19 PHOTO SIM
NOT TO SCALE



NOTE:
TRIM OFF EXCESS LENGTH OF ALL
BOLTS AND ATTACH COAX CABLES w/
STAND-OFF BRACKETS MOUNTED
DIRECTLY TO POLE

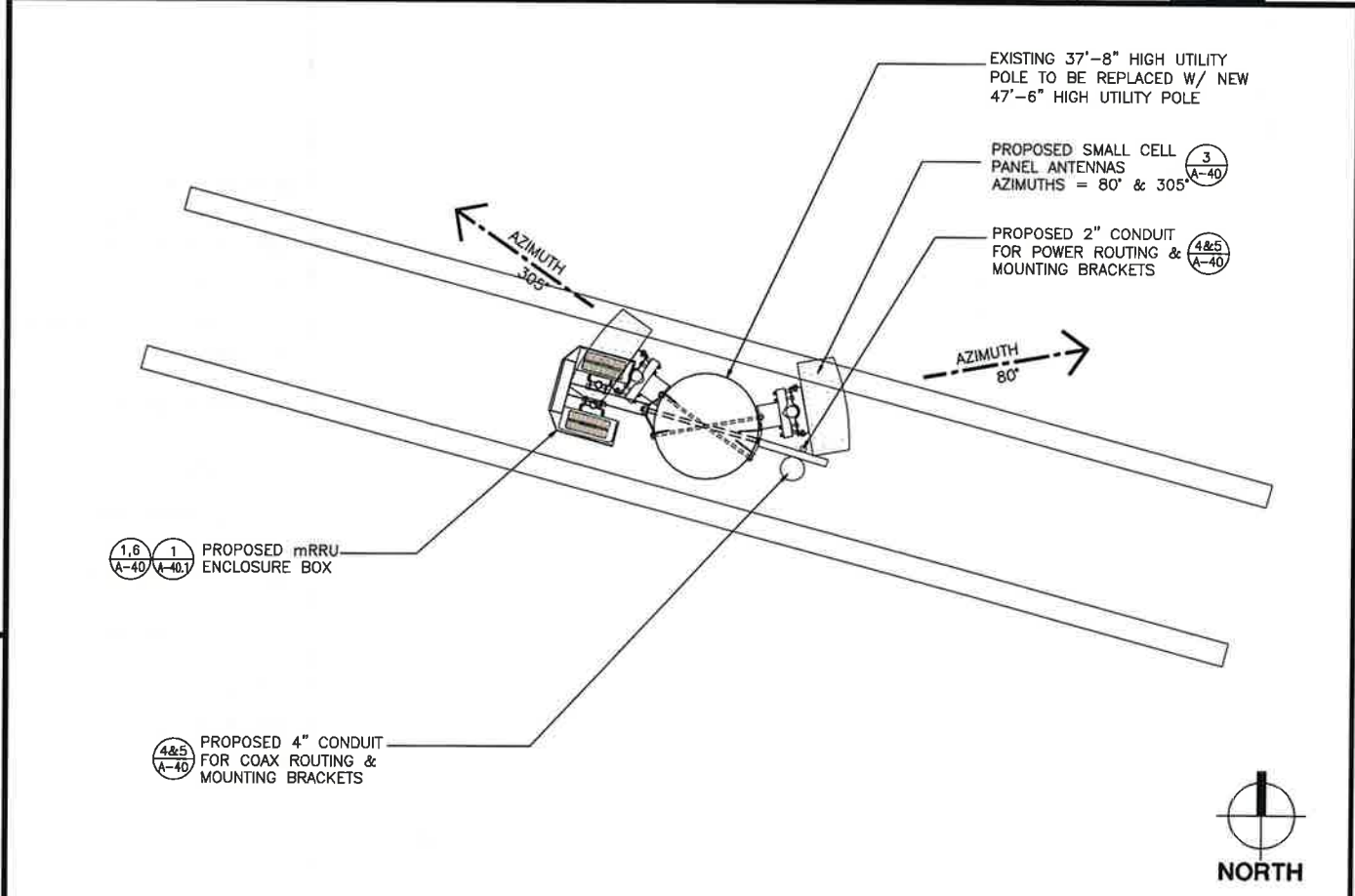


1 SOUTH ELEVATION

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

2 ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



3 ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-9851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

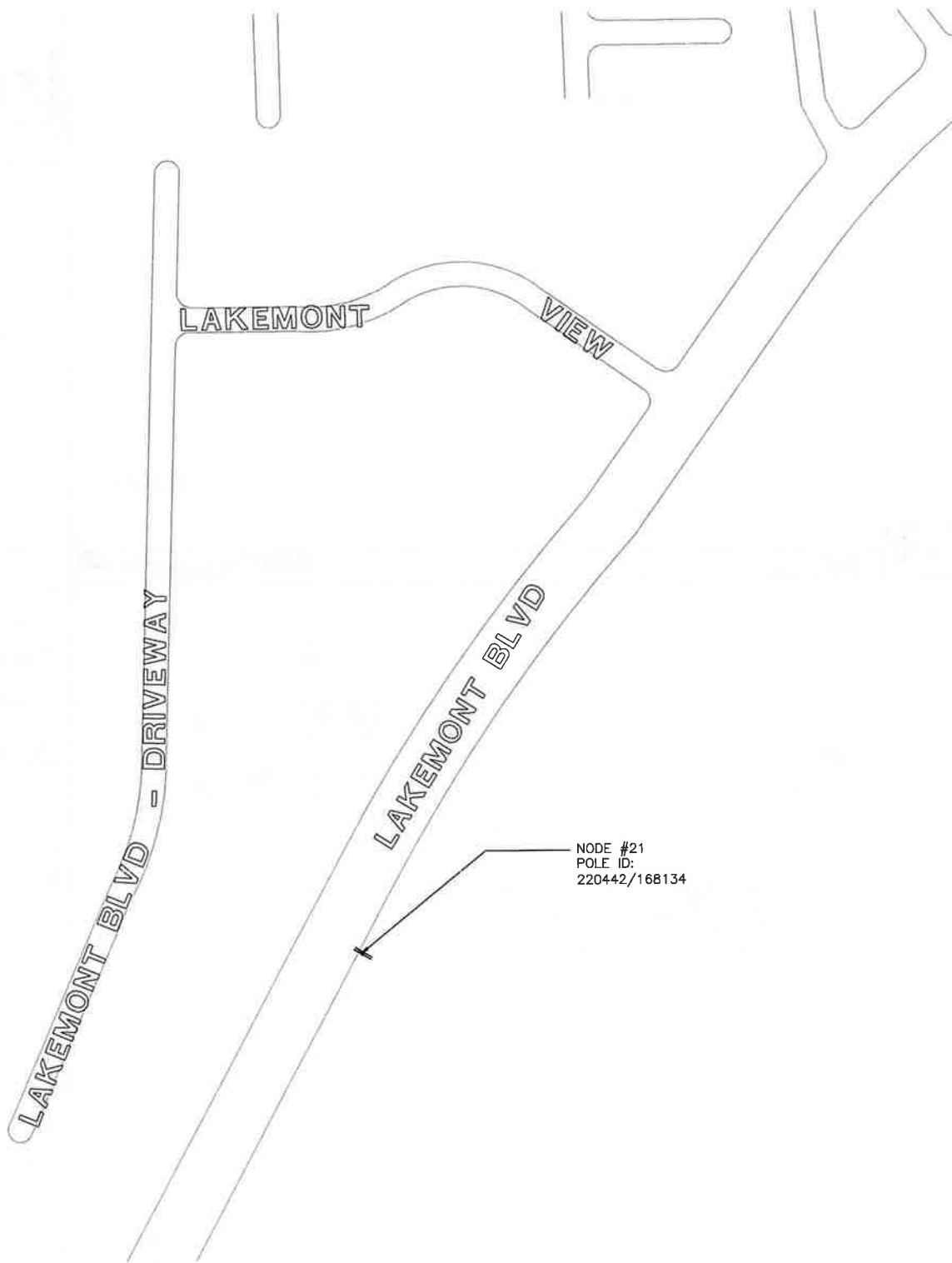
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6	GA 9/14/16	PRELIM PERMIT ISSUE
7	GA 6/17/16	PRELIM PERMIT ISSUE
8	GA 5/13/16	PRELIM PERMIT ISSUE
9	GA 3/30/16	PRELIM PERMIT ISSUE
10	GA 3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 19 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

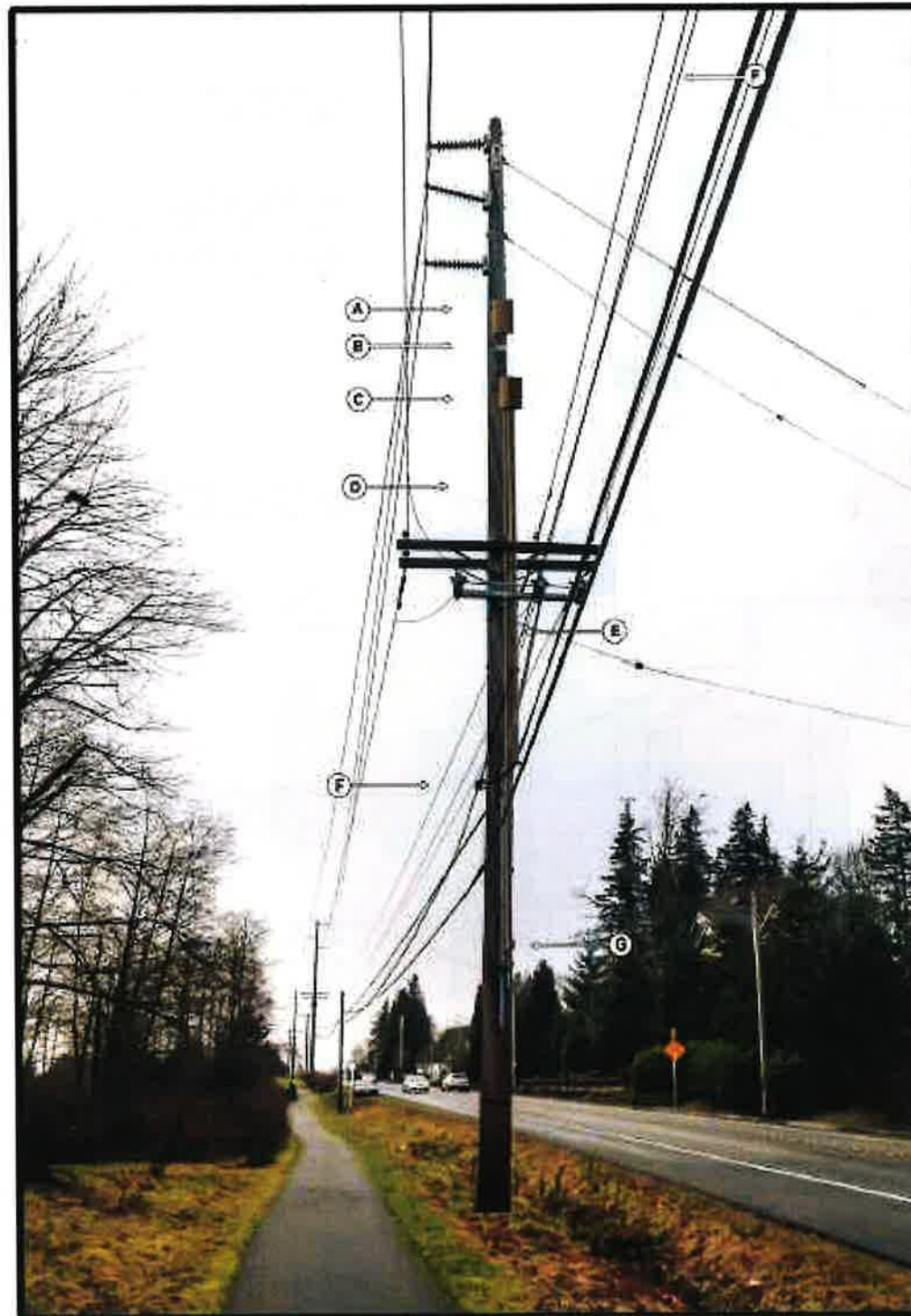
A-15.1

PROJECT NUMBER



1
NODE 21 VICINITY MAP
NOT TO SCALE

- (A) Antenna (x2)
ANTEL HTXCWW4513Fx0
24.1" H x 16" W x 7.1" D
11.7 lbs (x2)
- (B) Microtab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber
- (G) Dieconnect Box
0.75" H x 0.00 L x 0.25 D
WT. TBD



2
NODE 21 PHOTO SIM
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS/3/22/18	PRELIM PERMIT ISSUE
SGA/11/21/17	PRELIM PERMIT ISSUE
SGA/8/29/17	PRELIM PERMIT ISSUE
SGA/7/19/17	PRELIM PERMIT ISSUE
SGA/9/14/16	PRELIM PERMIT ISSUE
SGA/5/17/16	PRELIM PERMIT ISSUE
SGA/5/13/16	PRELIM PERMIT ISSUE
SGA/3/30/16	PRELIM PERMIT ISSUE
SGA/3/22/16	PRELIM PERMIT ISSUE

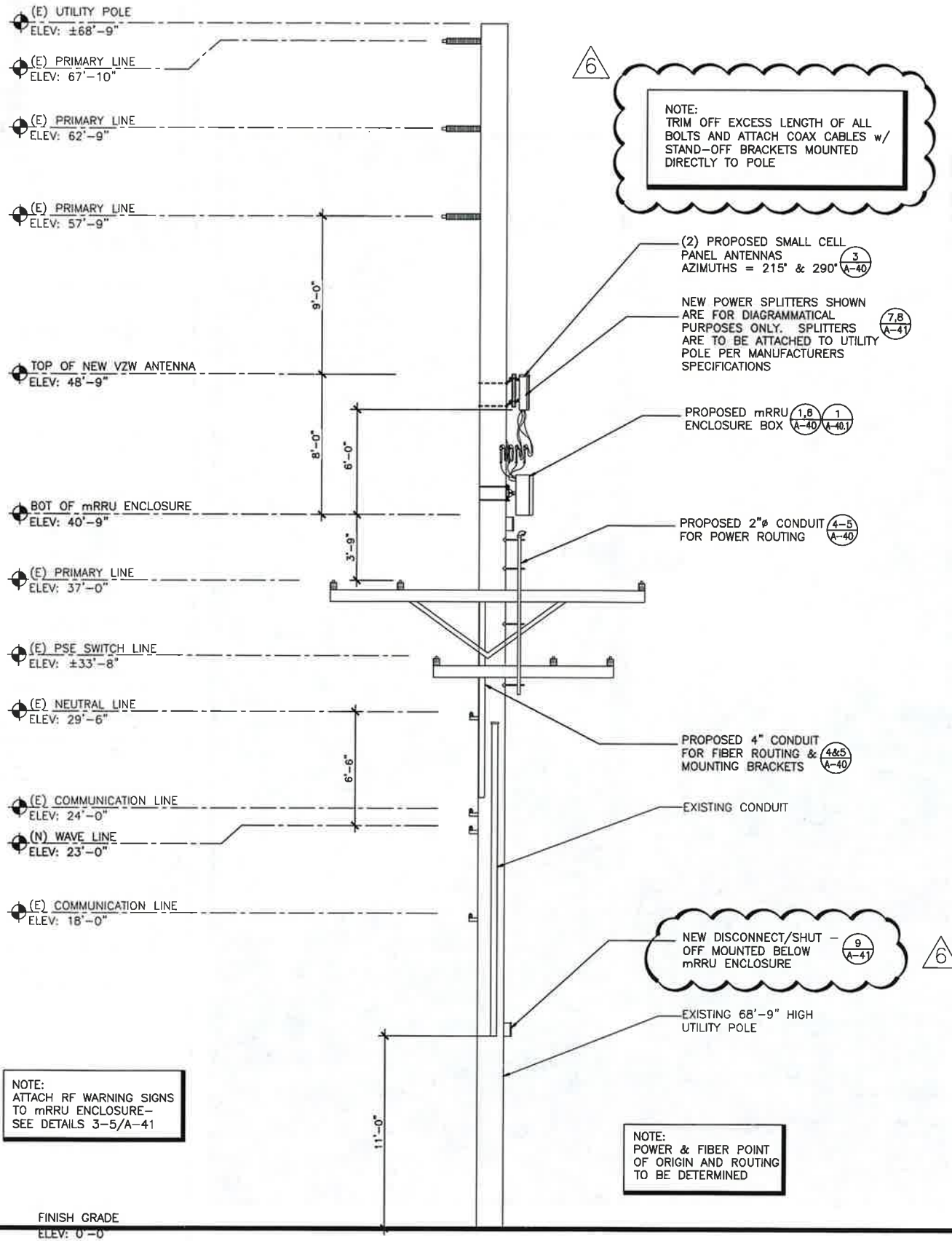
SHEET NAME

NODE 21
PHOTO SIM

SHEET NUMBER

A-16.0

PROJECT NUMBER

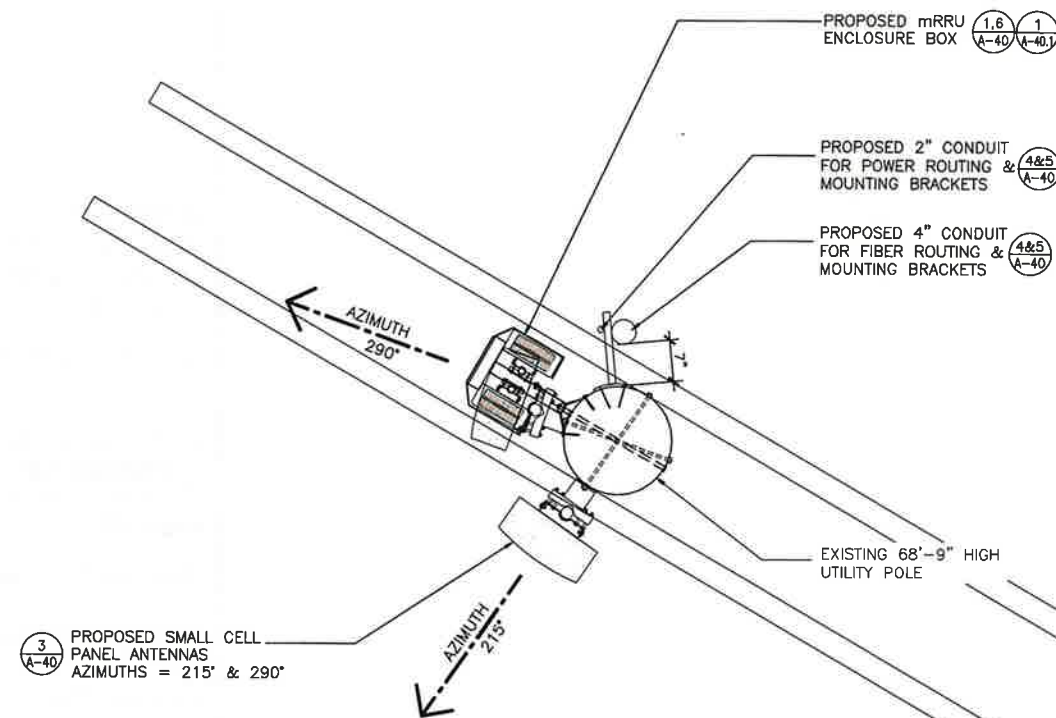


1 NORTH ELEVATION

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

2 ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



3 ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

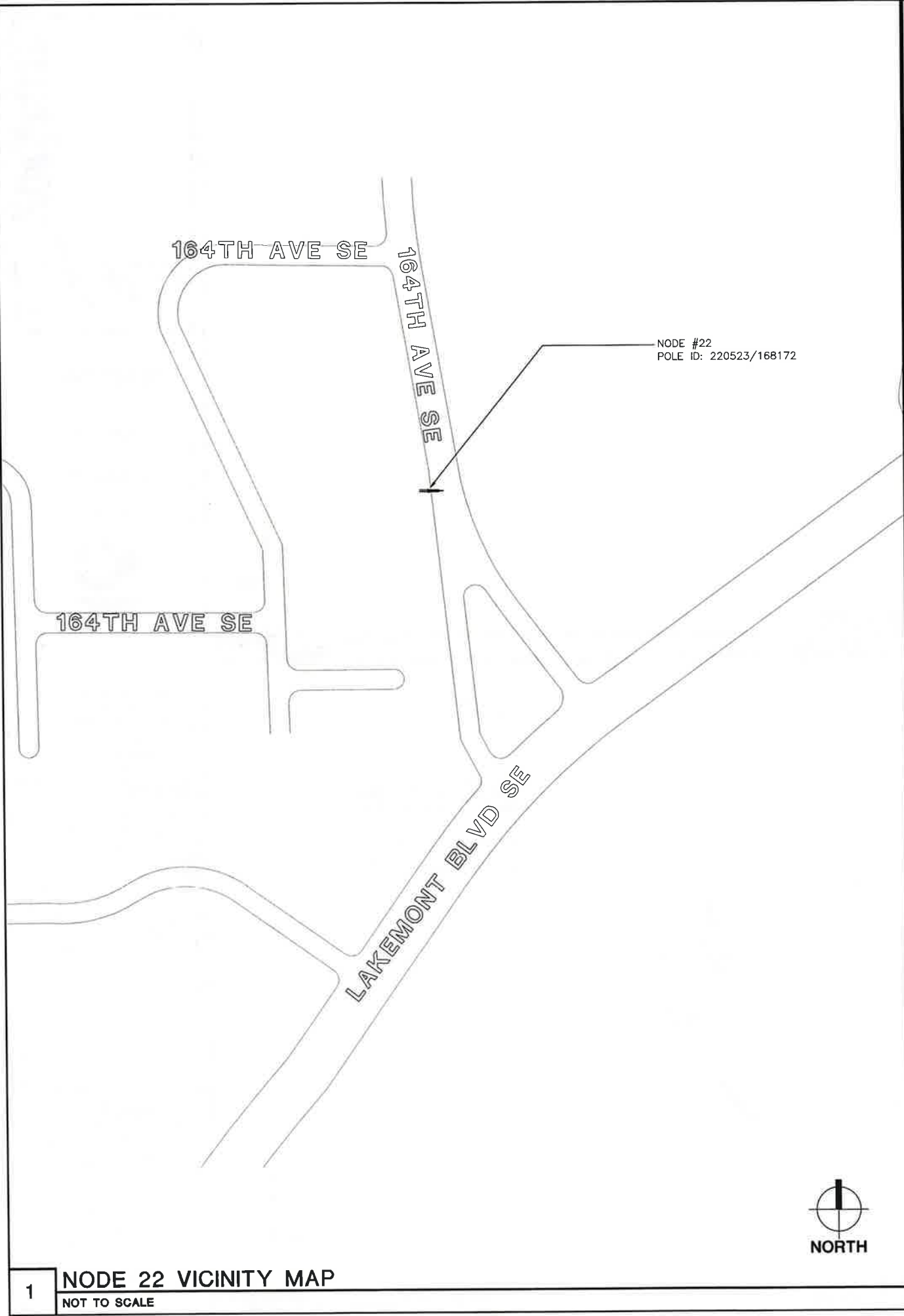
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3/1/18	PRELIM PERMIT ISSUE
3/1/18	PRELIM PERMIT ISSUE

SHEET NAME
NODE 21 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-16.1

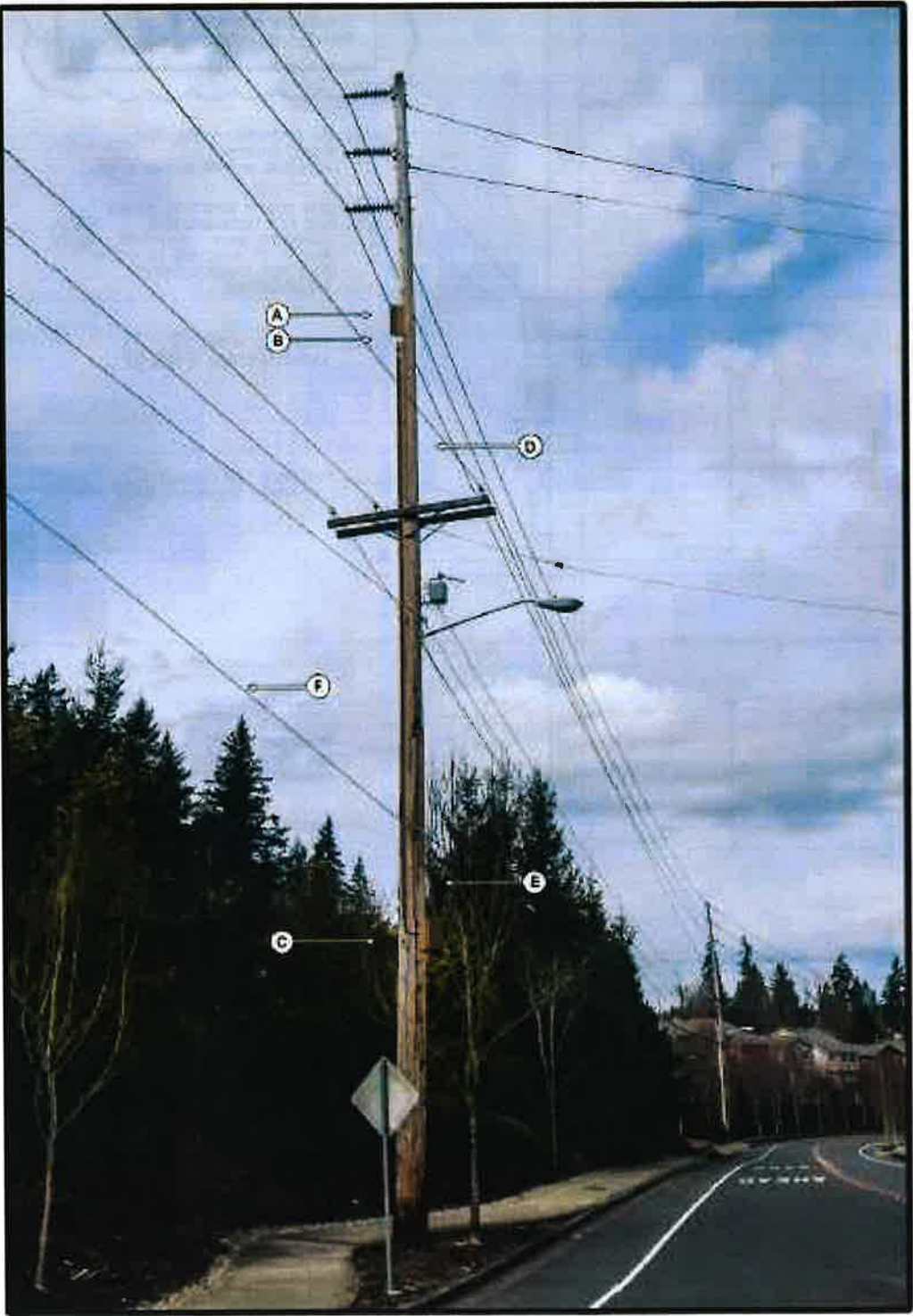
PROJECT NUMBER



1
NODE 22 VICINITY MAP
NOT TO SCALE

- (A) Antenna (x2)
ANTEL HTXCWW4513Fx0
24.1" H x 18" W x 7.1" D
11.7 lbs (x2)
- (B) MicroLab Low PIM Splitters
10" L (x4)
- (C) MTC3780PRE2 ARU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conditl
- (F) Proposed Wave Fiber

2
NODE 22 PHOTO SIM
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+
ASSOCIATES

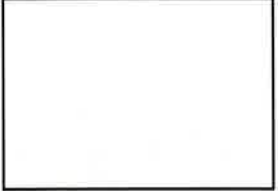
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1814
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
3	GA	11/21/17	PRELIM PERMIT ISSUE
4	GA	8/29/17	PRELIM PERMIT ISSUE
5	GA	7/19/17	PRELIM PERMIT ISSUE
6	GA	9/14/16	PRELIM PERMIT ISSUE
7	GA	6/17/16	PRELIM PERMIT ISSUE
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10	GA	3/22/16	PRELIM PERMIT ISSUE



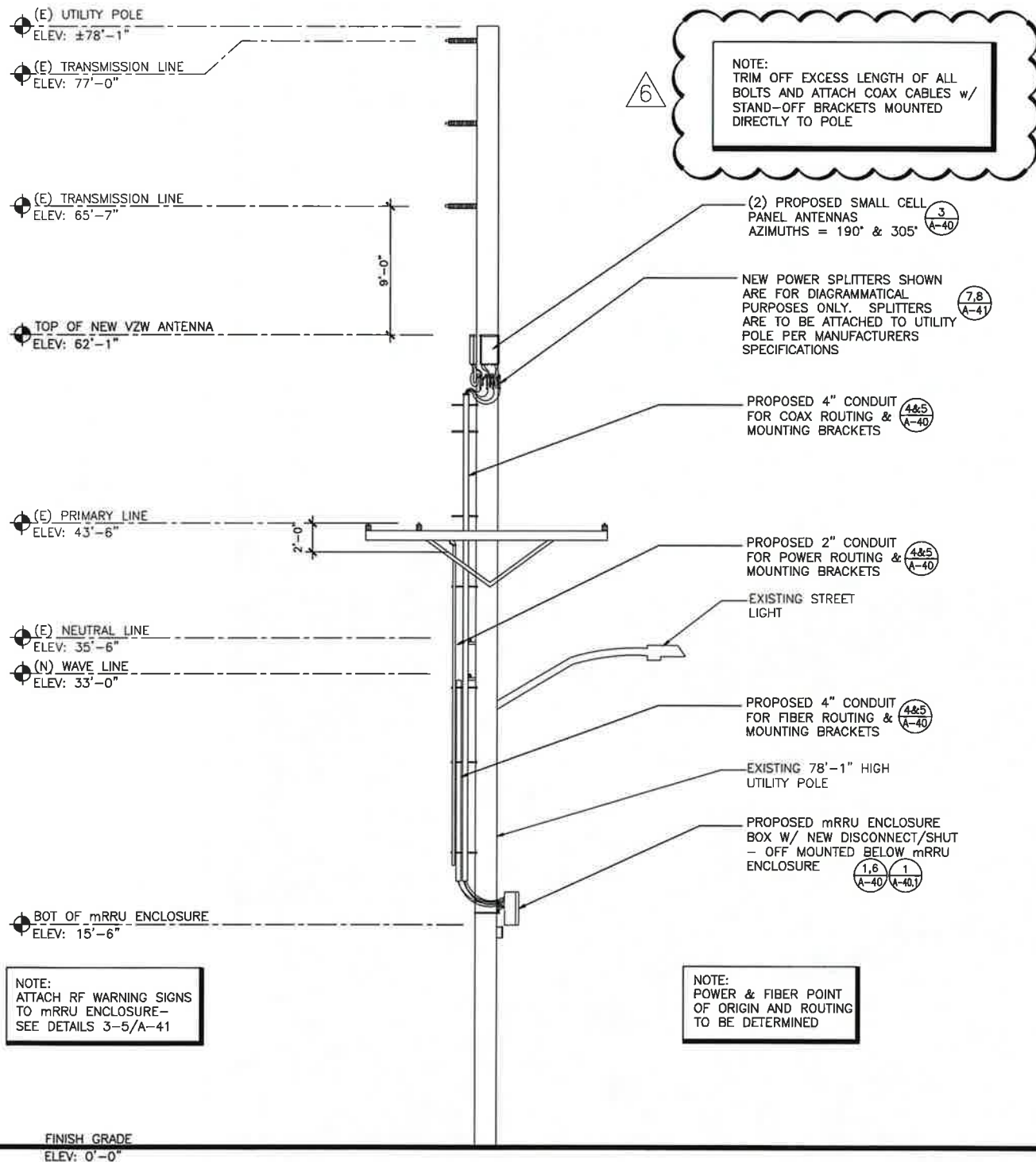
SHEET NAME

NODE 22
PHOTO SIM

SHEET NUMBER

A-17.0

PROJECT NUMBER



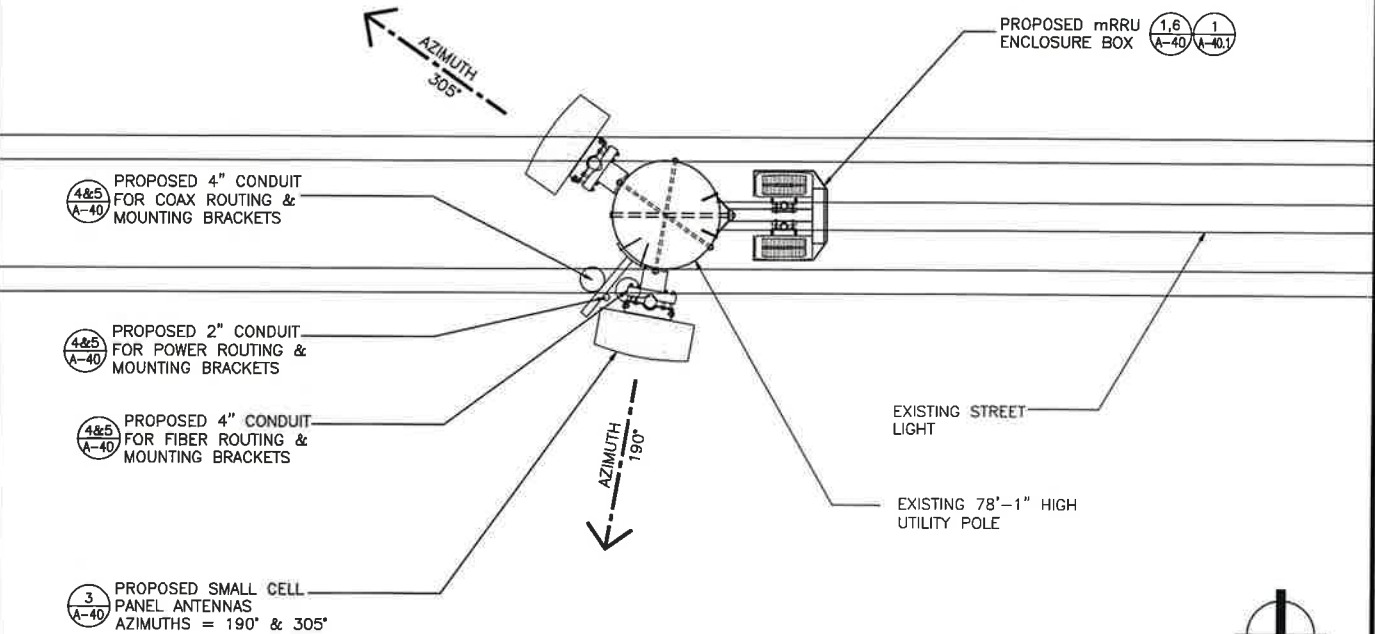
NODE #22
POLE ID: 220523/168172

SOUTH ELEVATION

SCALE: $3/16" = 1'-0"$ (22x34), $3/32" = 1'-0"$ (11x17)

ENLARGED SITE PLAN

SCALE: $1" = 10'-0"$ (22x34), $1" = 20'-0"$ (11x17)



ANTENNA PLAN

SCALE: $3/4" = 10'-0"$ (22x34), $3/8" = 20'-0"$ (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

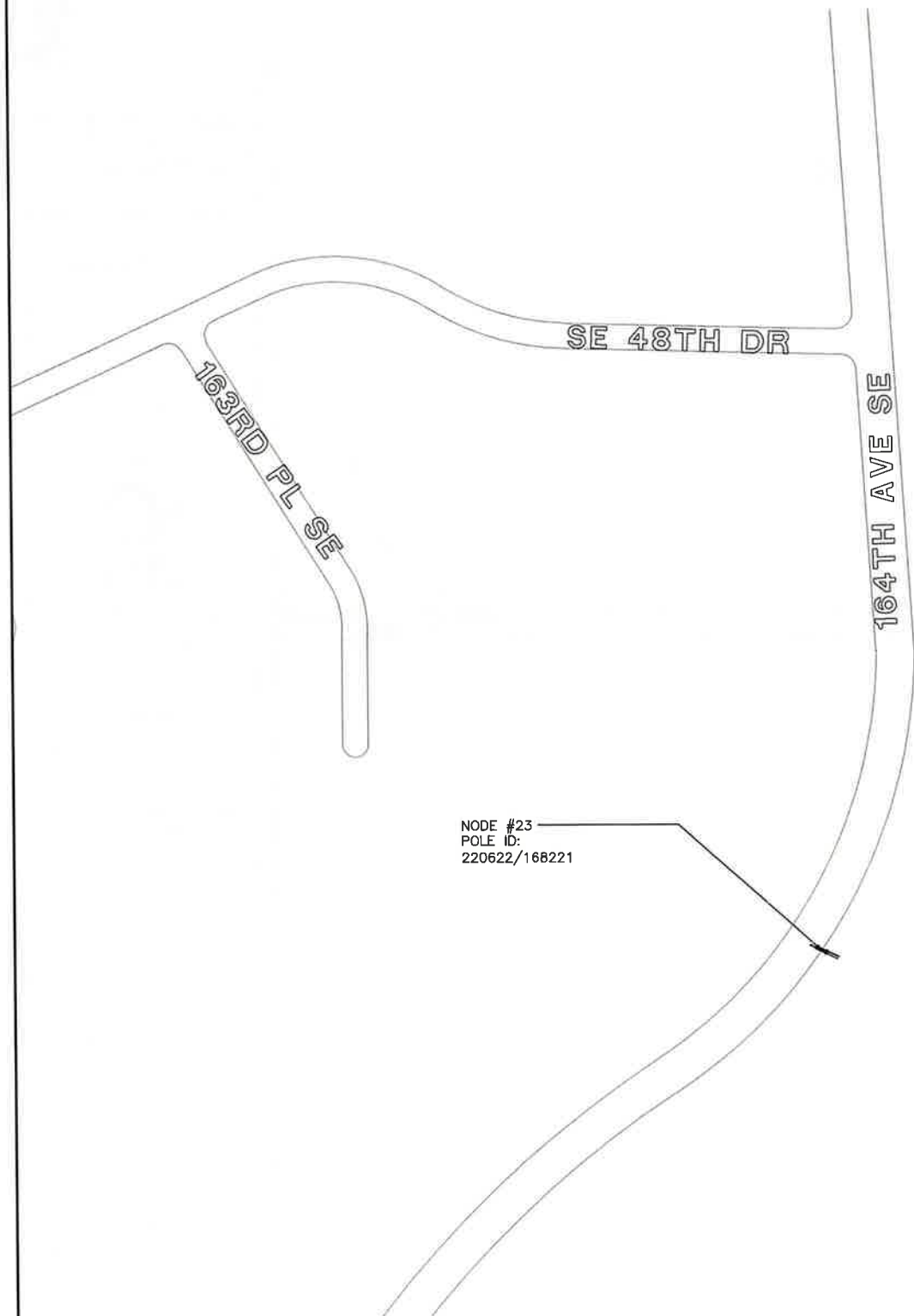
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8/11/17	PRELIM PERMIT ISSUE
8/29/17	PRELIM PERMIT ISSUE
7/19/17	PRELIM PERMIT ISSUE
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8/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 22 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-17.1

PROJECT NUMBER

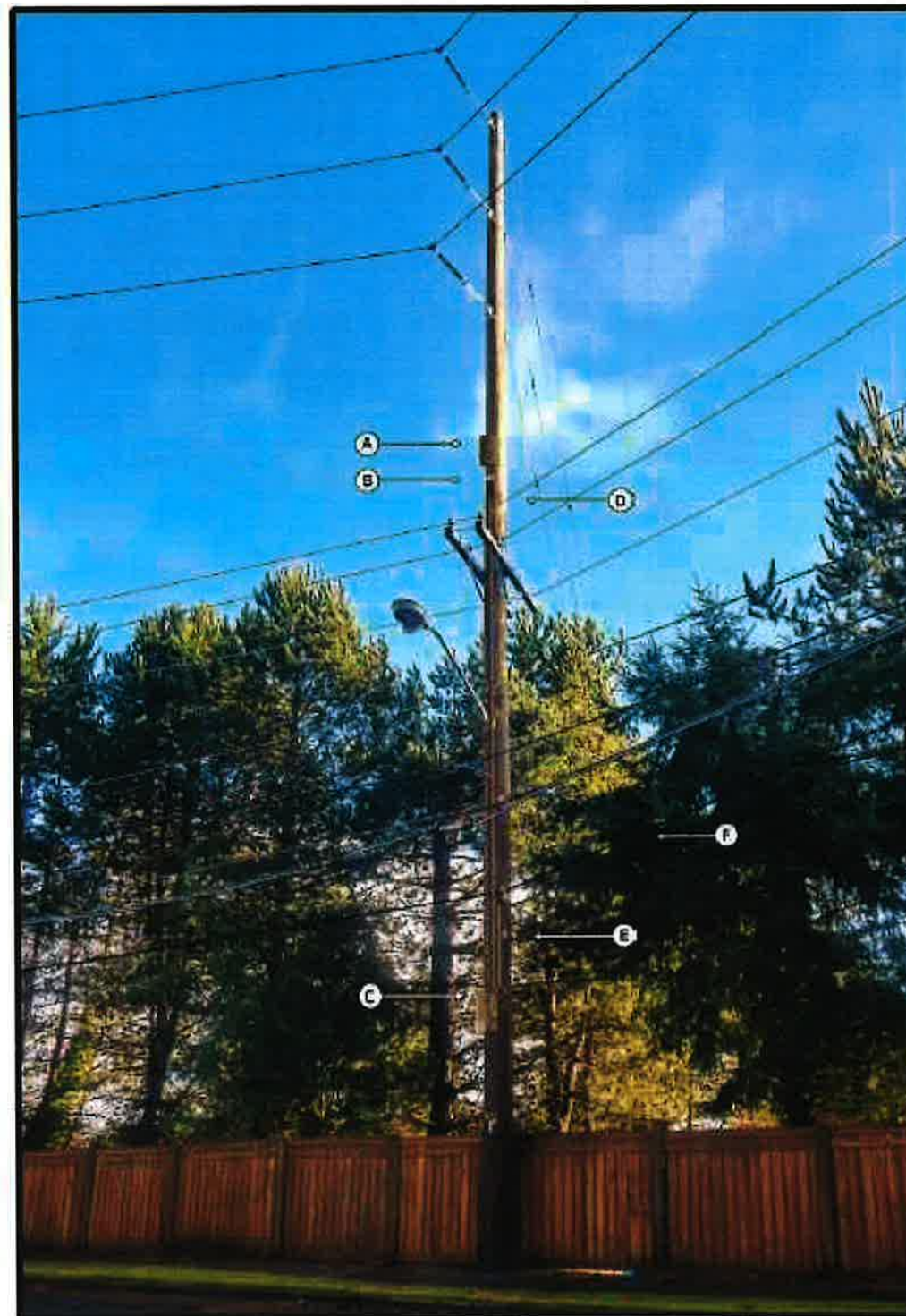


NODE #23
POLE ID:
220622/168221



1 **NODE 23 VICINITY MAP**
NOT TO SCALE

- (A) Antenna (x2)
ANTEL HTXCMW4513F x0
24.1" H x 16" W x 7.1" D
11.7 lbs (x2)
- (B) MicroLab Low PIM Splitters
18" L (x4)
- (C) ERICSSON mRRU
18" H x 6" W x 4.76" D
Weight 22 lbs
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber



2 **NODE 23 PHOTO SIM**
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
6	GA	11/21/17	PRELIM PERMIT ISSUE
5	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	5/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
A	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

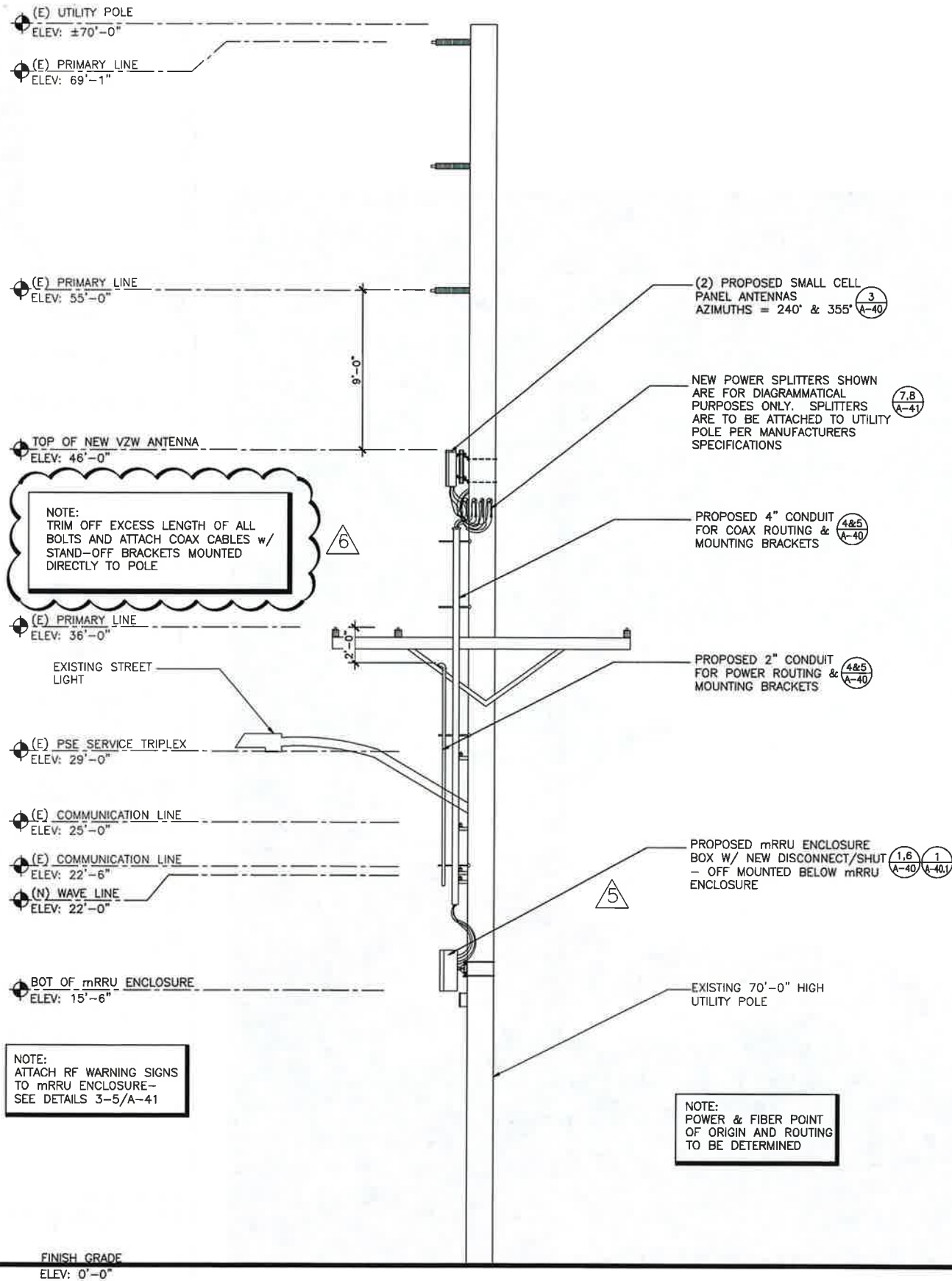
NODE 23
PHOTO SIM

SHEET NUMBER

A-18.0

PROJECT NUMBER

--



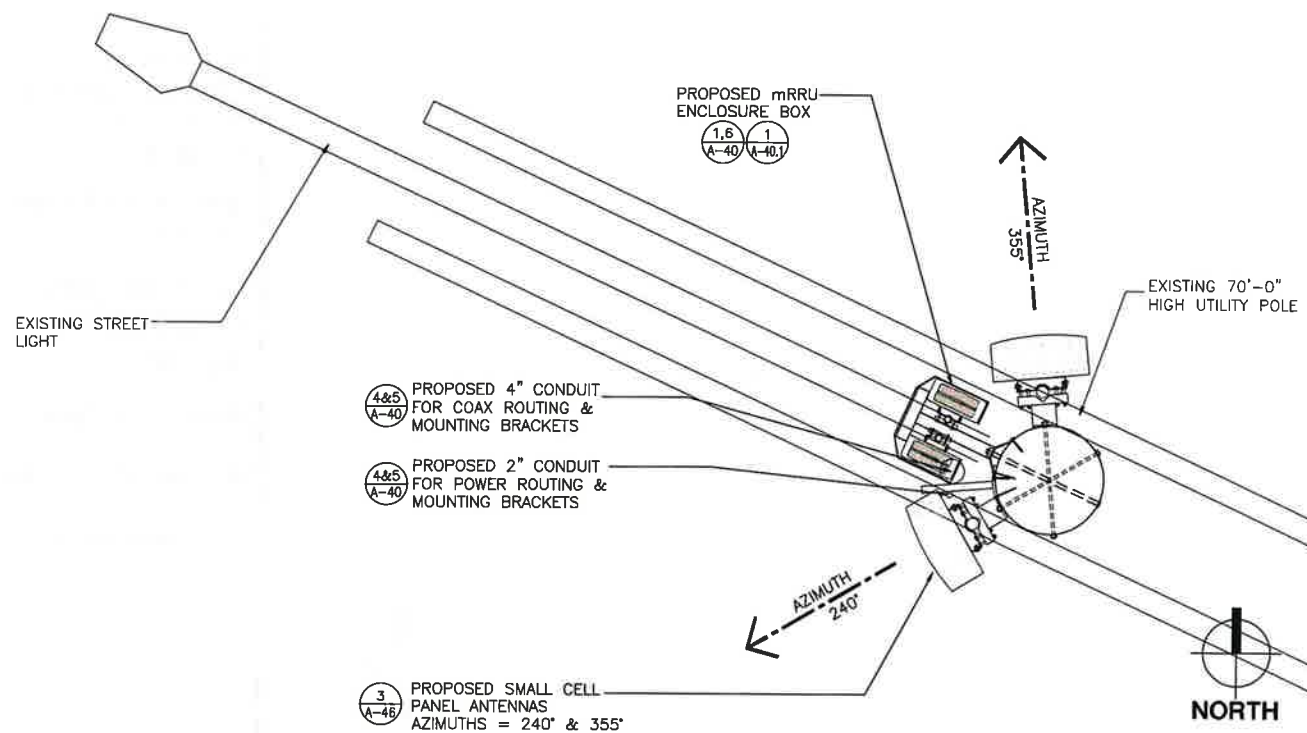
NODE #23
POLE ID: 220622/106221

SOUTHWEST ELEVATION

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

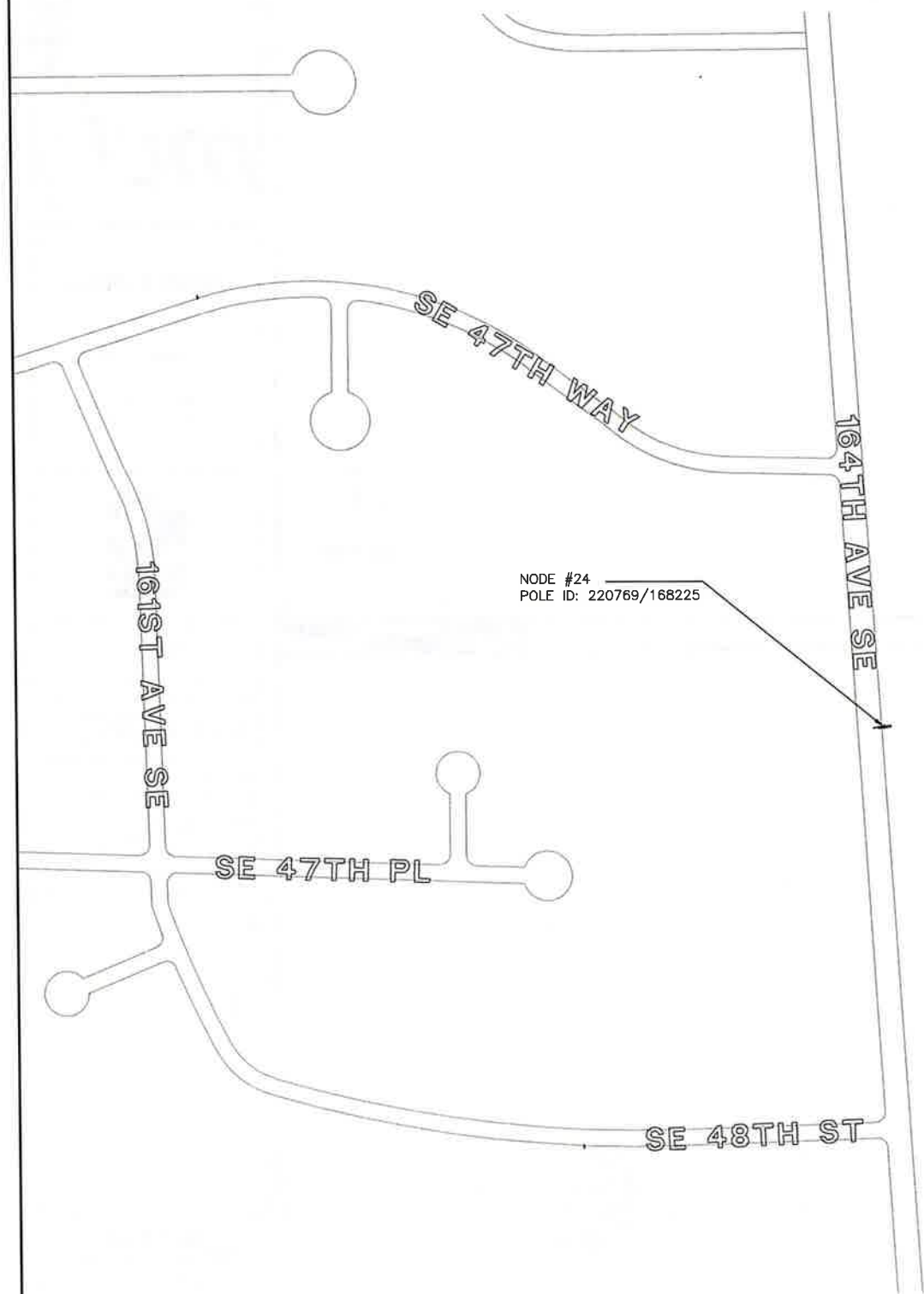
2	SS	3/22/18	PRELIM PERMIT ISSUE
5	GA	11/21/17	PRELIM PERMIT ISSUE
3	GA	8/29/17	PRELIM PERMIT ISSUE
2	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
1	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 23 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

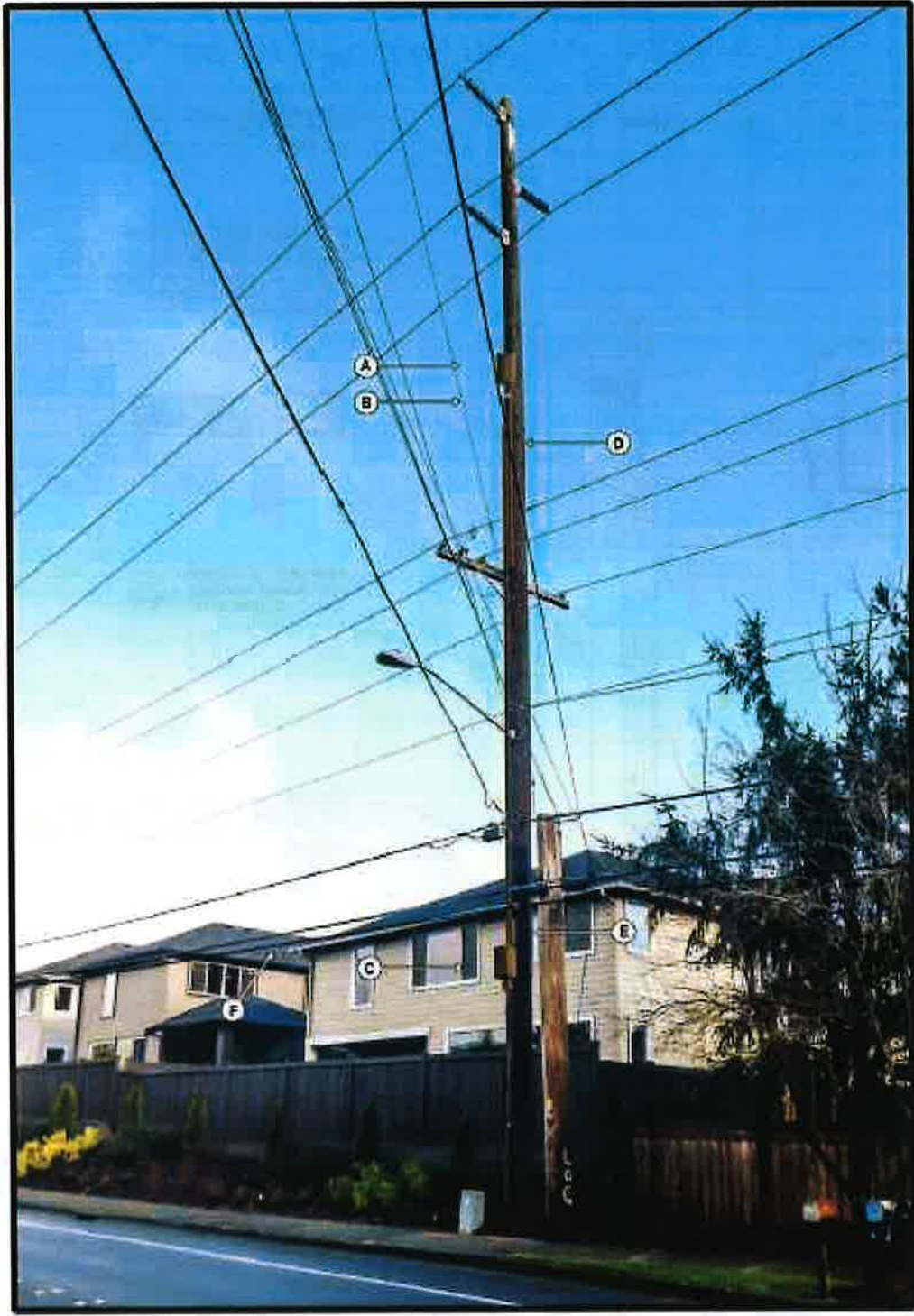
A-18.1

PROJECT NUMBER



1 **NODE 24 VICINITY MAP**
NOT TO SCALE

- (A) Antenna (x2)
ANTEL HTXCHN4513Fx0
24.1" H x 18" W x 7.1" D
11.7 lbs (x2)
- (B) Microlok Low PIM Splitters
18" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber



2 **NODE 24 PHOTO SIM**
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SCA	11/21/17	PRELIM PERMIT ISSUE
SCA	8/29/17	PRELIM PERMIT ISSUE
SCA	7/19/17	PRELIM PERMIT ISSUE
SCA	9/14/16	PRELIM PERMIT ISSUE
SCA	6/17/16	PRELIM PERMIT ISSUE
SCA	5/13/16	PRELIM PERMIT ISSUE
SCA	3/30/16	PRELIM PERMIT ISSUE
SCA	3/22/16	PRELIM PERMIT ISSUE



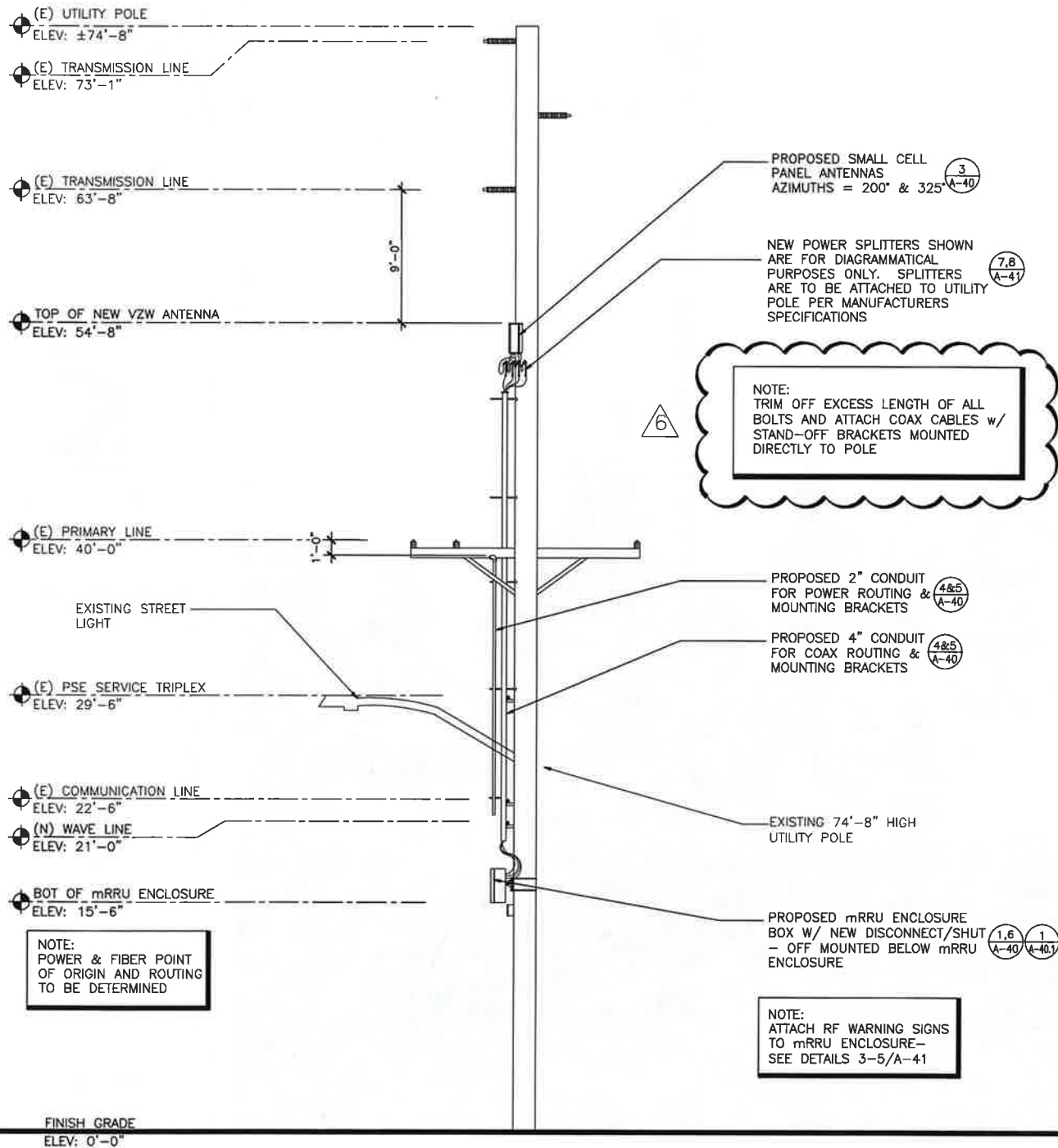
SHEET NAME

NODE 24
PHOTO SIM

SHEET NUMBER

A-19.0

PROJECT NUMBER
--



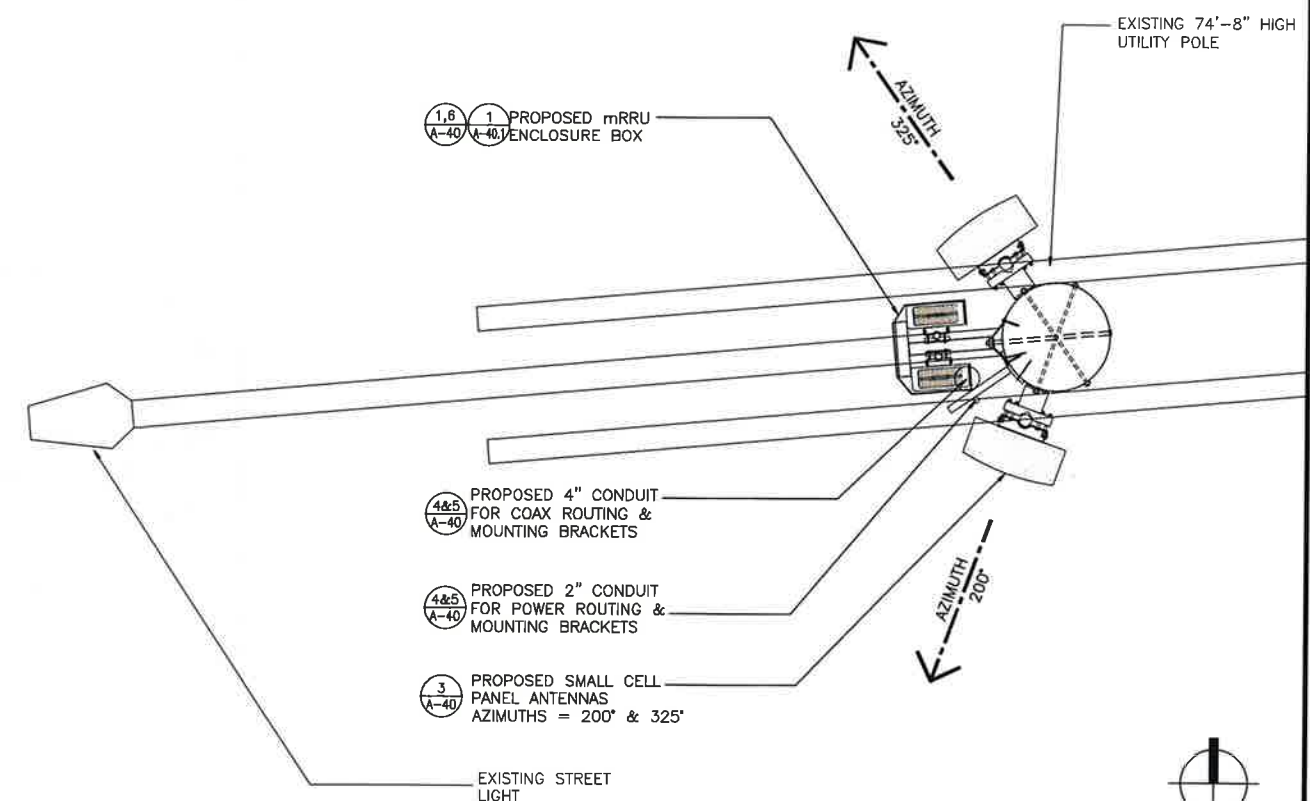
NODE #24
POLE ID: 220769/168225

SOUTH ELEVATION

SCALE: 3/16" = 1'-0" (22x34), 3/32" = 1'-0" (11x17)

ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

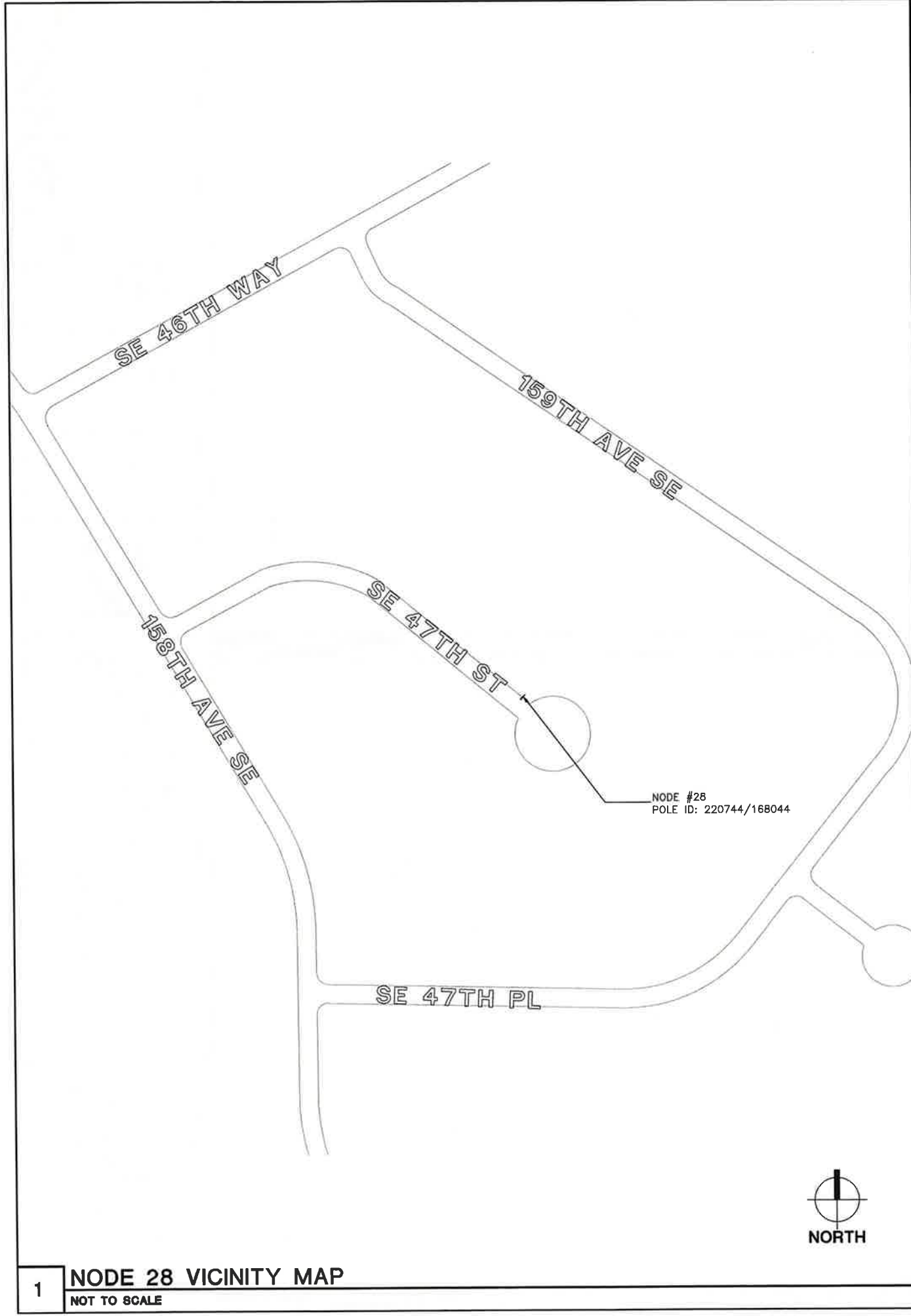
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6	GA	11/21/17	PRELIM PERMIT ISSUE
5	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
A	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 24 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

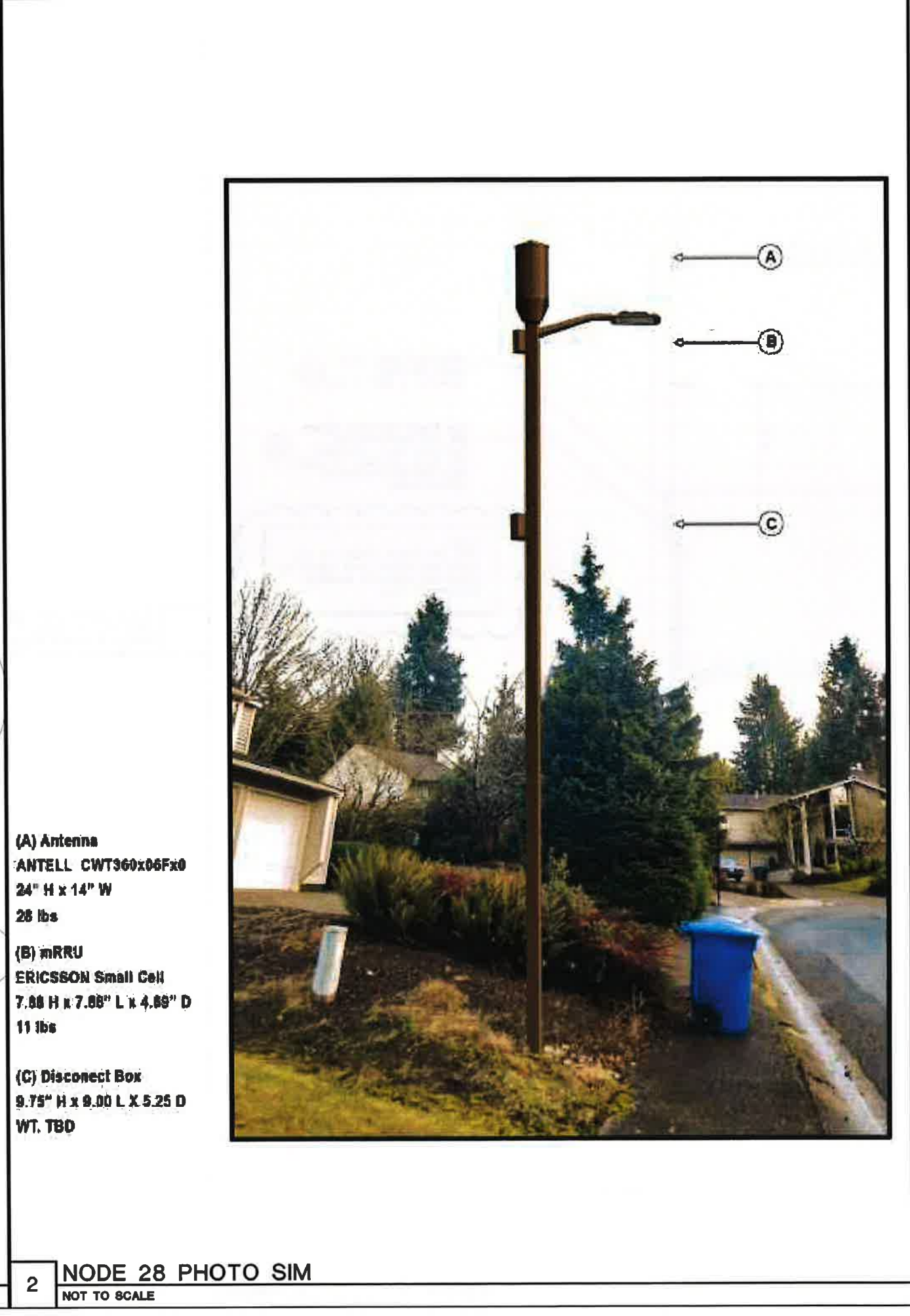
SHEET NUMBER

A-19.1

PROJECT NUMBER



1 NODE 28 VICINITY MAP
NOT TO SCALE



2 NODE 28 PHOTO SIM
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

1	SS	3/22/18	PRELIM PERMIT ISSUE
2	GA	11/21/17	PRELIM PERMIT ISSUE
3	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
5	GA	9/14/16	PRELIM PERMIT ISSUE
6	GA	6/17/16	PRELIM PERMIT ISSUE
7	GA	5/13/16	PRELIM PERMIT ISSUE
8	GA	3/30/16	PRELIM PERMIT ISSUE
9	GA	3/22/16	PRELIM PERMIT ISSUE

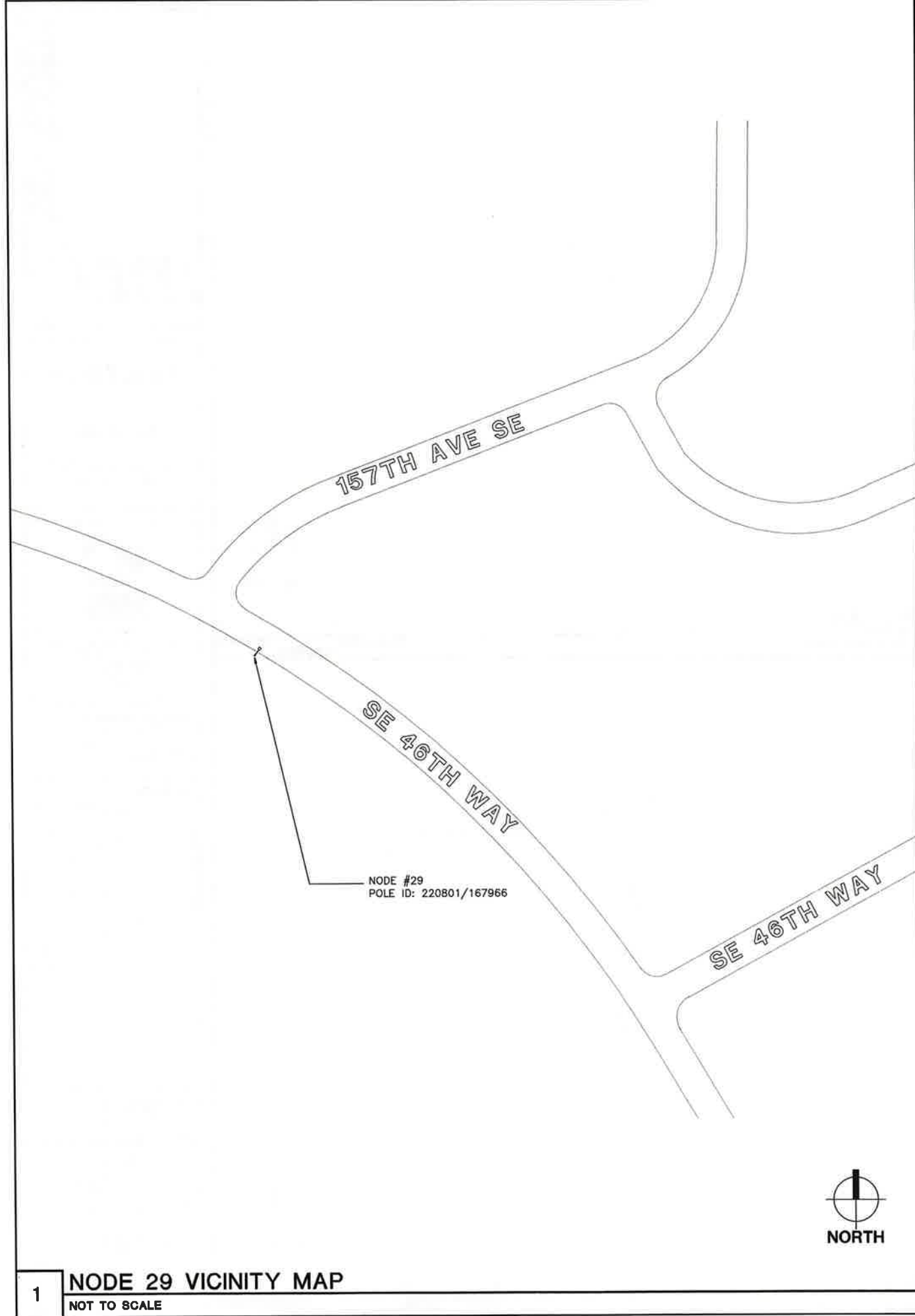
SHEET NAME

NODE 28
PHOTO SIM

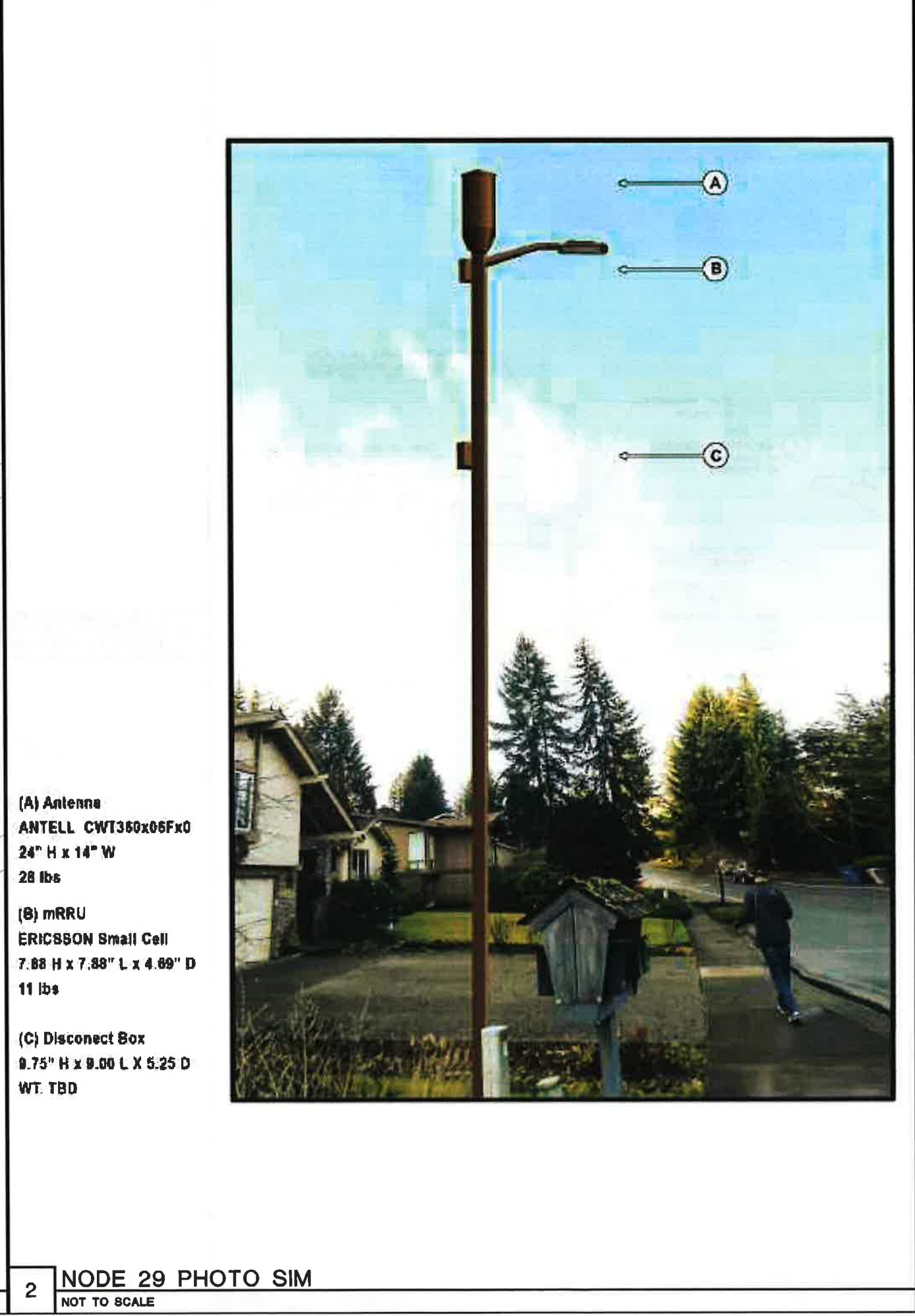
SHEET NUMBER

A-20.0

PROJECT NUMBER



1 **NODE 29 VICINITY MAP**
NOT TO SCALE



- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.89" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD

2 **NODE 29 PHOTO SIM**
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA


CAMP+ ASSOCIATES

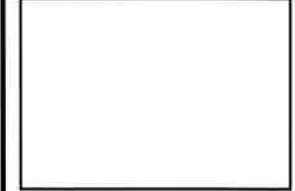
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SGA	11/21/17	PRELIM PERMIT ISSUE
SGA	8/29/17	PRELIM PERMIT ISSUE
SGA	7/19/17	PRELIM PERMIT ISSUE
SGA	9/14/16	PRELIM PERMIT ISSUE
SGA	6/17/16	PRELIM PERMIT ISSUE
IGA	5/13/16	PRELIM PERMIT ISSUE
IGA	3/30/16	PRELIM PERMIT ISSUE
IGA	3/22/16	PRELIM PERMIT ISSUE



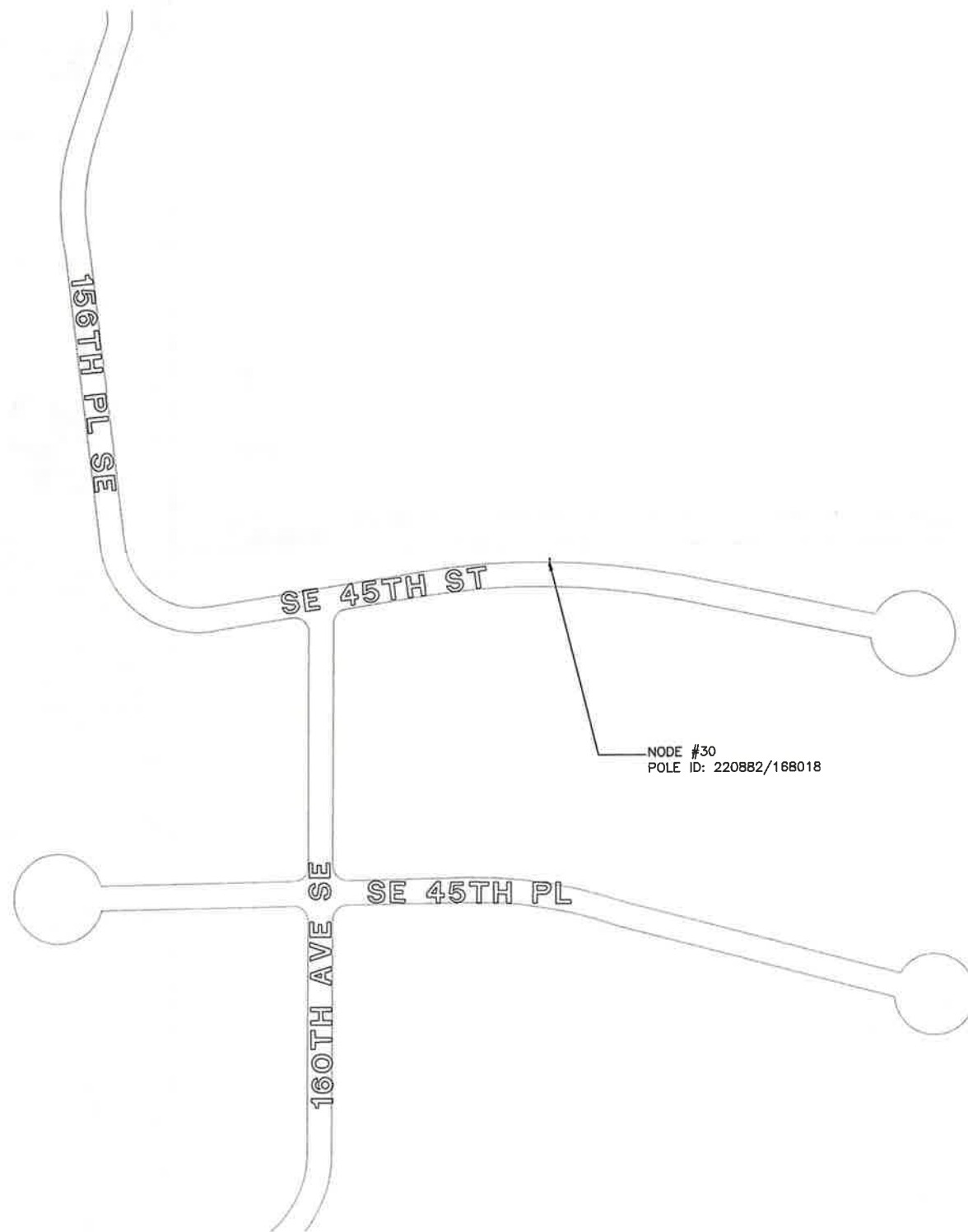
SHEET NAME

NODE 29
PHOTO SIM

SHEET NUMBER

A-21.0

PROJECT NUMBER



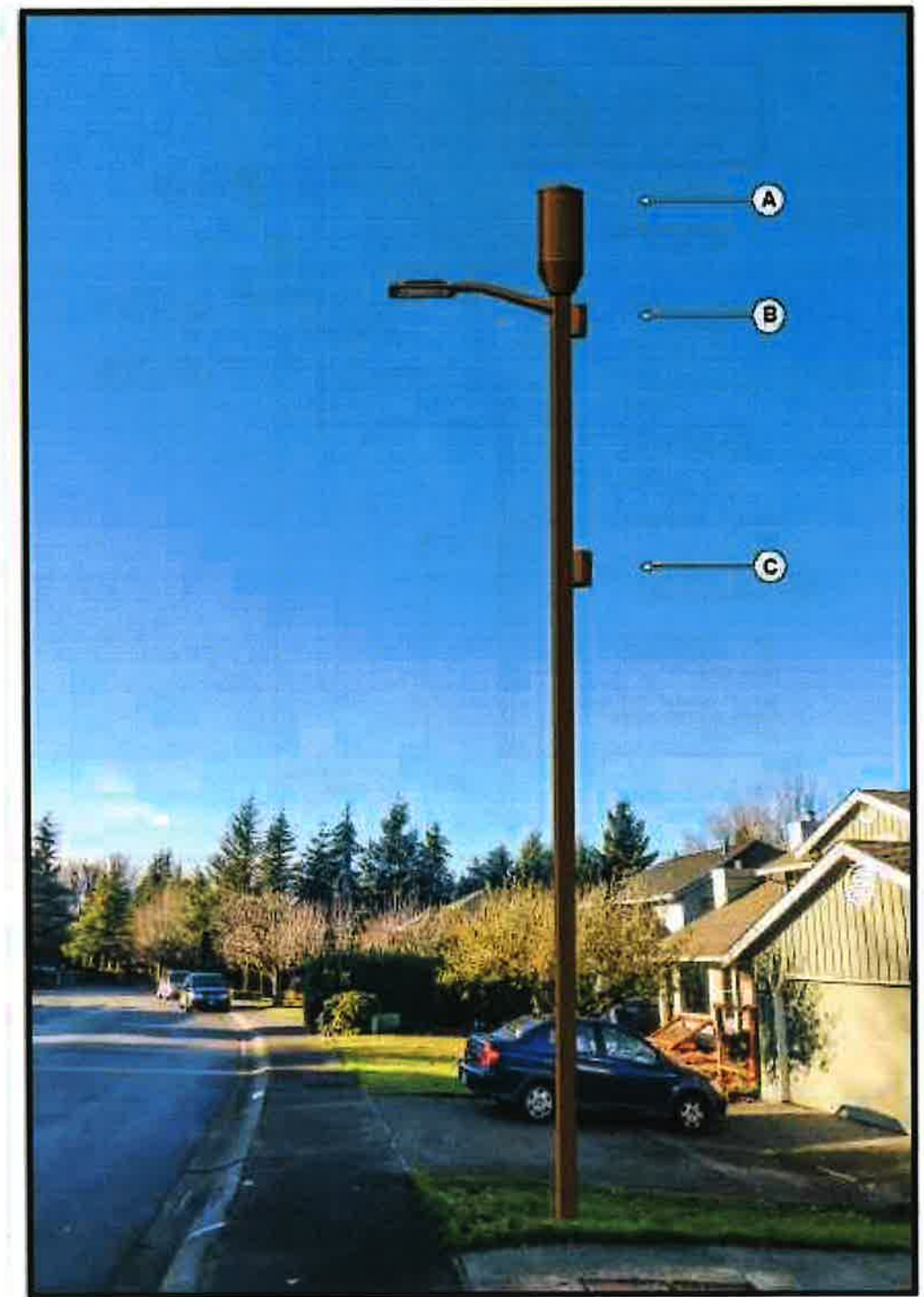
NODE #30
POLE ID: 220882/168018



1 NODE 30 VICINITY MAP
NOT TO SCALE

- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
0.75" H x 0.00 L x 5.25 D
WT. TBD

2 NODE 30 PHOTO SIM
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

1	SS	3/22/18	PRELIM PERMIT ISSUE
2	GA	11/21/17	PRELIM PERMIT ISSUE
3	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
5	GA	9/14/16	PRELIM PERMIT ISSUE
6	GA	6/17/16	PRELIM PERMIT ISSUE
7	GA	5/13/16	PRELIM PERMIT ISSUE
8	GA	3/30/16	PRELIM PERMIT ISSUE
9	GA	3/22/16	PRELIM PERMIT ISSUE



SHEET NAME

NODE 30
PHOTO SIM

SHEET NUMBER

A-22.0

PROJECT NUMBER
--



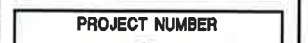
SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

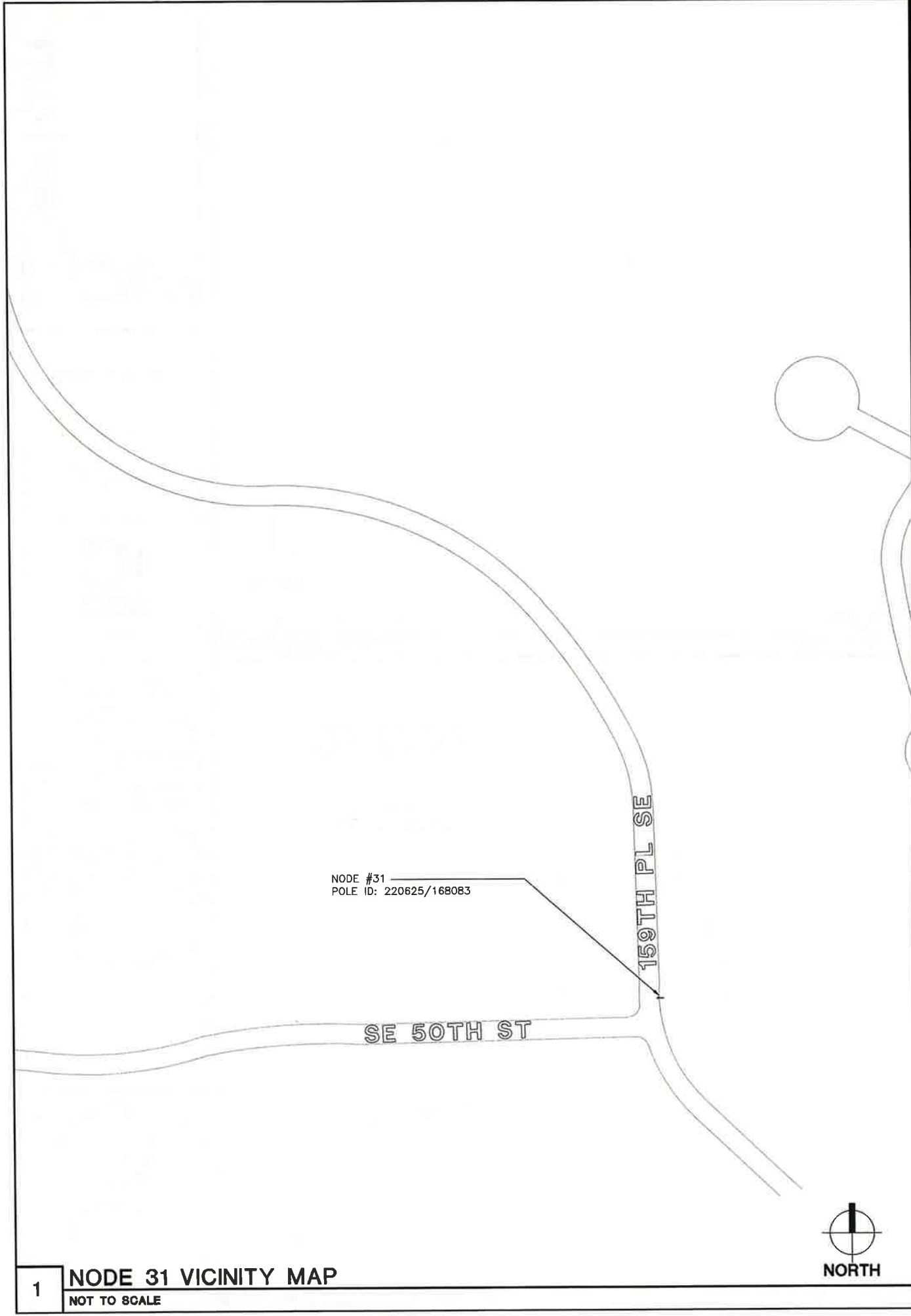


SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



SCALE: 3/4" = 1'-0" (22x34), 3/8" = 1'-0" (11x17)





1 **NODE 31 VICINITY MAP**
NOT TO SCALE



- (A) Antenna
ANTELL CWT360x08Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L X 5.25 D
WT. TBD

2 **NODE 31 PHOTO SIM**
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



CAMP+
ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

1	SS	3/22/18	PRELIM PERMIT ISSUE
2	GA	11/21/17	PRELIM PERMIT ISSUE
3	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
5	GA	9/14/16	PRELIM PERMIT ISSUE
6	GA	6/17/16	PRELIM PERMIT ISSUE
7	GA	5/13/16	PRELIM PERMIT ISSUE
8	GA	3/30/16	PRELIM PERMIT ISSUE
9	GA	3/22/16	PRELIM PERMIT ISSUE



SHEET NAME

NODE 31
PHOTO SIM

SHEET NUMBER

A-23.0

PROJECT NUMBER



SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

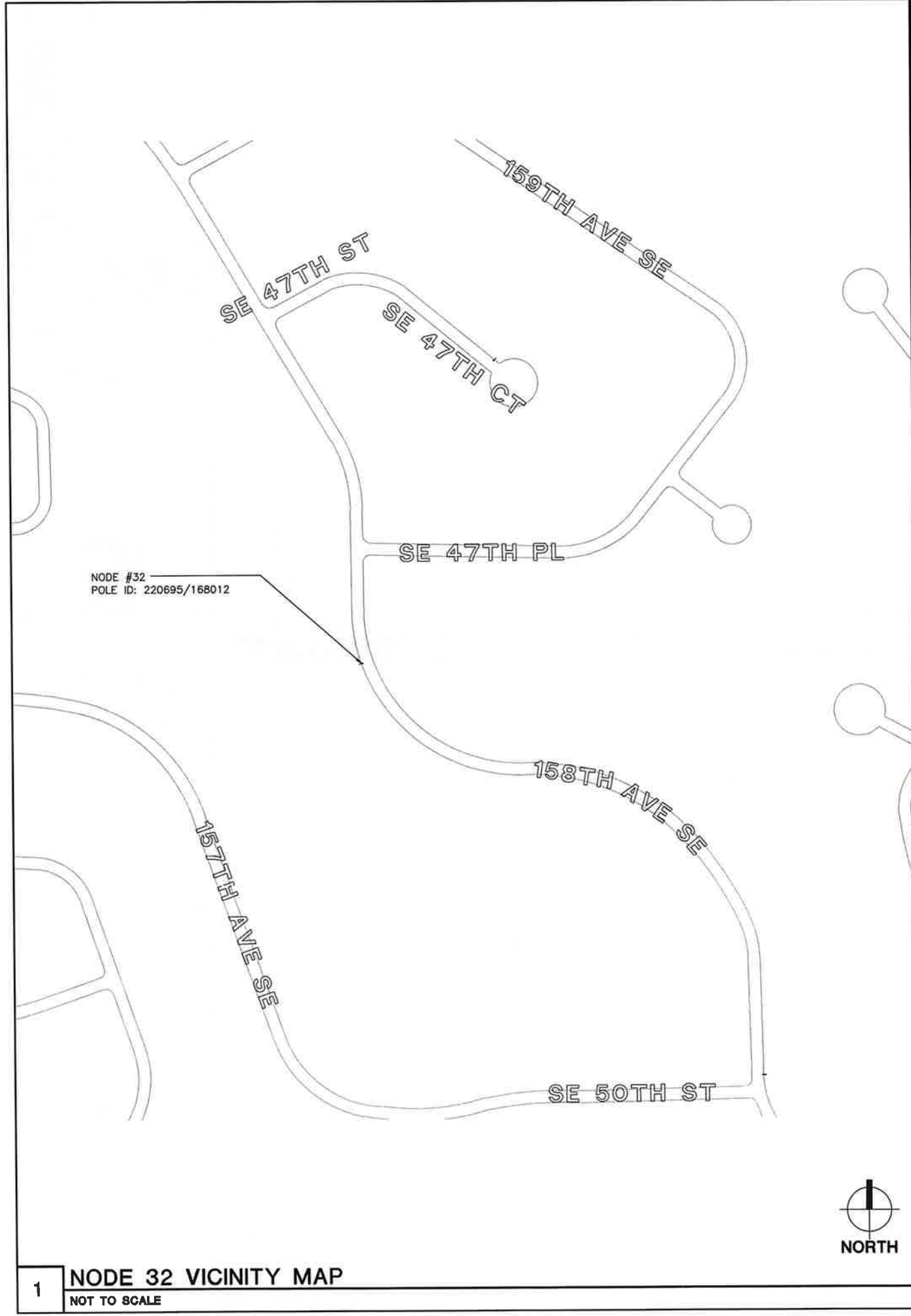


SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



SCALE: 3/4" = 1'-0" (22x34), 3/8" = 1'-0" (11x17)



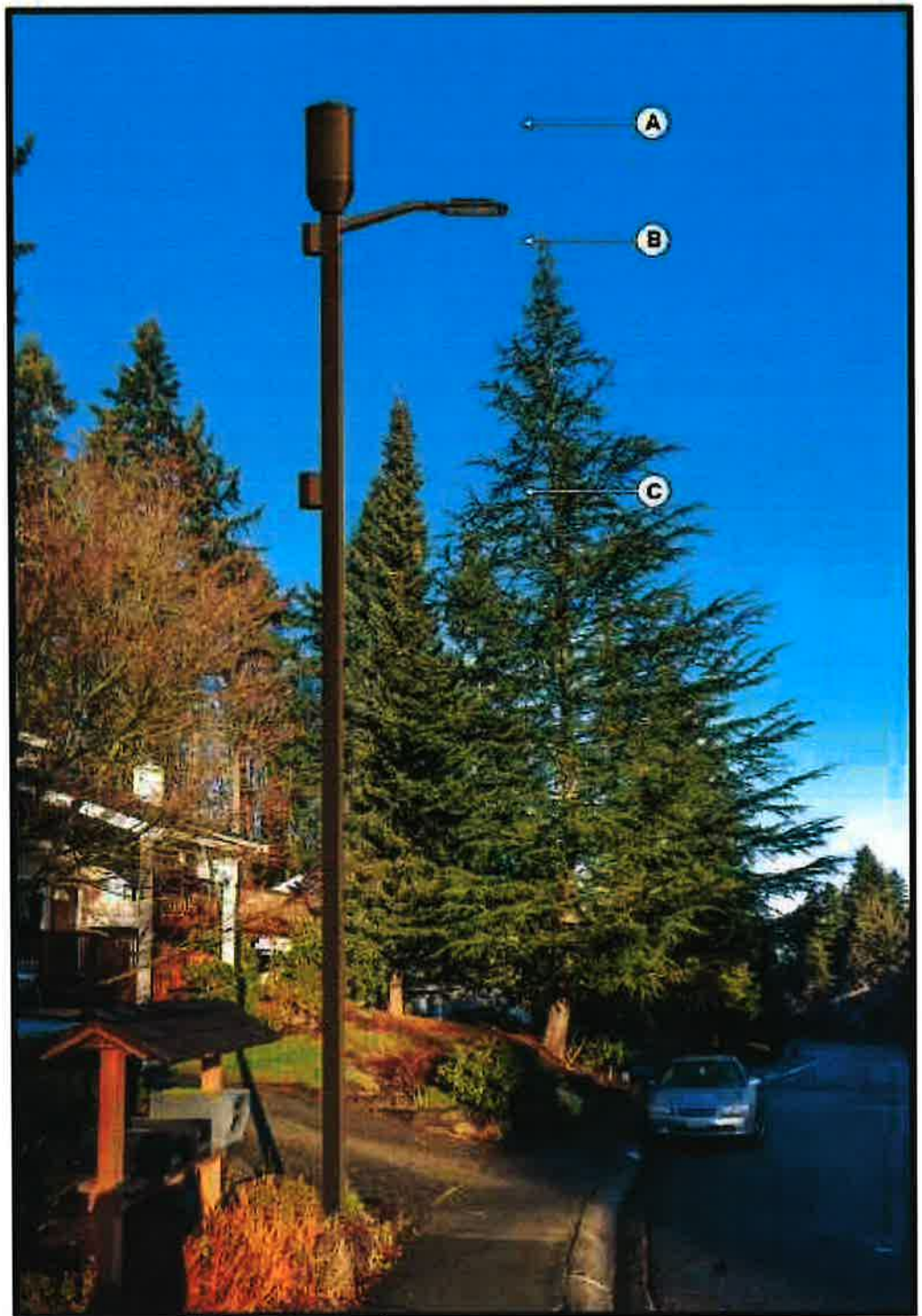


1
NODE 32 VICINITY MAP
NOT TO SCALE

- (A) Antenna
ANTELL CWT360x06FxD
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD



2
NODE 32 PHOTO SIM
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SGA	11/21/17	PRELIM PERMIT ISSUE
SGA	8/29/17	PRELIM PERMIT ISSUE
SGA	7/19/17	PRELIM PERMIT ISSUE
SGA	9/14/16	PRELIM PERMIT ISSUE
SGA	6/17/16	PRELIM PERMIT ISSUE
SGA	5/13/16	PRELIM PERMIT ISSUE
SGA	3/30/16	PRELIM PERMIT ISSUE
SGA	3/22/16	PRELIM PERMIT ISSUE



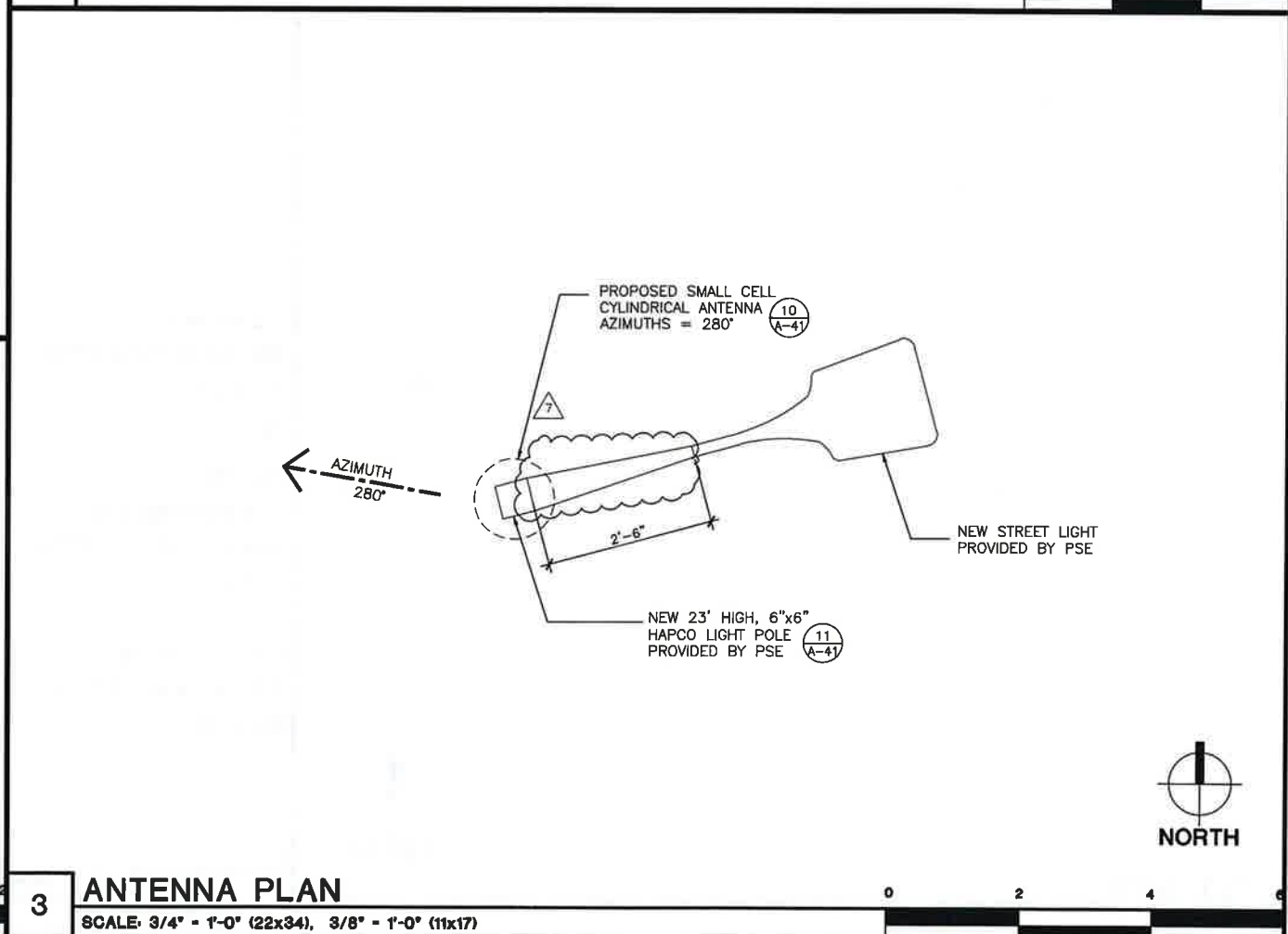
SHEET NAME

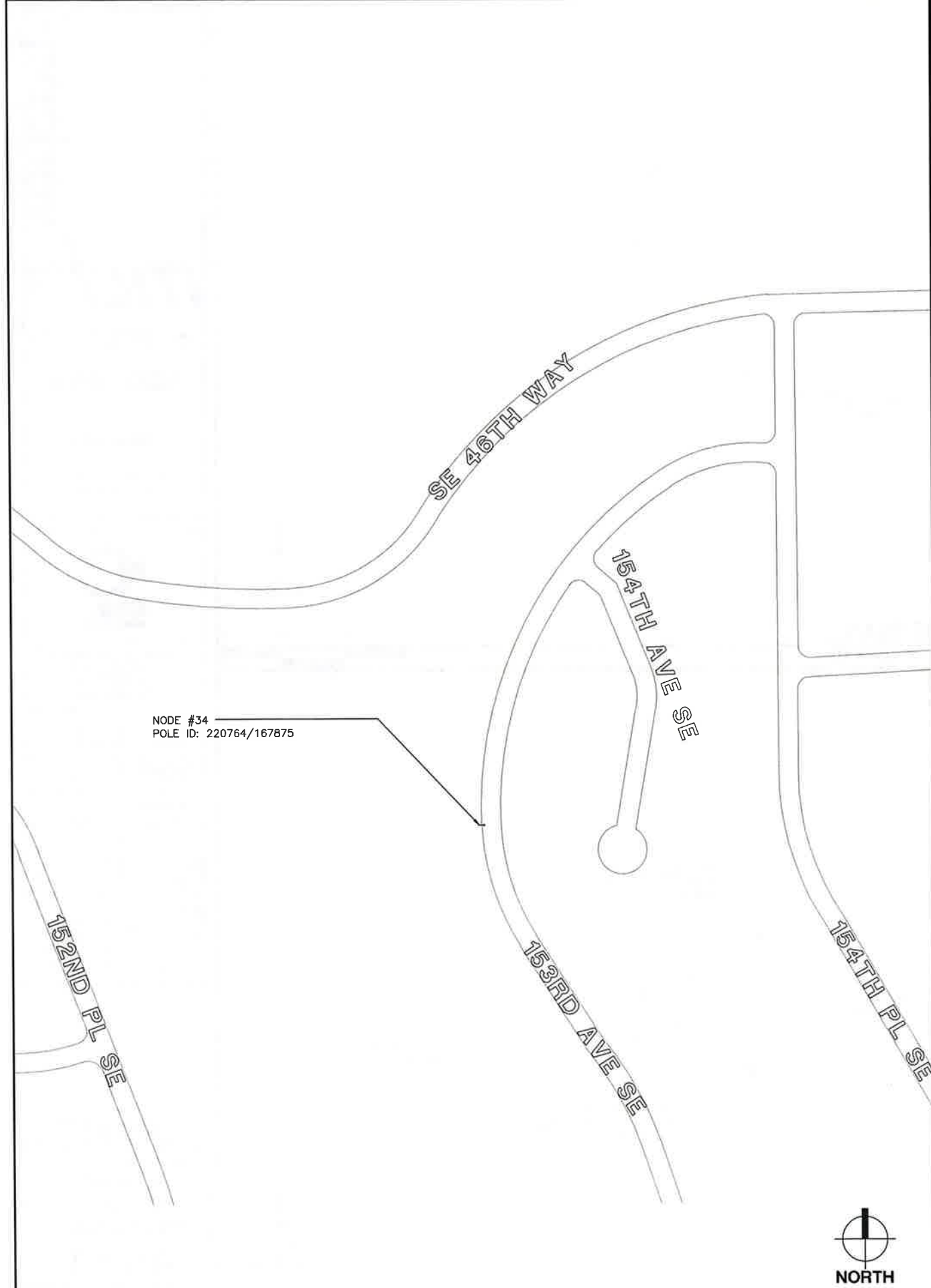
NODE 32
PHOTO SIM

SHEET NUMBER

A-24.0

PROJECT NUMBER
--





1 **NODE 34 VICINITY MAP**
NOT TO SCALE



- (A) Antenna
ANTELL CWT360x08Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L X 5.25 D
WT. TBD

2 **NODE 34 PHOTO SIM**
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
1	GA	11/21/17	PRELIM PERMIT ISSUE
3	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
A	GA	3/22/16	PRELIM PERMIT ISSUE



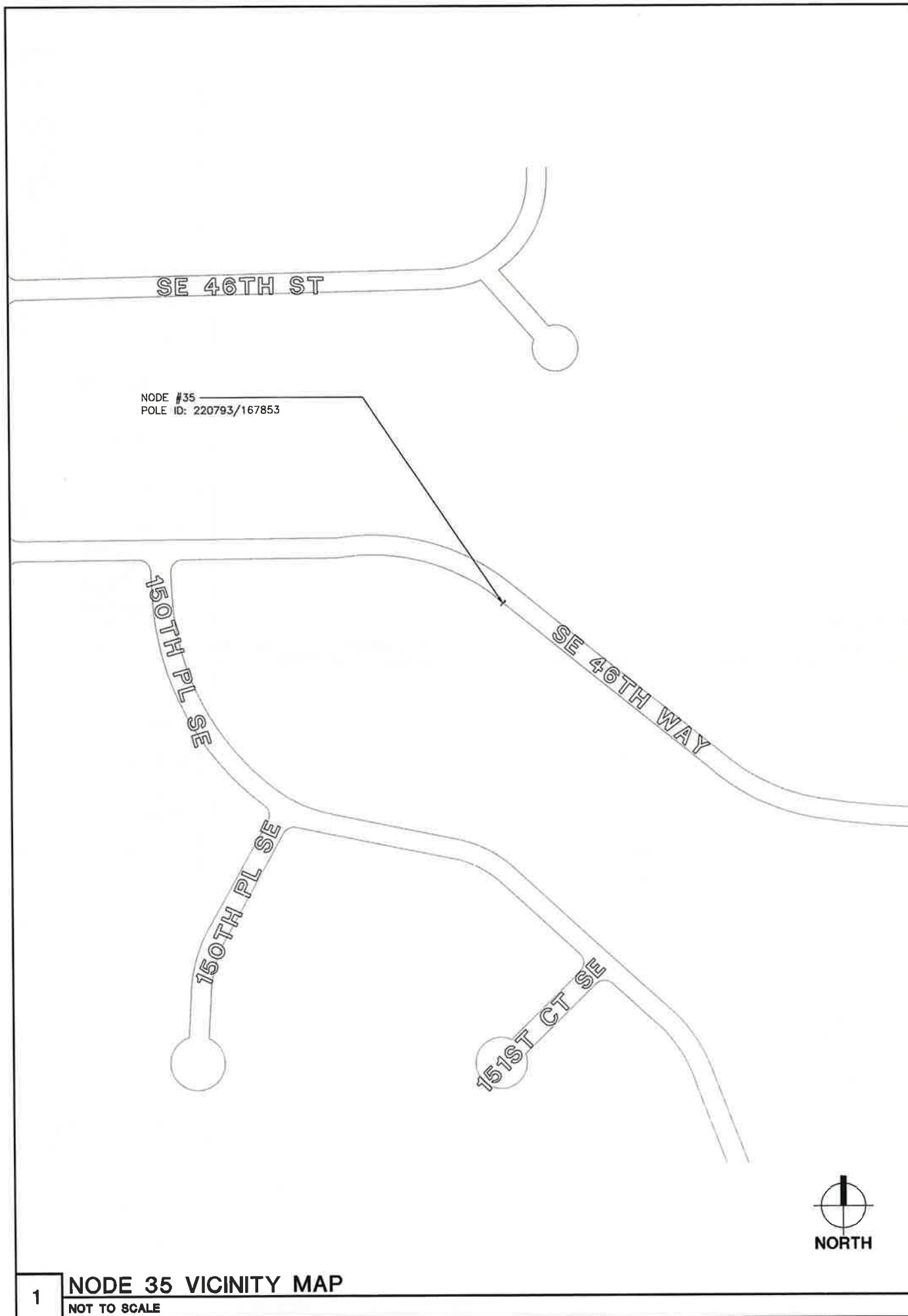
SHEET NAME

NODE 34
PHOTO SIM

SHEET NUMBER

A-25.0

PROJECT NUMBER



- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
20 lbs
- (B) mRRU
ERICSSON Small Cell
7.68 H x 7.68" L x 4.69" D
11 lbs
- (C) Disconnect Box
0.75" H x 0.00 L x 5.25 D
WT. TBD



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS/3/22/18	PRELIM PERMIT ISSUE
1	GA/11/21/17	PRELIM PERMIT ISSUE
1	GA/8/29/17	PRELIM PERMIT ISSUE
1	GA/7/19/17	PRELIM PERMIT ISSUE
1	GA/9/14/16	PRELIM PERMIT ISSUE
1	GA/6/17/16	PRELIM PERMIT ISSUE
1	GA/5/13/16	PRELIM PERMIT ISSUE
1	GA/3/30/16	PRELIM PERMIT ISSUE
1	GA/3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

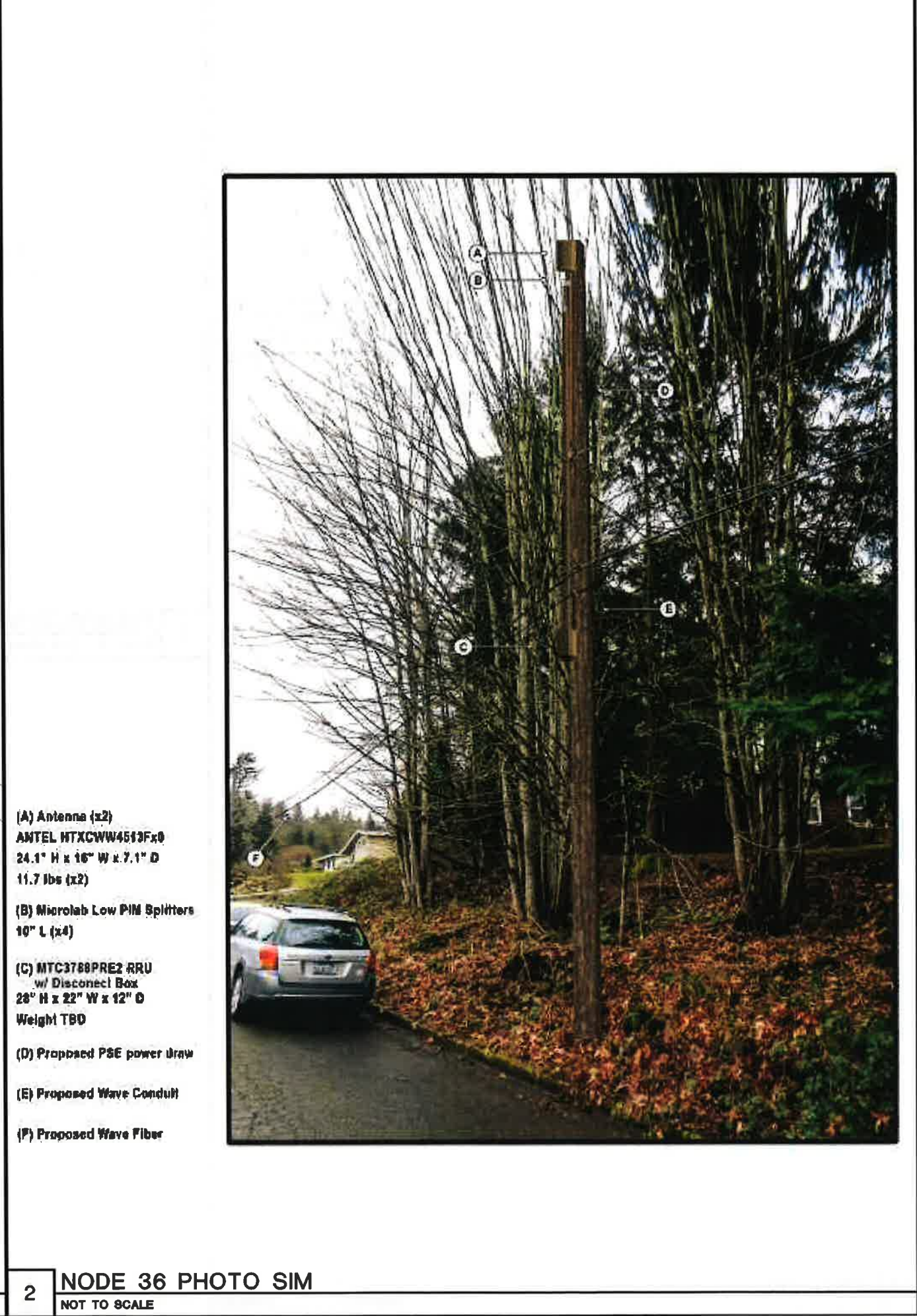
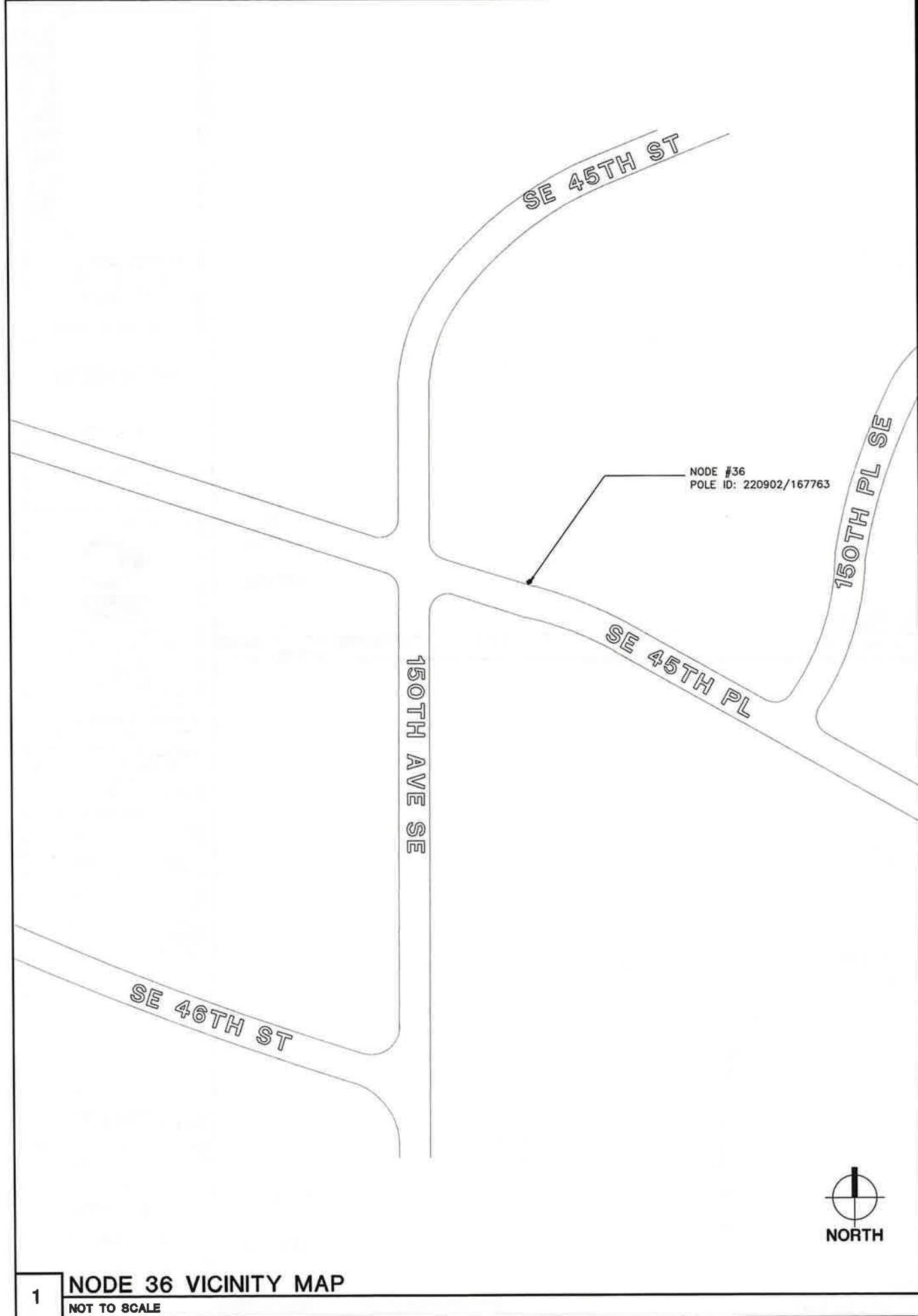
NODE 35
PHOTO SIM

SHEET NUMBER

A-26.0

PROJECT NUMBER

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- (A) Antenna (x2)
ANTEL HTXCWW4513Fx0
24.1" H x 16" W x 7.1" D
11.7 lbs (x2)
- (B) Microlab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
1	GA	11/21/17	PRELIM PERMIT ISSUE
1	GA	8/29/17	PRELIM PERMIT ISSUE
2	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
1	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

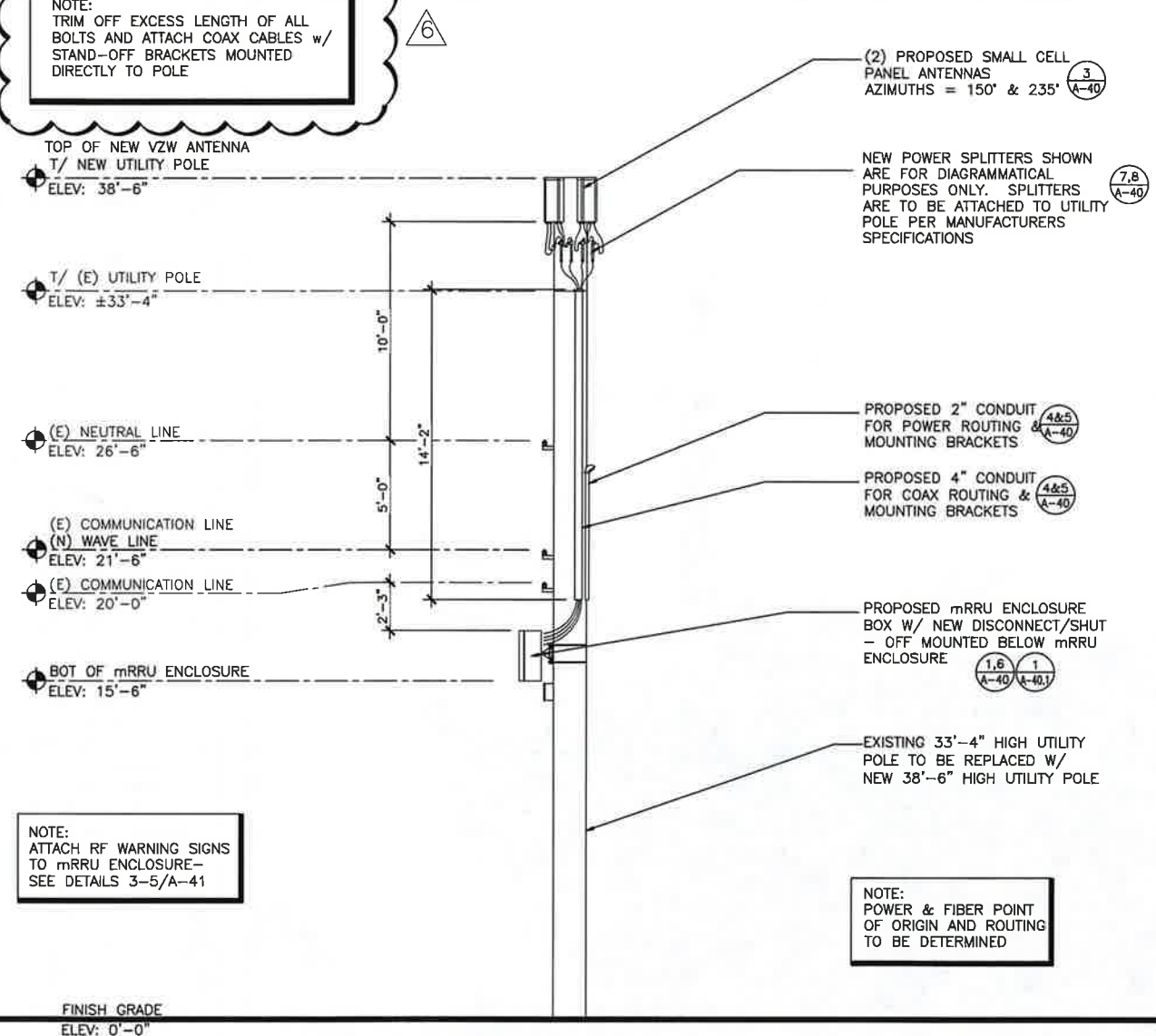
NODE 36
PHOTO SIM

SHEET NUMBER

A-27.0

PROJECT NUMBER

NOTE:
TRIM OFF EXCESS LENGTH OF ALL
BOLTS AND ATTACH COAX CABLES w/
STAND-OFF BRACKETS MOUNTED
DIRECTLY TO POLE



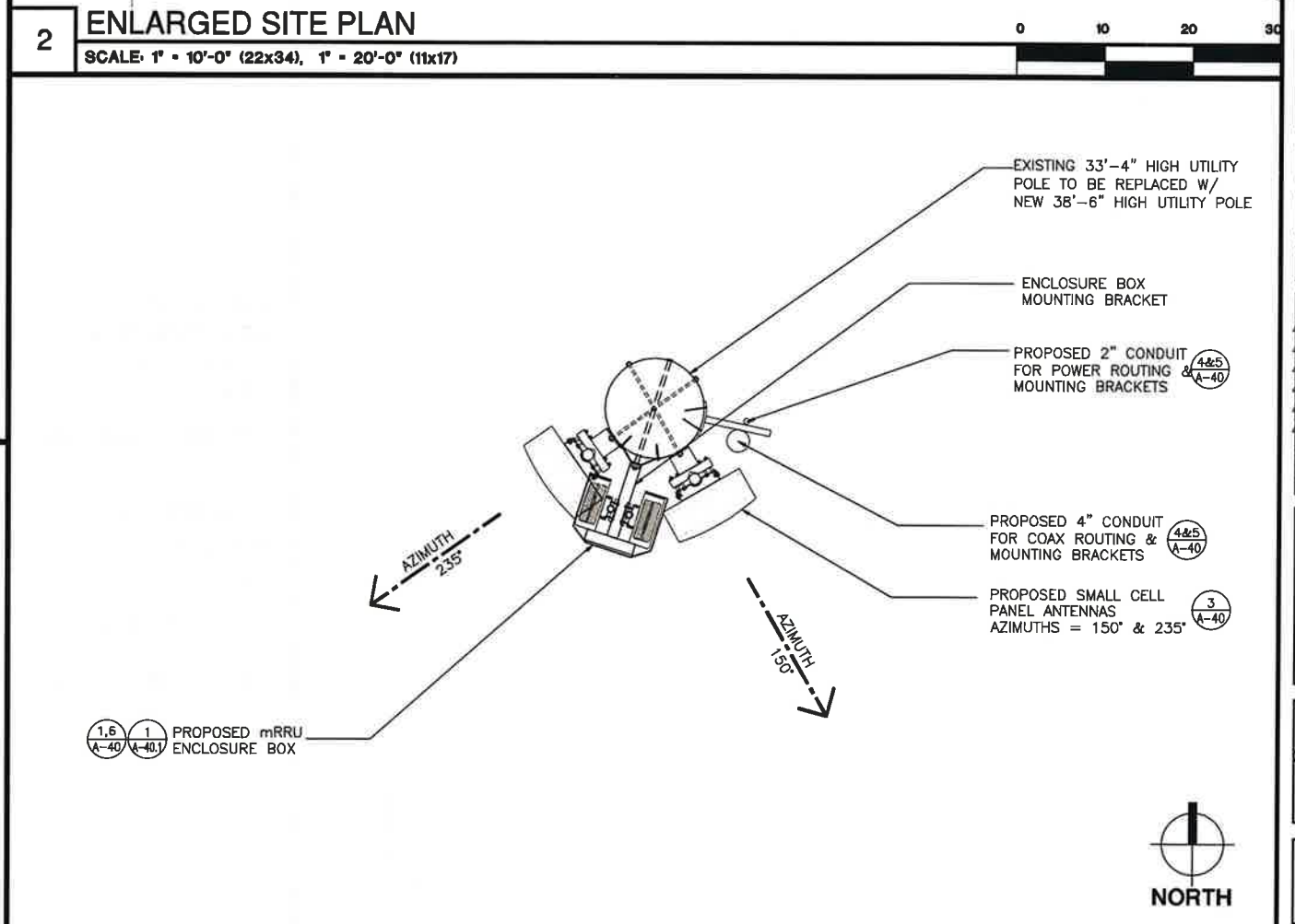
NODE #36
POLE ID: 220902/167763

1 EAST ELEVATION

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

2 ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



3 ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

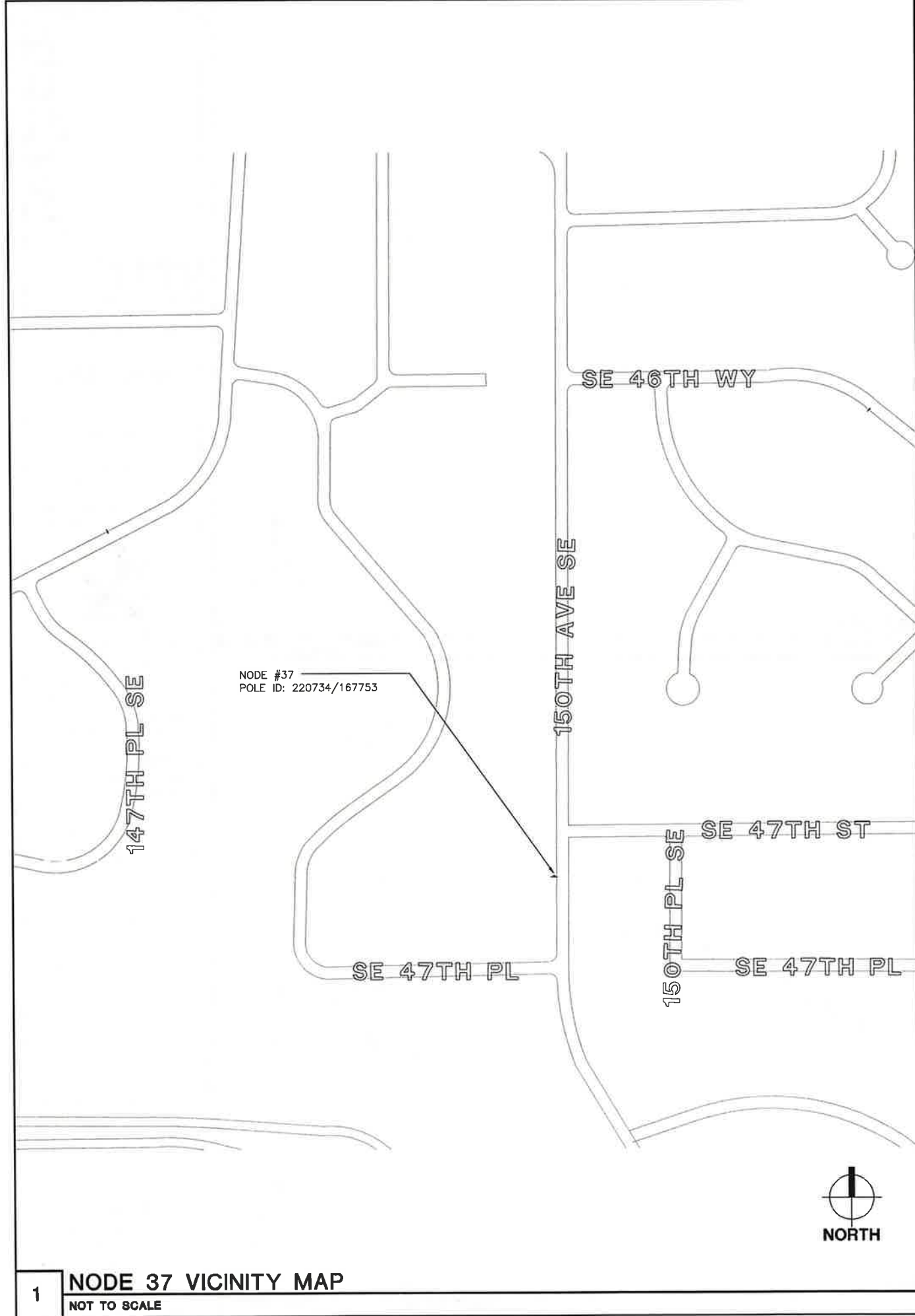
APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
3	GA	11/21/17	PRELIM PERMIT ISSUE
4	GA	8/29/17	PRELIM PERMIT ISSUE
5	GA	7/19/17	PRELIM PERMIT ISSUE
6	GA	9/14/16	PRELIM PERMIT ISSUE
7	GA	6/17/16	PRELIM PERMIT ISSUE
8	GA	5/13/16	PRELIM PERMIT ISSUE
9	GA	3/30/16	PRELIM PERMIT ISSUE
10	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 36 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-27.1

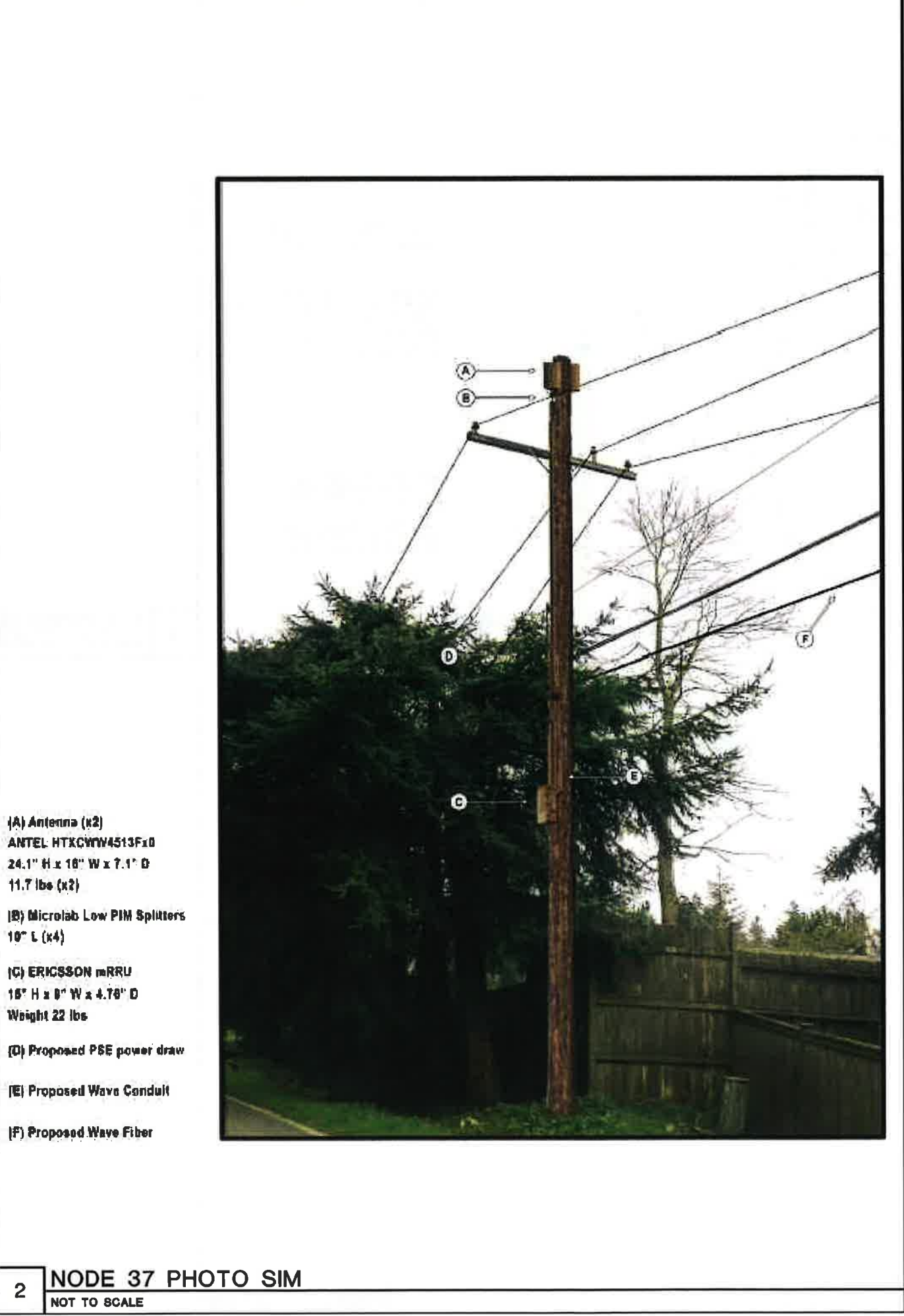
PROJECT NUMBER
--



NODE #37
POLE ID: 220734/167753



1 NODE 37 VICINITY MAP
NOT TO SCALE



- (A) Antenna (x2)
ANTEL HTXCWW4513F10
24.1" H x 18" W x 7.1" D
11.7 lbs (x2)
- (B) Microlab Low PIM Splitters
10" L (x4)
- (C) ERICSSON mRRU
18" H x 8" W x 4.78" D
Weight 22 lbs
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber

2 NODE 37 PHOTO SIM
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA


19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
1	GA	11/21/17	PRELIM PERMIT ISSUE
1	GA	8/29/17	PRELIM PERMIT ISSUE
1	GA	7/19/17	PRELIM PERMIT ISSUE
1	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	5/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
1	GA	3/22/16	PRELIM PERMIT ISSUE



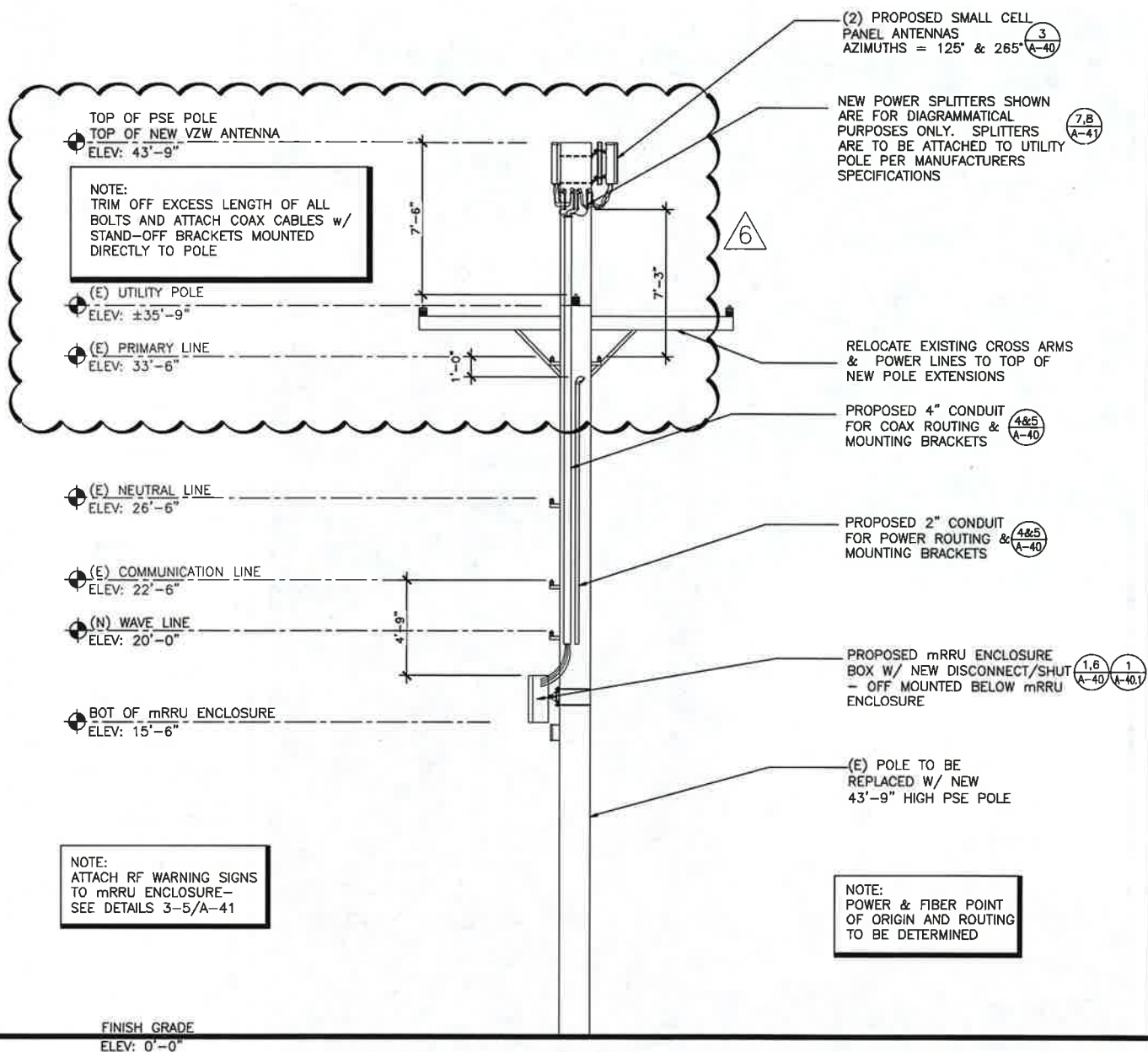
SHEET NAME

NODE 37
PHOTO SIM

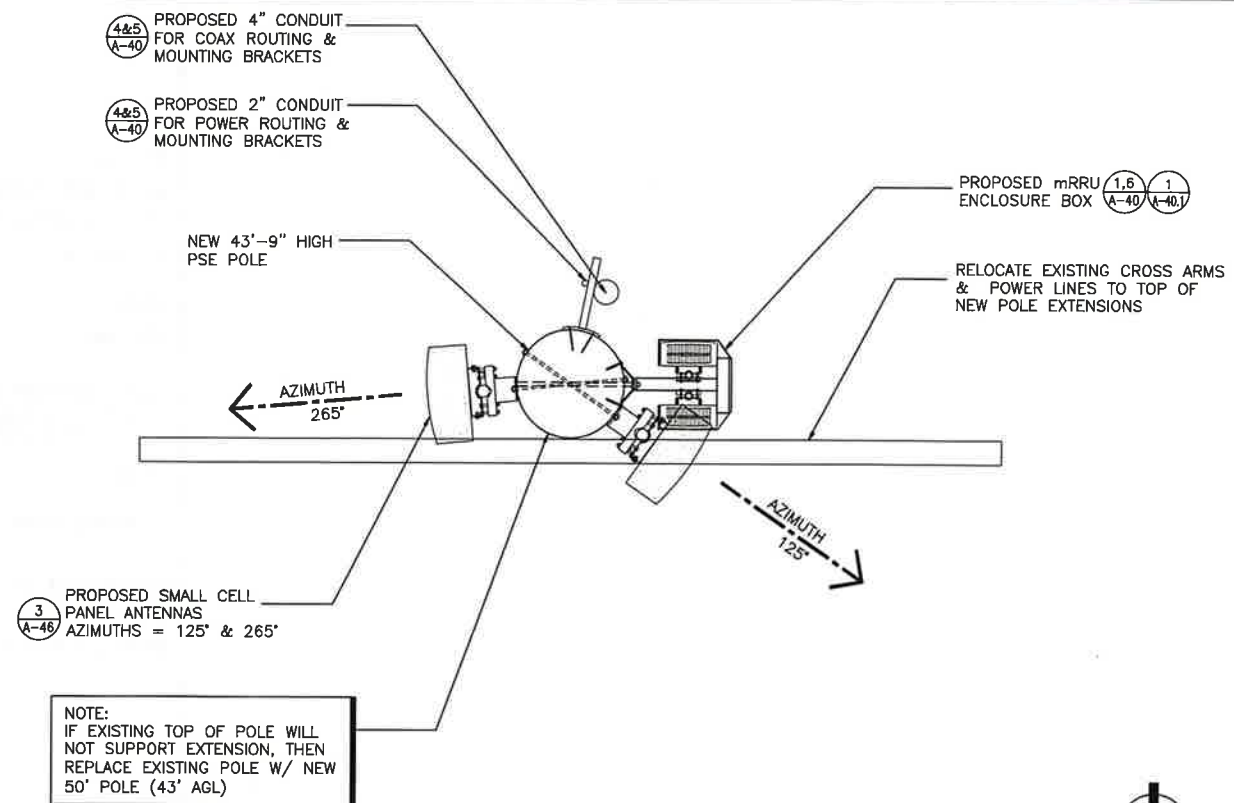
SHEET NUMBER

A-28.0

PROJECT NUMBER
--



2 ENLARGED SITE PLAN
SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



3 ANTENNA PLAN
SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

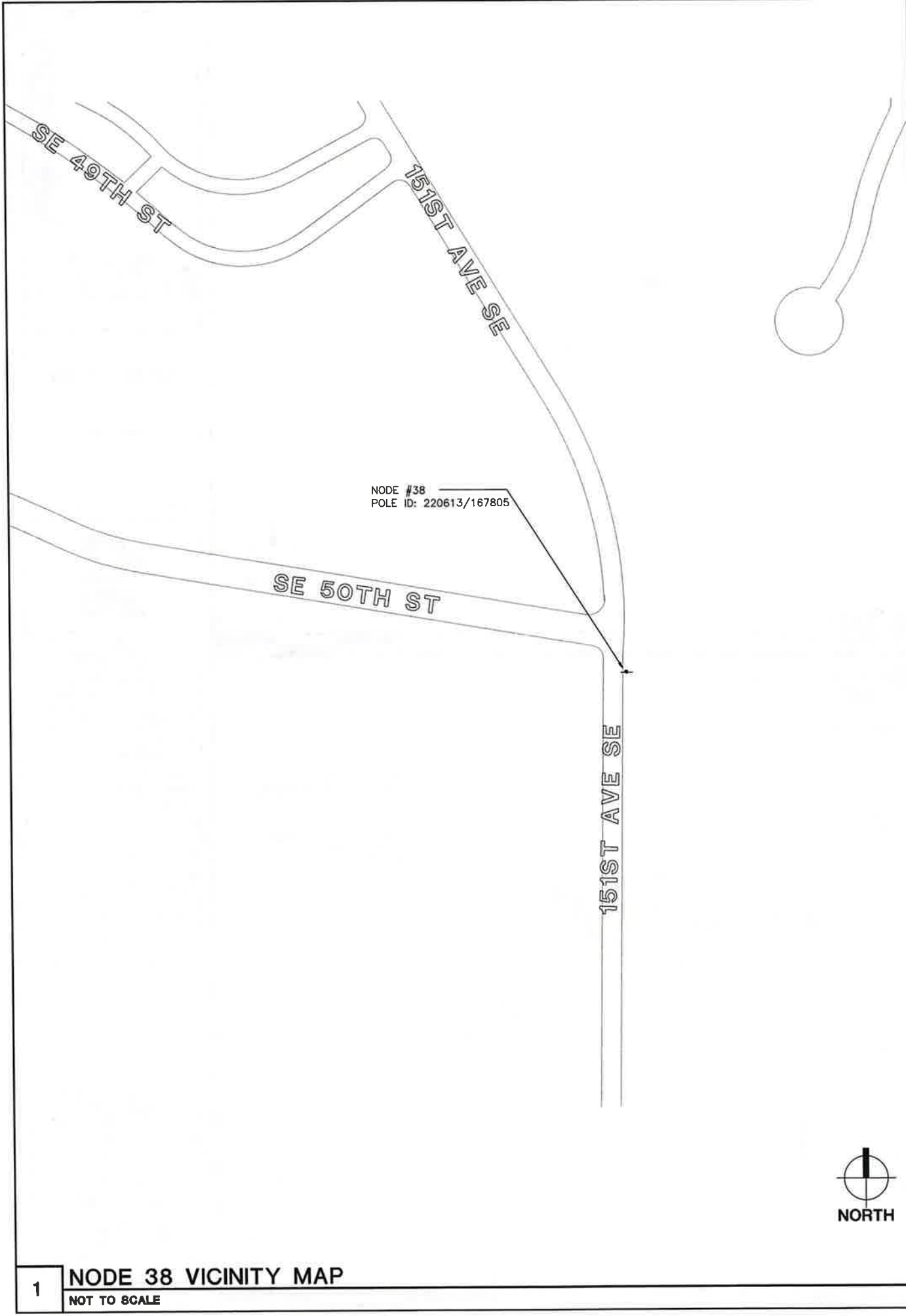
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3/1/18	PRELIM PERMIT ISSUE
3/1/18	PRELIM PERMIT ISSUE
3/1/18	PRELIM PERMIT ISSUE
3/1/18	PRELIM PERMIT ISSUE

SHEET NAME
NODE 37 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-28.1

PROJECT NUMBER

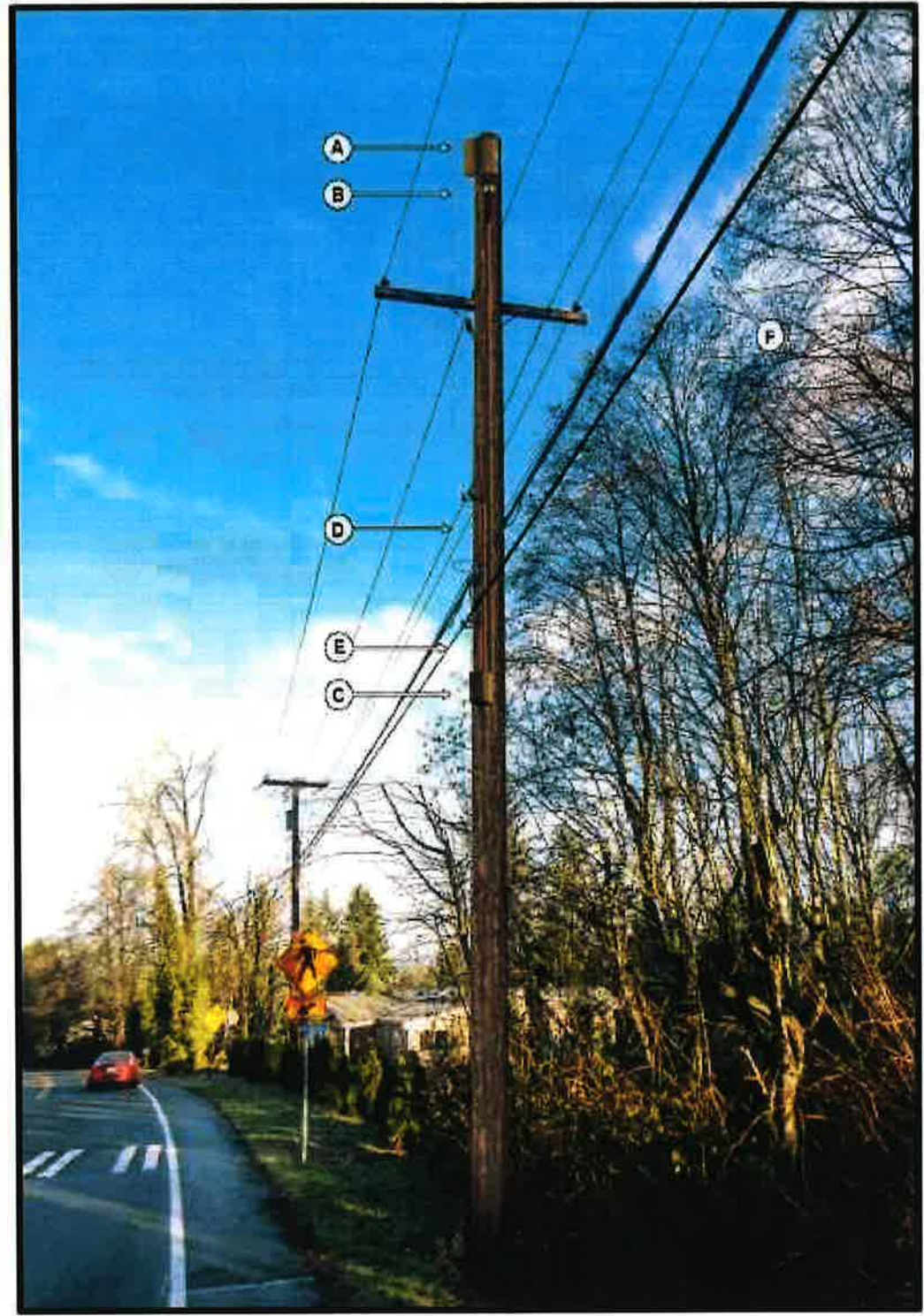


1 NODE 38 VICINITY MAP
NOT TO SCALE

- (A) Antenna (x2)
ANTEL HTXCWW4819Fx0
24.1" H x 18" W x 7.1" D
11.7 lbs (x2)
- (B) Microlab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber



2 NODE 38 PHOTO SIM
NOT TO SCALE



NEWTORIA

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SOUTHEAST BELLEVUE
BELLEVUE, WA



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19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER:		EJC
PREPARED BY:		GA
APPROVED BY:		EJC
1	SS 3/22/18	PRELIM PERMIT ISSUE
2	GA 11/21/17	PRELIM PERMIT ISSUE
3	GA 8/29/17	PRELIM PERMIT ISSUE
4	GA 7/19/17	PRELIM PERMIT ISSUE
5	GA 9/14/16	PRELIM PERMIT ISSUE
6	GA 5/17/16	PRELIM PERMIT ISSUE
7	GA 5/13/16	PRELIM PERMIT ISSUE
8	GA 3/30/16	PRELIM PERMIT ISSUE
9	GA 3/22/16	PRELIM PERMIT ISSUE



SHEET NAME

NODE 38
PHOTO SIM

SHEET NUMBER

A-29.0

PROJECT NUMBER
--

TOP OF NEW VZW ANTENNAS
TOP OF NEW PSE POLE
ELEV: 43'-11"

(E) PRIMARY LINE
TOP (E) UTILITY POLE
ELEV: 35'-11"

(E) NEUTRAL LINE
ELEV: 33'-5"

(E) NEUTRAL LINE
ELEV: 25'-0"

(E) COMMUNICATION LINE
ELEV: 21'-6"

(N) WAVE LINE
ELEV: 21'-0"

BOT OF mRRU ENCLOSURE
ELEV: 15'-6"

NOTE:
ATTACH RF WARNING SIGNS
TO mRRU ENCLOSURE—
SEE DETAILS 3-5/A-41

FINISH GRADE
ELEV: 0'-0"

NODE #38
POLE ID: 220813/187806

(2) PROPOSED SMALL CELL
PANEL ANTENNAS
AZIMUTHS = 180° & 270°

NOTE:
TRIM OFF EXCESS LENGTH OF ALL
BOLTS AND ATTACH COAX CABLES w/
STAND-OFF BRACKETS MOUNTED
DIRECTLY TO POLE

PROPOSED 4" CONDUIT
FOR COAX ROUTING &
MOUNTING BRACKETS

PROPOSED 2" CONDUIT
FOR POWER ROUTING &
MOUNTING BRACKETS

PROPOSED mRRU ENCLOSURE
BOX W/ NEW DISCONNECT/SHUT
— OFF MOUNTED BELOW mRRU
ENCLOSURE

EXISTING PSE POLE TO
BE REPLACED W/
NEW 43' HIGH POLE

NOTE:
POWER & FIBER POINT
OF ORIGIN AND ROUTING
TO BE DETERMINED

2 ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)

EXISTING PSE POLE TO
BE REPLACED W/
NEW 43' HIGH POLE

NOTE:
IF EXISTING TOP OF POLE WILL
NOT SUPPORT EXTENSION, THEN
REPLACE EXISTING POLE W/ NEW
50' POLE (43' AGL)

(1,6)
A-40 (1)
A-40.1 PROPOSED mRRU
ENCLOSURE BOX

(4&5)
A-40 PROPOSED 4" CONDUIT
FOR COAX ROUTING &
MOUNTING BRACKETS

(4&5)
A-40 PROPOSED 2" CONDUIT
FOR POWER ROUTING &
MOUNTING BRACKETS

(3)
A-40 PROPOSED SMALL CELL
PANEL ANTENNAS
AZIMUTHS = 180° & 270°

3 ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



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LYNNWOOD, WA 98036
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FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
1	GA	11/21/17	PRELIM PERMIT ISSUE
1	GA	8/29/17	PRELIM PERMIT ISSUE
1	GA	7/19/17	PRELIM PERMIT ISSUE
1	GA	9/14/16	PRELIM PERMIT ISSUE
1	GA	5/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
1	GA	3/30/16	PRELIM PERMIT ISSUE
1	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 38 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-29.1

PROJECT NUMBER

1

SOUTH ELEVATION

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

3

SE 49TH ST

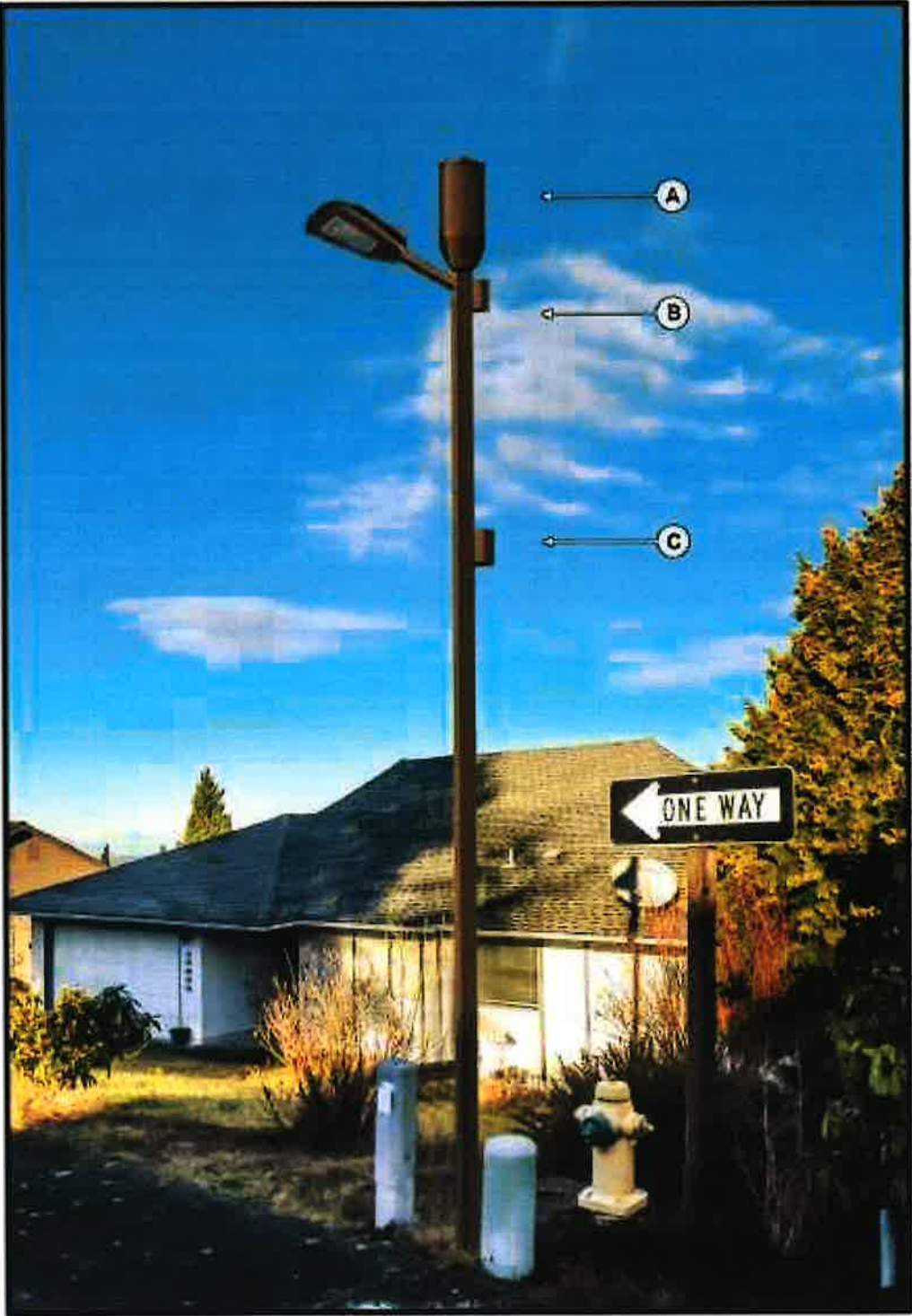
SE 49TH ST

SE 50TH ST

NODE #39
POLE ID: 220699/167663



- (A) Antenna
ANTELL CWT360x06FxD
24" H x 14" W
26 lbs
- (B) mRRU
ERICSSON Small Cell
7.68 H x 7.68" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD



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LYNNWOOD, WA 98036
CELL: (425) 280-0051
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

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1	GA	11/21/17	PRELIM PERMIT ISSUE
1	GA	8/29/17	PRELIM PERMIT ISSUE
1	CA	7/19/17	PRELIM PERMIT ISSUE
1	GA	9/14/16	PRELIM PERMIT ISSUE
1	GA	6/17/16	PRELIM PERMIT ISSUE
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1	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

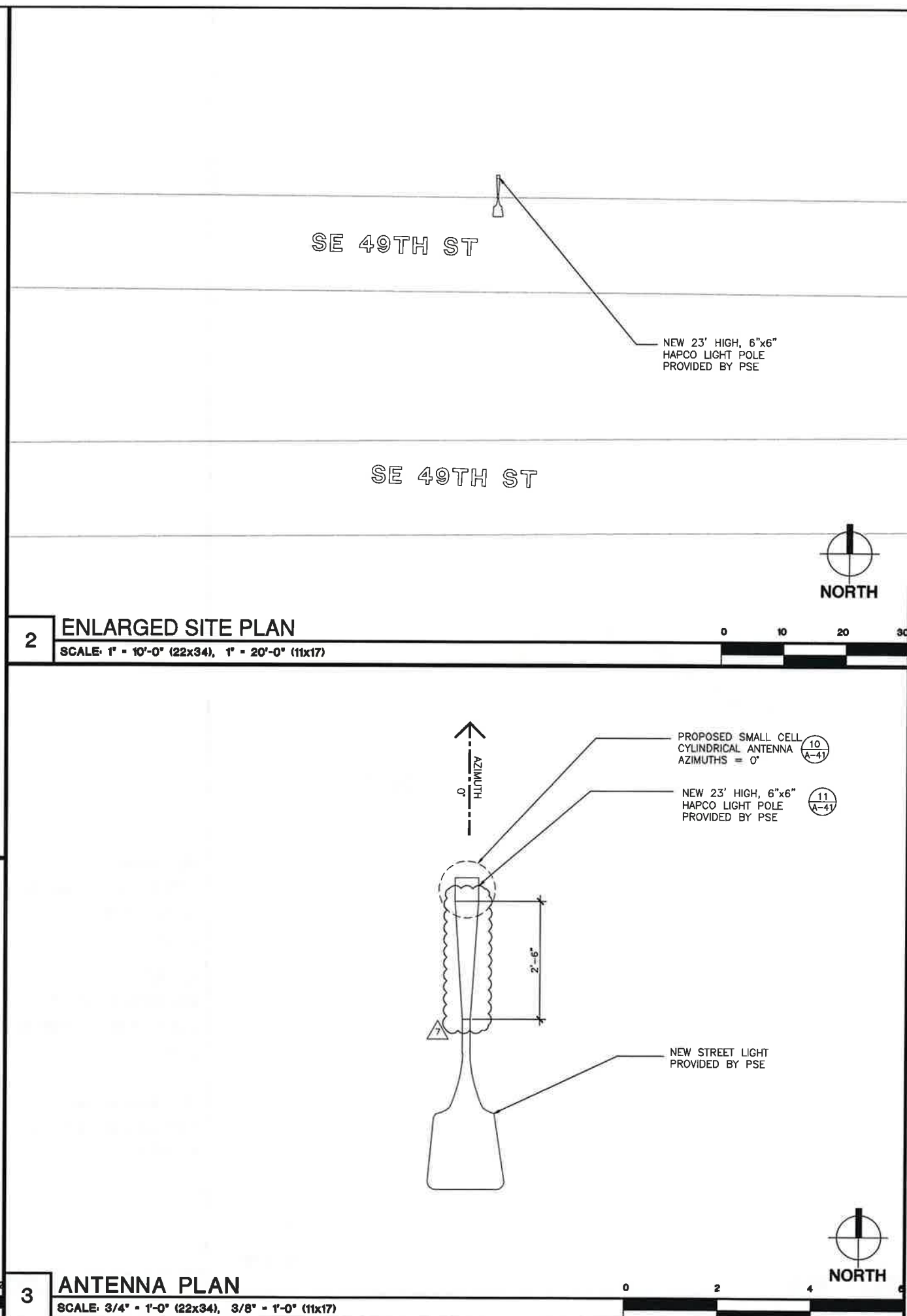
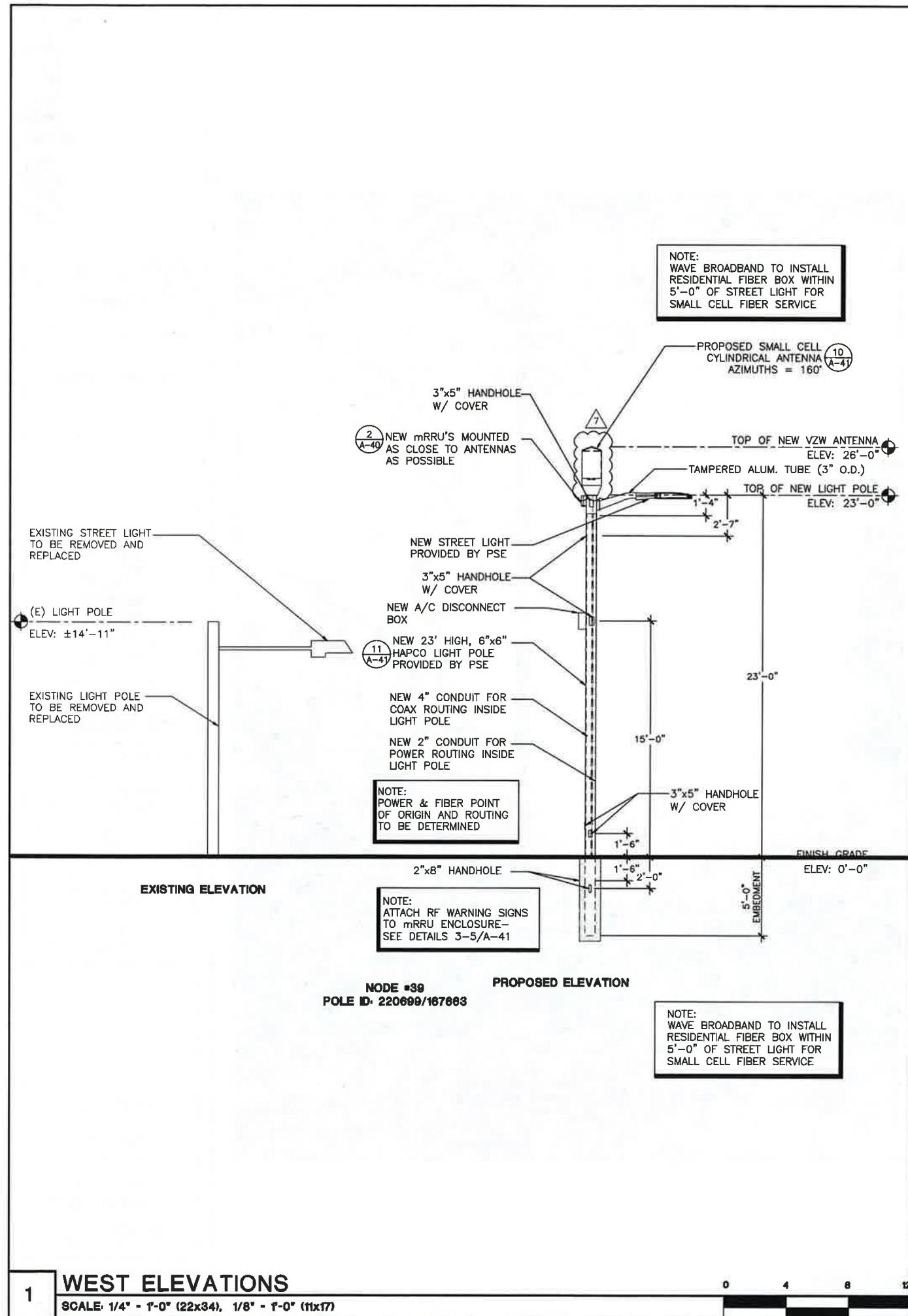
NODE 39
PHOTO SIM

SHEET NUMBER

A-30.0

PROJECT NUMBER

--



verizon
md7

NEWTORIA
(SMALL CELL)
SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+ ASSOCIATES
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8661
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

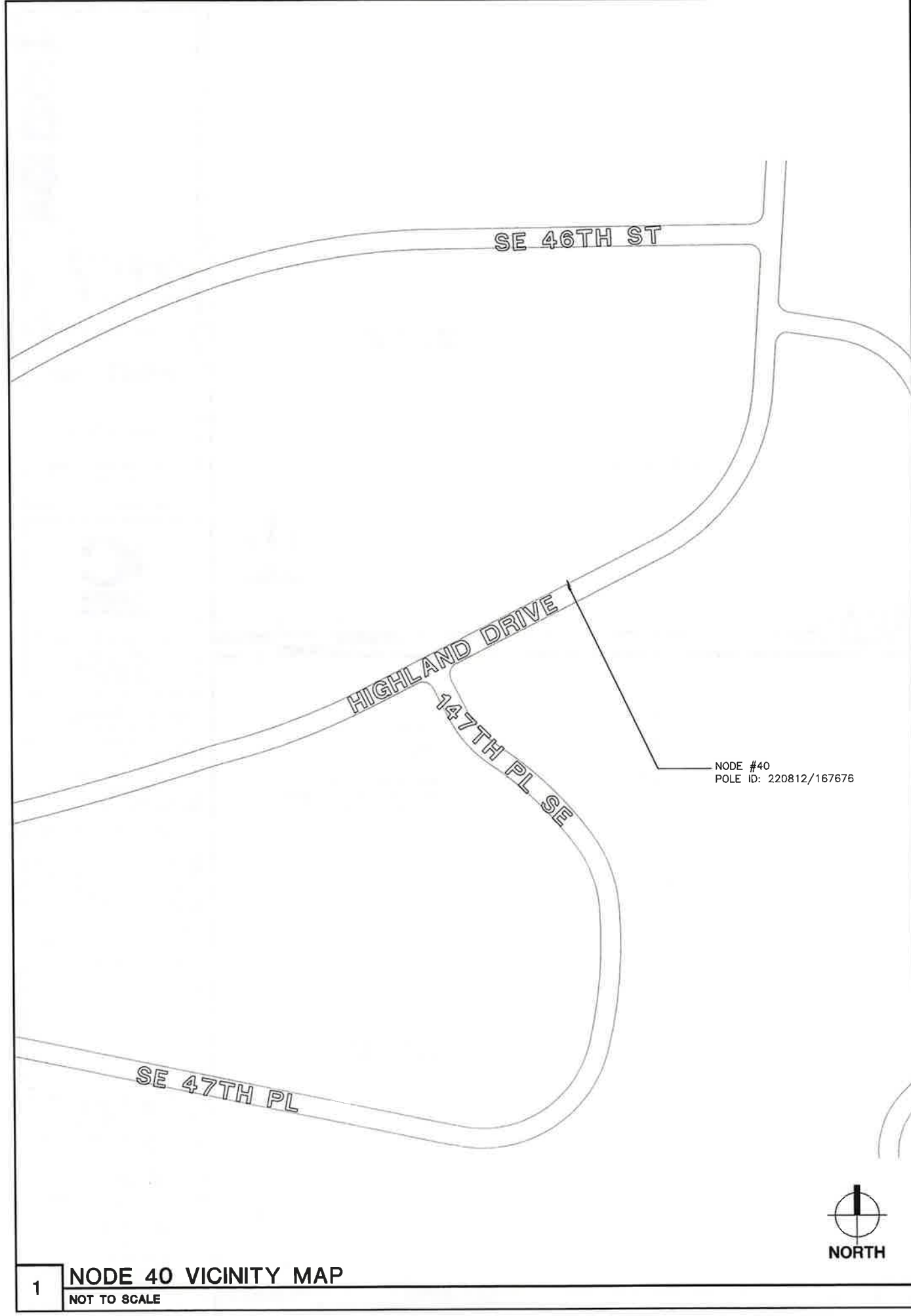
PROJECT MANAGER: EJC
PREPARED BY: GA
APPROVED BY: EJC

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GA	7/19/17	PRELIM PERMIT ISSUE
GA	9/14/16	PRELIM PERMIT ISSUE
GA	6/17/16	PRELIM PERMIT ISSUE
GA	5/13/16	PRELIM PERMIT ISSUE
GA	3/30/16	PRELIM PERMIT ISSUE
GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 39 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-30.1

PROJECT NUMBER
--



1 **NODE 40 VICINITY MAP**
NOT TO SCALE



- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD

2 **NODE 40 PHOTO SIM**
NOT TO SCALE



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BELLEVUE, WA

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT ISSUE
SGA	11/21/17	PRELIM PERMIT ISSUE
SGA	3/29/17	PRELIM PERMIT ISSUE
SGA	7/19/17	PRELIM PERMIT ISSUE
SGA	9/14/16	PRELIM PERMIT ISSUE
SGA	5/17/16	PRELIM PERMIT ISSUE
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A/GA	3/22/16	PRELIM PERMIT ISSUE



SHEET NAME

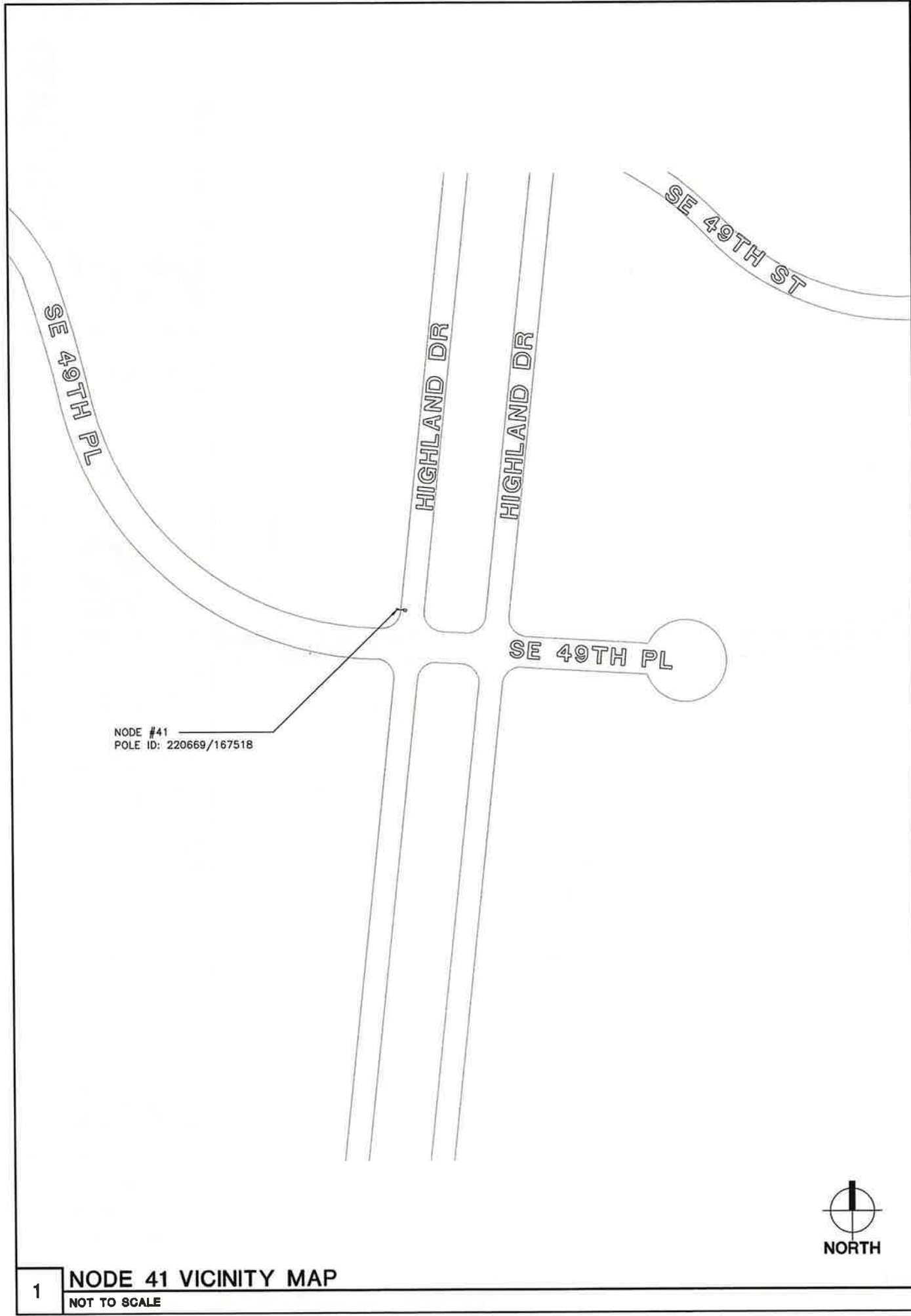
NODE 40
PHOTO SIM

SHEET NUMBER

A-31.0

PROJECT NUMBER





1 **NODE 41 VICINITY MAP**
NOT TO SCALE



- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.66 H x 7.66" L x 4.66" D
11 lbs
- (C) Disconnect Box
Ø.75" H x 9.00 L X 5.25 D
WT. TBD

2 **NODE 41 PHOTO SIM**
NOT TO SCALE



NEWTORIA

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BELLEVUE, WA

CAMP+ ASSOCIATES
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-9651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

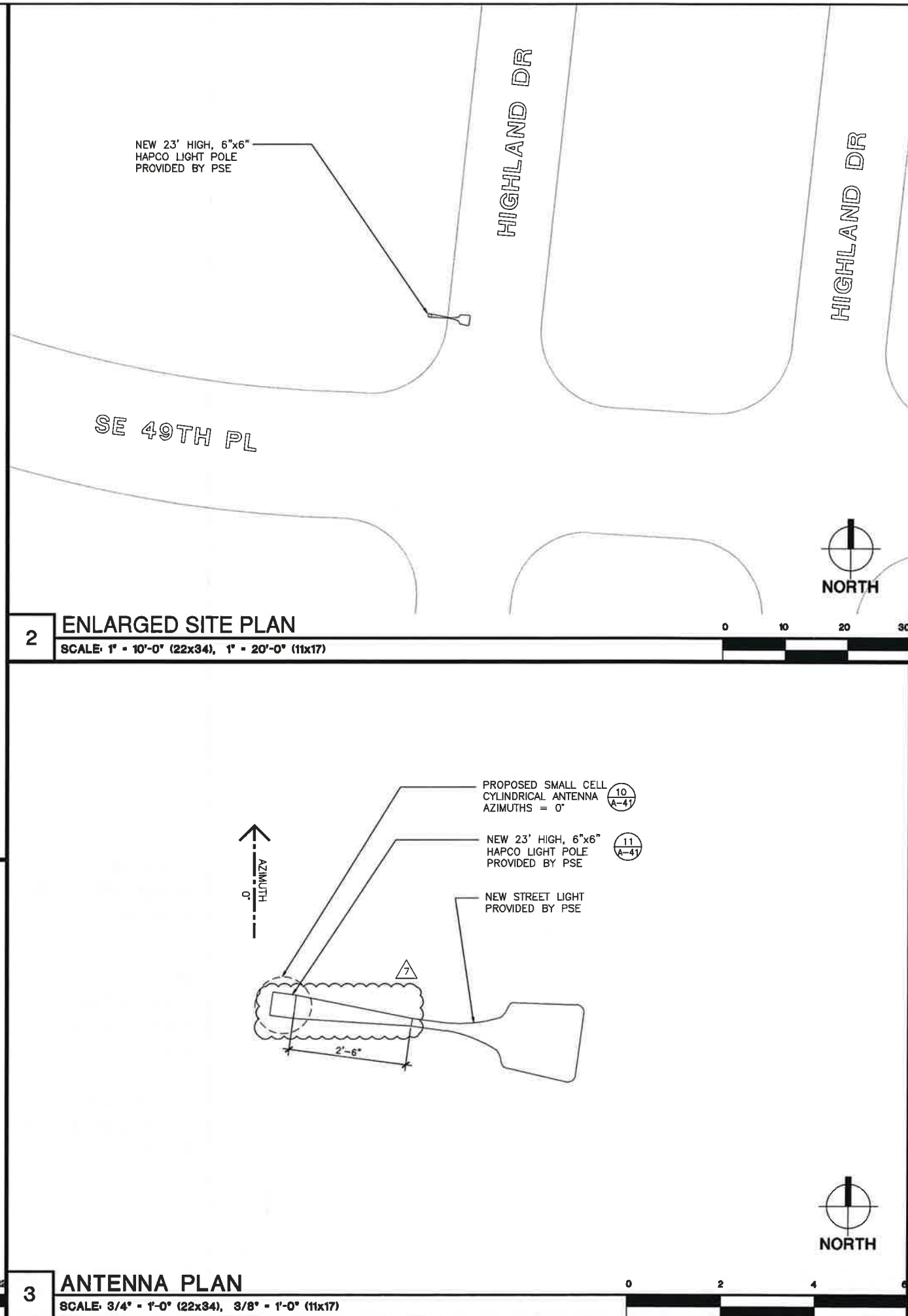
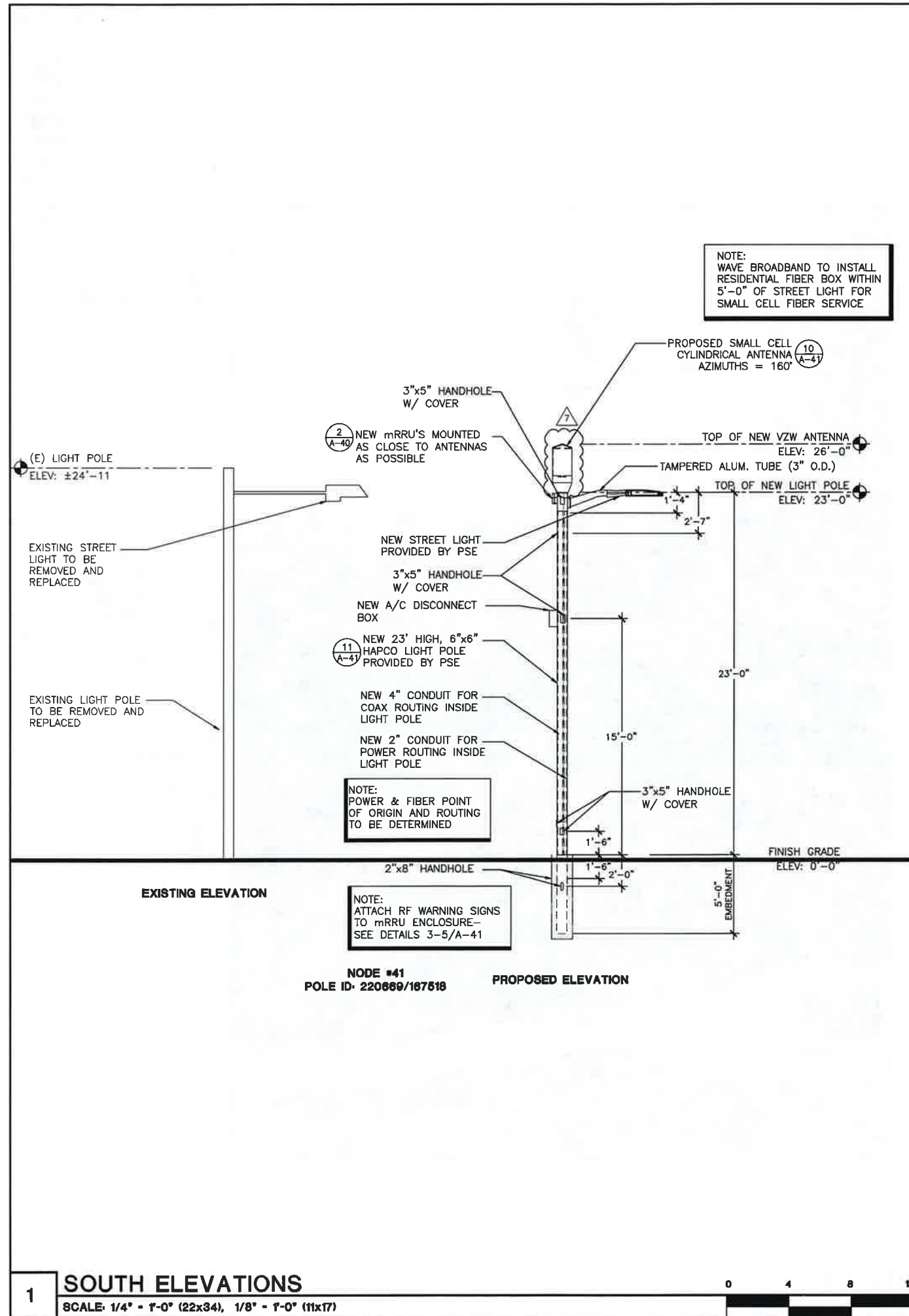
APPROVED BY: EJC

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8/11/17	PRELIM PERMIT ISSUE
8/29/17	PRELIM PERMIT ISSUE
7/19/17	PRELIM PERMIT ISSUE
9/14/16	PRELIM PERMIT ISSUE
6/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
5/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 41
PHOTO SIM

SHEET NUMBER
A-32.0

PROJECT NUMBER



verizon
mcd

NEWTORIA
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SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+ ASSOCIATES
19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC
PREPARED BY: GA
APPROVED BY: EJC

DATE	DESCRIPTION
7/25/18	PRELIM PERMIT ISSUE
8/11/17	PRELIM PERMIT ISSUE
8/29/17	PRELIM PERMIT ISSUE
7/19/17	PRELIM PERMIT ISSUE
9/14/16	PRELIM PERMIT ISSUE
6/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 41 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-32.1

PROJECT NUMBER



NODE #42
POLE ID: 220575/167494



1 **NODE 42 VICINITY MAP**
NOT TO SCALE

- (A) Antenna
ANTELL CWT360x06Fx0
24" H x 14" W
28 lbs
- (B) mRRU
ERICSSON Small Cell
7.88 H x 7.88" L x 4.69" D
11 lbs
- (C) Disconnect Box
9.75" H x 9.00 L x 5.25 D
WT. TBD

2 **NODE 42 PHOTO SIM**
NOT TO SCALE



NEWTORIA

(SMALL CELL)

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ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

2	SS	3/22/18	PRELIM PERMIT ISSUE
1	GA	11/21/17	PRELIM PERMIT ISSUE
1	GA	8/29/17	PRELIM PERMIT ISSUE
1	GA	7/19/17	PRELIM PERMIT ISSUE
1	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
1	GA	3/22/16	PRELIM PERMIT ISSUE



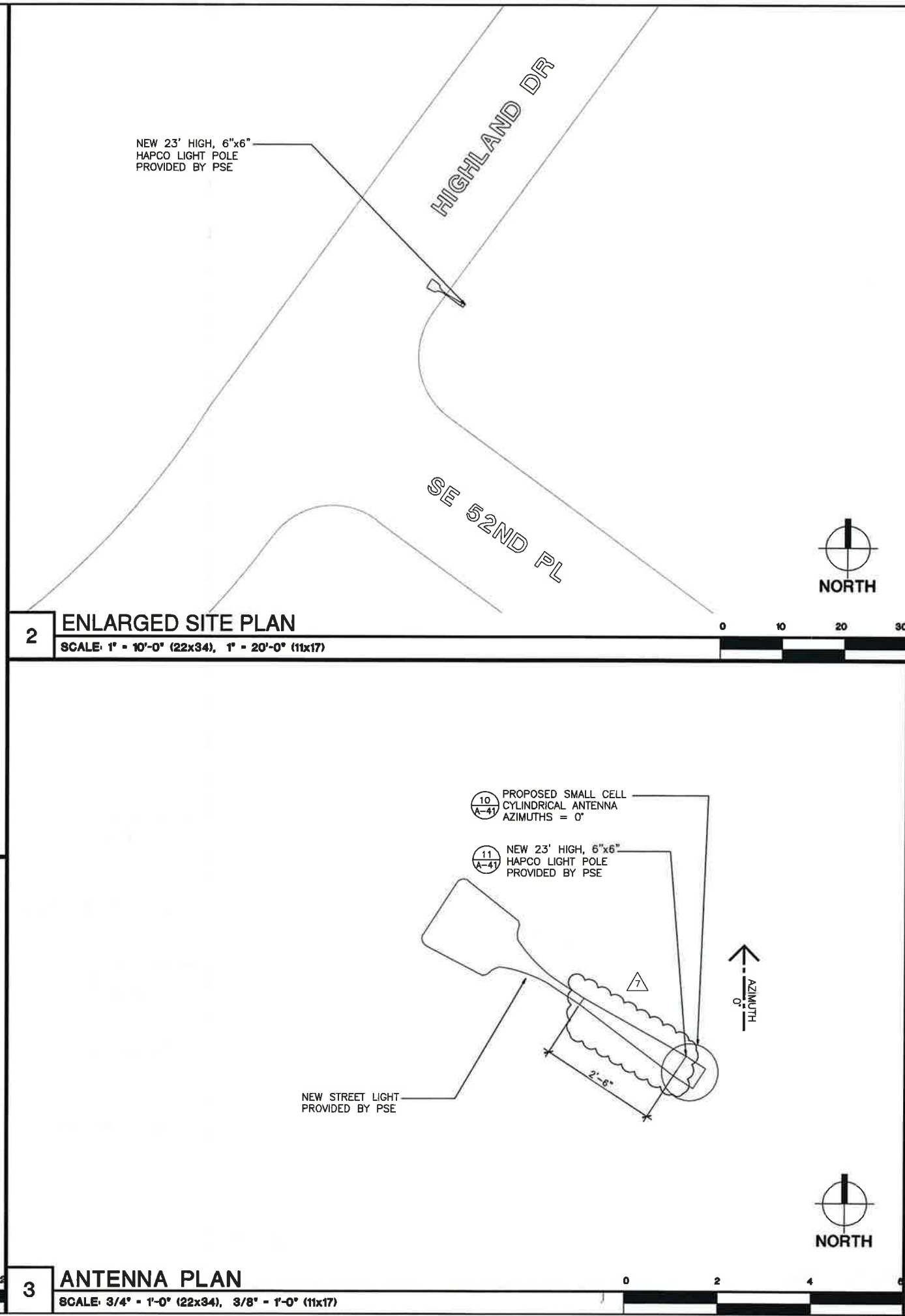
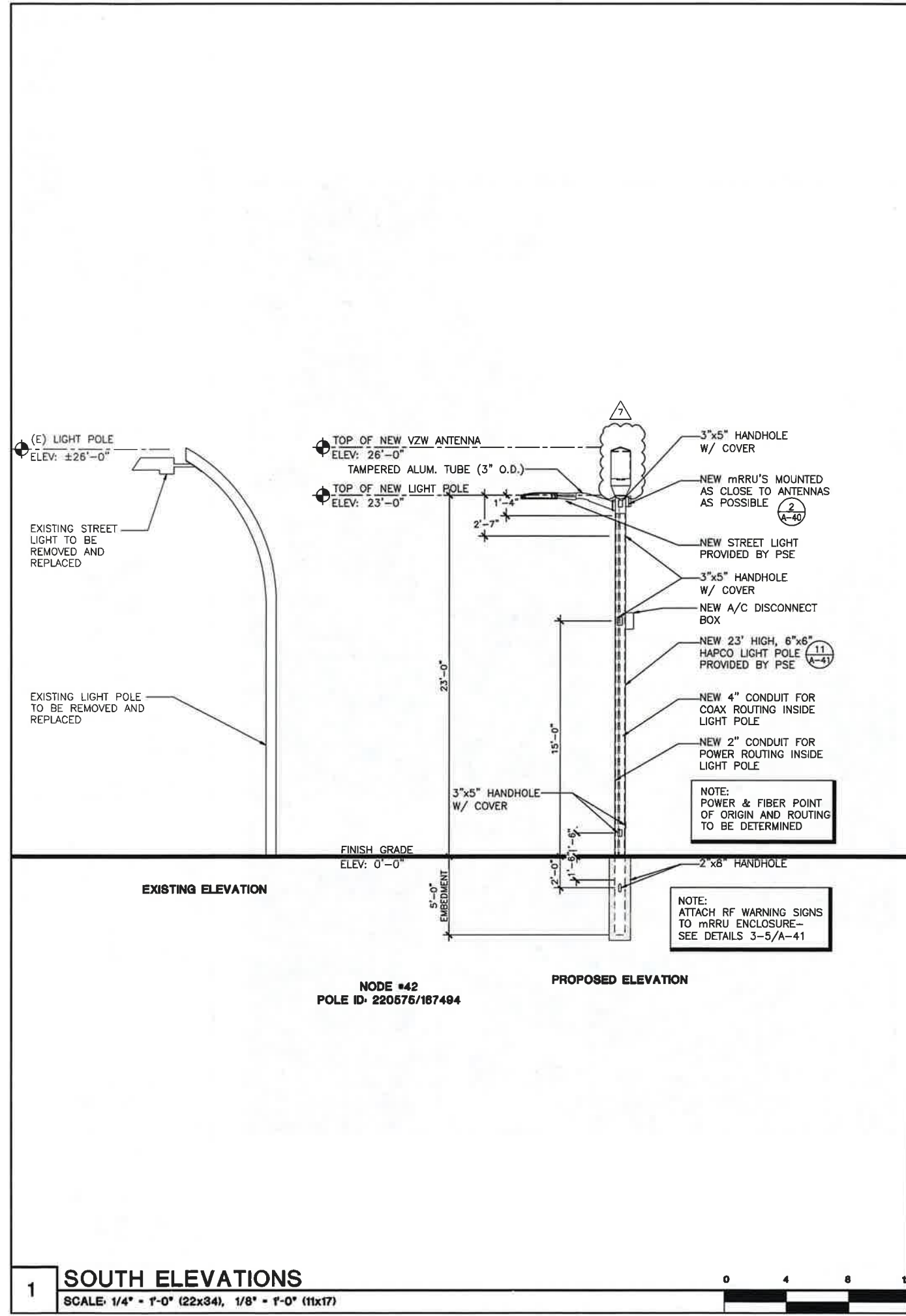
SHEET NAME

NODE 42
PHOTO SIM

SHEET NUMBER

A-33.0

PROJECT NUMBER
--





NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER:		EJC
PREPARED BY:		GA
APPROVED BY:		EJC
1	GA 3/22/18	PRELIM PERMIT ISSUE
2	GA 11/21/17	PRELIM PERMIT ISSUE
3	GA 8/29/17	PRELIM PERMIT ISSUE
4	GA 7/19/17	PRELIM PERMIT ISSUE
5	GA 9/14/16	PRELIM PERMIT ISSUE
6	GA 5/17/16	PRELIM PERMIT ISSUE
7	GA 5/13/16	PRELIM PERMIT ISSUE
8	GA 3/30/16	PRELIM PERMIT ISSUE
9	GA 3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 42 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-33.1

PROJECT NUMBER
--



NODE #44
POLE ID: 221073/167594



- (A) Antenna (x2)
ANTEL HTXCWW4513F#0
24.1" H x 16" W x 7.1" D
11.7 lbs (x2)
- (B) MicroLab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber



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BELLEVUE, WA



CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER:			EJC
PREPARED BY:			GA
APPROVED BY:			EJC
2/25/18	PRELIM PERMIT ISSUE		
3/11/17	PRELIM PERMIT ISSUE		
3/29/17	PRELIM PERMIT ISSUE		
7/19/17	PRELIM PERMIT ISSUE		
9/14/16	PRELIM PERMIT ISSUE		
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5/13/16	PRELIM PERMIT ISSUE		
5/30/16	PRELIM PERMIT ISSUE		
5/22/16	PRELIM PERMIT ISSUE		

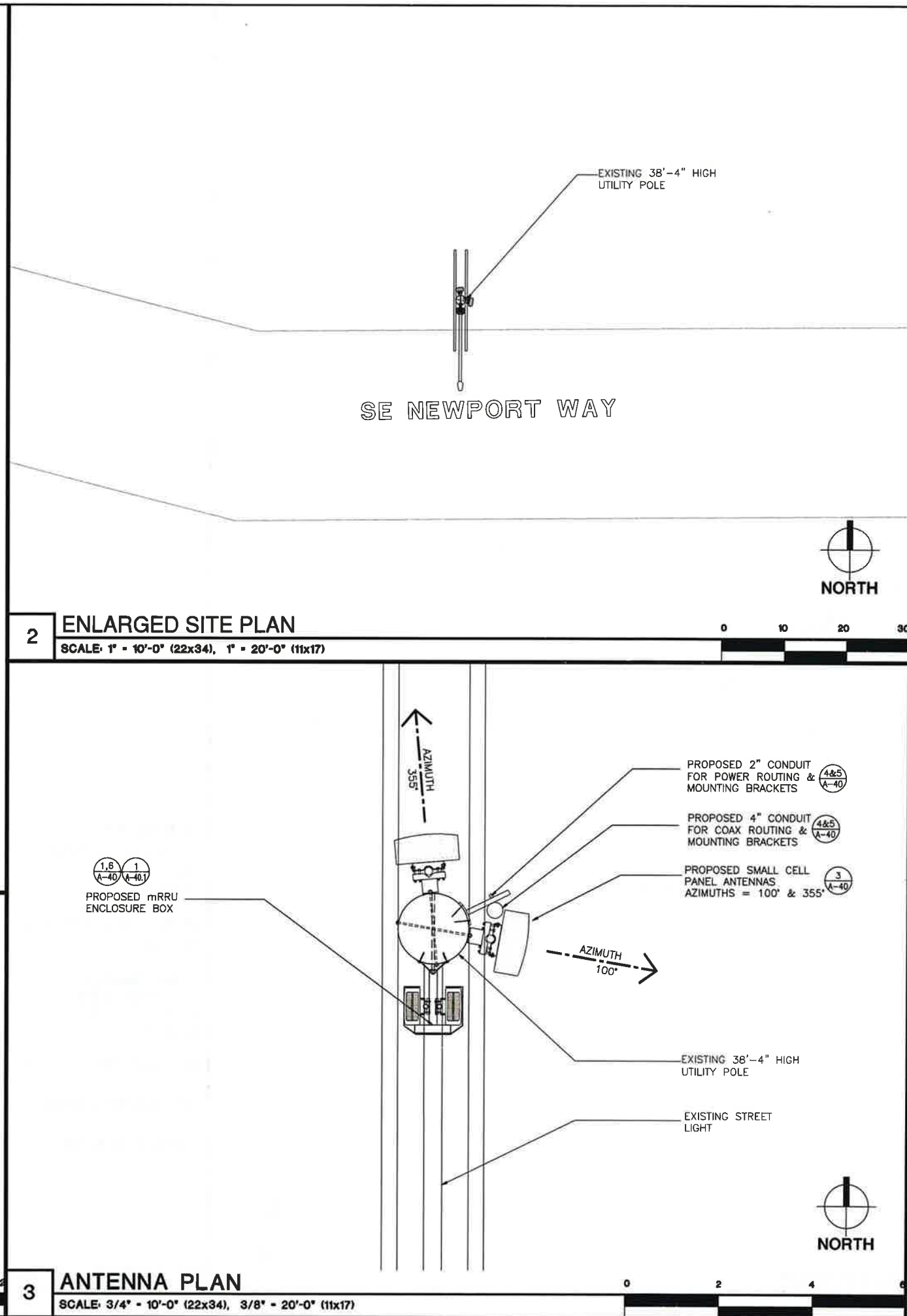
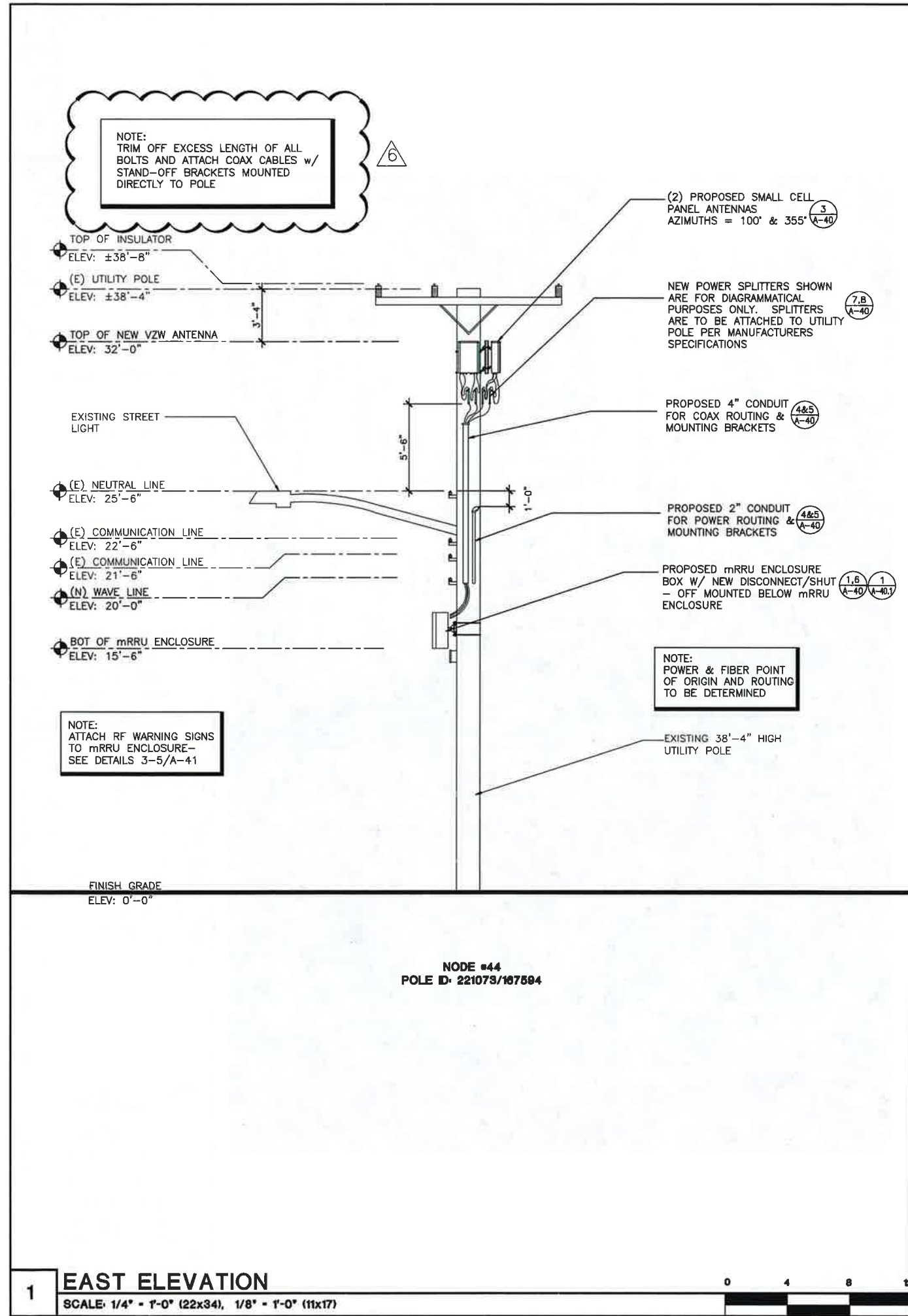
SHEET NAME

NODE 44
PHOTO SIM

SHEET NUMBER

A-34.0

PROJECT NUMBER
--





NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA


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FAX: (425) 224-1614
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PROJECT MANAGER: EJC

PREPARED BY: GA

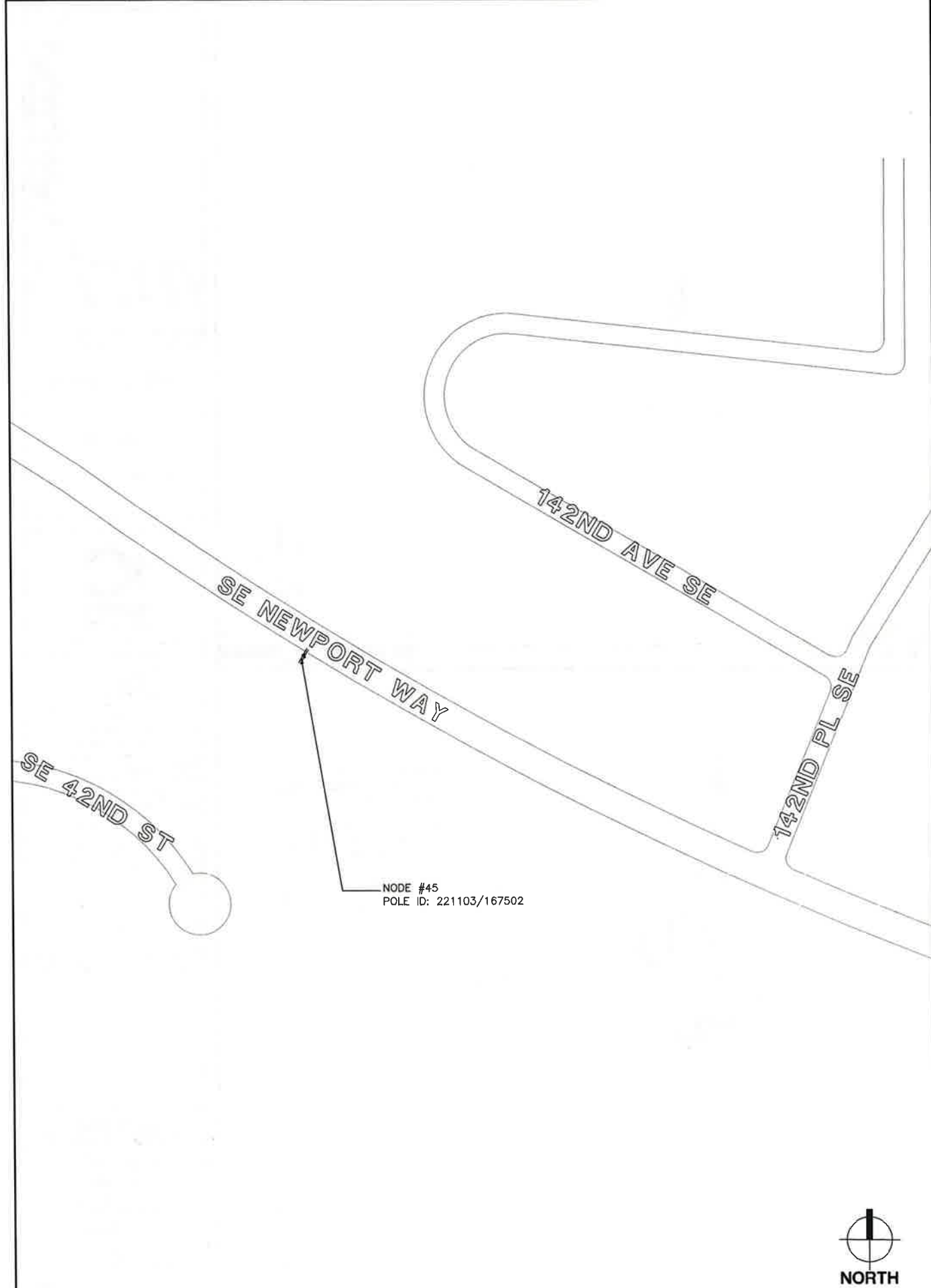
APPROVED BY: EJC

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8/29/17	PRELIM PERMIT ISSUE
7/19/17	PRELIM PERMIT ISSUE
9/14/16	PRELIM PERMIT ISSUE
5/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 44 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-34.1

PROJECT NUMBER



NODE #45
POLE ID: 221103/167502



- (A) Antenna (x2)
ANTEL HTXCWN4513Fx0
24.1' H x 16" W x 7.1" D
11.7 lbs (x2)
- (B) Microtab Low PIM Splitters
10" L (x4)
- (C) MTC3788PRE2 RRU
w/ Disconnect Box
28" H x 22" W x 12" D
Weight TBD
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber



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CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER:		EJC
PREPARED BY:		GA
APPROVED BY:		EJC
ISS	3/22/18	PRELIM PERMIT ISSUE
SCA	11/21/17	PRELIM PERMIT ISSUE
SCA	3/29/17	PRELIM PERMIT ISSUE
SCA	7/19/17	PRELIM PERMIT ISSUE
SCA	9/14/16	PRELIM PERMIT ISSUE
SCA	5/17/16	PRELIM PERMIT ISSUE
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SCA	3/22/16	PRELIM PERMIT ISSUE



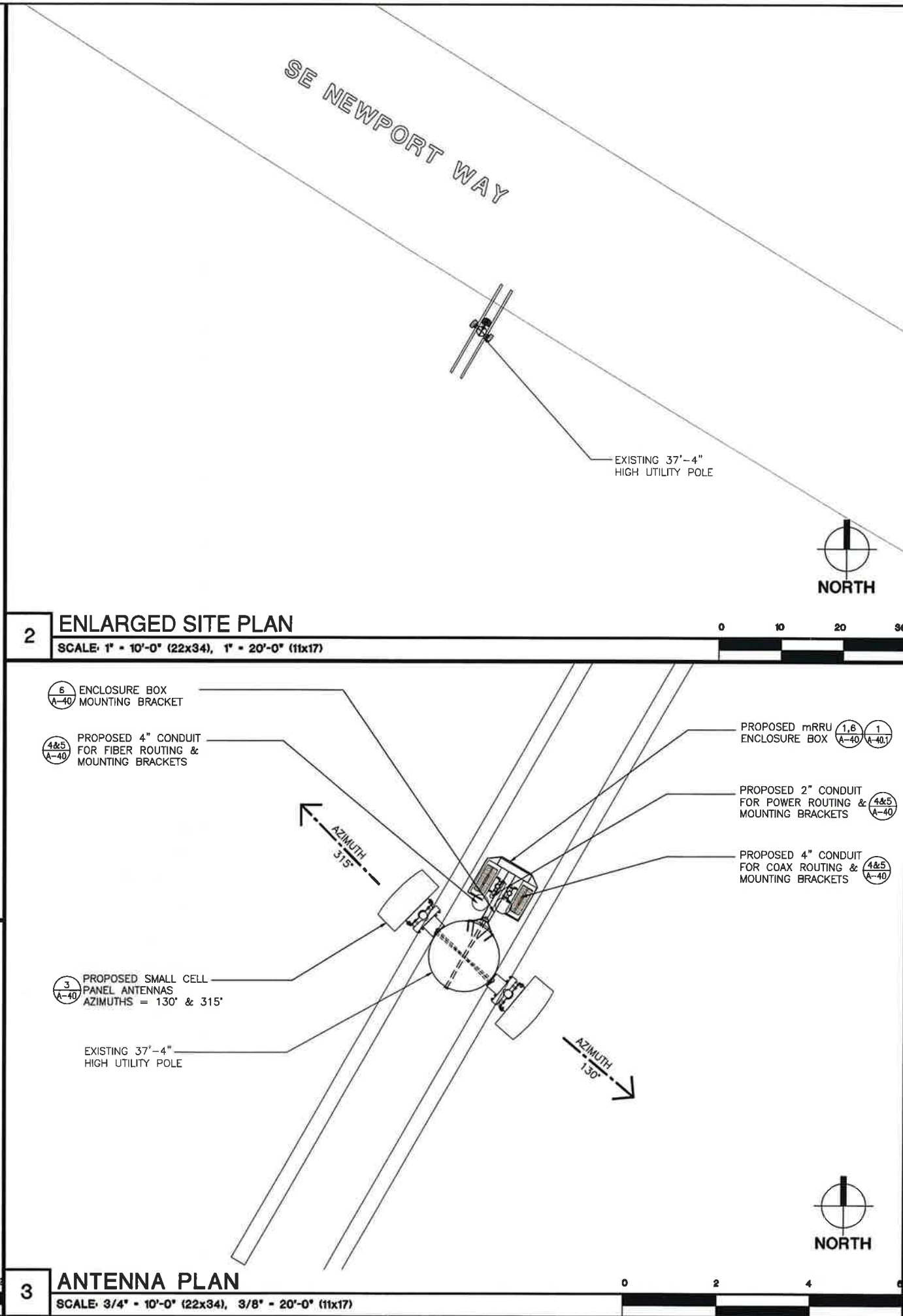
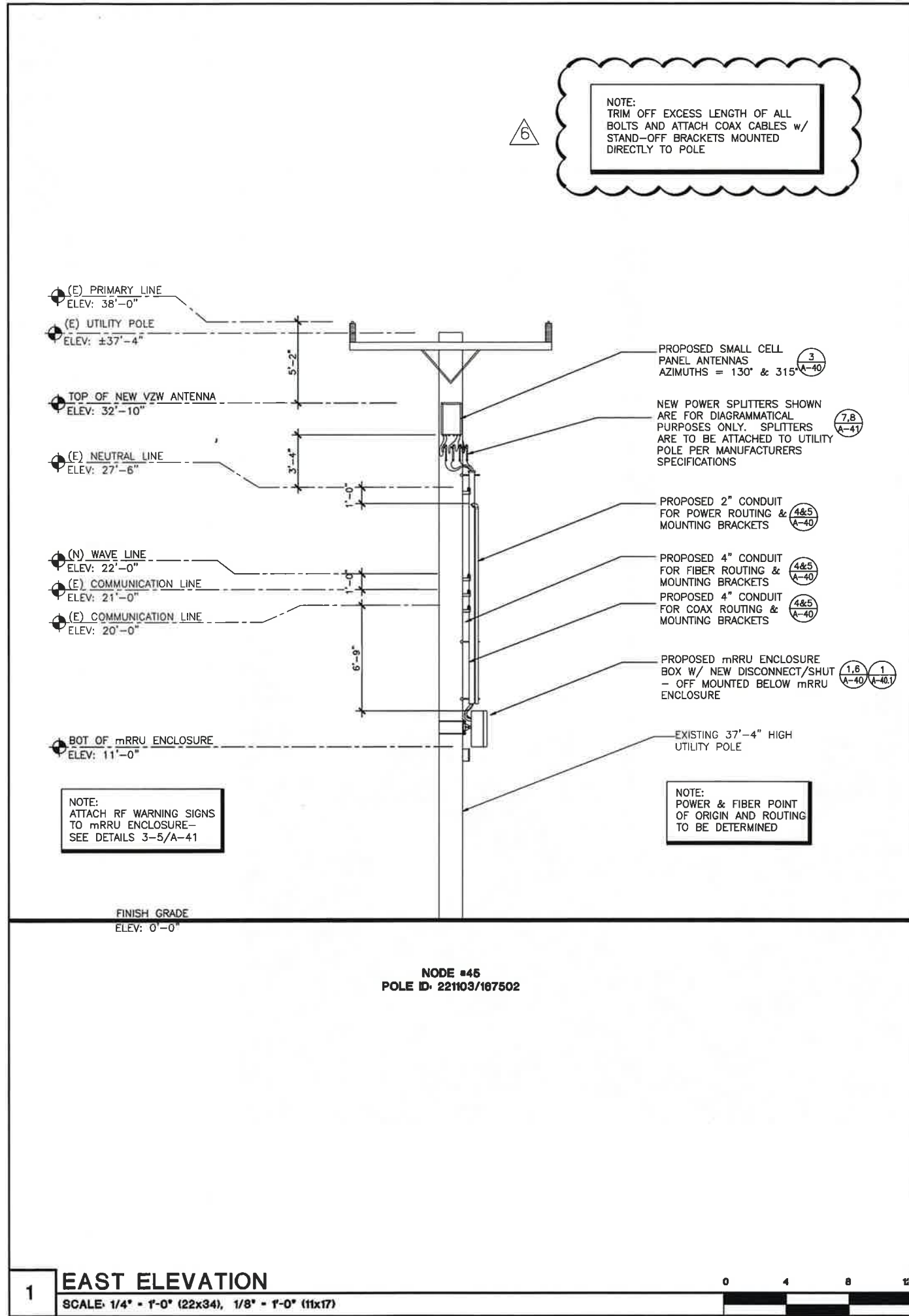
SHEET NAME

NODE 45
PHOTO SIM

SHEET NUMBER

A-35.0

PROJECT NUMBER



md7 verizon

NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

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19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
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PROJECT MANAGER: EJC

PREPARED BY: GA

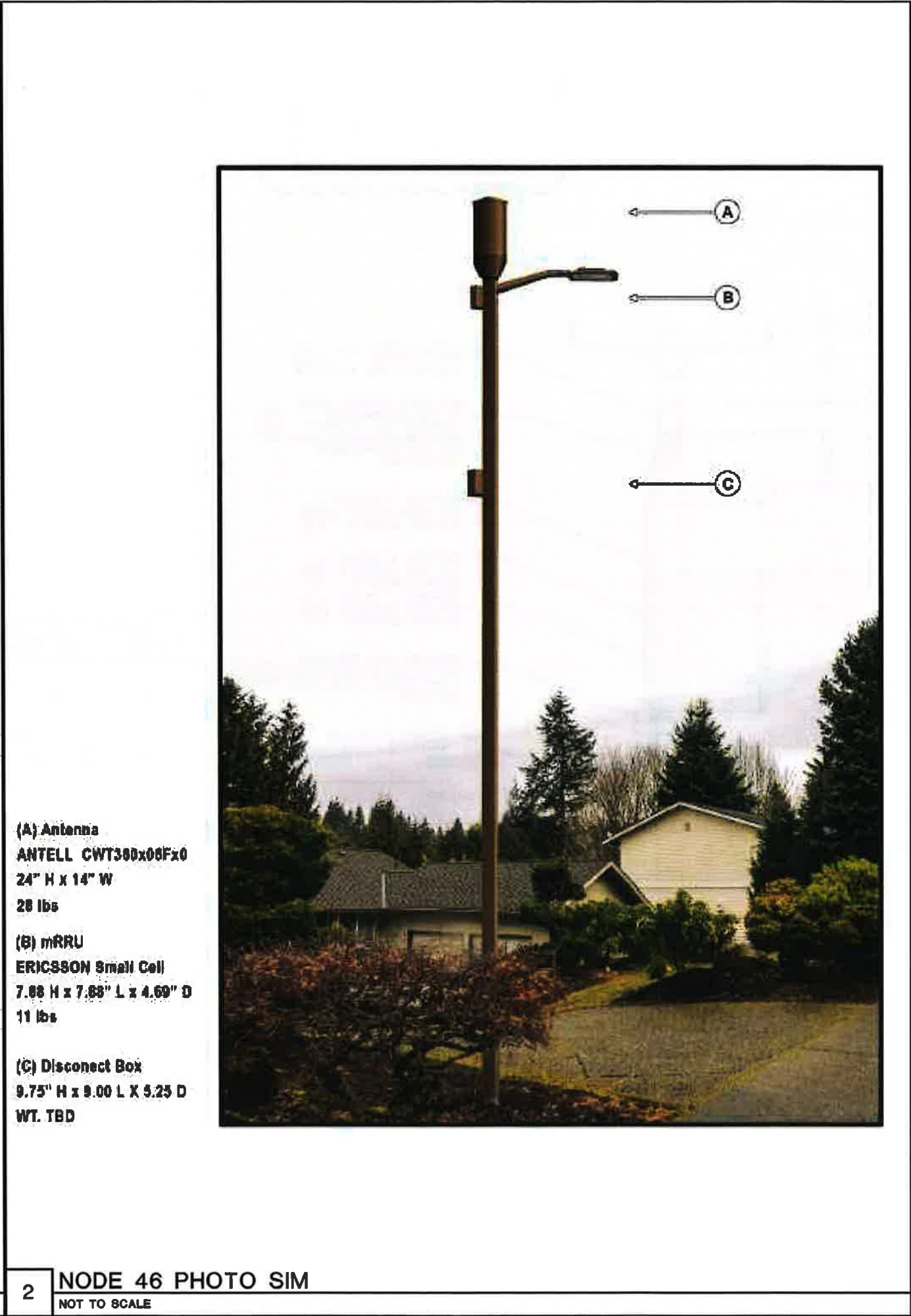
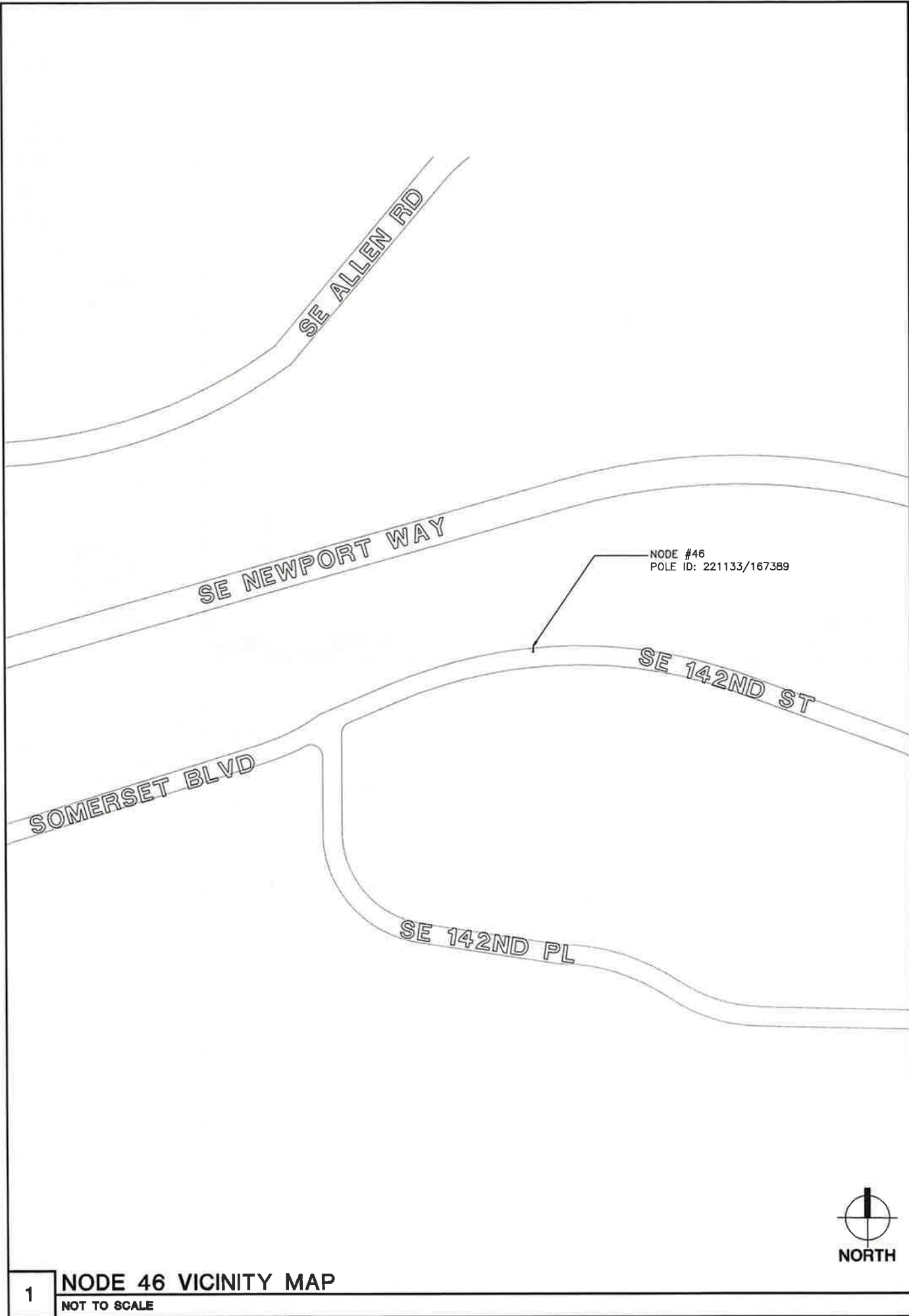
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3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

SHEET NAME
NODE 45 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER
A-35.1

PROJECT NUMBER
--



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

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LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

1	SS	3/22/18	PRELIM PERMIT ISSUE
2	GA	11/21/17	PRELIM PERMIT ISSUE
3	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
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9	GA	3/22/16	PRELIM PERMIT ISSUE

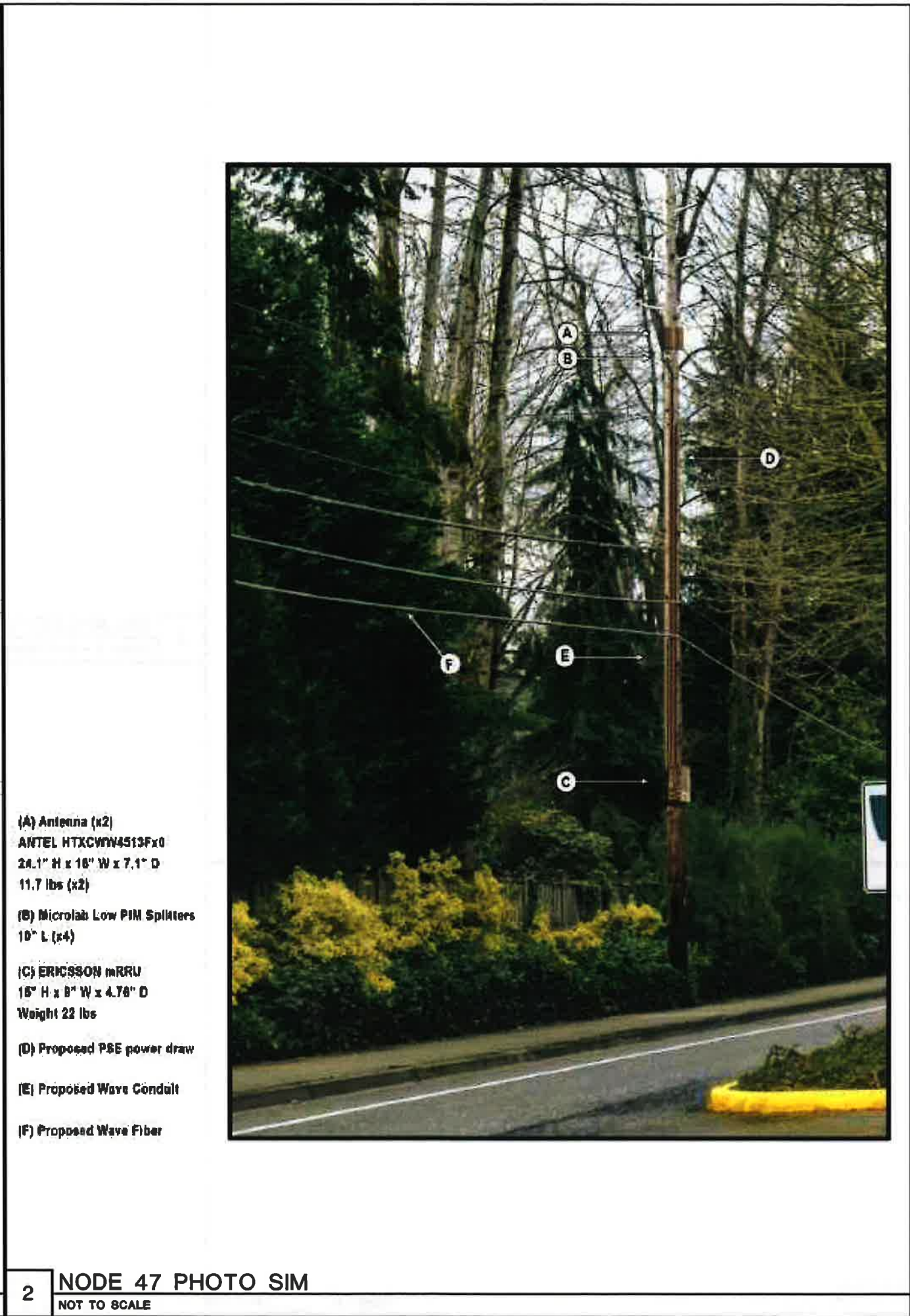
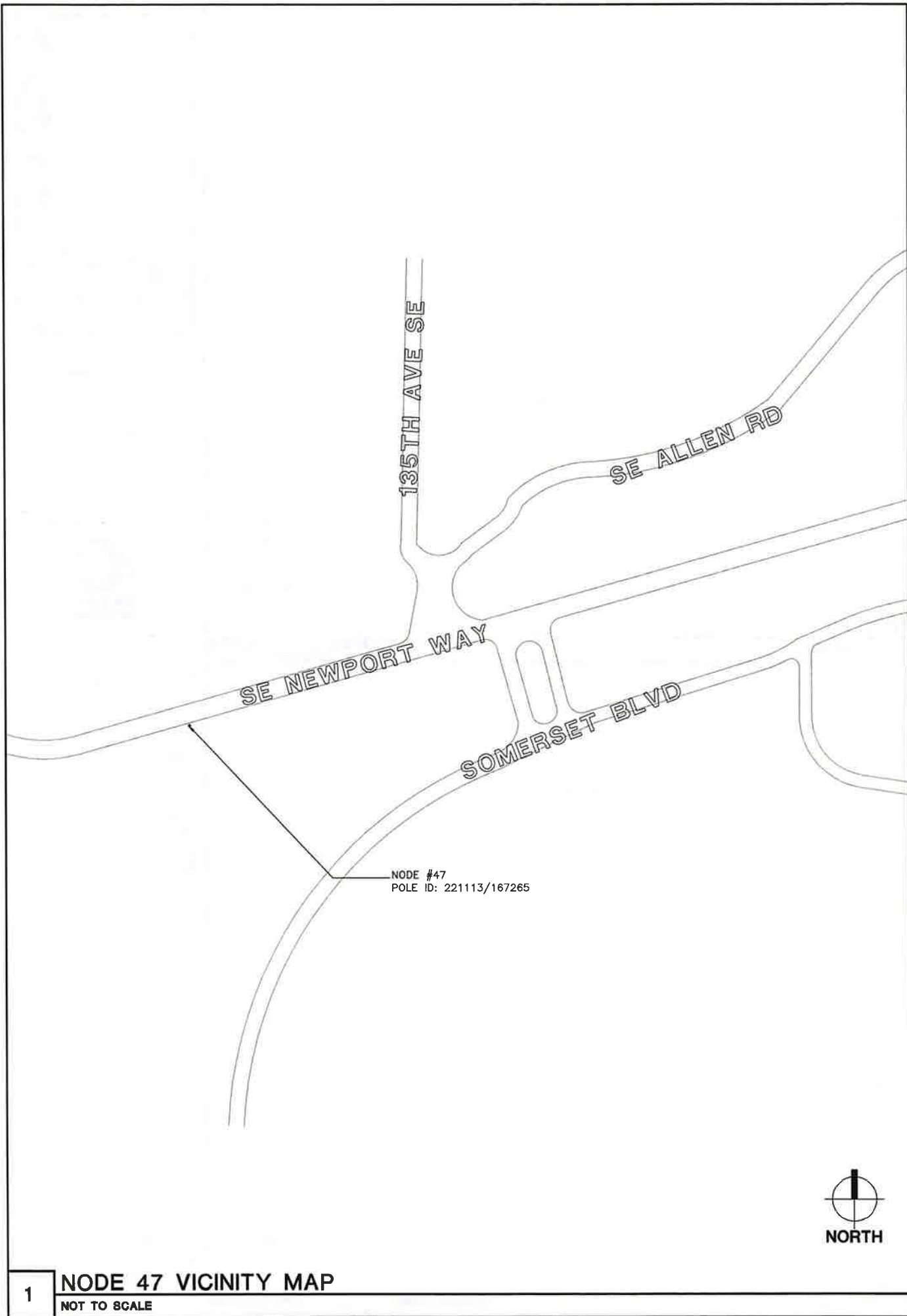
SHEET NAME

NODE 46
PHOTO SIM

SHEET NUMBER

A-36.0

PROJECT NUMBER



- (A) Antenna (x2)
ANTEL HTXCWN4513Fx0
24.1" H x 16" W x 7.1" D
11.7 lbs (x2)
- (B) Microlab Low PIM Splitters
10" L (x4)
- (C) ERICSSON mRRU
18" H x 8" W x 4.76" D
Weight 22 lbs
- (D) Proposed PSE power draw
- (E) Proposed Wave Conduit
- (F) Proposed Wave Fiber

NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

7/25/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE

SHEET NAME

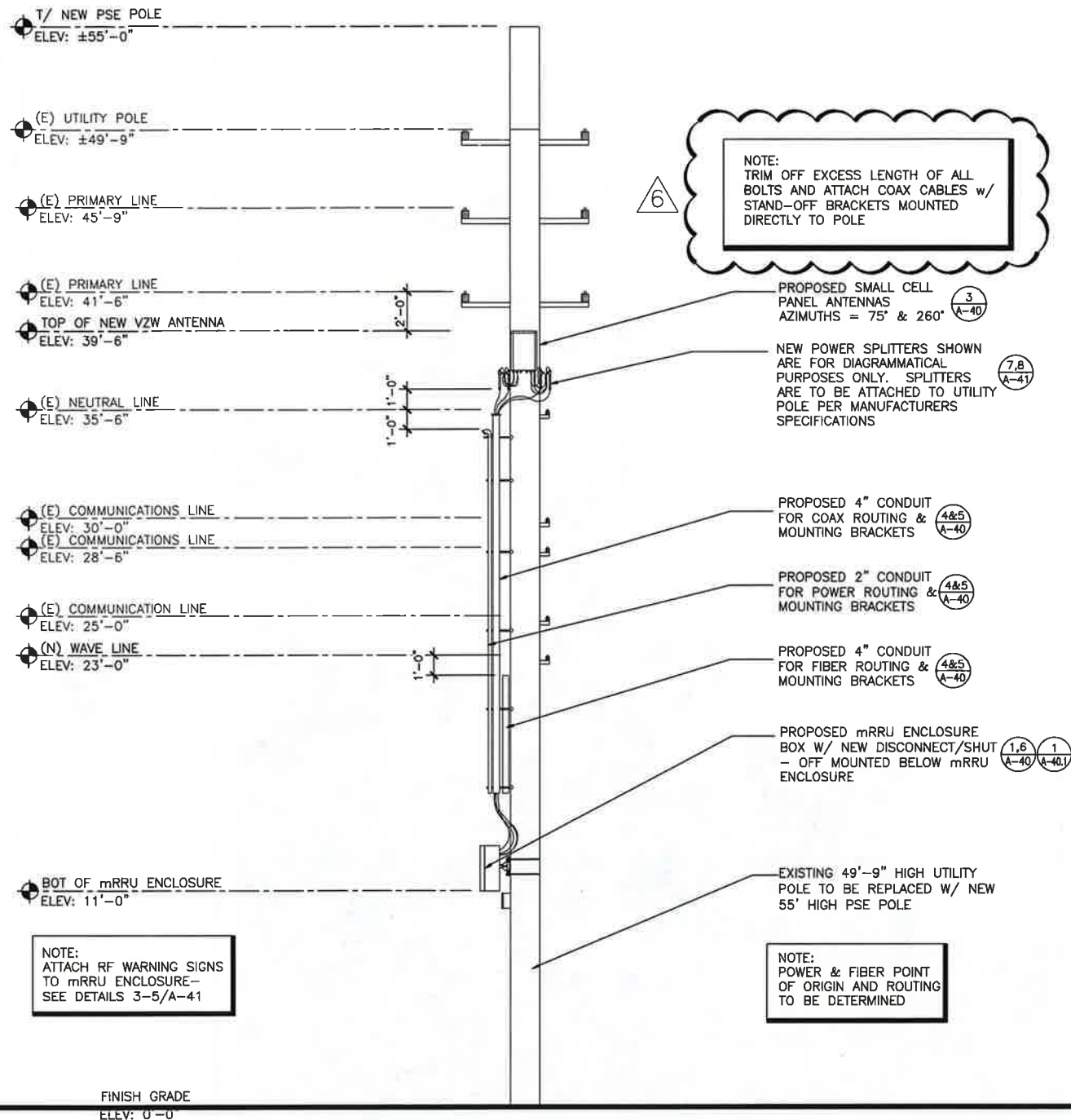
NODE 47
PHOTO SIM

SHEET NUMBER

A-37.0

PROJECT NUMBER

--



NODE #47
POLE ID: 221113/167265

1

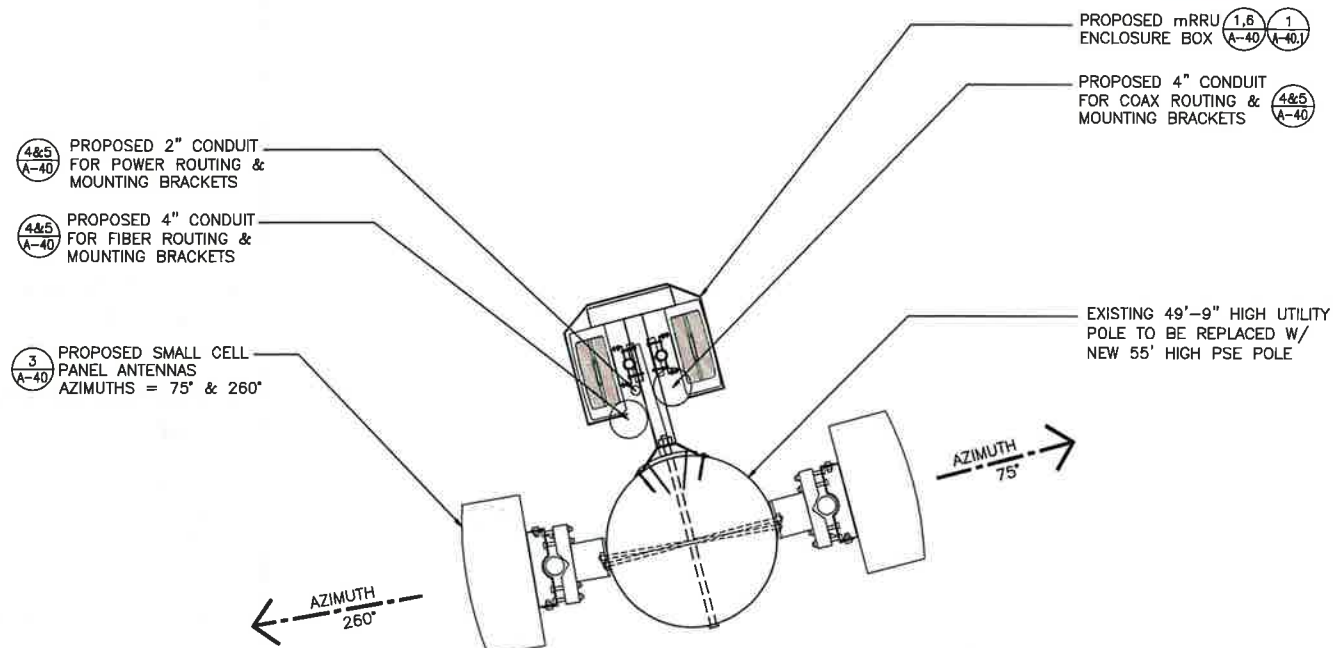
WEST ELEVATION

SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)

2

ENLARGED SITE PLAN

SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



3

ANTENNA PLAN

SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)

SE NEWPORT WAY

EXISTING 49'-9" HIGH UTILITY POLE



NORTH



NORTH



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1814
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

7/25/18	PRELIM PERMIT ISSUE
8/11/17	PRELIM PERMIT ISSUE
8/29/17	PRELIM PERMIT ISSUE
7/19/17	PRELIM PERMIT ISSUE
9/14/16	PRELIM PERMIT ISSUE
6/17/16	PRELIM PERMIT ISSUE
5/13/16	PRELIM PERMIT ISSUE
3/30/16	PRELIM PERMIT ISSUE
3/22/16	PRELIM PERMIT ISSUE

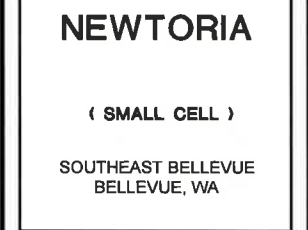
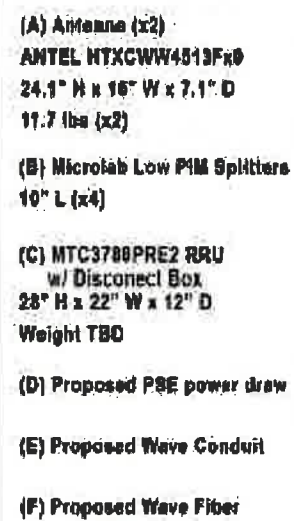
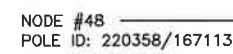
SHEET NAME
NODE 47 ENLARGED
SITE PLAN, ANTENNA
PLAN AND
ELEVATION

SHEET NUMBER

A-37.1

PROJECT NUMBER

--



PROJECT MANAGER:	EJC
-------------------------	-----

PREPARED BY: GA

APPROVED BY: EJC

ISS	3/22/18	PRELIM PERMIT	ISSUE
IGA	11/21/17	PRELIM PERMIT	ISSUE
IGA	3/29/17	PRELIM PERMIT	ISSUE
IGA	7/19/17	PRELIM PERMIT	ISSUE
IGA	9/14/16	PRELIM PERMIT	ISSUE
IGA	6/17/16	PRELIM PERMIT	ISSUE
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IGA	3/22/16	PRELIM PERMIT	ISSUE

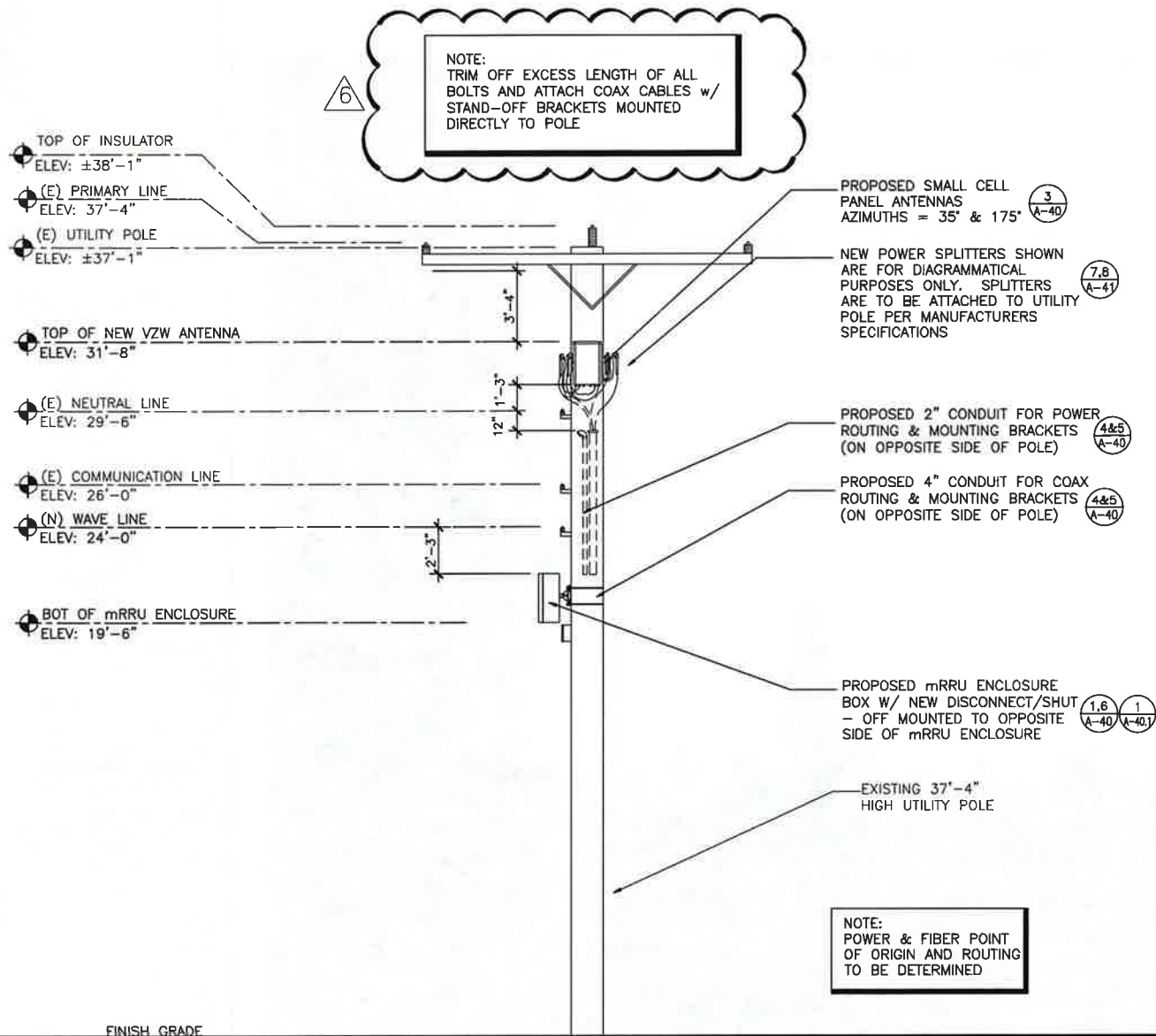
SHEET NAME

NODE 48
PHOTO SIM

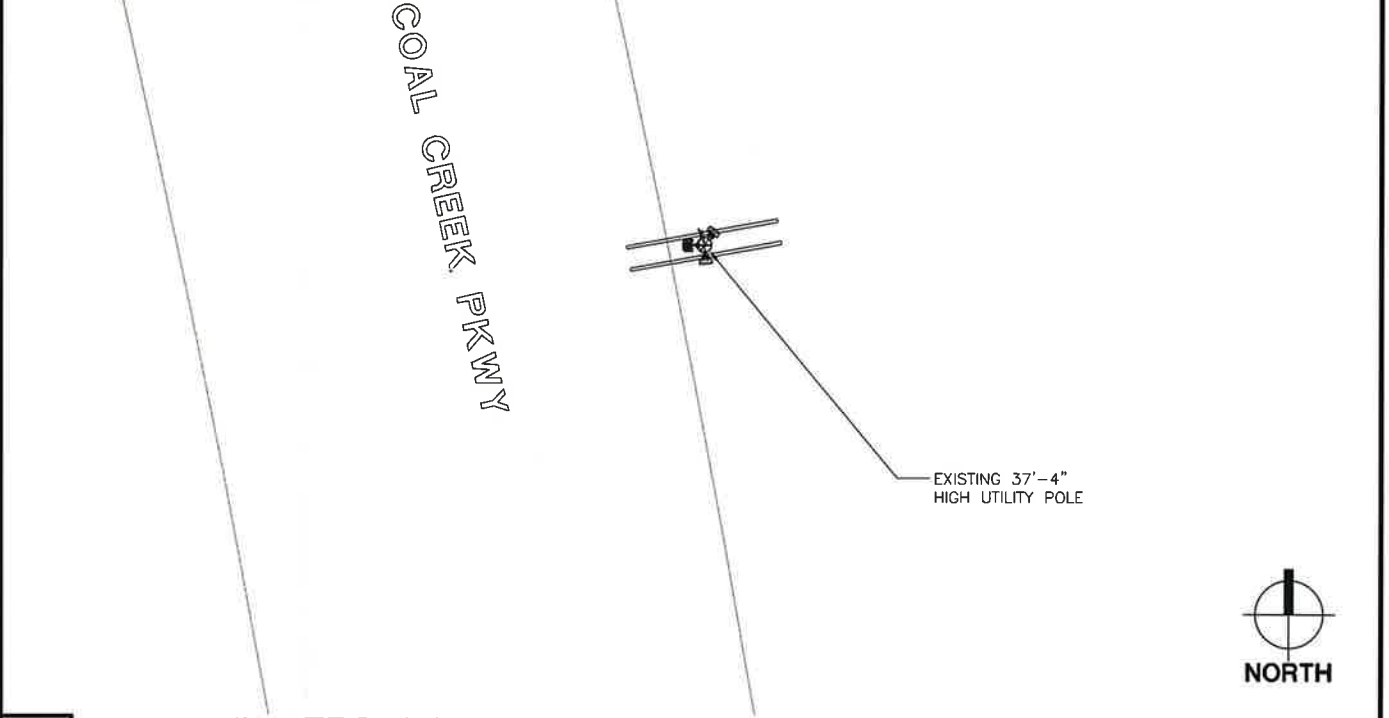
SHEET NUMBER

A-38.0

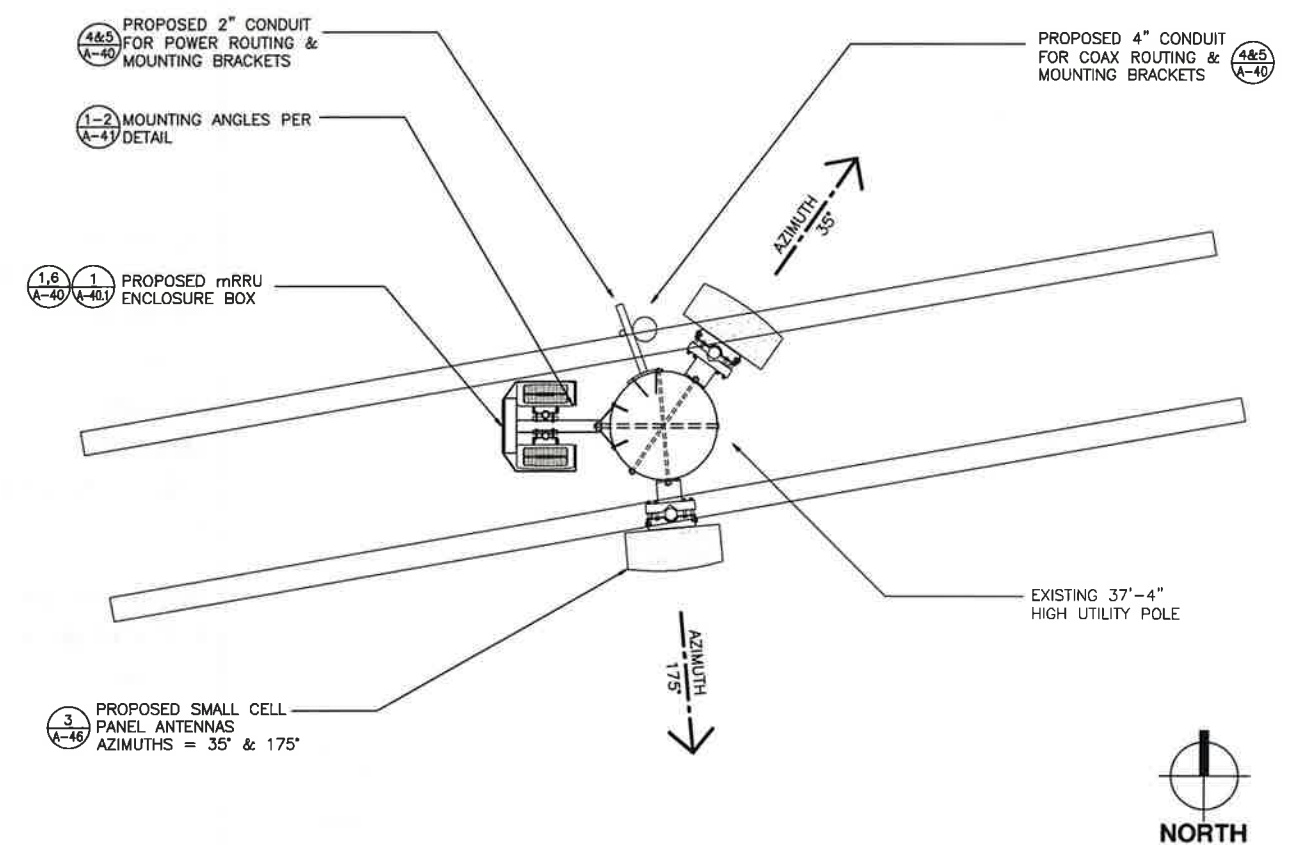
PROJECT NUMBER



1 SOUTH ELEVATION
 SCALE: 1/4" = 1'-0" (22x34), 1/8" = 1'-0" (11x17)



2 ENLARGED SITE PLAN
 SCALE: 1" = 10'-0" (22x34), 1" = 20'-0" (11x17)



3 ANTENNA PLAN
 SCALE: 3/4" = 10'-0" (22x34), 3/8" = 20'-0" (11x17)



NEWTORIA
 (SMALL CELL)
 SOUTHEAST BELLEVUE
 BELLEVUE, WA

CAMP ASSOCIATES
 19401 40TH AVENUE W, SUITE 304
 LYNNWOOD, WA 98036
 CELL: (425) 260-8651
 FAX: (425) 224-1814
 WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

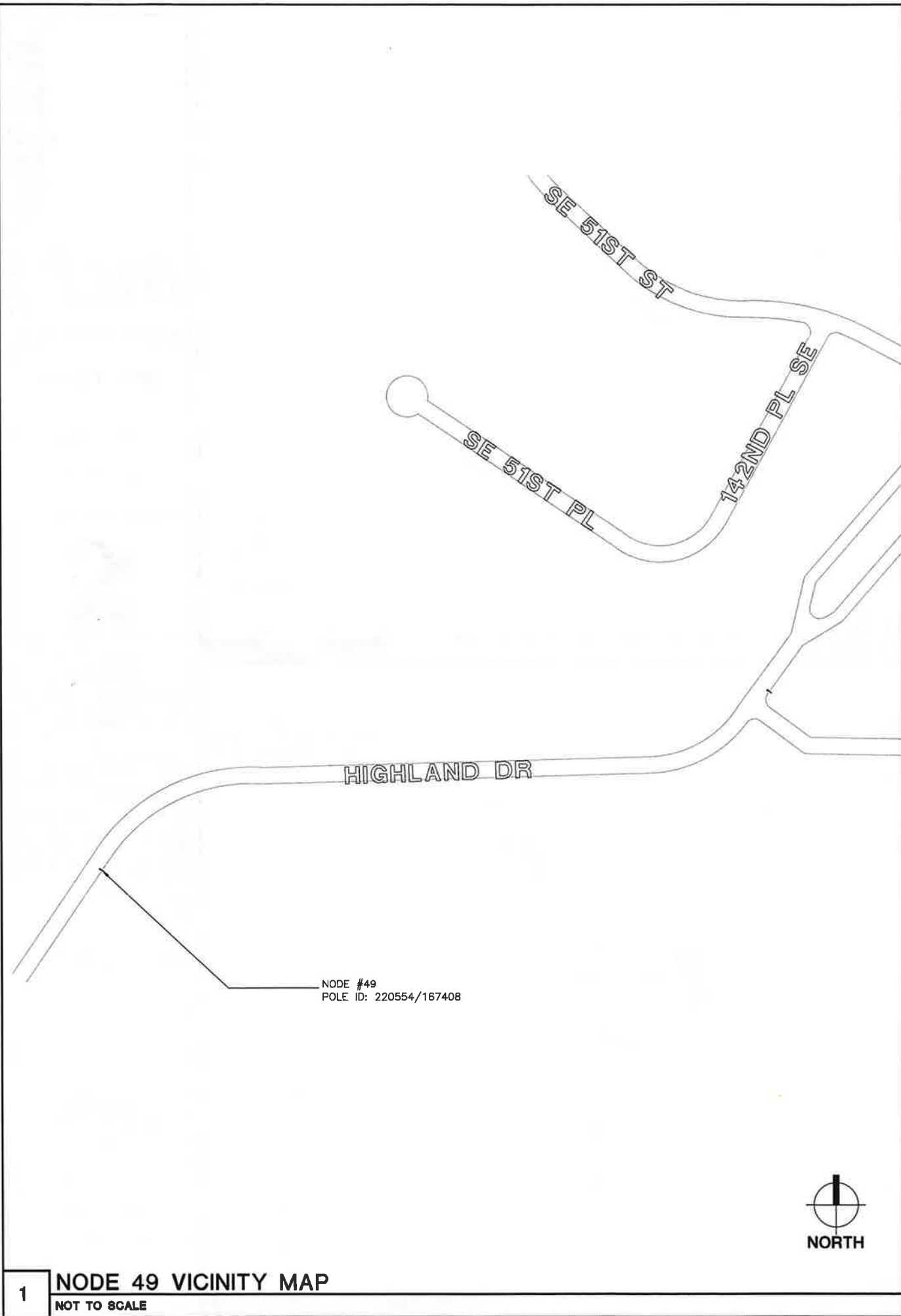
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8/GA 11/21/17	PRELIM PERMIT ISSUE
9/GA 8/29/17	PRELIM PERMIT ISSUE
4/GA 7/19/17	PRELIM PERMIT ISSUE
3/GA 9/14/16	PRELIM PERMIT ISSUE
2/GA 6/17/16	PRELIM PERMIT ISSUE
1/GA 5/13/16	PRELIM PERMIT ISSUE
0/GA 3/30/16	PRELIM PERMIT ISSUE
A/GA 3/22/16	PRELIM PERMIT ISSUE



SHEET NAME
 NODE 48 ENLARGED
 SITE PLAN, ANTENNA
 PLAN AND
 ELEVATION

SHEET NUMBER
A-38.1

PROJECT NUMBER
 --



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

7	SS 3/22/18	PRELIM PERMIT ISSUE
6	GA 11/21/17	PRELIM PERMIT ISSUE
5	GA 8/29/17	PRELIM PERMIT ISSUE
4	GA 7/19/17	PRELIM PERMIT ISSUE
3	GA 9/14/16	PRELIM PERMIT ISSUE
2	GA 5/17/16	PRELIM PERMIT ISSUE
1	GA 5/13/16	PRELIM PERMIT ISSUE
0	GA 3/30/16	PRELIM PERMIT ISSUE
A	GA 3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

NODE 49
PHOTO SIM

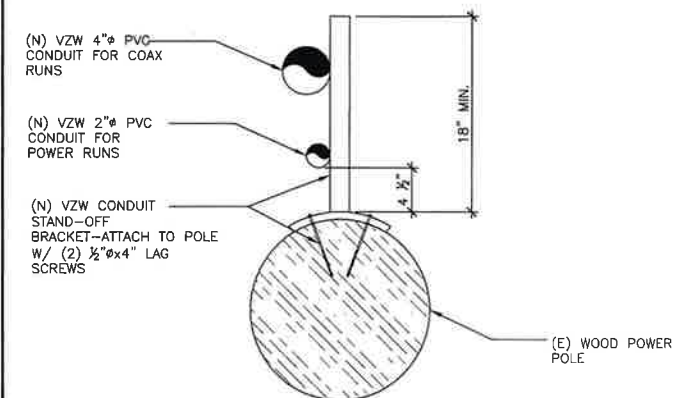
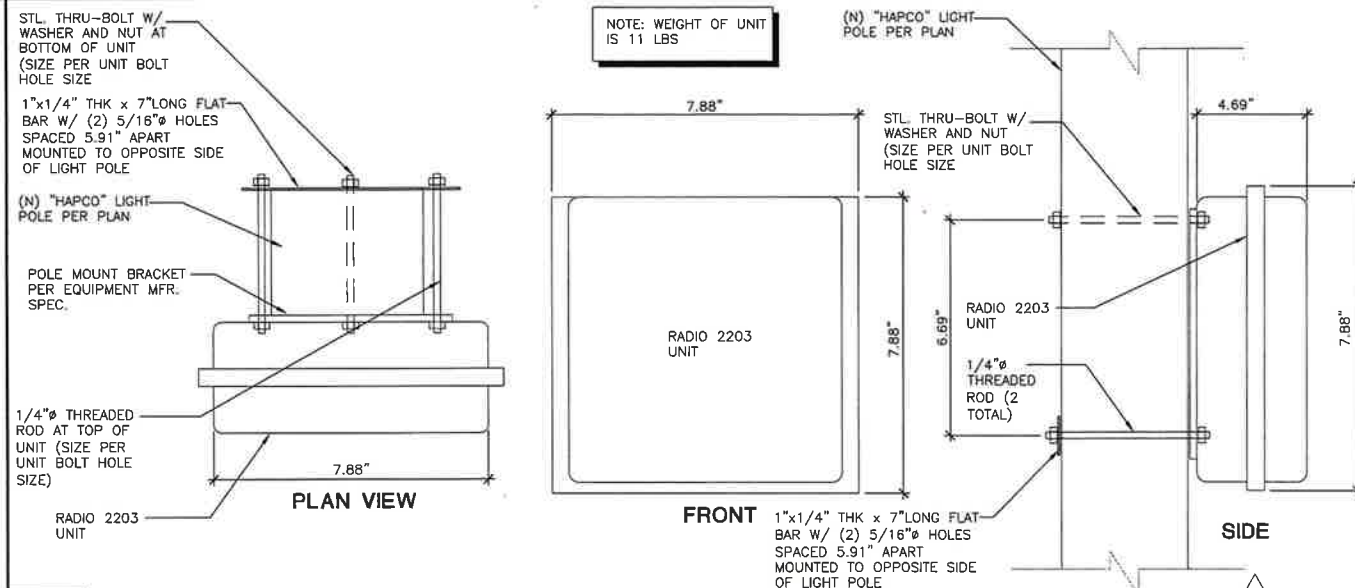
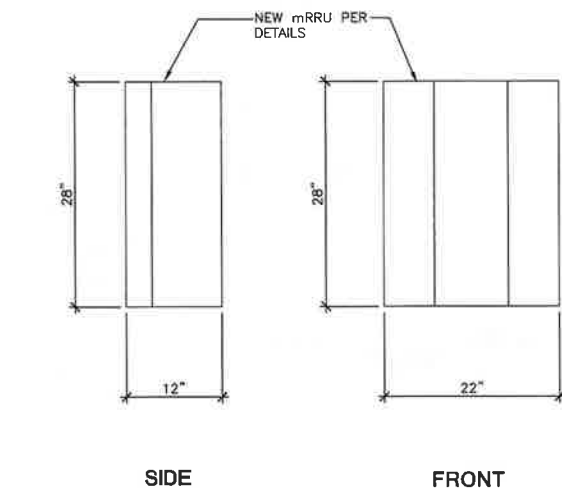
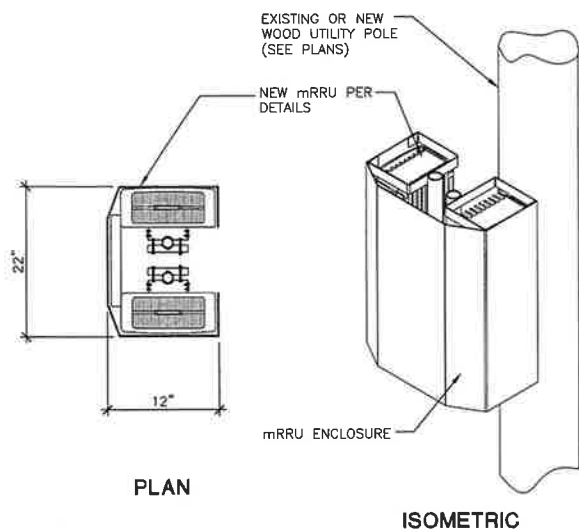
SHEET NUMBER

A-39.0

PROJECT NUMBER

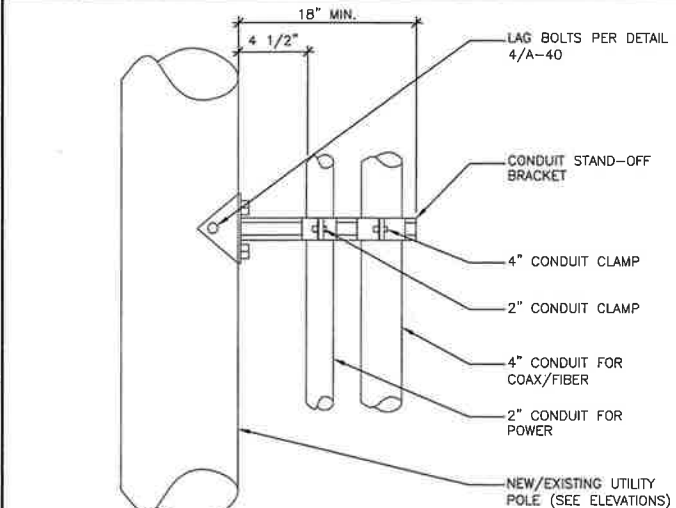
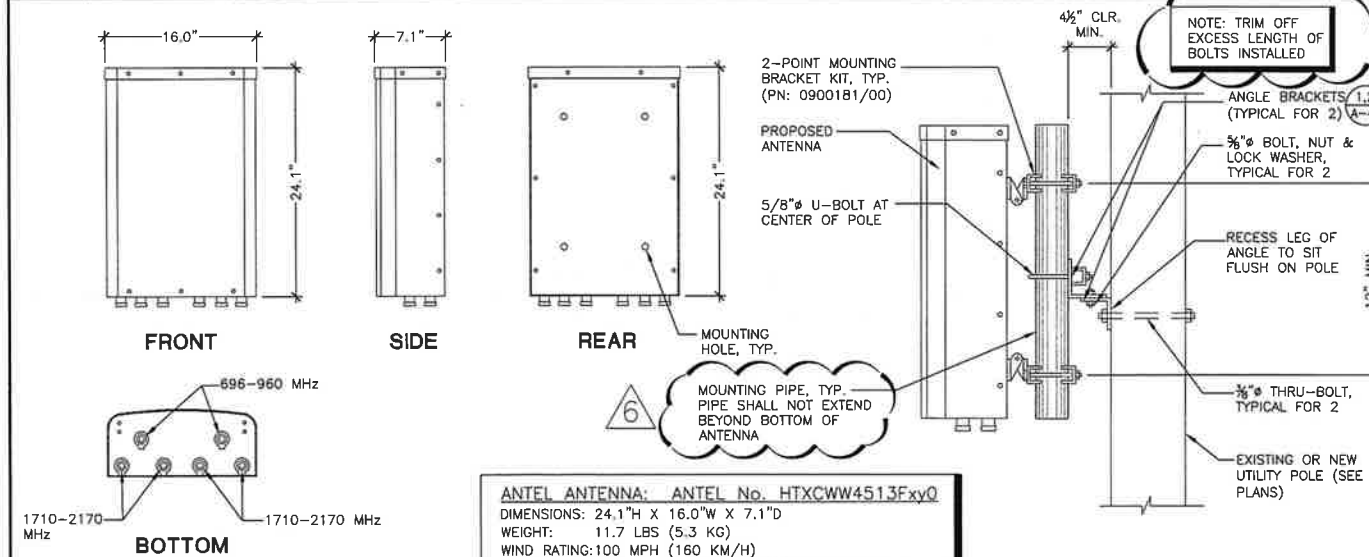
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2 ERICSSON RADIO 2203 SPECIFICATIONS (@ LIGHT POLES)
NOT TO SCALE

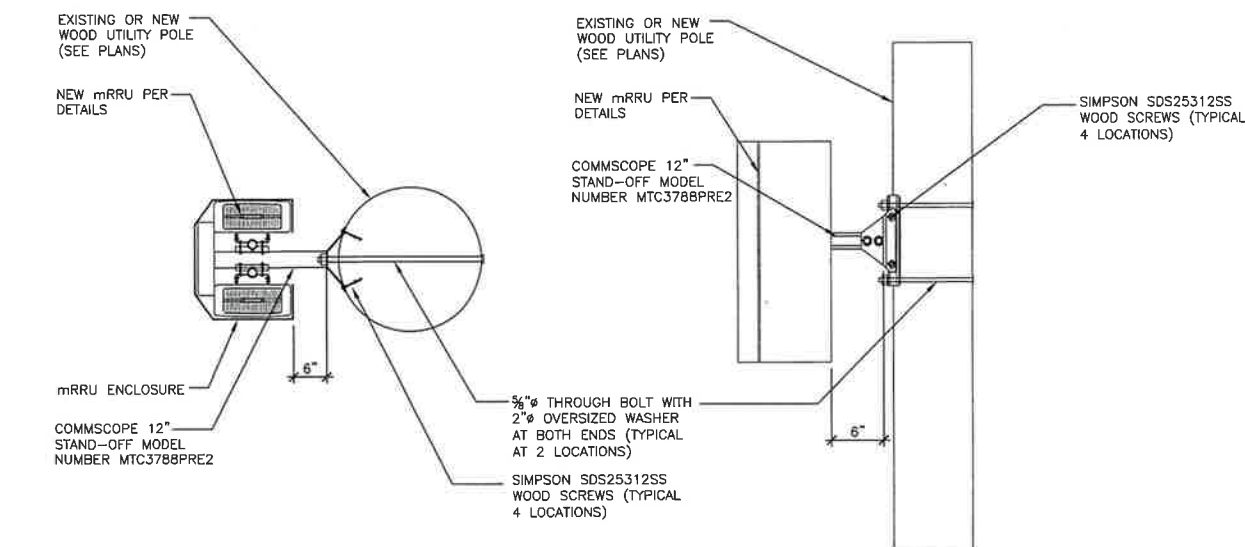
4 CONDUIT ROUTING AT UTILITY POLE
NOT TO SCALE



3 ANTENNA & ANTENNA MOUNTING DETAIL
NOT TO SCALE

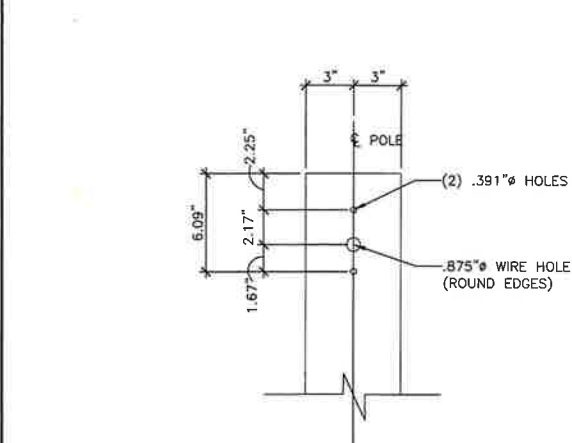
5 CONDUIT ROUTING AT UTILITY POLE
NOT TO SCALE

1 mRRU ENCLOSURE DETAIL
NOT TO SCALE



6 mRRU ENCLOSURE MOUNTING DETAIL (WOOD POLE)
NOT TO SCALE

7 "PUREFORM" LUMINAIRE DETAIL
NOT TO SCALE



8 LUMINAIRE DRILLING PATTERN
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-9851
FAX: (425) 224-1814
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

7/25/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/29/18	PRELIM PERMIT ISSUE
9/19/18	PRELIM PERMIT ISSUE
9/14/18	PRELIM PERMIT ISSUE
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11/22/18	PRELIM PERMIT ISSUE

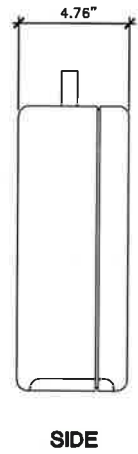
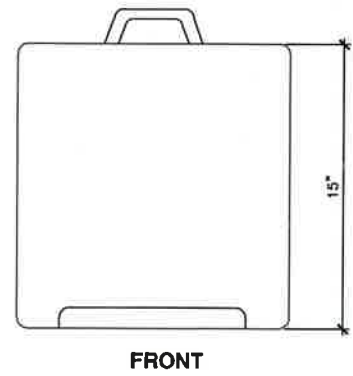
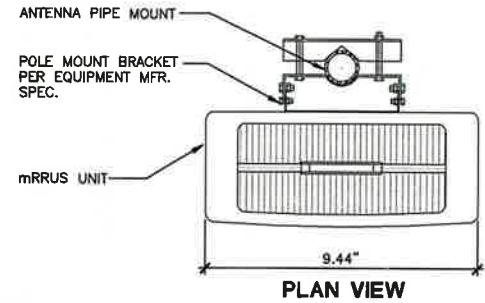
SHEET NAME

EQUIPMENT DETAILS

SHEET NUMBER

A-40

PROJECT NUMBER



1 ERICSSON mRRU SPECIFICATIONS (@ WOOD UTILITY POLES)
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

7	SS	3/22/18	PRELIM PERMIT ISSUE
6	GA	11/21/17	PRELIM PERMIT ISSUE
5	GA	8/29/17	PRELIM PERMIT ISSUE
4	GA	7/19/17	PRELIM PERMIT ISSUE
3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
A	GA	3/22/16	PRELIM PERMIT ISSUE



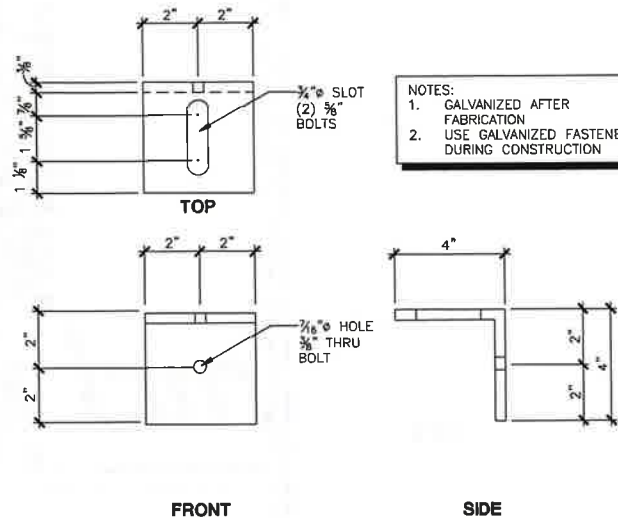
SHEET NAME

EQUIPMENT DETAILS

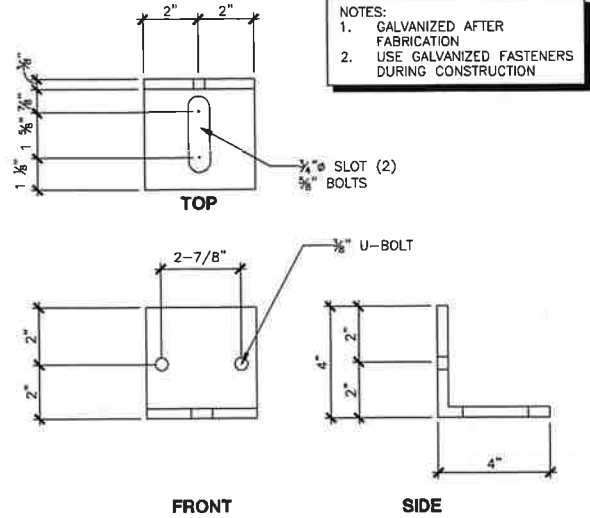
SHEET NUMBER

A-40.1

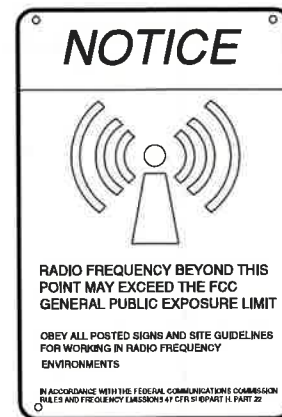
PROJECT NUMBER



1 ANGLE BRACKET DETAIL
NOT TO SCALE

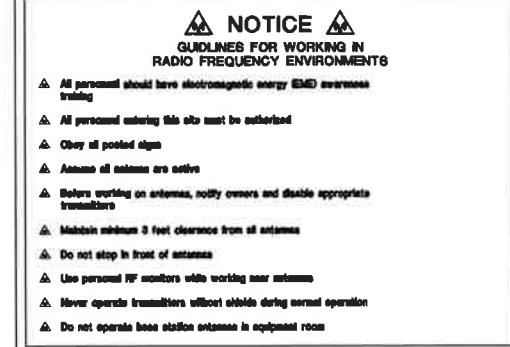


2 ANGLE BRACKET DETAIL
NOT TO SCALE



NOTE:
INSTALL ON mRRU ENCLOSURE PER MANUFACTURER SPECIFICATIONS AND FCC AND VERIZON WIRELESS GUIDELINES

3 RF WARNING SIGN
NOT TO SCALE



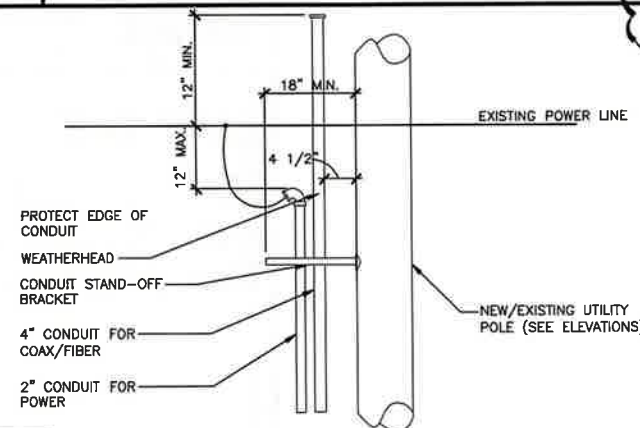
NOTE:
INSTALL ON mRRU ENCLOSURE PER MANUFACTURER SPECIFICATIONS AND FCC AND VERIZON WIRELESS GUIDELINES

4 RF NOTICE SIGN
NOT TO SCALE

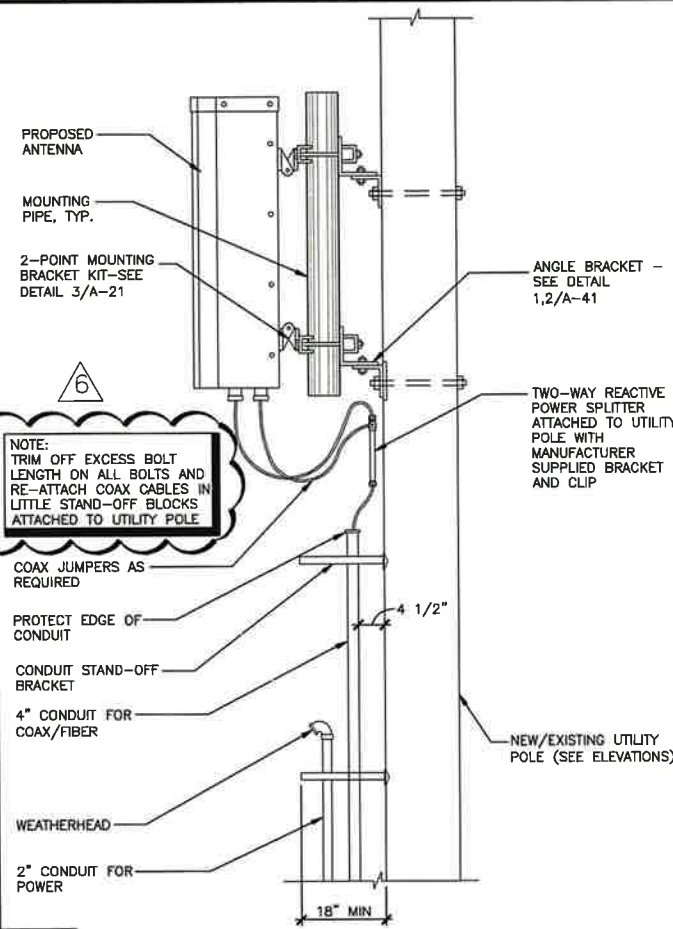
IN CASE OF EMERGENCY CALL N.O.C.
1-800-264-6620

NOTE:
INSTALL PER MANUFACTURER SPECIFICATIONS AND FCC AND VERIZON WIRELESS GUIDELINES

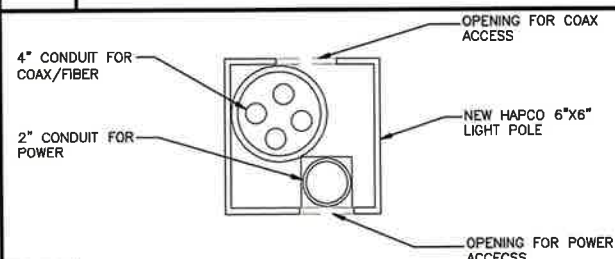
5 N.O.C. SIGN
NOT TO SCALE



6 WEATHERHEAD DETAIL
NOT TO SCALE

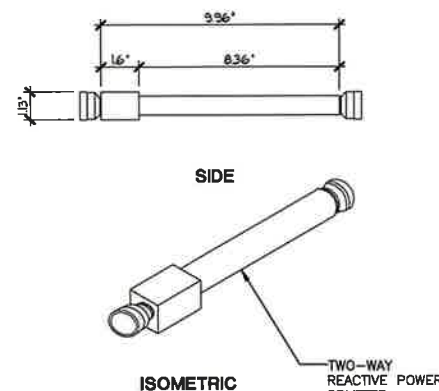


7 TYPICAL ENLARGED WIRING DETAIL
NOT TO SCALE

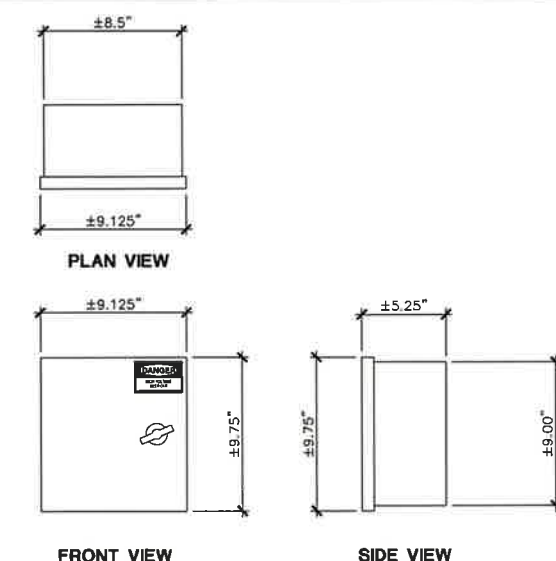


11 LIGHT POLE CROSS SECTION
NOT TO SCALE

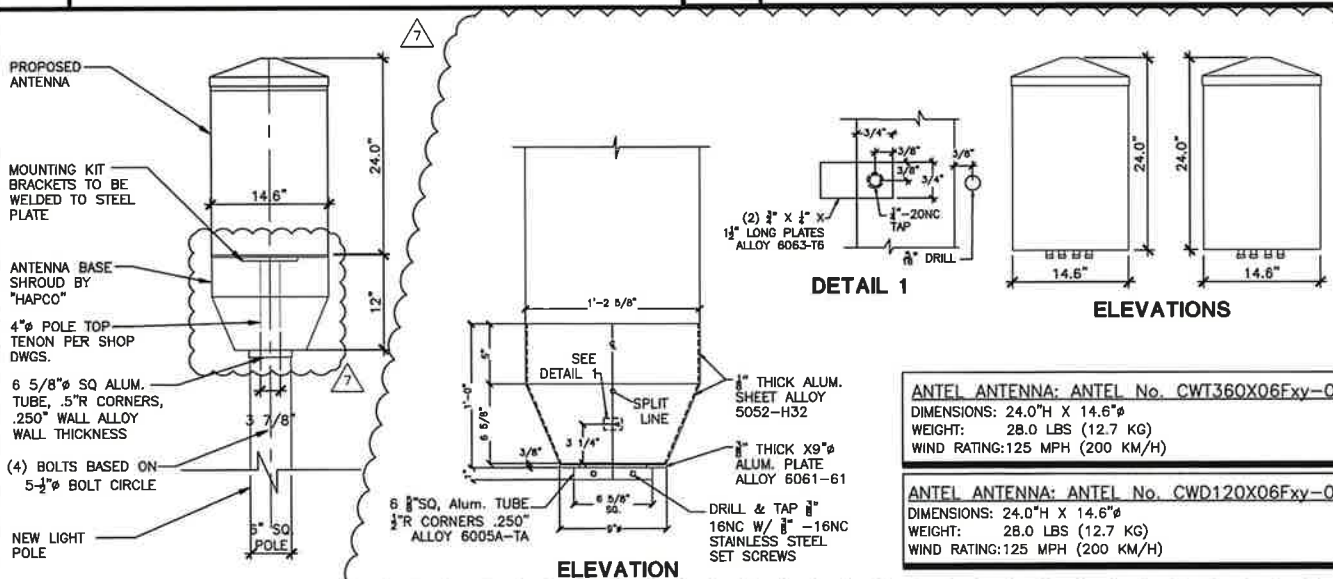
POWER SPLITTER: MICROLAB MODEL No. D2-J11
DIMENSIONS: 9.96" L x .85" W
WEIGHT: 0.85 LBS (0.39 KG)
NOTE:
DATA FROM SPEC SHEET PUBLISHED BY MANUFACTURER. CONTRACTOR TO VERIFY INFORMATION



8 POWER SPLITTER DETAIL
NOT TO SCALE



9 DISCONNECT BOX DETAIL
NOT TO SCALE



10 CYLINDRICAL ANTENNA & ANTENNA MOUNTING DETAIL
NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA



19401 40TH AVENUE W. SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8551
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

7/25/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
8/1/18	PRELIM PERMIT ISSUE
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8/1/18	PRELIM PERMIT ISSUE

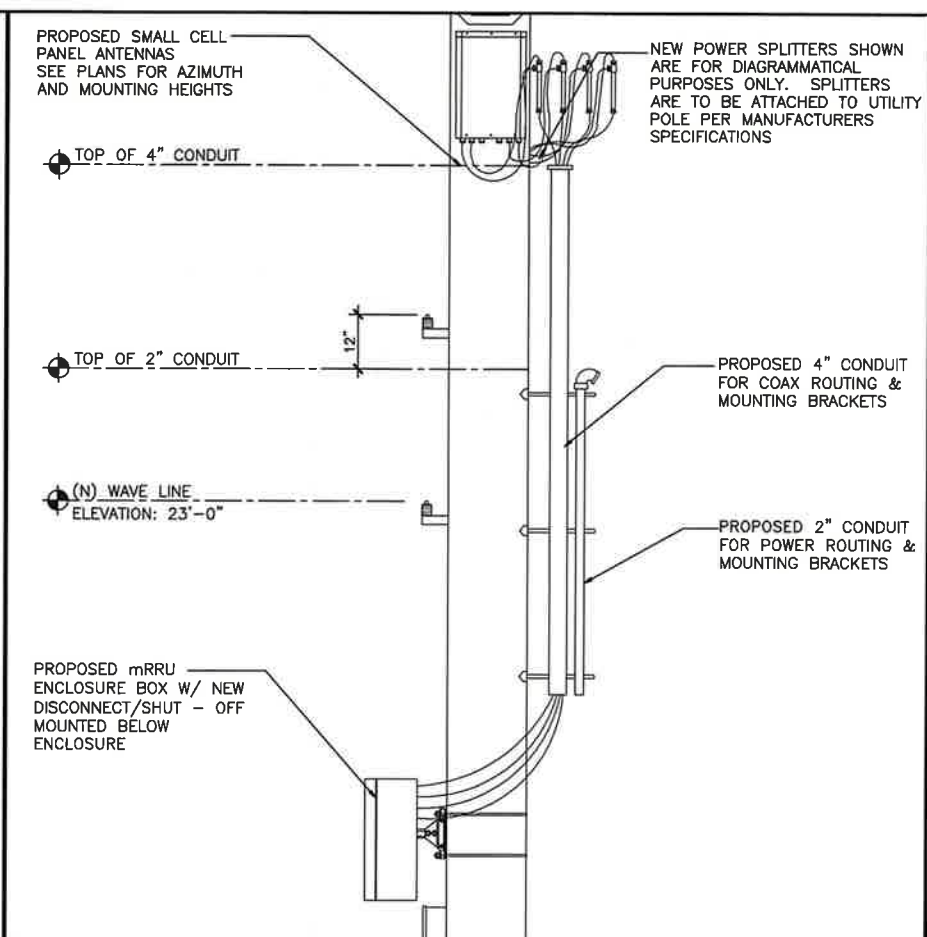
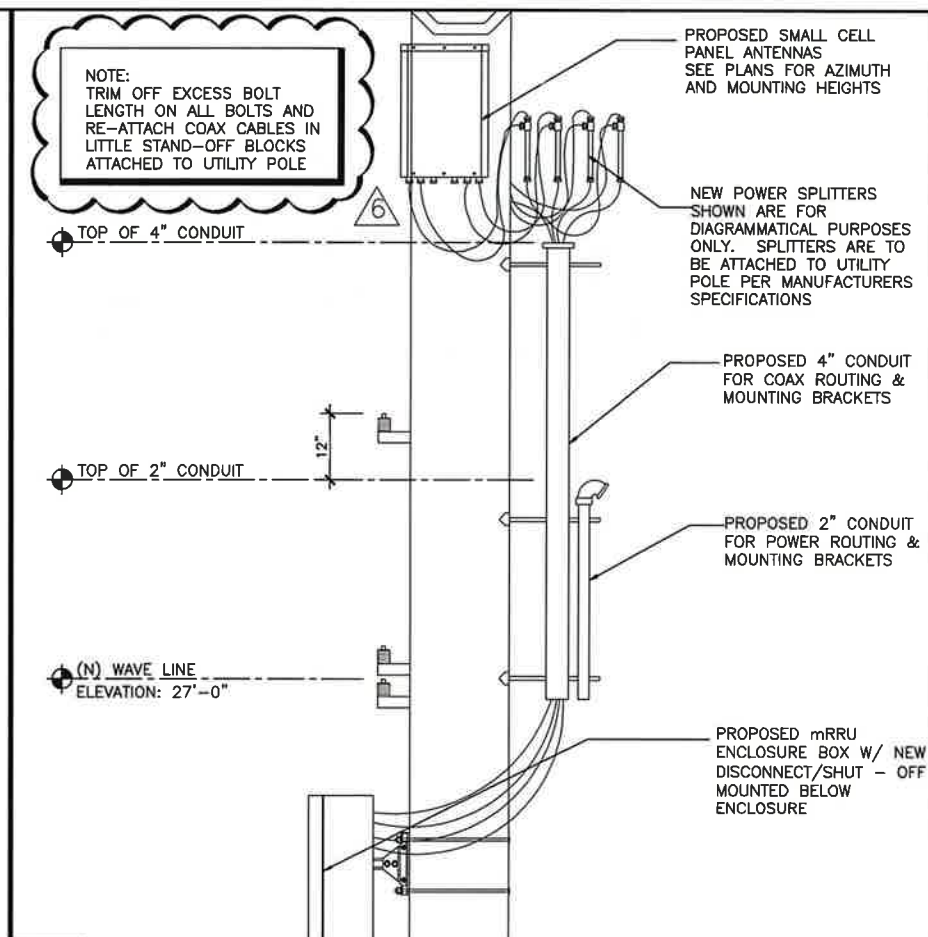
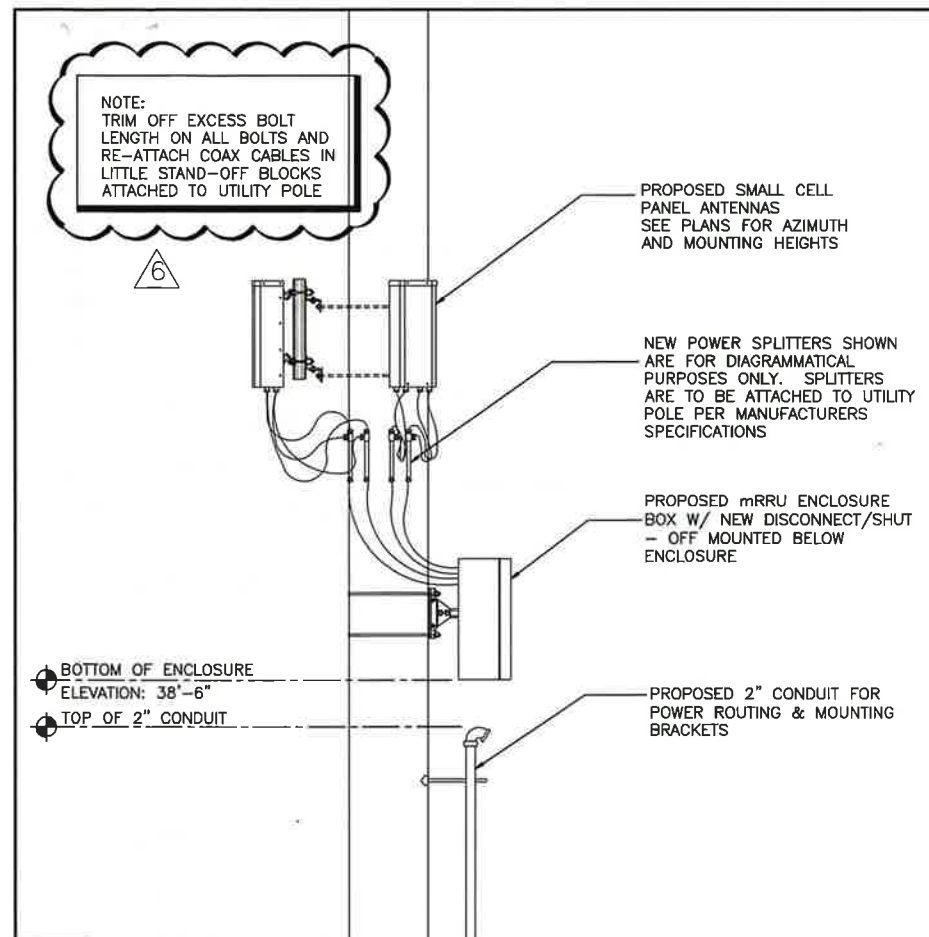
SHEET NAME

EQUIPMENT DETAILS

SHEET NUMBER

A-41

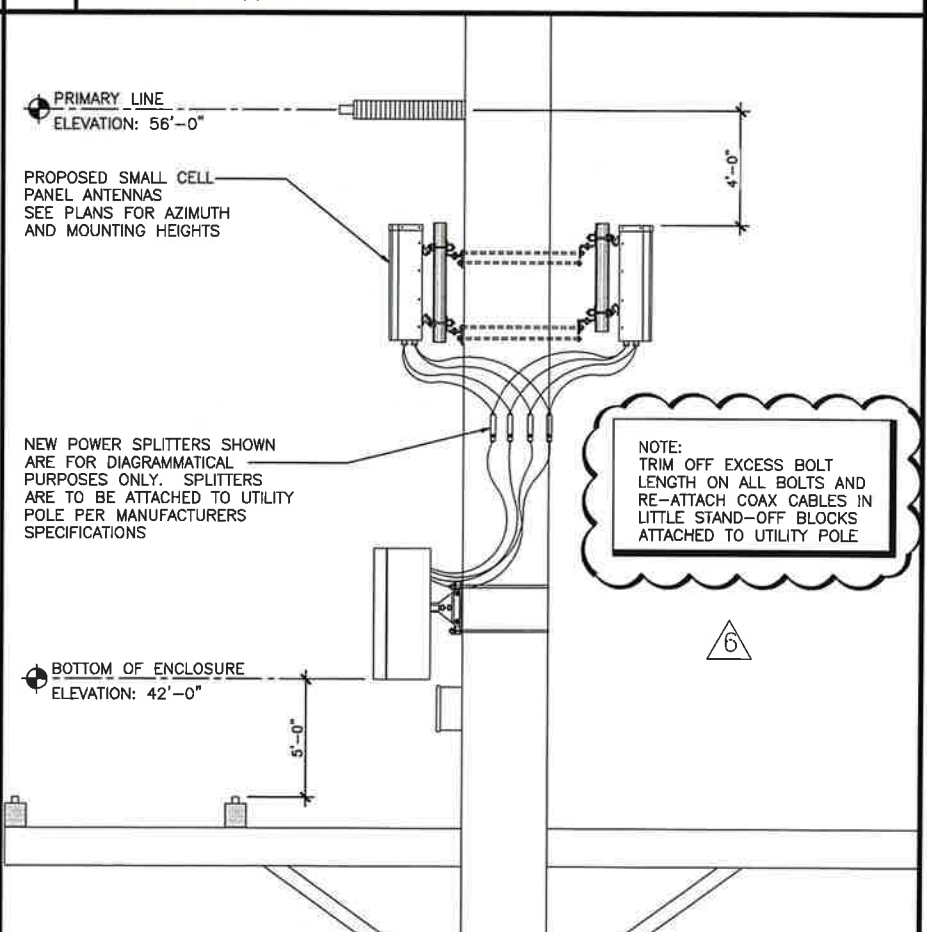
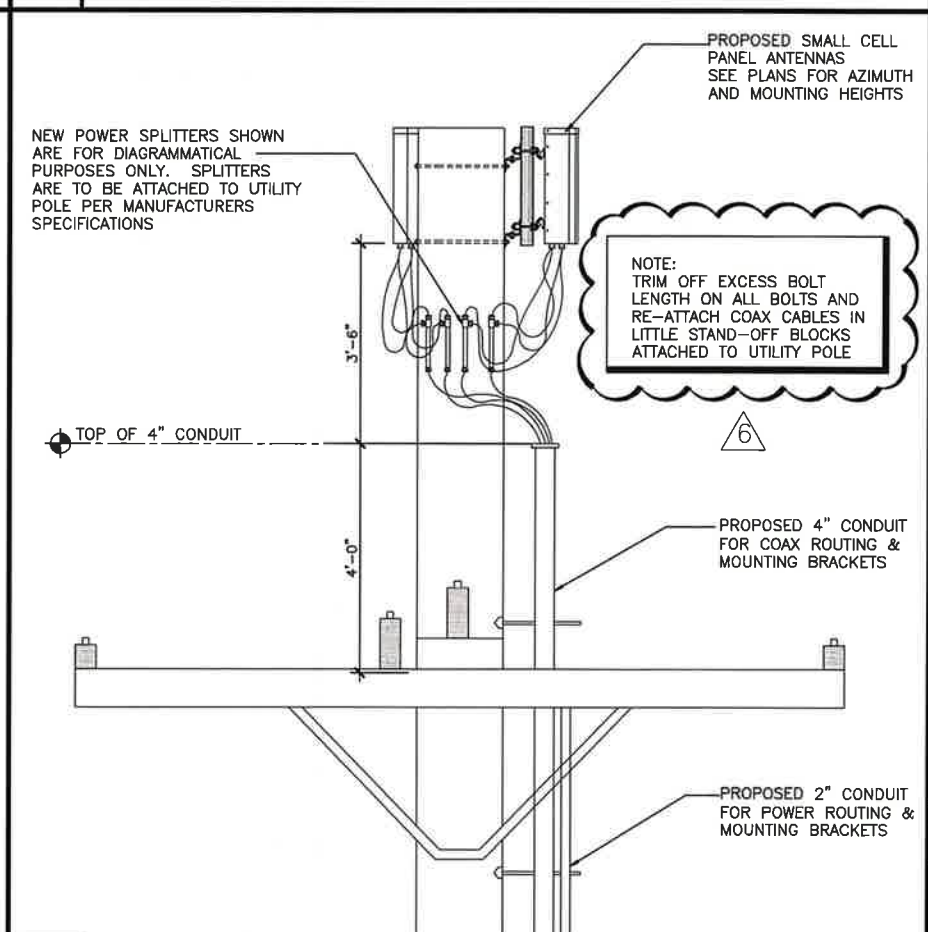
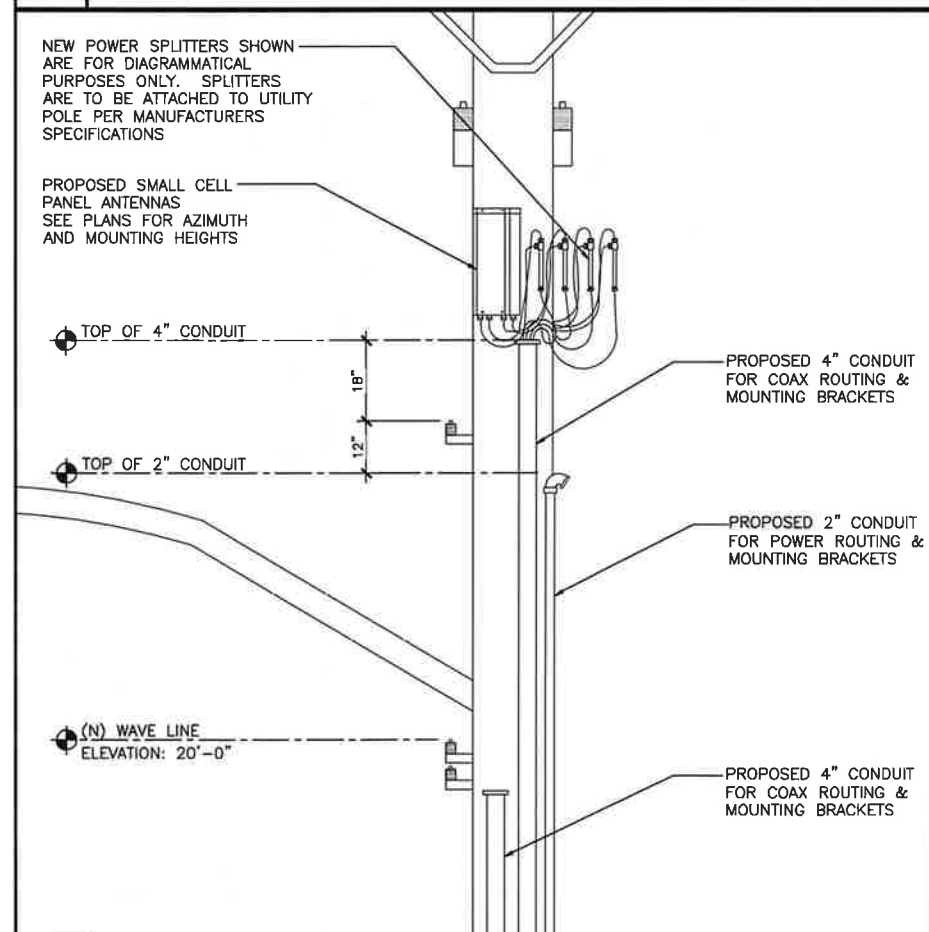
PROJECT NUMBER



1 **NODE #6 WIRING DIAGRAM**
SCALE: NOT TO SCALE

2 **NODE #7 WIRING DIAGRAM**
SCALE: NOT TO SCALE

3 **NODE #8 WIRING DIAGRAM**
SCALE: NOT TO SCALE



4 **NODE #9 WIRING DIAGRAM**
SCALE: NOT TO SCALE

5 **NODE #19 WIRING DIAGRAM**
SCALE: NOT TO SCALE

6 **NODE #21 WIRING DIAGRAM**
SCALE: NOT TO SCALE




NEWTORIA

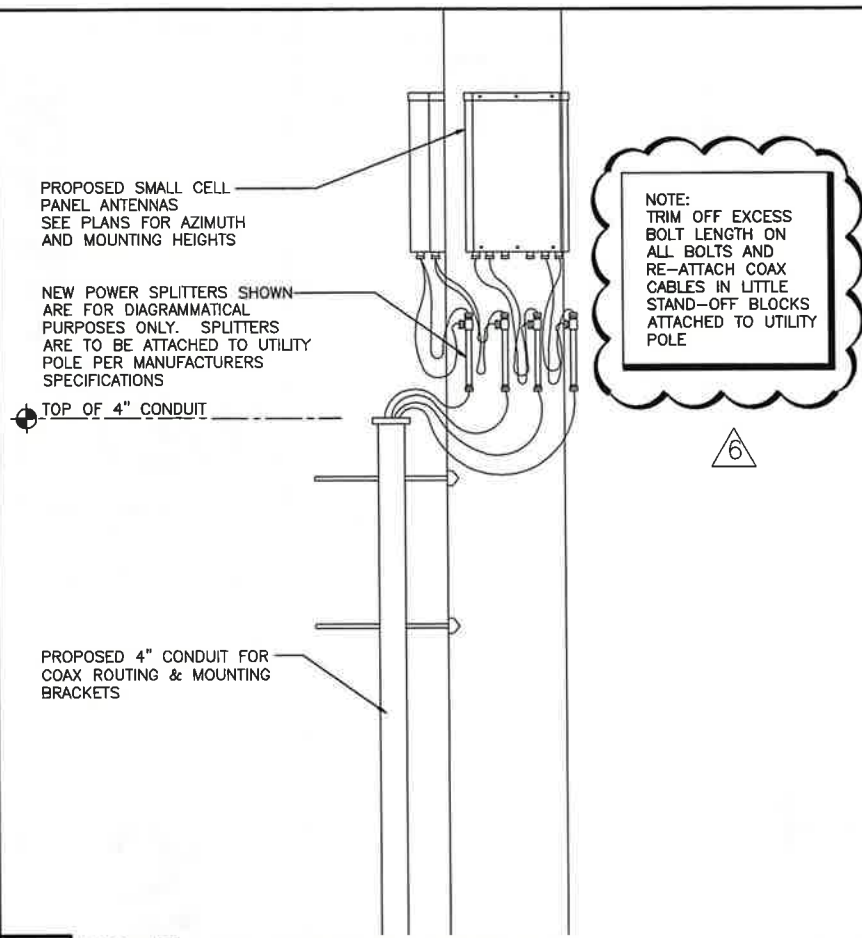
(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

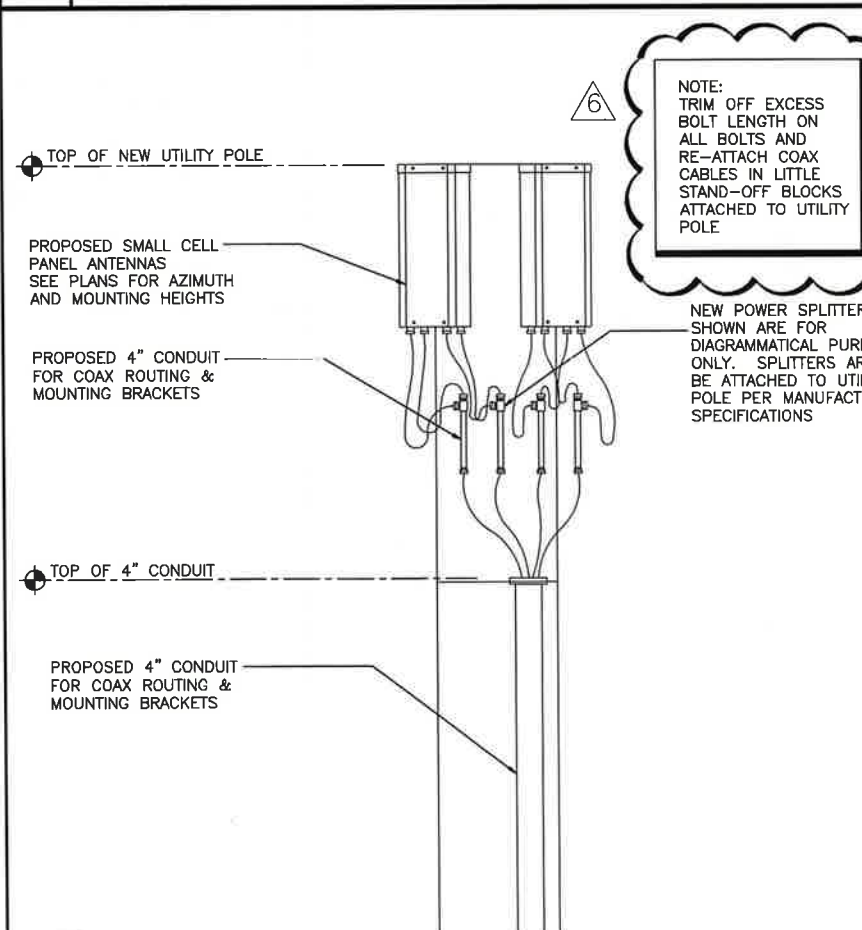


19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 280-8651
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

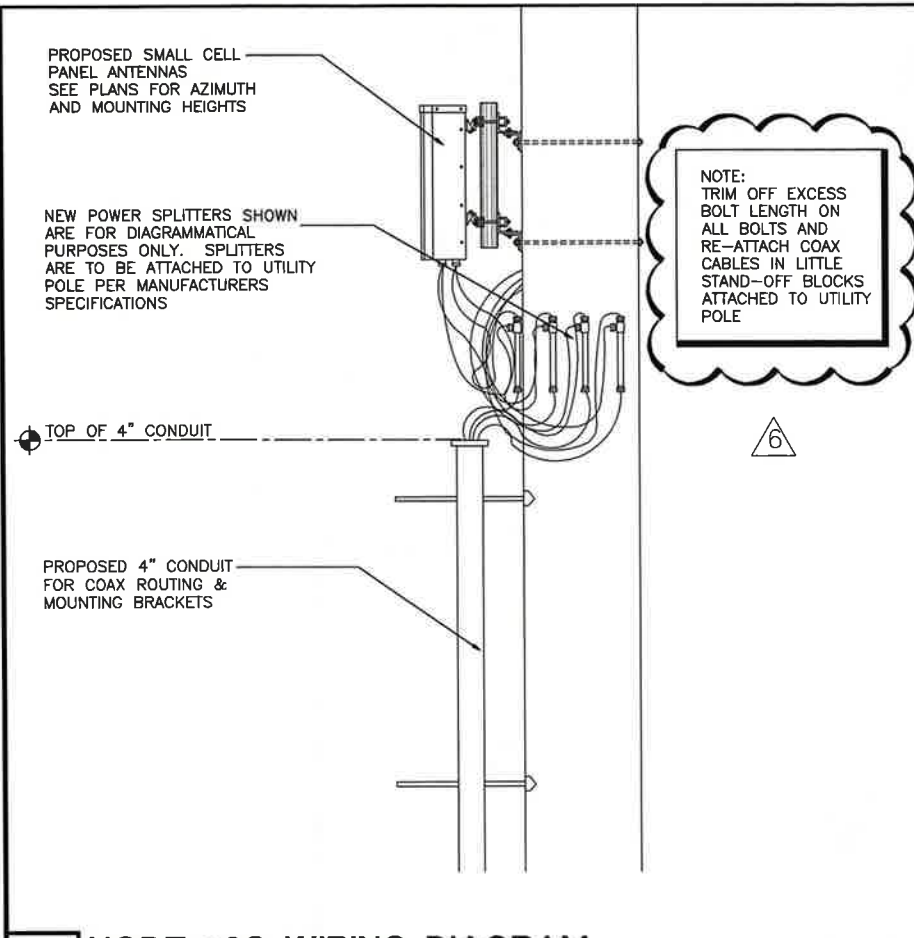
PROJECT MANAGER: EJC																												
PREPARED BY: GA																												
APPROVED BY: EJC																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">ISS</td><td style="width: 20%;">3/22/18</td><td style="width: 60%;">PRELIM PERMIT ISSUE</td></tr> <tr><td>GA</td><td>11/21/17</td><td>PRELIM PERMIT ISSUE</td></tr> <tr><td>GA</td><td>8/29/17</td><td>PRELIM PERMIT ISSUE</td></tr> <tr><td>GA</td><td>7/19/17</td><td>PRELIM PERMIT ISSUE</td></tr> <tr><td>GA</td><td>9/14/16</td><td>PRELIM PERMIT ISSUE</td></tr> <tr><td>GA</td><td>6/17/16</td><td>PRELIM PERMIT ISSUE</td></tr> <tr><td>GA</td><td>5/13/16</td><td>PRELIM PERMIT ISSUE</td></tr> <tr><td>GA</td><td>3/30/16</td><td>PRELIM PERMIT ISSUE</td></tr> <tr><td>GA</td><td>3/22/16</td><td>PRELIM PERMIT ISSUE</td></tr> </table>	ISS	3/22/18	PRELIM PERMIT ISSUE	GA	11/21/17	PRELIM PERMIT ISSUE	GA	8/29/17	PRELIM PERMIT ISSUE	GA	7/19/17	PRELIM PERMIT ISSUE	GA	9/14/16	PRELIM PERMIT ISSUE	GA	6/17/16	PRELIM PERMIT ISSUE	GA	5/13/16	PRELIM PERMIT ISSUE	GA	3/30/16	PRELIM PERMIT ISSUE	GA	3/22/16	PRELIM PERMIT ISSUE	
ISS	3/22/18	PRELIM PERMIT ISSUE																										
GA	11/21/17	PRELIM PERMIT ISSUE																										
GA	8/29/17	PRELIM PERMIT ISSUE																										
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GA	6/17/16	PRELIM PERMIT ISSUE																										
GA	5/13/16	PRELIM PERMIT ISSUE																										
GA	3/30/16	PRELIM PERMIT ISSUE																										
GA	3/22/16	PRELIM PERMIT ISSUE																										
SHEET NAME COAX WIRING DIAGRAM																												
SHEET NUMBER A-42																												
PROJECT NUMBER --																												



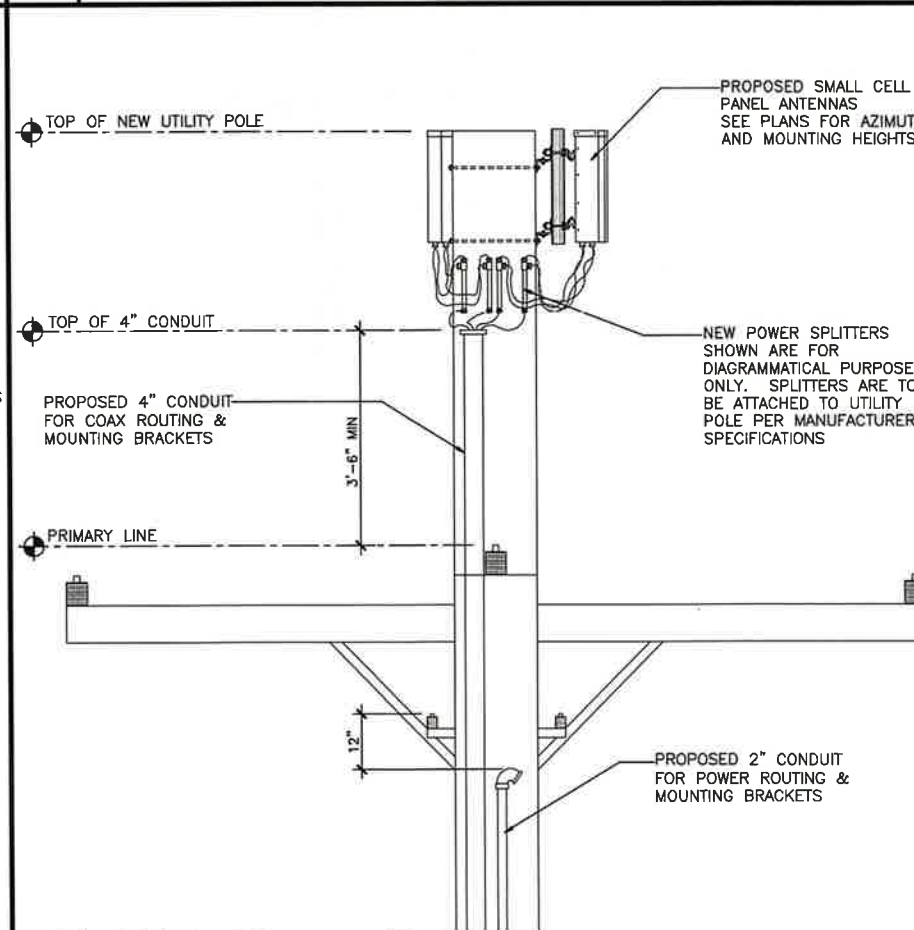
1 **NODE #22 WIRING DIAGRAM**
SCALE: NOT TO SCALE



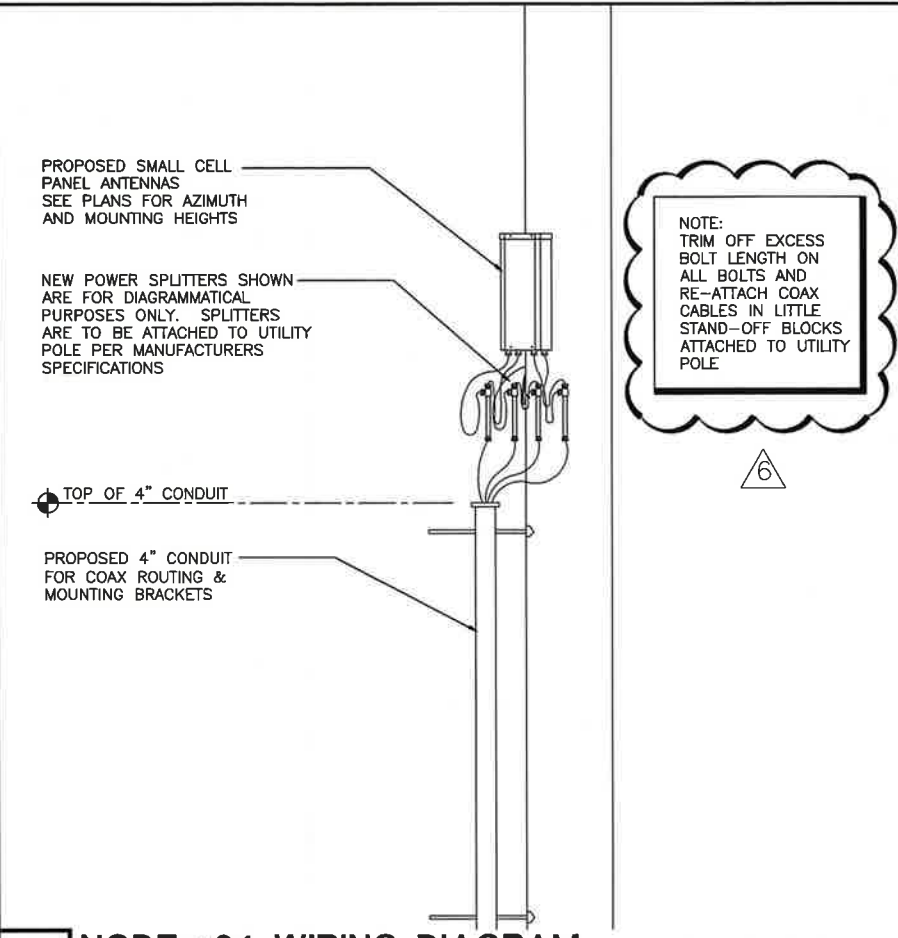
4 **NODE #36 WIRING DIAGRAM**
SCALE: NOT TO SCALE



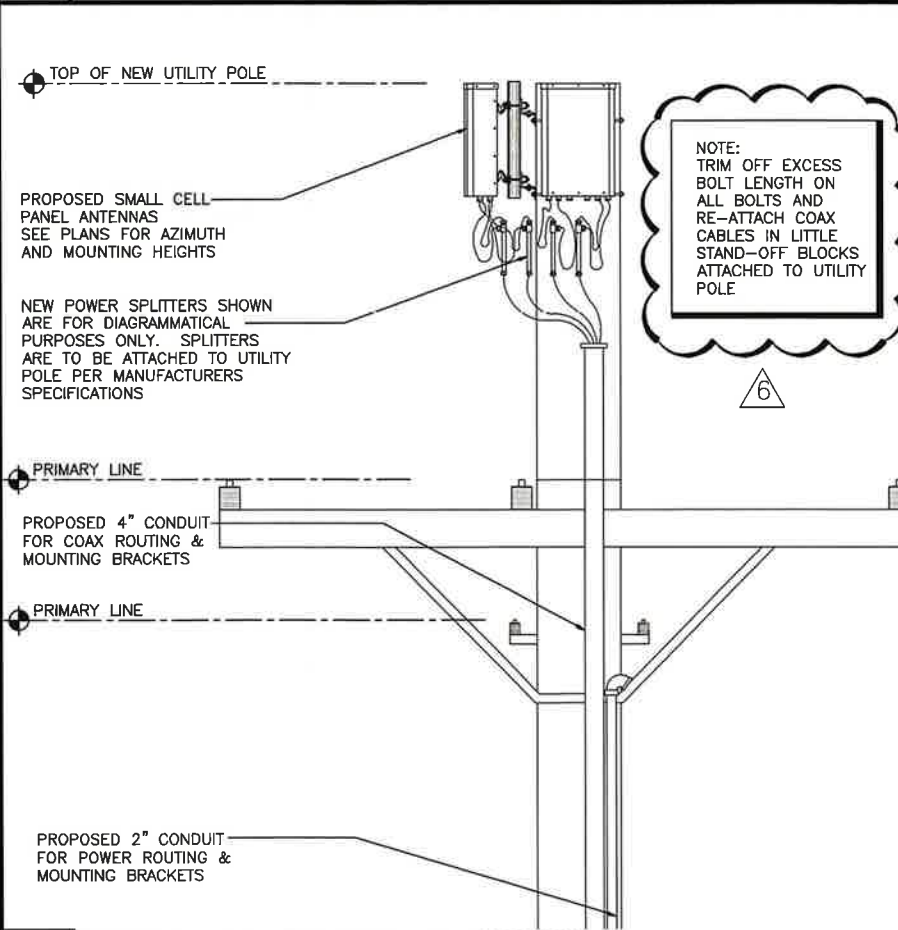
2 **NODE #23 WIRING DIAGRAM**
SCALE: NOT TO SCALE



5 **NODE #37 WIRING DIAGRAM**
SCALE: NOT TO SCALE



3 **NODE #24 WIRING DIAGRAM**
SCALE: NOT TO SCALE



6 **NODE #38 WIRING DIAGRAM**
SCALE: NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

CAMP+ ASSOCIATES

19401 40TH AVENUE W, SUITE 304
LYNNWOOD, WA 98036
CELL: (425) 260-8851
FAX: (425) 224-1614
WWW.CAMPASSOC.COM

PROJECT MANAGER: EJC

PREPARED BY: GA

APPROVED BY: EJC

ISS 3/22/18	PRELIM PERMIT ISSUE
GGA 11/21/17	PRELIM PERMIT ISSUE
GGA 8/29/17	PRELIM PERMIT ISSUE
GGA 7/19/17	PRELIM PERMIT ISSUE
GGA 9/14/16	PRELIM PERMIT ISSUE
GGA 6/17/16	PRELIM PERMIT ISSUE
GGA 5/13/16	PRELIM PERMIT ISSUE
GGA 3/30/16	PRELIM PERMIT ISSUE
GGA 3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

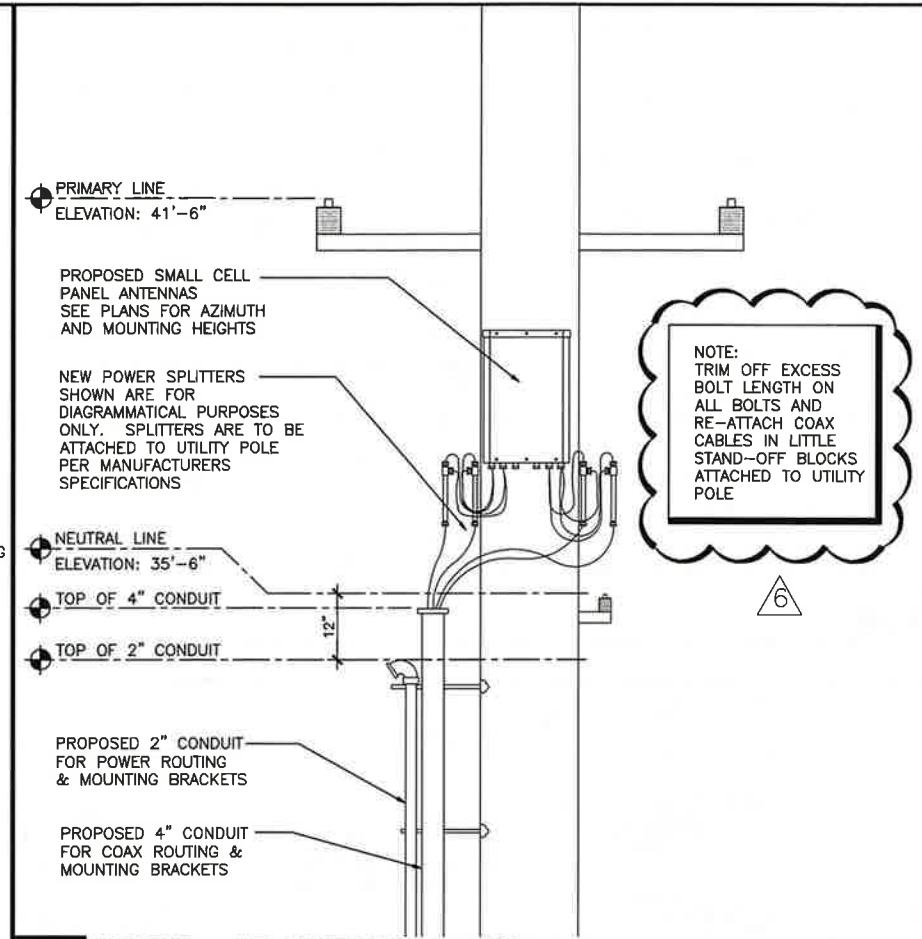
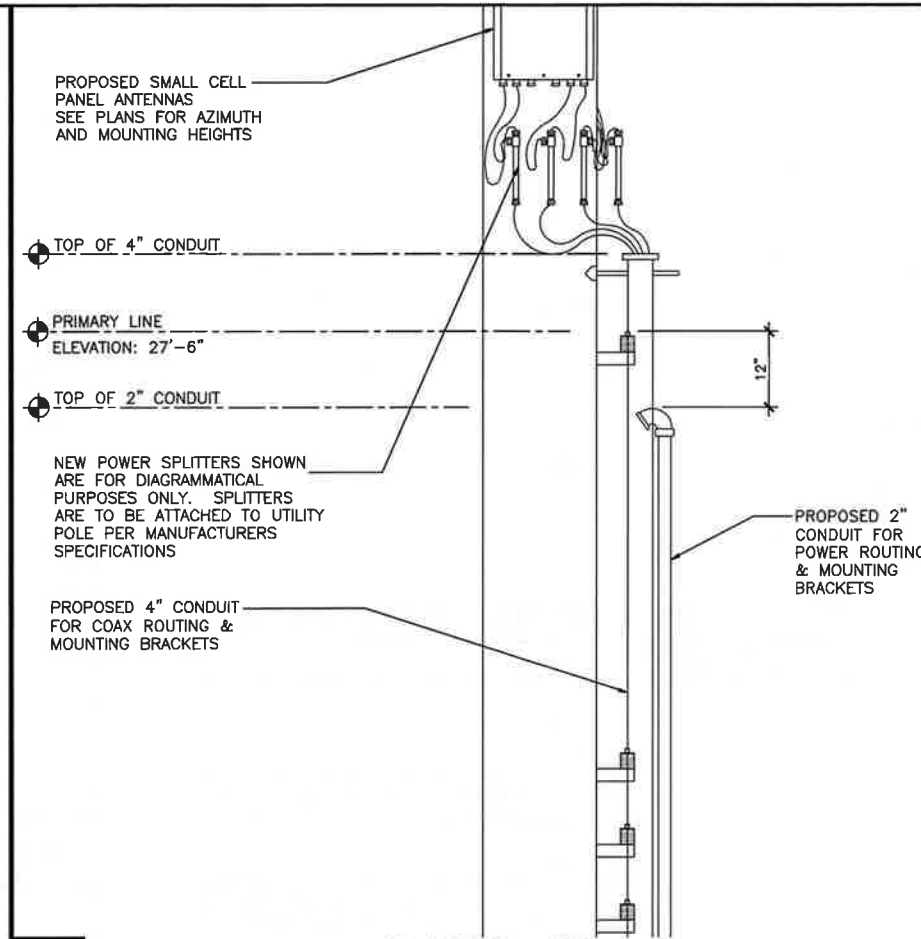
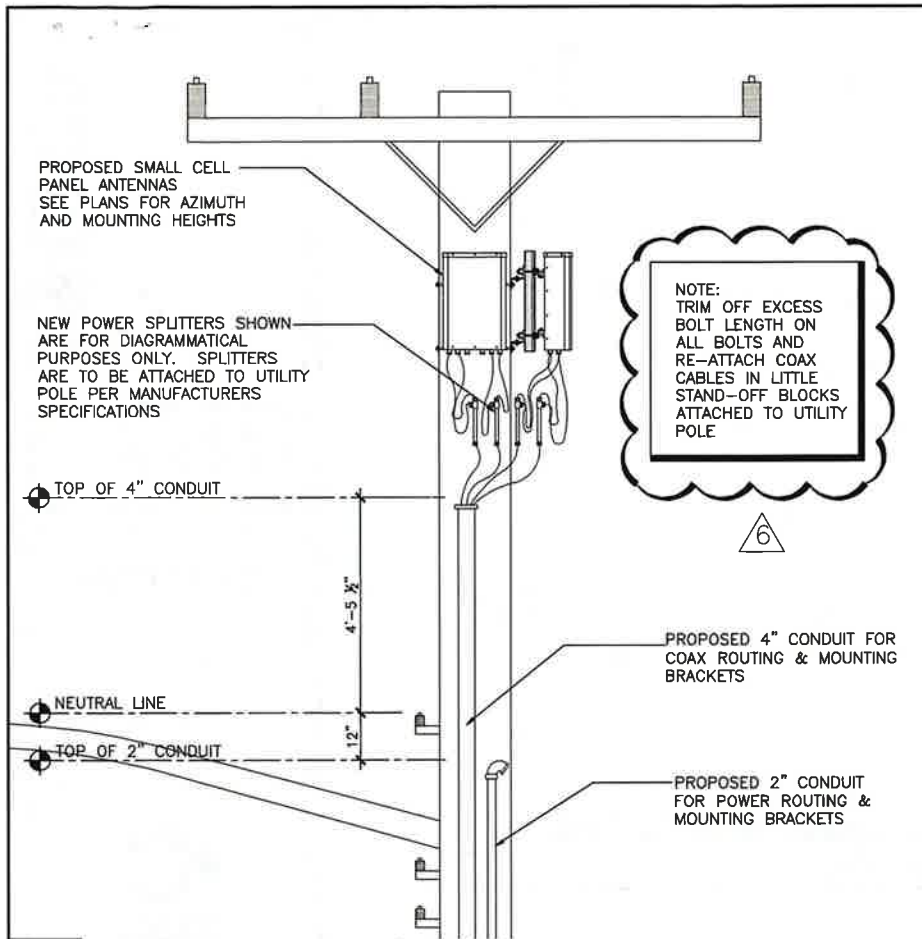
COAX WIRING DIAGRAM

SHEET NUMBER

A-43

PROJECT NUMBER

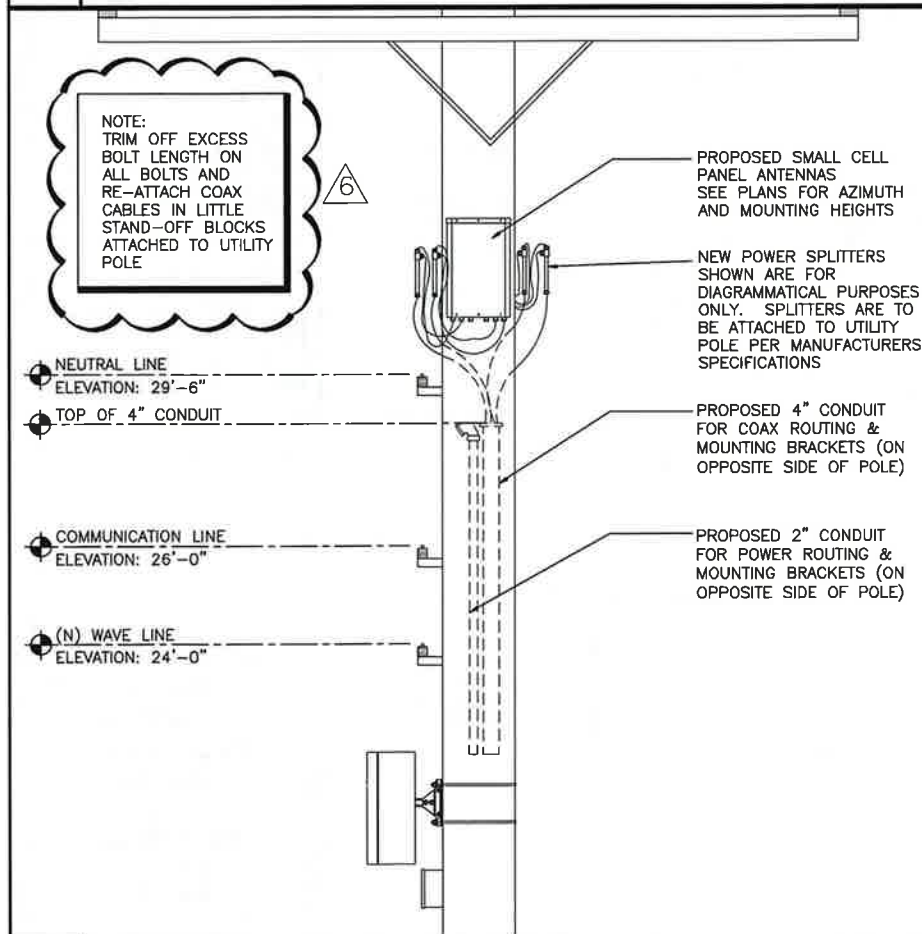
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1 NODE #44 WIRING DIAGRAM
SCALE: NOT TO SCALE

2 NODE #45 WIRING DIAGRAM
SCALE: NOT TO SCALE

3 NODE #47 WIRING DIAGRAM
SCALE: NOT TO SCALE



4 NODE #48 WIRING DIAGRAM
SCALE: NOT TO SCALE



NEWTORIA

(SMALL CELL)

SOUTHEAST BELLEVUE
BELLEVUE, WA

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3	GA	9/14/16	PRELIM PERMIT ISSUE
2	GA	6/17/16	PRELIM PERMIT ISSUE
1	GA	5/13/16	PRELIM PERMIT ISSUE
0	GA	3/30/16	PRELIM PERMIT ISSUE
A	GA	3/22/16	PRELIM PERMIT ISSUE

SHEET NAME

COAX WIRING
DIAGRAM

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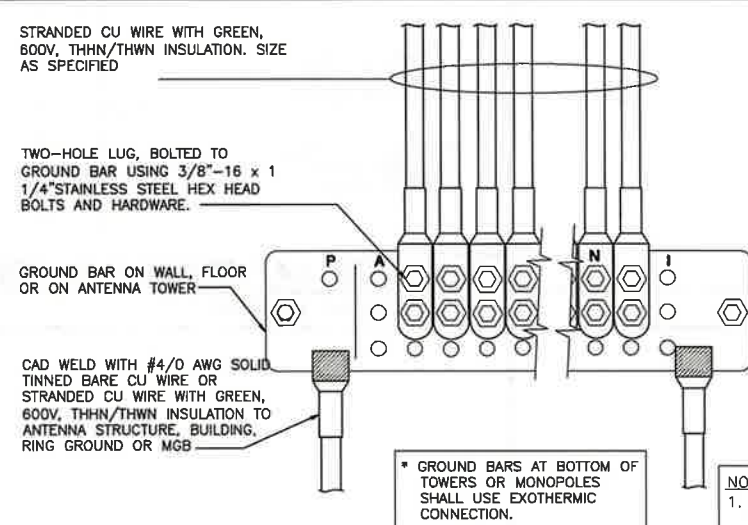
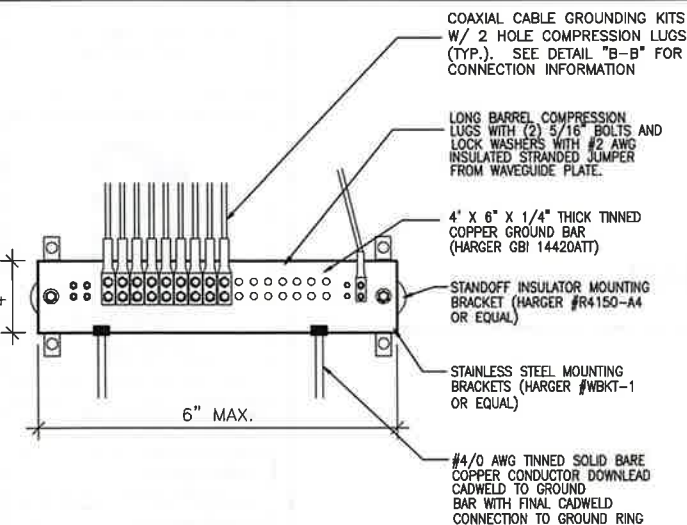
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1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS AND ALL APPLICABLE LOCAL CODES.
2. ALL GROUNDING SHALL CONFORM TO THE CURRENT VERIZON WIRELESS STANDARDS.
3. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5. PREFABRICATED SHELTER WILL BE PROVIDED WITH INTERNAL WIRING AND EQUIPMENT INSTALLED. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY SHELTER MANUFACTURER.
6. FOR INTERIOR EQUIPMENT LAYOUT AND LOCATION, SEE SHELTER MANUFACTURER'S DRAWINGS AND SPECIFICATION. IN CASE OF CONFLICT THE DRAWINGS GOVERN.
7. ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (CADWELD).
8. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING TWO (2) HIGH PRESS CRIMPS.
9. ALL EXOTHERMIC CONNECTIONS TO THE GROUND RODS SHALL START AT THE TOP & HAVE A VERTICAL SEPARATION OF 6" FOR EVERY ADDITIONAL CONNECTION.
10. ALL GROUNDING CONNECTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
11. ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG TIN PLATED COPPER UNLESS OTHERWISE INDICATED.
12. GROUND RODS SHALL BE STAINLESS STEEL OR COPPER CLAD STEEL, 3/4"x10'-FT. LONG, AND SHALL BE DRIVEN VERTICALLY WITH THEIR TOPS 30" BELOW FINAL GRADE OR 6" BELOW FROST LINE FOR MAXIMUM DEPTH.

13. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
14. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
15. GROUND RING SHALL BE LOCATED A MINIMUM OF 30" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
16. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE PAD, SPREAD FOOTING, OR FENCE.
17. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
18. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
19. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
20. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS.
21. MINIMUM BENDING RADIUS FOR GROUNDING CONDUCTORS IS 8" WHEN BENDING IS NECESSARY. GROUND CONDUCTORS ARE TO BE AS STRAIGHT AS POSSIBLE.
22. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
23. ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
24. GROUND BARS SHALL NOT BE FIELD MODIFIED.
25. ALL HORIZONTAL FENCE SECTIONS TO BE GROUNDING WITH 8" SINGLE BARREL GROUND STRAPS.
26. USE PANI SCHEME FOR LOADING ON MGB AS DISCUSSED IN NSTD 119, 33 & 38.

GENERAL NOTES

NOT TO SCALE



PANI SCHEME SPECIFICATIONS:

PRODUCER (P)
CONNECTS TO WIRELESS EQUIPMENT CABINETS, CABLE ENTRANCE GROUND BAR (CEGB), MAIN DISTRIBUTION FRAME GROUND BAR (MDFB), AND STANDBY ENGINE-GENERATOR SET FRAME AND OTHER NOISE PRODUCING EQUIPMENT

ABSORBER (A)
CONNECTS TO THE EARTH ELECTRODE SYSTEM INCLUDING CENTRAL OFFICE GROUND GRID, BUILDING STRUCTURAL GROUND, METALLIC WATER PIPE SYSTEM, ANTENNA SUPPORTING STRUCTURE GROUND SYSTEM, AND ELECTRICAL SERVICE ENTRANCE GROUND

NON-ISOLATED (N)
CONNECTS TO EQUIPMENT NOT IN AN ISOLATED GROUND ZONE (IGZ) SUCH AS CBN EQUIPMENT FRAME GROUNDS AND DC GROUND CONDUCTORS FOR DC POWER SYSTEMS THAT SERVE CBN OR BOTH CBN AND IBN EQUIPMENT

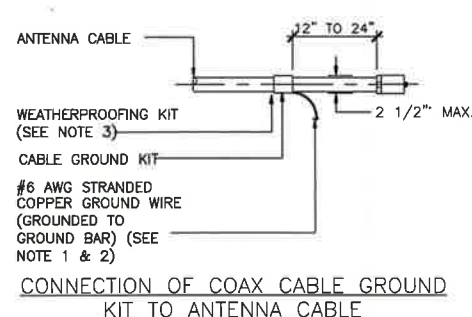
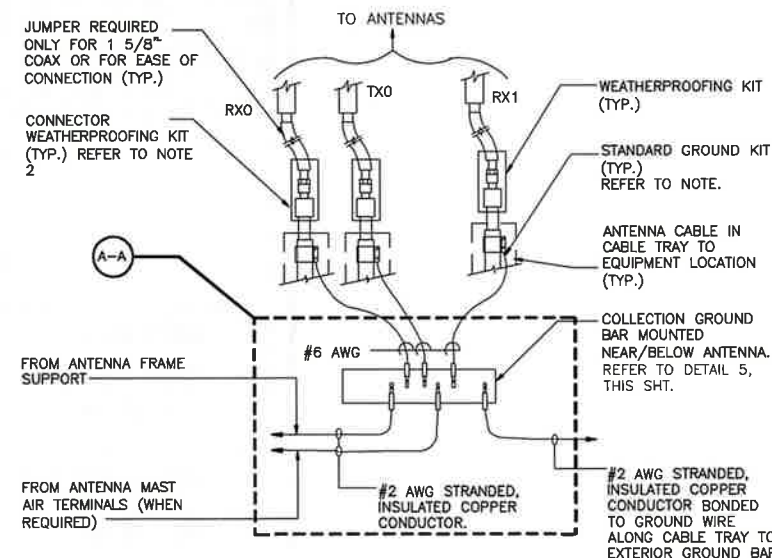
ISOLATED (I)
CONNECTS TO THE SINGLE POINT CONNECTION BAR (SPCB), FOR IBN EQUIPMENT

NOTES:

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

MASTER GROUND BAR DETAILS

NOT TO SCALE

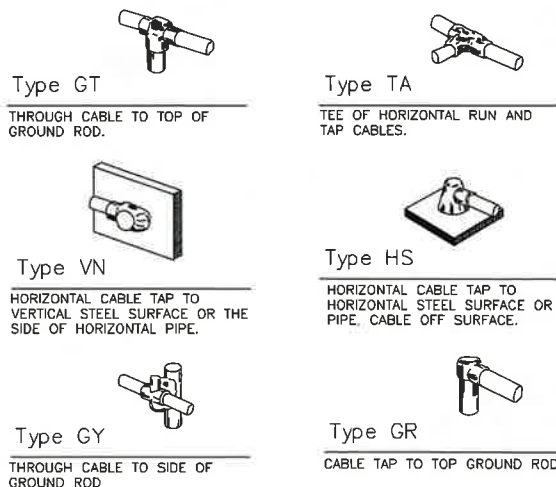


NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE ANDREW SUREGROUND TYPE KIT WITH TWO-HOLE LUG.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

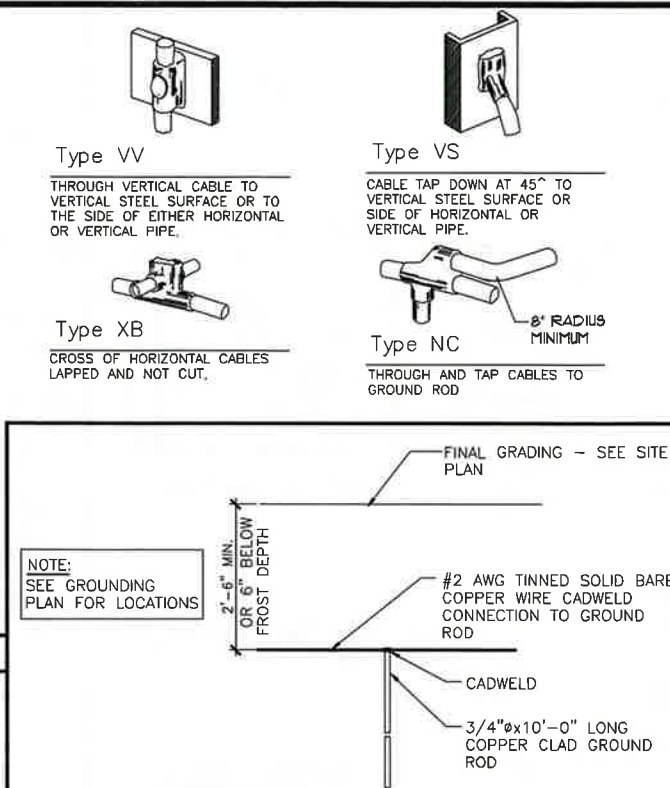
COAXIAL CABLE GROUND WIRE TO COLLECTION GROUND BAR CONNECTION

NOT TO SCALE



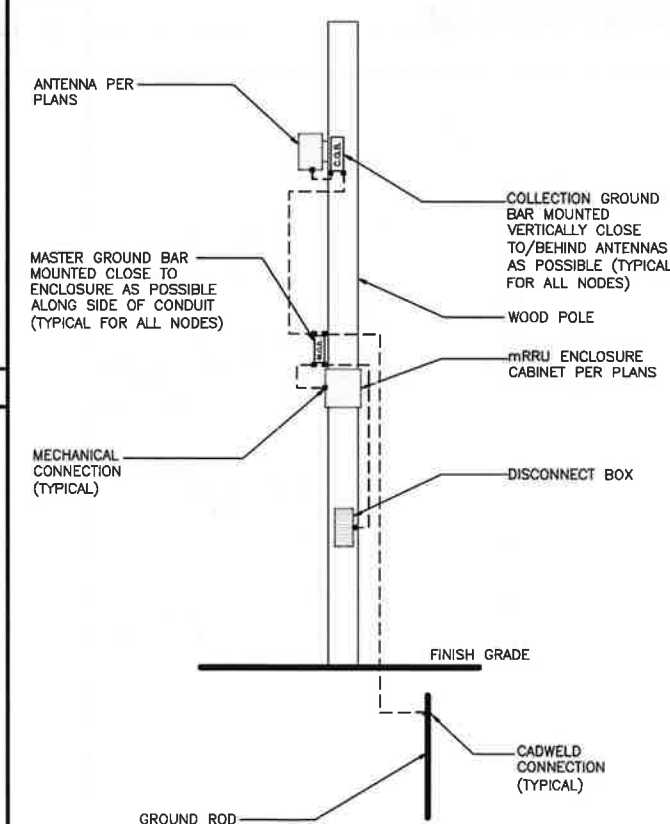
EXOTHERMIC WELD DETAILS

NOT TO SCALE



GROUND ROD DETAIL

NOT TO SCALE



TYPICAL GROUNDING DIAGRAM

NOT TO SCALE



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SHEET NAME
GROUNDING
DIAGRAMS AND
DETAILS

SHEET NUMBER

E-1

PROJECT NUMBER