

Alternative Sites Analysis

AT&T PD31 Bethany Crest

13937 NW Springville Road

Prepared By:
Tara Carmichael, Smartlink Group

6/12/26

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Introduction

AT&T's RF engineers performed an RF engineering study, considering multiple objectives, to determine the approximate site location and antenna height required to fulfill the noted network objectives for the targeted service area (also known as the "Search Ring"). When establishing the Search Ring, AT&T's RF engineers considered multiple factors, including coverage, clutter, call handoff, and quality of service (See Pages 23-24 of Revised RF Justification).

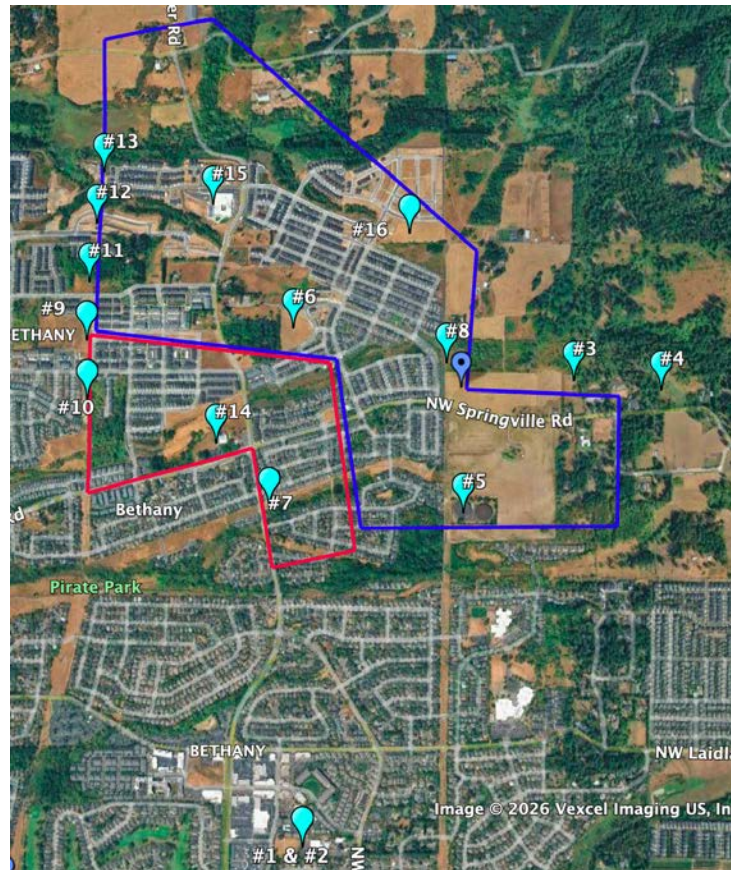
Once AT&T's RF engineers identify the Search Ring and minimum antenna height based on the above factors, an appropriate location within that Search Ring must be identified. To do so, AT&T considers all the following: the coverage objectives and the existing network infrastructure, adherence to local regulations, the presence of natural and manmade barriers, the availability of suitable sites with owners amenable to entering into an agreement, and the potential impact on aesthetics. The final decision on site selection is the culmination of evaluating all these critical factors:

- Radio frequency broadcasts travel in a straight line and diminish as they travel further away from the antennas, so it is generally best to place an antenna site near the center of the desired coverage area. Additionally, AT&T's radio frequencies do not penetrate mountains, hills, rocks, or metal, and are diminished by trees, brick and wood walls, and other structures. Accordingly, AT&T's antennas must be installed above or close to this "clutter" to provide high quality communications services in the desired coverage areas. Both these factors inform what locations within a Search Ring would be feasible.
- Many of the parcels within the Search Ring are single-family residential properties and were eliminated as infeasible locations as they were too small to provide for required setbacks to accommodate a new facility.
- Existing buildings within the Search Ring are primarily one- to two-story structures. WCF attachments are limited to +10 feet (Multnomah County) and +20 feet (Washington County), which would only allow for an antenna tip height of approximately 40-60ft, which would not meet coverage objectives.
 - Taller existing structures, like utility poles, were considered and are addressed herein.
- There were a number of riparian habitats identified within the Search Ring that were avoided to mitigate conflict with the riparian buffers.
- Height is limited to 100ft for a new tower in residential zones of Washington County. AT&T's RF Engineers identified a residential parcel near the center of the search ring and determined that an antenna tip height of 100ft would not provide adequate coverage within the Targeted Service Area. As elevation drops when moving away from the proposed site, surrounding residential parcels were also ruled out as unable to meet coverage objectives.
- Other parcels considered are addressed more completely herein.

Search Ring

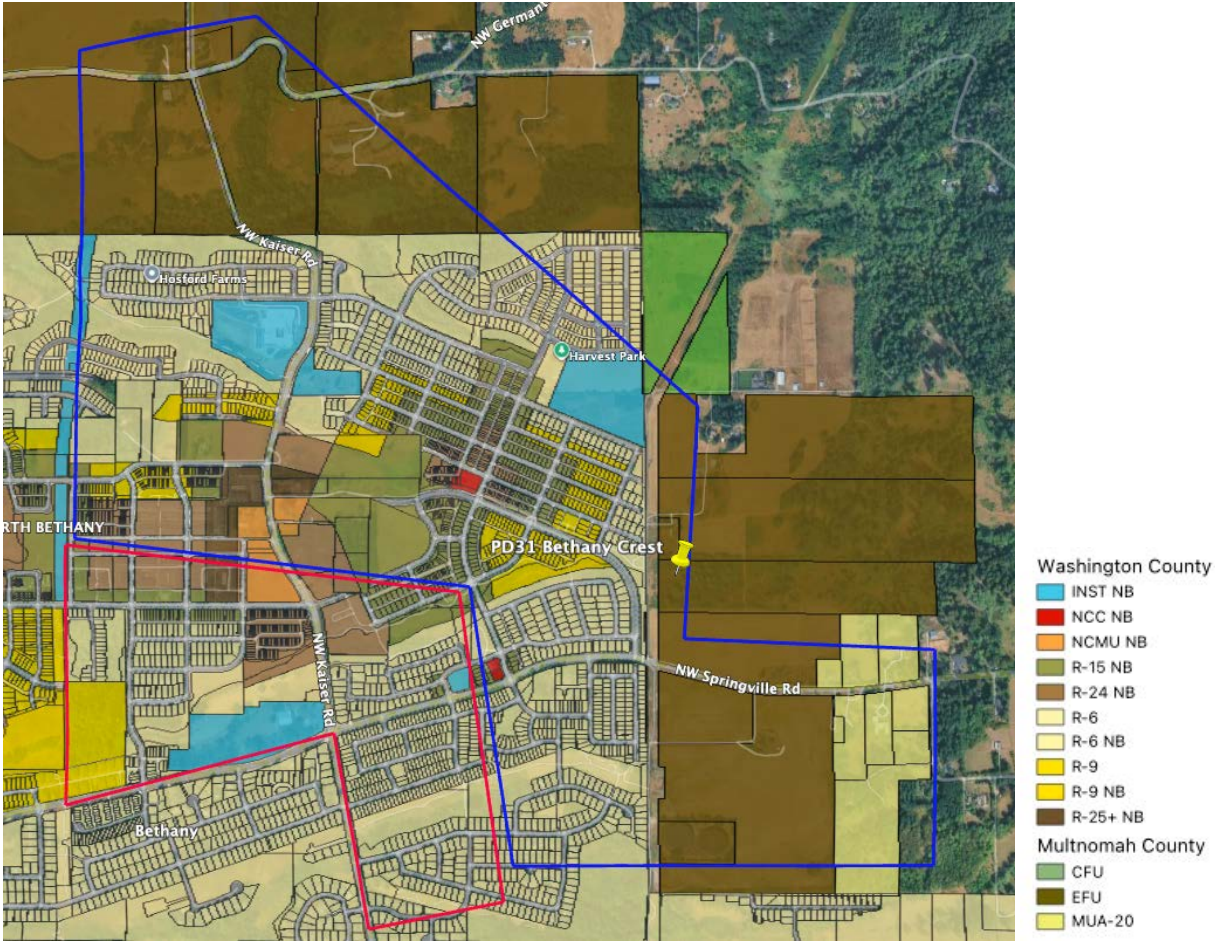
Summary: A search ring was provided by AT&T's Radio Frequency ("RF") Engineer identifying the project's coverage needs. The proposed facility is intended to fill a significant gap in AT&T's 4G LTE (voice and data) network coverage, especially enhancing in-building coverage and capacity along NW Kaiser Rd, NW Springville Rd, and NW Laidlaw Rd, including the residences in the North Bethany and Bethany neighborhoods. We reviewed this search ring and compared it to existing zoning, development requirements, land uses, and existing parcel conditions to select the proposed location.

Please note: The original search ring (red) included properties located in Washington County. The Search Ring was expanded (blue) when no feasible alternatives were identified as detailed herein.



Multnomah And Washington County Zoning Map

The original search ring encompassed Washington County, while the expanded search ring adds Multnomah County. The Multnomah County Zoning Code (Chapter 39) and Washington County Code (430-109) do not include a zoning hierarchy for Telecommunications but rather prioritize collocations and then concealed structures.



Topography Map

The site location elevation is approximately 418ft. To the northwest, west, and south of the proposed site the elevation steadily declines within the Search Rings. To the north and east, the elevation declines before increasing as it reaches Forest Park.



Alternative Analysis Summary

	Location	Distance to Proposed Location	Facility Type	Feasible? (Y/N)	Summary
1	Map & Tax Lot: 1N120DB02200 Address: 4545 NW Kaiser Rd Zone: Institutional (Wash)	1.2 miles	SBA Tower - Collocation	N	<ul style="list-style-type: none"> Existing 55ft SBA tower located outside both Search Rings. AT&T would need to mount its antennas at 30ft to utilize the existing structure. At this height, collocation is not feasible as it is too geographically distant and not tall enough to provide the coverage needed to establish a dominant signal within the Targeted Service Area (Figure E of Revised RF Justification), especially within the North Bethany neighborhoods and along NW Kaiser Road.
2	Map & Tax Lot: 1N120DB02200 Address: 4545 NW Kaiser Rd Zone: Institutional (Wash)	1.2 miles	SBA Tower – Collocation + 20ft	N	<ul style="list-style-type: none"> If the existing 55ft SBA tower was increased in height by 20ft to accommodate AT&T's antennas at 75ft, the coverage objectives could still not be met (Figure F of Revised RF Justification) within the residential neighborhoods and areas identified as needing coverage within the RF Justification.
3	Map & Tax Lot: 1N1W16C-00600 Address: 13839 NW Springville Rd Zone: MUA-20 (Mult)	0.25 mile	New Structure	N	<ul style="list-style-type: none"> The MUA-20 zone has a height limit of 120ft. At this height and at this distance from the targeted service area of the Bethany and North Bethany neighborhoods, a new tower here would not meet the coverage objectives (Figure G of Revised RF Justification) and would not provide coverage to the areas to the west or along Kaiser Road NW.

	Location	Distance to Proposed Location	Facility Type	Feasible? (Y/N)	Summary
4	Map & Tax Lot: 1N1W16D-02000 Address: 13303 NW Springville Rd Zone: MUA-20 (Mult)	0.50 mile	New Structure	N	<ul style="list-style-type: none"> The MUA-20 zone has a height limit of 120ft. At this height and at this distance from the targeted service area of the Bethany and North Bethany neighborhoods, a new tower at this location would also not provide coverage to the residential neighborhoods of Bethany (Figure H of Revised RF Justification).
5	Map & Tax Lot: 1N1W16C-02302 Address: 14120 NW Springville Rd Zone: EFU (Mult)	0.4 mile	Water Tank - Collocation	N	<ul style="list-style-type: none"> Existing water tanks: 37ft and 38ft If antennas were to be attached to the existing water tanks, height is limited to +10ft above the structure in Multnomah County. Antennas at this height would not meet AT&T's coverage objectives (Figure I of Revised RF Justification) and would not provide coverage to much of the targeted service area.
6	Map & Tax Lot: 1N117A000706 Address: No Situs Address Zone: R-24 NB (Wash)	0.6 mile	New Structure	N	<ul style="list-style-type: none"> Tualatin Hills Parks and Recreation property Height limit in the residential zones of Washington County is 100ft. This does not provide sufficient height to meet coverage objectives (Figure J of Revised RF Justification), especially the eastern portion of the targeted service area. The parcels surrounding this site would provide similar coverage with a tower of 100ft, and would therefore not meet AT&T's coverage objectives. Additionally, as you travel away from the proposed

	Location	Distance to Proposed Location	Facility Type	Feasible? (Y/N)	Summary
					site, the elevation decreases, which would further impact projected coverage.
7	Map & Tax Lot: 1N117DC05600 Address: No Situs Address Zone: R-6 (Wash)	0.60 mile	BPA - Collocation	N	<ul style="list-style-type: none"> Existing BPA H-Frame poles along BPA transmission corridor <ul style="list-style-type: none"> THPRD is the underlying property owner BPA does not allow collocation of wireless communication facilities on wooden pole structures. BPA has confirmed that poles on this line cannot be replaced with a steel pole to accommodate a wireless installation (See Attachment 5 to this Alternative Sites Analysis).
8	Map & Tax Lot: ROW, adjacent to 1N1W16C-00100 Zone: EFU (Mult)	200 feet	BPA – Collocation	N	<ul style="list-style-type: none"> Existing BPA H-Frame pole adjacent to subject parcel BPA does not allow collocation of wireless communication facilities on wooden poles. BPA has confirmed that this pole cannot be replaced with a steel pole to accommodate a wireless installation (See Attachment 5 to this Alternative Sites Analysis).
9	Map & Tax Lot: 1N117BC00100 Address: No Situs Address Zone: Institutional NB (Wash)	0.9 mile	PGE Tower – Collocation	N	<ul style="list-style-type: none"> Existing PGE transmission tower. <ul style="list-style-type: none"> Tualatin Hills Park and Recreation (THPRD) is the underlying property owner. PGE responded that due to ongoing activity on the transmission circuit, collocation would not even be considered until after Q4 2027. See Attachment 1 to this Alternative Sites Analysis.

	Location	Distance to Proposed Location	Facility Type	Feasible? (Y/N)	Summary
					<ul style="list-style-type: none"> • THPRD would also not consider use of the ground space for equipment due to possible future development and community-focused improvements. See Attachment 2 to this Alternative Sites Analysis. • Therefore, this is not a feasible option to meet the current coverage needs.
10	Map & Tax Lot: 1N117CB17600 Address: No Situs Address Zone: R-9 (Wash)	0.9 mile	PGE Tower - Collocation	N	<ul style="list-style-type: none"> • Existing PGE transmission tower. • The underlying property owner, Arbor Lakes HOA, declined to lease space to AT&T for ground equipment.
11	Map & Tax Lot: 1N117BC10900 Address: No situs address Zone: Institutional NB (Wash)	0.95 mile	PGE Tower - Collocation	N	<ul style="list-style-type: none"> • Existing PGE transmission towers. • PGE responded that due to ongoing activity on the transmission circuit, collocation would not be considered at this time. See Attachment 4 to this Alternative Sites Analysis. • Given the current coverage needs, these transmission towers are not a feasible alternative.
12	Map & Tax Lot: 1N117BB19600 Address: No situs address Zone: Institutional NB (Wash)	0.98 mile			
13	Map & Tax Lot: 1N117B018500 Address: No situs address Zone: Institutional NB (Wash)	1 mile			
14	Map & Tax Lot: 1N117CA00200 Address: 15505 NW Springville Rd Zone: Institutional NB (Wash)	0.6 mile	New Structure	N	<ul style="list-style-type: none"> • Bethany Presbyterian Church • The church was unresponsive to multiple inquiries for placement of a new structure.
15	Map & Tax Lot: 1N117BA00300 Address: 7775 NW Kaiser Rd Zone: Institutional NB (Wash)	0.7 mile	New Structure	N	<ul style="list-style-type: none"> • Beaverton School District informed AT&T that it no longer enters into wireless leases. See Attachment 3 to this Alternative Sites Analysis.
16	Map & Tax Lot: 1N117A001000 Address: No situs address	0.33 mile			

	Location	Distance to Proposed Location	Facility Type	Feasible? (Y/N)	Summary
	Zone: Institutional NB (Wash)				

*** Wash= Washington County; Mult = Multnomah County**

Attachment 1: Email from PGE

Tuesday, June 9, 2026 at 2:06:43 PM Pacific Daylight Time

Subject: RE: Proposed PGE tower collocation (PD31 Bethany Crest)
Date: Thursday, April 2, 2026 at 7:56:21 AM Pacific Daylight Time
From: Scott Ziska
To: Carly Nations, Ken Lyons
CC: Zebulon Brittsan
Attachments: image001.png, image002.jpg, image003.png, image004.png, image005.jpg, image006.png, image007.png, image008.png, image009.png, image010.png, image011.png

Carly,
Apologies for the delay, but we have finally heard back from our Transmission Engineering group.

Due to ongoing activity on this specific transmission circuit, we won't be able to conduct new cellular construction studies until Q4 2027. However, I encourage you to continue submitting inquiries for other sites of interest, and we will evaluate whether your proposed site is on this circuit.

Thanks,



Scott Ziska
Utility Asset Management Wireless Group | 541-232-2530 |
Scott.Ziska@PGN.com
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From: Carly Nations <carly.nations@wirelesspolicy.com>
Sent: Wednesday, March 25, 2026 3:55 PM
To: Scott Ziska <Scott.Ziska@pgn.com>; Ken Lyons <ken.lyons@wirelesspolicy.com>
Cc: Zebulon Brittsan <zebulon.brittsan@pgn.com>
Subject: Re: Proposed PGE tower collocation (PD31 Bethany Crest)

This email is from someone outside PGE.

Please take care when opening links, attachments or responding to this email.

Thanks for the update, Scott!

Best,

Carly Nations
Wireless Policy Group, LLC
(206) 484-2646
carly.nations@wirelesspolicy.com

From: Scott Ziska <Scott.Ziska@pgn.com>
Date: Monday, March 23, 2026 at 3:24 PM

To: Carly Nations <carly.nations@wirelesspolicy.com>, Ken Lyons <ken.lyons@wirelesspolicy.com>

Cc: Zebulon Brittsan <zebulon.brittsan@pgn.com>

Subject: RE: Proposed PGE tower collocation (PD31 Bethany Crest)

Carly,

Our Transmission Engineering team is meeting this week, and I hope to have something more definitive by early next week.

Thanks,



Scott Ziska

Utility Asset Management Wireless Group | 541-232-2530 |

Scott.Ziska@PGN.com

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From: Scott Ziska

Sent: Tuesday, March 10, 2026 12:49 PM

To: Carly Nations <carly.nations@wirelesspolicy.com>; Ken Lyons <ken.lyons@wirelesspolicy.com>

Cc: Zebulon Brittsan <zebulon.brittsan@pgn.com>

Subject: RE: Proposed PGE tower collocation (PD31 Bethany Crest)

Carly,

Just wanted you to know we haven't forgotten about you. I pinged our Transmission Engineering team again this morning and we'll hopefully hear something soon.



Scott Ziska

Utility Asset Management Wireless Group | 541-232-2530 |

Scott.Ziska@PGN.com

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From: Scott Ziska

Sent: Tuesday, March 3, 2026 2:14 PM

To: 'Carly Nations' <carly.nations@wirelesspolicy.com>; Ken Lyons <ken.lyons@wirelesspolicy.com>

Cc: Zebulon Brittsan <zebulon.brittsan@pgn.com>

Subject: RE: Proposed PGE tower collocation (PD31 Bethany Crest)

Carly,

We are waiting to hear back from our Transmission Engineering group regarding the feasibility of allowing a cell site on this tower.

Zeb or I will let you know as soon as we hear back from them.

Thanks,



Scott Ziska

Utility Asset Management Wireless Group | 541-232-2530 |
Scott.Ziska@PGN.com
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From: Carly Nations <carly.nations@wirelesspolicy.com>
Sent: Thursday, February 26, 2026 4:39 PM
To: Scott Ziska <Scott.Ziska@pgn.com>; Ken Lyons <ken.lyons@wirelesspolicy.com>
Cc: Zebulon Brittsan <zebulon.brittsan@pgn.com>
Subject: Re: Proposed PGE tower collocation (PD31 Bethany Crest)

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Yes, it would be for a macro site.

Thanks!

Carly Nations
Wireless Policy Group, LLC
(206) 484-2646
carly.nations@wirelesspolicy.com

From: Scott Ziska <Scott.Ziska@pgn.com>
Date: Thursday, February 26, 2026 at 4:34 PM
To: Carly Nations <carly.nations@wirelesspolicy.com>, Ken Lyons <ken.lyons@wirelesspolicy.com>
Cc: Zebulon Brittsan <zebulon.brittsan@pgn.com>
Subject: RE: Proposed PGE tower collocation (PD31 Bethany Crest)

Thanks Carly

I believe we have enough information to make a high-level assessment regarding the feasibility of this site. To confirm, this is a macro site, correct?



Scott Ziska

Utility Asset Management Wireless Group | 541-232-2530 |
Scott.Ziska@PGN.com
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From: Carly Nations <carly.nations@wirelesspolicy.com>

Sent: Thursday, February 26, 2026 4:23 PM
To: Ken Lyons <ken.lyons@wirelesspolicy.com>; Scott Ziska <Scott.Ziska@pgn.com>
Cc: Zebulon Brittsan <zebulon.brittsan@pgn.com>
Subject: Re: Proposed PGE tower collocation (PD31 Bethany Crest)

This email is from someone outside PGE.

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Thanks for the introduction, Ken.

Nice to meet you, Scott and Zeb! I know Ken provided the coordinates below, but please let me know if you need anything else. As noted in your email below, I won't expect an answer before Monday.

Best,

Carly Nations
Wireless Policy Group, LLC
(206) 484-2646
carly.nations@wirelesspolicy.com

From: Ken Lyons <ken.lyons@wirelesspolicy.com>
Date: Thursday, February 26, 2026 at 4:10 PM
To: Scott Ziska <Scott.Ziska@pgn.com>
Cc: Carly Nations <carly.nations@wirelesspolicy.com>, Zebulon Brittsan <zebulon.brittsan@pgn.com>
Subject: Re: Proposed PGE tower collocation (PD31 Bethany Crest)
Thanks Scott, and nice to meet you Zeb!

Carly - please provide any additional info Scott/Zeb need...

Best,

Ken Lyons

Senior Vice President – Jurisdiction Relations



(206) 227-0020 mobile | ken.lyons@wirelesspolicy.com

From: Scott Ziska <Scott.Ziska@pgn.com>
Date: Thursday, February 26, 2026 at 4:08 PM

To: Ken Lyons <ken.lyons@wirelesspolicy.com>
Cc: Carly Nations <carly.nations@wirelesspolicy.com>, Zebulon Brittsan <zebulon.brittsan@pgn.com>
Subject: RE: Proposed PGE tower collocation (PD31 Bethany Crest)

Hi Ken,

We do for macro sites. We always run these requests by our Transmission Engineering group to confirm there aren't any issues on their side, such as a future reconductor project. Other variables may include the ability to provide secondary power to the site, as well as ground lease issues. In general, however, we try to accommodate these requests whenever possible.

I don't have time to look at this today but will look at it further on Monday.

CC'ing Zeb Brittsan as he handles most new Macro builds.

Thanks,



Scott Ziska

Utility Asset Management Wireless Group | 541-232-2530 |

Scott.Ziska@PGN.com

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From: Ken Lyons <ken.lyons@wirelesspolicy.com>
Sent: Thursday, February 26, 2026 3:28 PM
To: Scott Ziska <Scott.Ziska@pgn.com>
Cc: Carly Nations <carly.nations@wirelesspolicy.com>
Subject: Re: Proposed PGE tower collocation (PD31 Bethany Crest)

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Please take care when opening links, attachments or responding to this email.

Hi Scott:

Does PGE allow for wireless collocations on PGE transmission/lattice towers? The AT&T request below was forwarded to one of my colleagues (Carly Nations). Wondering if you could point us in the right direction on if this is something that is allowed, and how we would go about applying. Carly can provide additional details as necessary, as she's copied here.

Lat/Long: 45.570501, -122.844584

Intersection: NW 162nd Ave, NW Bauman St, Portland



We appreciate your assistance!

Best,

Ken Lyons

Senior Vice President – Jurisdiction Relations



(206) 227-0020 mobile | ken.lyons@wirelesspolicy.com

From: Debbie Griffin <debbie.griffin@smartlinkgroup.com>
Sent: Friday, February 13, 2026 9:18 AM
To: Patricia.Wahr-Anderson@pgn.com <Patricia.Wahr-Anderson@pgn.com>
Subject: Proposed PGE tower collocation

Good morning,

I am reaching out to you on behalf of AT&T regarding a possible tower collocation they are interested in. The lat/long of the tower is: 45.570501/ -122.844584. The parcel id is: R590480. Would you be able to tell me if this tower is available for collocation, what the height of the tower is, and what height AT&T could install their equipment at? I have never worked on a project like this, so if you could provide me with some guidelines, I would greatly appreciate it.

Attachment 2: Email from THPRD

From: MARK HOKKANEN <m.hokkanen@thprd.org>
Sent: Thursday, March 26, 2026 8:36 AM
To: Debbie Griffin <debbie.griffin@smartlinkgroup.com>
Subject: RE: ATT Site Proposal

WARNING: This message was sent from outside the company. Please exercise your best judgement when opening or responding.

Debbie ~

Thank you for your recent request regarding a potential land lease. We just completed assessments last week and are responding to all carriers.

At this time, we want to inform you that the request will not be able to proceed due to potential impacts associated with the proposed use of the site. The property is currently being evaluated for future development and community-focused improvements, and there are concerns that the requested lease could conflict with those intended uses.

We appreciate your interest and understanding as we continue to assess long-term plans for this location. Should circumstances change, we would be open to revisiting opportunities in the future.

Please feel free to reach out if you have any questions.

Sincerely,

Mark

Mark A. Hokkanen, MS, CPRP | Risk & Benefits Manager (*he, him, his*)
Tualatin Hills Park & Recreation District | 15707 SW Walker Road, Beaverton, OR 97006
Cell 971-440-5255 | Fax 503-629-6380
Typical work schedule: M-F 8:00 am to 5:00 pm

A CAPRA Nationally Accredited Park and Recreation Agency
Working Safe so others can Play Safe



Attachment 3: Email from Beaverton School District

From: steven sparks <Steven_Sparks@beaverton.k12.or.us>
Sent: Monday, June 1, 2026 1:55 PM
To: Tara Carmichael <tara.carmichael@smartlinkgroup.com>
Subject: RE: Inquiry Regarding Wireless Communication Facilities on Beaverton School District Property

You don't often get email from steven_sparks@beaverton.k12.or.us. [Learn why this is important](#)

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Hello Ms. Carmichael -

We no longer enter into lease agreements for wireless communication facilities. The problems and complaints we have experienced from the three sites we currently host are not worth the revenue we receive.

Steven A. Sparks, AICP
Executive Administrator for Long Range Planning

Beaverton School District | Long Range Planning
1260 NW Waterhouse Avenue, Beaverton, OR 97006
Office: 503-356-4449

Attachment 4: Additional Email from PGE

Tuesday, June 9, 2026 at 2:22:20 PM Pacific Daylight Time

Subject: RE: Proposed PGE tower collocation (PD31 Bethany Crest)
Date: Thursday, May 14, 2026 at 5:14:45 PM Pacific Daylight Time
From: Scott Ziska
To: Carly Nations
Attachments: image001.png, image002.png, image003.jpg, image004.png, image005.png, image006.jpg, image007.png, image008.png, image009.png, image010.png, image011.png, image012.png

Hi Carly,
I confirmed all 3 of these towers are on the transmission circuit in question and won't be available for consideration until after Q4 2027. .

Thanks,



Scott Ziska

Utility Asset Management Wireless Group | 541-232-2530 |
Scott.Ziska@PGN.com
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From: Scott Ziska
Sent: Monday, May 11, 2026 8:02 AM
To: Carly Nations <carly.nations@wirelesspolicy.com>
Subject: RE: Proposed PGE tower collocation (PD31 Bethany Crest)

Hi Carly,
It's multiple towers on this circuit.

I'll look at these sites this week to get a better idea if the towers are on that circuit.



Scott Ziska

Utility Asset Management Wireless Group | 541-232-2530 |
Scott.Ziska@PGN.com
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From: Carly Nations <carly.nations@wirelesspolicy.com>
Sent: Thursday, May 7, 2026 3:49 PM
To: Scott Ziska <Scott.Ziska@pgn.com>
Subject: Re: Proposed PGE tower collocation (PD31 Bethany Crest)

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Please take care when opening links, attachments or responding to this email.

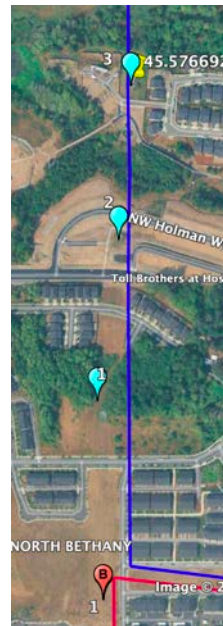
Hi Scott:

I had a clarifying question on the below:

Due to ongoing activity on this specific transmission circuit, we won't be able to conduct new cellular construction studies until Q4 2027.

Does the activity on the transmission circuit only apply to this transmission tower? Or does it apply to multiple towers in this corridor? There are a few PGE structures north of the proposed location where I was wondering if the same timeline applies:

1. 45.572558, -122.844603 (North of NW Ernst)
2. 45.574777, -122.844322 (off NW Holman Way via NW Shackleford Rd)
3. 45.576692, -122.844120 (NW Clover Lane)



Thank you!
Carly Nations
Director, Land Use & Entitlements
Wireless Policy Group, LLC
(206) 484-2646
carly.nations@wirelesspolicy.com

Attachment 5: Email from BPA

Thursday, June 11, 2026 at 10:09:11 AM Pacific Daylight Time

Subject: Fw: Line: STJO-KEEL-2 and Line: KEEL-OREC-2: BPA H-Style Utility Poles - Question on heights and WCF development requirements
Date: Thursday, June 11, 2026 at 7:38:58 AM Pacific Daylight Time
From: Tara Carmichael
To: Cary Nations
Attachments: image001.png, image008.png, image009.png, image010.png, image011.png, image012.png, image013.png, image014.png, image.png, image.png, image.png, image.png, image.png, image.png, image.png



Tara Carmichael
Project Manager

- 619-817-1229
- tara.carmichael@smartlinkgroup.com
- 10 Church Circle, Annapolis, MD 21401
- www.smartlinkgroup.com

From: Borrows, Michael J (CONTR) - TEZM-TSB-1 <mjborrows@bpa.gov>
Sent: Thursday, June 11, 2026 6:57 AM
To: Tara Carmichael <tara.carmichael@smartlinkgroup.com>; Keith, Brian E (CONTR) - TELP-TPP-3 <BEKeith@bpa.gov>; Toobian, Jonathan M (CONTR) - TIFP-CSB-2 <jmtoobian@bpa.gov>; Wireless Applications <WirelessApplications@bpa.gov>; Vaughn, Gregory M (BPA) - TPCF-MEAD-GOB <GMVaughn@bpa.gov>
Cc: Nussbaumer, John C (CONTR) - TELD-TPP-3 <jcnussbaumer@bpa.gov>
Subject: RE: Line: STJO-KEEL-2 and Line: KEEL-OREC-2: BPA H-Style Utility Poles - Question on heights and WCF development requirements

WARNING: This message was sent from outside the company. Please exercise your best judgement when opening or responding.

Tara,
These structures are not in the replacement "que". They cannot be replaced with a light duty steel pole to accommodate a wireless structural installation. The BPA wireless Team has determined that future upgrades, to a system on the light duty steel structure cannot accommodate future design changes...If you need more information please participate in the weekly conference calls, that Jonathan Toobian has scheduled. MJB

(Mike) Michael J. Borrows
Bonneville Power Administration Field CM
ACS Professional Staffing-Contractor
TEZM-TSB-1-Technical Services
Transmission Line Maintenance
(509) 638-3032
mjborrows@bpa.gov

From: Tara Carmichael <tara.carmichael@smartlinkgroup.com>
Sent: Wednesday, June 10, 2026 9:21 AM
To: Keith, Brian E (CONTR) - TELP-TPP-3 <BEKeith@bpa.gov>; Toobian, Jonathan M (CONTR) - TIFP-CSB-2 <jmtoobian@bpa.gov>; Wireless Applications <WirelessApplications@bpa.gov>; Vaughn, Gregory M (BPA) - TPCF-MEAD-GOB <GMVaughn@bpa.gov>
Cc: Borrows, Michael J (CONTR) - TEZM-TSB-1 <mjborrows@bpa.gov>; Nussbaumer, John C (CONTR) - TELD-TPP-3 <jcnussbaumer@bpa.gov>
Subject: Re: Line: STJO-KEEL-2 and Line: KEEL-OREC-2: BPA H-Style Utility Poles - Question on heights and WCF development requirements

Good day all,

Can you confirm these specific poles would not qualify for a steel replacement either?

Thanks!



From: Tara Carmichael <tara.carmichael@smartlinkgroup.com>
Sent: Thursday, June 4, 2026 11:46 AM
To: Keith,Brian E (CONTR) - TELP-TPP-3 <BEKeith@bpa.gov>; Toobian,Jonathan M (CONTR) - TIPF-CSB-2 <jmtoobian@bpa.gov>; Wireless Applications <WirelessApplications@bpa.gov>; Vaughn, Gregory M (BPA) - TPCF-MEAD-GOB <GMVaughn@bpa.gov>
Cc: Borrows,Michael J (CONTR) - TEZM-TSB-1 <mjborrows@bpa.gov>; Nussbaumer,John C (CONTR) - TELD-TPP-3 <jcnussbaumer@bpa.gov>
Subject: Re: Line: STJO-KEEL-2 and Line: KEEL-OREC-2: BPA H-Style Utility Poles - Question on heights and WCF development requirements

One more quick question needed for clarification.

Jonathan mentioned replacement to a steel pole has been considered in the past, can you confirm these specific poles would not qualify for a steel replacements either?

Thanks!



From: Keith,Brian E (CONTR) - TELP-TPP-3 <BEKeith@bpa.gov>
Sent: Thursday, May 28, 2026 2:47 PM
To: Tara Carmichael <tara.carmichael@smartlinkgroup.com>; Toobian,Jonathan M (CONTR) - TIPF-CSB-2 <jmtoobian@bpa.gov>; Wireless Applications <WirelessApplications@bpa.gov>; Vaughn, Gregory M (BPA) - TPCF-MEAD-GOB <GMVaughn@bpa.gov>
Cc: Borrows,Michael J (CONTR) - TEZM-TSB-1 <mjborrows@bpa.gov>; Nussbaumer,John C (CONTR) - TELD-TPP-3 <jcnussbaumer@bpa.gov>
Subject: RE: Line: STJO-KEEL-2 and Line: KEEL-OREC-2: BPA H-Style Utility Poles - Question on heights and WCF development requirements

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Just making sure you know all wood poles are disqualified no matter where they are located..

66.75' ~ is about right,,.....

I would say that is a bit low for a location due to average tree heights in our PNW area.

From: Tara Carmichael <tara.carmichael@smartlinkgroup.com>

Sent: Thursday, May 28, 2026 1:58 PM

To: Keith,Brian E (CONTR) - TELP-TPP-3 <BEKeith@bpa.gov>; Toobian,Jonathan M (CONTR) - TIPF-CSB-2 <jmtoobian@bpa.gov>; Wireless Applications <WirelessApplications@bpa.gov>; Vaughn, Gregory M (BPA) - TPCF-MEAD-GOB <GMVaughn@bpa.gov>

Cc: Borrows,Michael J (CONTR) - TEZM-TSB-1 <mjborrows@bpa.gov>; Nussbaumer,John C (CONTR) - TELD-TPP-3 <jcnussbaumer@bpa.gov>

Subject: Re: Line: STJO-KEEL-2 and Line: KEEL-OREC-2: BPA H-Style Utility Poles - Question on heights and WCF development requirements

Hi Brian, Thanks.

I just need the approximate heights to include in my alternative site justification as to why we are NOT collocating to these poles in addition to our option to potentially replace them as Jonathan mentioned below. We have a proposed site in the vicinity, and we just need to rule out all other alternatives.

Would you say they are roughly 60'?

Thanks!



Tara Carmichael
Project Manager

619-817-1229

tara.carmichael@smartlinkgroup.com

10 Church Circle, Annapolis, MD 21401

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From: Keith,Brian E (CONTR) - TELP-TPP-3 <BEKeith@bpa.gov>

Sent: Thursday, May 28, 2026 1:51 PM

To: Tara Carmichael <tara.carmichael@smartlinkgroup.com>; Toobian,Jonathan M (CONTR) - TIPF-CSB-2 <jmtoobian@bpa.gov>; Wireless Applications <WirelessApplications@bpa.gov>; Vaughn, Gregory M (BPA) - TPCF-MEAD-GOB <GMVaughn@bpa.gov>

Cc: Borrows,Michael J (CONTR) - TEZM-TSB-1 <mjborrows@bpa.gov>; Nussbaumer,John C (CONTR) - TELD-TPP-3 <jcnussbaumer@bpa.gov>

Subject: RE: Line: STJO-KEEL-2 and Line: KEEL-OREC-2: BPA H-Style Utility Poles - Question on heights and WCF development requirements

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If this is for a Wireless cell site, we cannot install on wood pole structures...