

BOARD of ADJUSTMENT



Joe Bazzoli
Board Chair
BOA@ci.moscow.id.us

Public Hearing
~ Agenda ~

Aimee Hennrich
Staff Liaison
208.883.7095

<https://www.ci.moscow.id.us/581/Agendas-and-Minutes>

Tuesday
August 24, 2021

7:00 PM

Council Chambers
206 E Third Street

WELCOME AND ATTENDANCE

REGULAR AGENDA

1. Approval of August 9, 2021 Minutes (ACTION ITEM)

PROPOSED ACTIONS: Approve minutes as presented; approve minutes with amendments; or provide staff further direction.

2. Public Hearing: City Council remand in part of a Conditional Use Permit application for a proposed 80' Wireless Communication Facility (WCF). The WCF will accommodate three carriers within a fully enclosed 800 sf lease area and would resemble a church tower per MCC 4-3-5(H) (ACTION ITEM)

The Board of Adjustment conducted a public hearing on this matter on March 29, 2021 and denied the Conditional Use Permit. The Conditional Use Permit was subsequently appealed to City Council at which time the Council remanded the matter in part to the Board for the inclusion of additional information into the record. Specifically, to determine whether the horizontal footprint and width of the proposed Wireless Communication Facility can be reduced in order to be less intrusive to the neighborhood and surrounding land uses and ultimately satisfy Criterion #2, of the Board's Reasoned Statement of Relevant Criteria and Standards document signed on April 7, 2021. The purpose of the public hearing is to enter this specific additional information into the record.

PROPOSED ACTIONS: Open the public hearing to receive additional information and testimony as instructed by the Council, review the applicant's response to reducing the horizontal footprint and width of the proposed Wireless Communication Facility as well as the three alternative designs, and in light of the new information presented, reconsider Criterion #2 of the Reasoned Statement of Relevant Criteria and Standards approved by the Board on April 7, 2021; or take such other action deemed appropriate.

ANNOUNCEMENTS

UPCOMING EVENTS/MEETINGS

Next Public Hearing scheduled for August 30, 2021.

ADJOURN

NOTICE: Moscow City Council and Commission meetings can be televised, videotaped, and/or recorded. Individuals attending the meeting who require special assistance to accommodate physical, hearing, or other impairments, please contact the City Clerk, at (208) 883-7015 or TDD 883-7019, as soon as possible so that arrangements may be made.

BOARD of ADJUSTMENT



Joe Bazzoli
Board Chair
BOA@ci.moscow.id.us

Public Meeting
~ Minutes ~

Aimee Hennrich
Staff Liaison
208.883.7095

<http://www.ci.moscow.id.us/354/Board-of-Adjustment>

Monday
August 9, 2021

5:30 PM

Mayor's Conference Room
206 E Third Street

Monson called the meeting to order at 5:33 PM

MEMBERS PRESENT: Mark Monson, Vice Chair; Steve Bush, Tim Thomson
MEMBERS ABSENT: Joe Bazzoli, Annette Bieghler, Marshall Comstock
STAFF: Jennifer Fleischman, Aimee Hennrich

REGULAR AGENDA

1. Approval of August 3, 2021 Minutes

Thomson moved for approval of the minutes as presented, seconded by Bush. Vote by Acclamation; Ayes: Unanimous (3). Nays: None. Abstentions: None. Motion carried.

2. Approval of Reasoned Statement of Relevant Criteria and Standards

Conditional Use Permit application for a Large Child Care Facility (21 or more children) located at 225 E Palouse River Drive within the Motor Business Zoning District (MB) per MCC 4-3-4.

Bush moved to approve the Relevant Criteria and Standards as presented, seconded by Thomson. Vote by Acclamation; Ayes: Unanimous (3). Nays: None. Abstentions: None. Motion carried.

REPORTS

ANNOUNCEMENTS

UPCOMING EVENTS/MEETINGS

Next Public Hearing scheduled for August 24, 2021.

The meeting adjourned at 5:35 PM

Joe Bazzoli, Chair

Date

NOTICE OF PUBLIC HEARING

Remand in Part of a Conditional Use Permit at 1400 E Seventh Street in the City of Moscow,
Permit Application LUP2021-0017

A public hearing at which you may be present will be conducted before the Board of Adjustment of the City of Moscow at which time the following proposal will be considered:

City Council remand in part of a Conditional Use Permit application for a proposed 80' Wireless Communication Facility (WCF). The WCF will accommodate three carriers within a fully enclosed 800 sf lease area and would resemble a church tower per MCC 4-3-5(H).

The Board of Adjustment conducted a public hearing on this matter on March 29, 2021 and denied the Conditional Use Permit. The Conditional Use Permit was subsequently appealed to City Council at which time the Council remanded the matter in part to the Board for the inclusion of additional information into the record. Specifically, to determine whether the horizontal footprint and width of the proposed Wireless Communication Facility can be reduced in order to be less intrusive to the neighborhood and surrounding land uses and ultimately satisfy Criterion #2, of the Board's Reasoned Statement of Relevant Criteria and Standards document signed on April 7, 2021. The purpose of the public hearing is to enter this specific additional information into the record.

HEARING DATE: Tuesday, August 24th, 2021

HEARING LOCATION: Council Chambers on the Second Floor of Moscow City Hall
206 East Third Street, Moscow, Idaho

MEETING TIME: 7:00pm

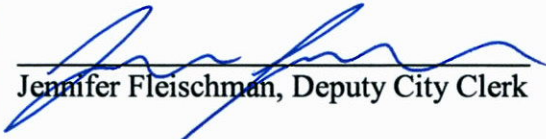
Note: Meeting start time is not necessarily indicative of hearing start time for the proposal advertised in this notice. Multiple hearings and/or agenda items may make it difficult to determine hearing start time, which could occur late in the meeting. The file containing information on this matter is available for public review at the Community Planning & Design Department located in the Paul Mann Building at 221 East Second Street, Moscow, Idaho. Call 883-7035 to get a meeting agenda and further information about the matter.

Verbal testimony at the hearing is generally limited to three (3) minutes time. Minor amounts of written materials (less than two (2) pages) may be submitted to the hearing body at any time prior to the close of comments, as

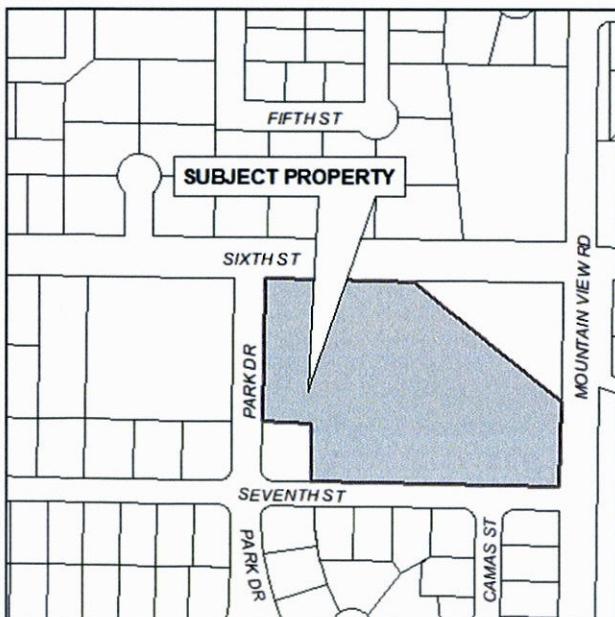
determined by the hearing body. More in-depth written materials require at least five (5) calendar days for review prior to the hearing. You may obtain further information about the public hearing process and procedures on the City's Website at:

<https://www.ci.moscow.id.us/593/Public-Hearing-Notices>

Laurie Hopkins, Moscow City Clerk


Jennifer Fleischman, Deputy City Clerk

Publish: Saturday, August 7, 2021



**BEFORE THE CITY COUNCIL
OF THE CITY OF MOSCOW, COUNTY OF LATAH,
STATE OF IDAHO**

**ORDER OF REMAND WITH INSTRUCTIONS FOR FURTHER CONSIDERATION
AND DECISION REGARDING A CONDITIONAL USE PERMIT APPLICATION TO
CONSTRUCT AN 80-FOOT-TALL WIRELESS COMMUNICATION FACILITY (WCF)
LOCATED AT 1400 E SEVENTH STREET IN THE CITY OF MOSCOW, IDAHO
WITHIN THE NEIGHBORHOOD BUSINESS (NB) ZONING DISTRICT PER MOSCOW
CITY CODE 4-3-4.**

WHEREAS, PI Tower Development, the applicant, filed an application for a Conditional Use Permit (LUP2021-0004) to construct an 80-foot-tall Wireless Communication Facility (WCF) on February 19, 2021; and

WHEREAS, the Moscow Board of Adjustment conducted a duly noticed public hearing upon the subject Conditional Use Permit application on March 29, 2021; and

WHEREAS, having considered the matter including all materials presented and testimony received, the Moscow Zoning Board of Adjustment denied the proposed Conditional Use Permit, based on Criterion #2, finding the WCF was not consistent with the existing character of the uses within the surrounding neighborhood and instructed Staff to prepare the Reasoned Statement of Relevant Criteria for the Board's review and approval; and

WHEREAS, on April 7, 2021, the Moscow Zoning Board of Adjustment met and approved the Reasoned Statement of Relevant Criteria and Standards establishing the Board's written decision upon the request and serving as the Board's final action upon the matter; and

WHEREAS, on April 16, 2021, Wireless Policy Group, filed a timely appeal to the decision of the Moscow Zoning Board of Adjustment in accordance with the requirements of Moscow City Code Section 4-8-5; and

WHEREAS, the Moscow City Council considered the appeal during a public meeting conducted on May 3, 2021; and

WHEREAS, the Moscow City Council reviewed the record established by the Board of Adjustment, did not consider any new or additional evidence, and heard appellant's argument on the appeal; and

WHEREAS, having considered the record established by the Board of Adjustment, and having considered the issues presented by the appellant and the applicant, the Council decided to remand the matter in part to the Zoning Board of Adjustment with instructions to consider retaining the architectural style, but reducing the diameter and overall massing of the proposed WCF to make it less intrusive to the neighborhood and surrounding uses.

THE CITY COUNCIL OF THE CITY OF MOSCOW, IDAHO, AFTER DUE DELIBERATION AND CONSIDERATION OF THE RECORD ESTABLISHED BY THE MOSCOW ZONING BOARD OF ADJUSTMENT AND HAVING CONSIDERED THE ISSUES PRESENTED BY THE APPELLANT AND THE APPLICANT, HEREBY CONCLUDES:

DECISION

The Moscow City Council hereby **REMANDS** the matter in part to the Zoning Board of Adjustment for the following sole and specific purpose:

1. To develop additional material information. Specifically, to determine whether the horizontal footprint and width of the proposed Wireless Communication Facility can be reduced in order to be less intrusive to the neighborhood and surrounding land uses and ultimately satisfy Criterion #2.

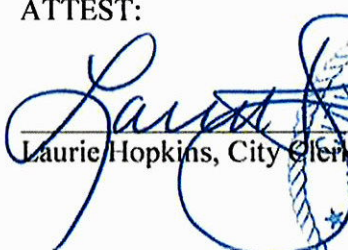
PASSED BY THE CITY COUNCIL OF THE CITY OF MOSCOW THE 17th DAY OF May, 2021.

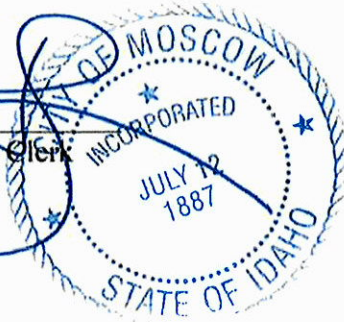


Bill Lambert, Mayor

CERTIFICATION. I hereby certify that the above is a true copy of the Council decision passed at a regular meeting of the City Council, City of Moscow, held on May 3, 2021.

ATTEST:


Laurie Hopkins, City Clerk



Moscow City Council



Regular Meeting ~Minutes~

www.ci.moscow.id.us

Laurie M. Hopkins
City Clerk

208.883.7015

Monday, May 3, 2021

7:00 PM

**Council Chambers
206 E. Third St.**

The meeting was called to order at 7:00 p.m.

PRESENT: Mayor Bill Lambert, Art Bettge, Sandra Kelly, Maureen Laflin, Brandy Sullivan, Gina Taruscio, Anne Zabala (virtual)

STAFF: Gary J. Riedner, Mia Bautista, Bill Belknap, Aimee Hennrichs, Bill Belknap, Mike Ray, David Schott, Tyler Palmer, Jen Pfiffner, Laurie M. Hopkins

PLEDGE OF ALLEGIANCE

Councilmember Taruscio led the Pledge of Allegiance.

PROCLAMATION - BIKE MONTH

Mayor Lambert read the Bike Month proclamation.

CONSENT AGENDA

1. All Consent Items (ACTION ITEM)

A. Approval of Moscow City Council April 19, 2021 Minutes - Laurie M. Hopkins

B. Public Art Guidelines 2021 - Megan Cherry

The Moscow Arts Commission and City staff propose updates to the Public Art Guidelines, which were originally created in 2011. During the intervening years, MAC and Arts staff have recognized the need for greater clarity in the areas of location prioritization as well as selection processes and criteria for each part of the Public Art Collection. Additionally, the City of Moscow Legal Department has provided updates to ensure that the document is in alignment with City code. Following development by the Public Art Subcommittee of the Moscow Arts Commission (MAC), the full MAC discussed these proposed updates during their March 9, 2021 meeting, and voted to recommend the guidelines on April 13, 2021. This was reviewed by the Administrative Committee on April 26, 2021 and recommended for approval.

ACTION: Approve the 2021 Public Art Guidelines.

C. Personnel Policy Updates, Pay and Leave Sections - Jen Pfiffner

Updates to the City of Moscow Personnel Policies continue. Leave, time and attendance, and pay policy drafts include updates to current policies and a new proposed policy. Updates to language throughout are included in the presented drafts, with significant changes to Military Leave and Sick Leave Bank policies. A new proposed Paid Parental Leave Policy is also included for consideration. The Administrative Committee reviewed the policies on April 26, 2021 and recommended approval of the policies with the changes noted below.

Changes made per the Administrative Committee's direction include:

- Paid Parental Leave -added language to read, "birth, adoption, or permanent full-time custody of a child nor previously under the employee's care"; "caregiver" with mention of parents; and "domestic partner" and "caregiver" as well as "assuming significant parental and financial responsibility for a child"
- Compensatory Pay - added "or if repeated requests to use compensatory time are unable to be scheduled and reasonable opportunities to use such time are unavailing.
- Compensatory Time - added In the event the supervisor or employee feel repeated requests for time have not been met or are not able to be accommodated, a request for such payout is to be directed to Human Resources for review.
- Holidays - "Columbus Day" corrected to "Indigenous People's / Columbus Day"

All changes are noted in track changes in the attached document. Policy sections will continue to be presented for review. As policies are approved, each section will become the current version for use. Timeline for completion for all policies to be updated, reviewed and approved is estimated to be completed by July 2021.

ACTION: Approve the leave, time and attendance, and pay policy drafts as presented.

D. Paradise Pathway Lighting Project - 2021 Bid Results and Contract Award - Nate Suhr

The City published an advertisement for bids on April 2nd, 2021 for the Paradise Pathway Lighting Project. The bid for the project includes the installing an electrical service connection, eighteen (18) lighted bollards, and twenty-nine (29) overhead lighting fixtures along the Paradise Pathway between Main Street and Styner Avenue located in Moscow, Idaho. Work also consists of the trenching and installation of approximately two thousand eight hundred and fifty (2,850) feet of conduit, accompanying electrical wire, and installing seven (7) junction boxes to power the lighting system. The Engineer's estimate for the project was \$178,035.40. Bid opening for the project took place on April 20th, 2021, at which one (1) bid was received. The bid received was in the amount of \$358,458.00 and was submitted by Germer Construction, Inc. A bid tabulation is attached. This was considered by Public Works/Finance Committee on April 26th and the Committee made the recommendation to reject all bids.

ACTION: Reject all bids.

E. Slurry Seal - 2021 Bid Results and Contract Award - Nate Suhr

The City published an advertisement for bids on April 2nd, 2021 for the Slurry Seal -2021 Project. The bid for the project consists of applying an Asphalt Slurry Seal Coat (Type II) at the following locations: Area 1 - Concord, Eisenhower, and Moser (56,717 SY); Area 2 – Adams, Spotswood, and Styner (44,320 SY); Area 3 – Jackson and "D" Street (3,186 SY). On April 12, 2021 an addendum was issued adding Area 4 - Lanny, Highland, and Kirk Drive (11,844 SY). The Engineer's estimate for the project, including the addendum, was \$197,313.90. Bid opening for the project took place on April 16th, 2021, at which four (4) bids were received. Of the responsive bids received, numbers ranged from \$207,759.93 to \$247,222.71. Blackline, Inc. was the low bidder on the project and a bid tabulation is attached. This was considered by the Public Works/Finance Committee on April 26, 2021 and recommended for approval.

ACTION: Accept the low bid from Blackline, Inc. and award the contract in the amount of \$207,759.93, and authorize staff approval for construction change orders in an amount not to exceed 10% (\$20,775.99) of the contract amount.

F. Acceptance of the Southview Extension Right-of-way Dedication - Bob Buvel

On June 17, 2019, the City Council approved a lot division on the parcel of land east of the Southview Avenue / Alice Street intersection. Every buildable lot is required by city code to abut public right-of-way so the lot split required a dedication of right-of-way that would extend Southview Avenue approximately

128 feet. The public improvements associated with the lot split have been completed and the right-of-way containing those improvement needs to be accepted by City Council per state code. The dedication was reviewed by the Public Works / Finance Committee on April 26, 2021 and recommended for acceptance.

ACTION: Accept the right-of-way dedication extending Southview Avenue.

Bettge moved and Taruscio seconded approval of the consent agenda as presented. Roll Call Vote: Ayes: Unanimous. Nays: None. Abstentions: None. Motion carried.

REGULAR AGENDA

2. Staff Recognition Report - Gary J. Riedner

None offered.

3. Mayors Appointments (ACTION ITEM)

Mayor Lambert presented appointments of Drew Davis to the Planning & Zoning Commission and Rebecca Couch to the Transportation Commission. Taruscio moved and Bettge seconded to approve the two appointments. Roll Call Vote: Ayes: Unanimous. Nays: None. Abstentions: None. Motion carried.

4. Public Comment and Mayor's Response Period (limit 15 minutes)

Schott presented a few pictures of the Arbor Day celebration and presented Mayor Lambert with the 2021 Tree City growth award for the 21st year.

5. Citizen Commission Report – Moscow Pathways Commission – David Schott / Jonathan Gradin

Schott introduced Jonathan Gradin, chair of the Moscow Pathways Commission. Gradin presented the mission statement and members of the Commission. Over the last two years, the Commission had an over/under community bike ride and grand opening, a socially distanced path tour and discussed memorial naming opportunities for pathway sections. The Commission also updated a brochure for the public, updated display banners with an updated map, and requested money for lighting from US95 to Styner Ave. Future goals include safety improvements at road crossings, continue to pursue an underpass at US-95, and pathway planning in new developments. The Commission continues to foster increased inclusivity and accessibility in the pathway system, organize volunteer cleanup project, and explore Highway 8 underpass beautification options.

6. Appeal of Conditional Use Permit at 1400 E Seventh Street (ACTION ITEM) - Aimee Hennrich

On February 19, 2021, PI Tower Development LLC applied for a Conditional Use Permit (CUP) to construct an 80-foot-tall Wireless Communication Facility (WCF) that would resemble a church tower, located at 1400 E Seventh Street. The Board of Adjustment (BOA) conducted a public hearing for the proposed CUP on March 29, 2021, and subsequently voted to deny the application. On April 16, 2021, the Community Planning and Design Department received an appeal letter from Wireless Policy Group on behalf of Parallel Infrastructure, stating that they wish to appeal the Board of Adjustment's decision to City Council.

PROPOSED ACTIONS:

1. After considering the record and appeal request; sustain the decision of the Board in whole or in part; reverse the decision of the Board in whole or in part; or remand the matter in whole or in part to the Board with comments and/or instructions for further consideration by the Board; or take other such action deemed appropriate.
2. Direct staff to prepare a written decision based on the Council's action.

Hennrich introduced the item by giving a history of the application and appeal. Height and location details were given. A site analysis of alternate locations was conducted and included the Vista water tower, Carol Ryrie Nature Park, 8th Street water tower, and East City Marketplace. The application met all development standard requirements. Three emails were received in opposition and 5 individuals testified in person, in which one was neutral. The BOA denied the application finding that the proposal did not meet Criteria #2: the character of the

proposed use will be in harmony with the neighborhood and surrounding land use.

Kim Allen, Wireless Policy Group and represents the applicant Parallel Infrastructure. Allen explained the decision of the BOA is unsupported by substantial information, not supported by the City Code, Comprehensive Plan, State Statutes or the evidence in the record. The BOA did find the application met all the other six criteria for CUP approval. The factors the BOA cited for Criteria 2 were cell tower looked out of place and not in harmony with surrounding neighborhood; surrounding neighborhood is primarily residential; scale of the proposed tower is significantly larger than other structures/trees in the surrounding neighborhood; public comment concern was regarding scale, noise and aesthetics; and lack of in-person testimony support from AT&T customers.

Kelly explained each: the bell tower structure was designed to reflect and compliment the design of the church and is a common feature on church properties; wireless facilities are a conditionally permitted use in the NB Zone and meets all the required setback requirements; the scale of the proposed facility is subjective and not supported by the record; citizen concerns regarding noise and aesthetics for denial were found to meet criteria 3 and 9 in regards to noise reduction and aesthetics, including the option for a decibel reading should there be a complaint; AT&T was not the applicant so their customers would not have known about the application.

Reasons the alternate sites were not chosen varied from site being too low, lack of availability, zoning, too far south to provide coverage for the needed area, etc. Staff added attaching directly to a water tower has adverse effects on the water and constructing a tower next to the tower would go beyond 80 feet and be in a residential area.

Taruscio felt there was improvement from the tree design to church tower however still has an issue with the scale of the tower. Two generators are proposed, one for AT&T and one for T-Mobile. A generator is in a double wall container and if noise became an issue, remediation can occur. Maintenance of the generators can be scheduled at whatever time during the day to not intrude on residents. Laflin also had an issue with the scale of the tower. The towers need a minimum height in order to accommodate three carriers with spacing between each.

Sullivan felt the tower had a larger presence than the tree and was more separate from the church. She asked if locating it closer to the church would be a possibility. Allen responded the position was based on the availability of power as well as church service parking. Sullivan asked if the council can remand for sizing and location. Bautista said if there is additional evidence that wasn't able to be presented at the BOA meeting and could have changed their decision, Council could remand with instructions. She explained further the BOA had the opportunity and could have addressed the issue of standards and design. Zabala asked for clarification on the height of the towers. Belknap explained a tower 80 feet or taller must allow for co-location of three carriers. A shorter tower can be approved but the applicant would be required to enter into an agreement to swap the existing tower for a taller one to accommodate additional carriers in the future should they desire to locate at that site. The City Code was intended to minimum the amount of structures and encourage co-location.

Kelly doesn't feel it meets the criteria for being aesthetically pleasing and common ground with neighborhood. She felt it is very large and looks like a guard tower. She understood the BOA decision because it should be pleasing to the entire neighborhood and she doesn't feel it is welcoming.

Laflin asked if there will ever be a tower at 80 feet tall that will ever be acceptable?

Bettge felt the application was much better thought out than the tree design. Churches everywhere tend to have steeples and bell towers, but he felt the robustness of the structure is in excess of what is needed. If the proposed tower could be slimmed down, Bettge feels it would be able to fit in. Taruscio agreed it is robust but it is within the Code and what was asked for. Bettge added that a motion could include directing staff to require reduction of the

robustness of the building during the development and permitting process. Belknap suggested the Council establish a specific standard so staff isn't determining "skinny enough". Any new design would be new information would be better to remand it to the BOA for a different proposal, new record, new hearing. Bautista read from the City Code and advised the Council to provide enough information to present and anticipate what is required. Riedner said if the Council wanted a percentage reduction of the footprint of the tower and the applicant needs to go back to the clients, the Council is not a fact finding body, so the only option is to remand.

Bettge moved to remand to BOA with instructions to consider a plan with reduced horizontal area of the cell phone tower and wait and see if applicant can fulfill that obligation. Motion died for the lack of a second. Taruscio moved to reverse the decision of the BOA in favor of the appellant. Bettge seconded.

Laflin said approving it as is doesn't answer whether it can be reduced in size. Kelly agrees coverage is needed but she feels now is the time to help the carriers to make towers more aesthetically pleasing. Roll Call Vote: Ayes: Two (Bettge, Taruscio). Nays: Four (4). Abstentions: None. Motion failed.

Laflin moved to remand the decision back to the BOA for purpose of determining whether or not the structure can be reduced in diameter. Kelly seconded. Belknap said that is difficult guidance to the BOA and wants to make sure the application is not in limbo. Laflin understood the concern but doesn't think people are comfortable with "what we have is what we need". She would like to know whether the applicant can scale the structure any further. Bettge commented something that reflects the design or appearance of the religious facility but something without that much mass. Sullivan added, because of that mass and distance from the main structure, the tower doesn't appear to be part of the church.

Roll Call Vote: Ayes: Unanimous. Nays: None. Abstentions: None. Motion carried. It is understood the motion included direction to staff to draft the instructions of remand to the BOA.

Mayor called a recess at 8:28 p.m. The meeting reconvened at 8:35 p.m.

7. BBC LLC Developer Participation Request (ACTION ITEM) - Bill Belknap

On April 8th of this year, City Staff received a request from Rich Beebe, representative of BBC LLC, owner of 232 acres located to the south of the City's playfield property located on W. Palouse River Drive, requesting the City's financial participation in the construction of the extension of Conestoga Road and the accompanying bridge construction as it provides mutual benefit to both parties. The total cost of the construction of the roadway, bridge and attendant utilities to the southerly boundary of the City's property is estimated at \$2,372,062. Staff will present information on the history of the City's property and prior proposed playfield development of the property for the Council's consideration.

PROPOSED ACTIONS: Review request and provide Staff direction.

Belknap introduced the item as written above and gave a brief history of the Palouse River Drive property and project cost breakdown for each segment in 2011. At the time, the City Council felt it was cost prohibitive to develop the property and suggested working with the MSD for the Joseph Street property. Staff determined that with an additional \$526,707 of allocation, the City would be able to fund all planned projects within FY2021 and continue to fund the anticipated future projects on the City's CIP. Staff recommends the City condition the financial contribution upon the requirement that BBC LLC improve West Palouse River Drive from the intersection with Conestoga Drive east to US95 to a minimum width of 34' with curbing and sidewalk on the south side of the roadway to the minor arterial standard. Improvements would accommodate the anticipated vehicle traffic that will result from the future development of the playfield property and the proposed residential development to the south.

Sullivan was concerned regarding additional traffic on Conestoga to the north. Bettge said having someone cooperate on Palouse River Drive is an advantageous proposal. Taruscio confirmed the participation wouldn't negatively impact the street improvement line in which Riedner explained when opportunities present themselves, monies can be reallocated and he gave an example. The ball field property has not in the capital improvement plan due to the cost and prioritization of others parks in the city. If done in a phased approach, it could be development within seven to ten years but development of ballfields on the property is not set in stone, it is at the discretion of the City Council. Concerns from 2011 were primarily the cost of development. Sullivan said this is investing money now but is long term planning and could be a better opportunity with BBC LLC stating in his letter his interest in affordable housing development. Sullivan suggested a fair housing incentive for developers.

Taruscio moved the City's financial contribution would be limited to no more than 50% of the actual cost of construction, shall not to exceed a total amount of \$1,078,210, and shall not be disbursed until completion and city acceptance of the Conestoga extension, bridge, and improvements to West Palouse River Drive. Bettge seconded. Riedner clarified staff prefers Council give staff direction to meet with the developer to move forward with an agreement with the above criteria. Taruscio amended her motion and Bettge accepted the amendment.

Zabala said fair housing discussion is pertinent now and supports the proposal. Kelly asked if this was a good time to direct staff to find chances to work with the developer to look at ways for incentives. Mayor Lambert and Taruscio feel it is a needed discussion but don't feel this is the time. Laflin would like more details about the BBC LLC April 8 letter in regards to the affordable housing comment. Bettge said the sequencing of discussion is important and negotiations should come along during the platting phase. This is the opportunity to develop infrastructure and premature to discuss at this point. Zabala didn't see a sense of urgency and want to discuss more. Sullivan pointed out the City has a developer that has same goal for affordable housing. Infrastructure participation is a tool for incentivizing.

Belknap explained the reason why affordable housing is mentioned in the letter is that BBC LLC does know affordable housing is a goal of the City Council. BBC LLC has talked with the Affordable Housing Trust about a particular parcel. Sullivan supports this proposal but wants to incentivize affordable housing and have staff explore options for that to be ensured. Roll Call Vote: Ayes: Two (Bettge, Taruscio). Nays: Four (4). Abstentions: None. Motion failed.

Riedner suggested there could be a motion along the same lines and include negotiation with the developer on an affordable housing proposal. Sullivan said she would move to direct staff to engage with the developer and Moscow Affordable Housing Trust to see if there are options that staff would recommend. Taruscio said this item is only a road improvement.

Belknap explained this is a unique circumstance as the only reason the City is entertaining the idea of participation is because it involves City property and provides access to that City property. By paying for improvements in exchange for housing, it could open the door for any private developer to ask the City to participate because they are providing some sort of reduced housing. Zabala doesn't see that as a risk as the City Council can always say no. Taruscio cautioned this could be perceived as a requirement and is not the time. Bettge pointed out Palouse River Drive is not infrastructure that would have been included in BBC's development which means they are participating in City property improvements. He feels negotiations for affordable housing should be when a plat is submitted. Sullivan reiterated her desire for incentives for affordable housing.

Taruscio moved Council give staff direction to meet with the developer to move forward with an agreement for Council consideration recommending that the City's financial contribution would be limited to no more than 50% of the actual cost of construction, shall not to exceed a total amount of \$1,078,210, and shall not be disbursed

until completion and city acceptance of the Conestoga extension, bridge, and improvements to West Palouse River Drive and direct staff to negotiate with the developer the potential for affordable housing participation, and report back to council. Sullivan seconded. Staff suggested the motion be phrased “direct staff to prepare an agreement for the financial contribution as outlined by staff and to include exploration of an affordable housing component for Council consideration.” The amendment was accepted by both Taruscio and Sullivan. Roll Call Vote: Ayes: Unanimous. Nays: None. Abstentions: None. Motion carried.

REPORTS

City Council

PBAC workshop – Taruscio said the workshop was for an interim update from consultants of project management of alternatives. The bulk of the discussion was around construction costs. A technical memo from the consultants will be ready in June and Council should see the memo shortly thereafter.

Parks & Recreation Commission – Sullivan said the Commission discussed the Palouse River Drive property and a proposal for delaying parkland dedication to a later phase in development.

Planning & Zoning Commission – Laflin said the Commission discussed Harvest Hills Addition.

Mayor

Mayor Lambert said the Airport Board is still discussing a Boise flight and U of I is helping with that. The AIC Legislative Session met and the legislature continues. He attended an Arbor Day celebration, Farmers Market, and the Martin Luther King essay and art awards.

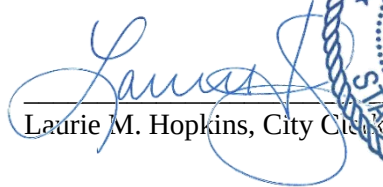
Staff

No report.

ADJOURN

The meeting adjourned at 9:40 p.m.

ATTEST:


Laurie M. Hopkins, City Clerk




Bill Lambert, Mayor

JULY 29, 2021

SUPPLEMENTAL REMAND NARRATIVE PACKET-PARALLEL INFRASTRUCTURE TOWER

SUBMITTED BY KIM ALLEN, WIRELESS POLICY GROUP, LLC FOR APPLICANT

When the Applicant appealed the Board of Adjustment's appeal to the Moscow City Council, the Council asked the Applicant to do some research to see if the tower structure's could be reduced and whether the tower could be moved closer to the church.

As the attached material illustrates, the proposed bell tower structure presented to the Board and the City Council cannot be reduced physically in height or diameter. We present some alternative ideas to mitigate the bulk concern.

DIAMETER- As the overview diagram of the interior of the tower shows, the antennas anticipated to be installed by AT&T are arrayed in a traditional 3 sided configuration. They are secured to a triangular platform with mounts that allow the antennas to be tilted up and down and side to side to direct the signal where that particular carrier needs to aim it to address their coverage objectives. The coverage from this illustrated AT&T configuration is focused to the north, the southwest and the southeast.

As you can see, the edges of the antennas are nearly flush with the outer walls of the structure, giving no room to reduce the overall diameter of the tower. Having a 4 sided tower, as currently proposed, is also important because each carrier has a different network configuration which may require that triangular platform to be rotated differently from the AT&T configuration shown. This rotation capability would be needed if, for example, the next carrier's coverage objectives were south, northwest and northeast. Having a 3 sided tower would make it difficult to accommodate these directional needs of additional carriers.

The city's goal of requiring space for collocation to reduce the overall number of towers needed could be negatively impacted if the tower is too narrow to allow for the different directional antenna configurations discussed above. The goal of the Applicant and the city is to have the additional collocation spaces be technically and commercially viable so that additional carriers can use those spaces as an alternative to a new tower for each.

HEIGHT-As the tower elevation drawing illustrates, the tower needs to be built to such a height that there is room for vertical separation between 3 carriers' antennas. There also needs to be room for each carrier to provide antenna separation between its own various antennas based on the different frequencies being used, to prevent interference. Finally, the overall tower height needs to be tall enough to accommodate all of that and still have the lower 2 collocation spaces remain tall enough to be technically viable for other carriers. That is why Parallel Infrastructure has requested the 80 foot height allowed under the code.

PROXIMITY TO THE CHURCH-Applicant reached out to the church to see if it was possible to move the tower closer to the church. We attach a letter from the church explaining that there are underground utilities, a fire hydrant and concerns about blocked access that make it infeasible to locate the tower closer to the church. Additionally, the proposed placement on the

site provides a greater level of natural screening by trees and other vegetation than other site locations.

ALTERNATIVE DESIGNS

We have included some alternative designs that could work and which would arguably reduce the visual impact of the tower's bulk. Any of these designs would be the same height and diameter of the currently proposed tower structure for the reasons discussed above.

1. Current tower with cut outs. As the attached photo shows, we can design the tower to have cut outs or windows from 40 feet to the ground. In the illustration, the church has placed racks of decorative bells horizontally in that space. This alternative allows a view through the structure provides visual relief from the current design and provides an appearance of reduced bulk. There is also an option for additional decorative detailing on either of the 4 sided tower designs to incorporate more elements of the church design.
2. 3 legged tower design. As discussed above, while this design reduces the visual bulk, the 3 sided design will also potentially reduce the collocation opportunities on the tower. For that reason, this is not a preferred alternative.
3. Monopole. As the Church mentions in its letter, the traditional monopole design can be far less bulky than the enclosed tower structure and can be painted to match the prevailing background to further reduce the visual impact. The diameter for the antenna platforms would be consistent with the proposed tower diameter but the support pole would be slimmer. (22 inches at the top tapering to approximately 35 inches at the base.)

CONCLUSION

Parallel Infrastructure has worked in good faith with the city to provide numerous alternatives to choose from that address the Board's concerns regarding bulk and visual impact. We explored options to reduce the original design and, when it was clear that was not technically feasible, we found some alternatives that will look and feel less bulky. Parallel Infrastructure can pursue whichever the Board chooses but asks the Board to approve one of them so the project can go forwards and bring the additional wireless capacity and coverage the community needs.



*Application for Conditional Use Permit
LM0572 East Moscow Hathaway
SE MOSCOW*

Tuesday, June 22, 2021

Re: Request to relocate cell site structure and decrease the footprint of structure

To whom it may concern:

Since the last hearing, we reviewed every possible means to reduce the footprint or the height of the proposed tower and/or move the tower closer to the church itself, as members of the Board of Adjustment requested. After careful study, we regret that it is not feasible or possible to make the requested changes for the following reasons:

Relocation of structure: The church is not able to accommodate the request to move the structure closer to the church building. Please see attached email per the Church decision

Reduction of footprint of structure:

- Due to the way the RF radio equipment needs to be staged within the interior of the structure we are unable to reduce the exterior footprint of 16'x 16'/interior to approximately 13'x13 as the equipment to be installed requires sufficient room for the power and RF cabinets currently needed, as well as future space for collocators' additional equipment.
- The 4 antennas to be installed for each sector are approximately 1' wide. The required separation between the antennas needs to be 3' to mitigate interference. The face of the tower exterior at 16' requires the steel frame to be a minimum 15' to accommodate the 4 antennas per sector. We currently have no more tolerance available to reduce the diameter. Please see exhibits below.

Sincerely,

A handwritten signature in black ink, appearing to read "Bryan Mullen", written over a light blue horizontal line.

Bryan Mullen
Parallel Infrastructure
Western Market Project Manager
Contractor
Bryan.Mullen@PItower.com
503-849-3288

Church Staff:

Ed Eby

Senior Pastor

edeby@moscownaz.org

Brian McGee

Children & Families Pastor

bmcgee@moscownaz.org

Diane Bussanich /

Office

Communications

Church Address:

1400 E 7th St.

Moscow, ID 83843

Phone:

208.882.4332

Web:

moscownaz.org

Email:

office@moscownaz.org

MOSCOW

Where CHURCH Meets LIFE!



June 15, 2021

Dear Neighbors and Interested Parties:

It has been suggested that the concealed tower be placed closer to our building. While we understand the concern, I'd like to address our congregation's perspective and needs.

As a congregation we considered all of the possible locations on our property and agreed to the current location because it is out of the way of our pedestrian and vehicle traffic. Placing it near the building would hinder movement around our building and potentially block windows or walkways. We also have major utilities running underground and a fire hydrant which would need to be rerouted if the tower were moved toward our building.

In addition, we placed the tower in the designed location because it would be near the trees to provide a visual buffer.

We consider this a much-used utility by the community, similar to power, cable and phone lines. In our attempt to "hide" the utility, it has increased in size and if, as a community, we would like it to make a smaller impact, a simple metal pole seems to be the smallest and least obtrusive design there is. I would suggest that monopoles are all around and we've grown so accustomed to them we don't even notice them. If it is essential to decrease the tower's footprint we are agreeable to a monopole because it will require less space on our property.

Through this opportunity, not only are we hosting the wireless utility so that our neighbors have quality coverage, but we will have additional funds to bless our members and community.

In conclusion, we are grateful for this opportunity. We have been involved in the design and placement of the tower and it has been approved by the many members of our congregation. We hope that we can come together and resolve this matter as a community.

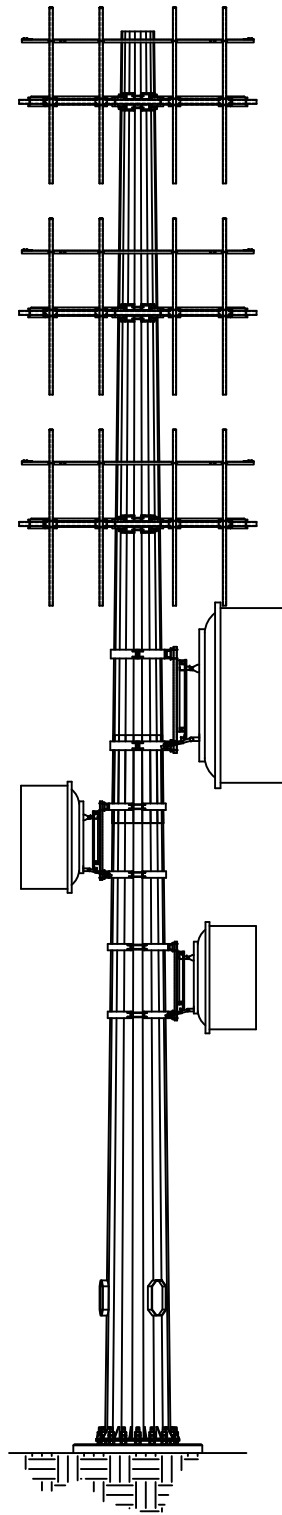
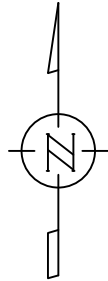
Yours to Count On,

Pastor Ed Eby









ELEVATION 80'
ELEVATION DETAIL

DESCRIPTION	GALV.
POLE SECTION ONE	5,079 lbs
POLE SECTION TWO	2,729 lbs

MONOPOLE DRAWINGS

INDEX OF DRAWINGS

DESCRIPTION	DWG#	DESCRIPTION	DWG#
EEI-NOTES	107430N1	WAVEGUIDE ENTRY PORT INSTALLATION	107430E04
SPECIAL INSPECTION STATMENT	107430SI	UPPER HAND HOLE INSTALLATION	107430E05
POLE ASSEMBLY DATA	107430E01	80' SAFETY CLIMB INSTALLATION	107430E06
FOUNDATION DESIGN	107430E02	LIGHTNING ROD INSTALLATION	107430E07
ANCHOR BOLT TEMPLATE INSTATLLATION	107430E03		

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EHRESMANN ENGINEERING, INC. AND SHALL NOT BE REPRODUCED OR USED IN WHOLE OR IN PART AS THE BASIS OF THE MANUFACTURE OR SALE OR ITEM(S) WITHOUT WRITTEN PERMISSION.

△			NAME
△			DRAWN BY: GE
△			CHECKED BY:
△			ENG APPR.
△			MFG APPR.
△			Q.C.
△			Site:
△			WA-SPOKANE VALLEY-GREENACRES
△	DRAWING CREATED	03/17/21	
REV	DESCRIPTION	DATE	Job# 107430



Ehresmann Engineering, Inc.
4400 West 31st Street
Yankton, SD 57078
605-665-7532
605-665-9780

TITLE: 80' MONOPOLE INDEX SHEET	
DWG. NO. 107430C01	
Sheet NO. C01	Rev. 1A

GENERAL:
Ehresmann Engineering, Inc. (EEI) designs and manufactures steel towers/poles and tower components to the most stringent industry standards, and uses the highest quality materials. However, certain hazards are inherent in tower work. For this reason, it is imperative that erection of towers and installation of tower components be accomplished in a safe and workmanlike manner, and only by experienced and professional contractors. Unless the customer specifies otherwise in writing, or unless otherwise noted in our design documents or on our installation drawings, design of and/or fabrication of items by Ehresmann Engineering, Inc. shall meet the conditions outlined in these notes.

1. All tower designs and/or work shall be in accordance with TIA-222-G, "Structural Standards for Steel Antenna Tower and Antenna Supporting Structures" or as otherwise specified in writing by the customer.
2. Purchasers shall verify the installation is in conformance with all local, state, and federal requirements. This also includes requirements for obstruction marking and lighting.
3. If towers, tower components, mounts, foundations or modification materials are not installed in accordance with Ehresmann Engineering, Inc. installation drawings and specifications, then all designs are considered invalid, and EEI disclaims any responsibly for said design and/or certification.
4. The purchaser shall be responsible to inspect condition of underground anchors prior to work on towers, and to furnish any and all soils reports, where required.
5. All items must be inventoried at the time of delivery to the job site/storage facility. Any shortages reported after this delivery will be the responsibility of the Contractor/Owner.
6. Any problems that occur with scheduling, transportation, delivery, foundation installation, erection or any items furnished by EEI must be reported immediately to allow EEI time to take corrective measures. EEI will make every effort to repair/replace necessary items in an expedited manner and/or will pursue corrective measures in the most economical way possible at our discretion. However, under no circumstances will EEI pay for or be responsible for any down time or expenses incurred due to down time.
7. EEI will make every effort to deliver materials at the requested time. However, we cannot and will not be responsible for delays caused by breakdowns, weather and/or other factors out of our control once the materials have left our facility. We strongly suggest that cranes, tower crews, etc... not be scheduled until delivery is verified to be on time. EEI will not be responsible for any costs incurred due to these possible delays.
8. Any and all permits, licenses, or payment of taxes required for construction are the sole responsibility of the purchaser.
9. Manufacturer Assistance: Contractors / Erectors may contact Ehresmann Engineering, Inc. at (605) 665-7532 for questions on design, materials, or installation regarding items furnished by Ehresmann Engineering, Inc.
10. Ehresmann Engineering, Inc. is available, upon request, to supervise installation and/or completion of modifications, or to provide on-site inspection after project completion.

****Please also reference site specific design documents and drawings for additional notes.**

Anchor Rod Tightening:
Prior to placing anchor rods in the concrete, it is recommended that an anchor rod rotation capacity test be run with at least one anchor rod. This test may be run in a Skidmore-Wilhelm device or in a mockup of the base plate using a small piece of plate with one hole of equivalent grade, thickness, and finish. The test consists of steps 2 through 12 as outlined below and adapted as necessary for the mock set-up. It is recommended that the nut be rotated at least to the required rotation as given in step 11. After the test, the nuts should be removed and all threads (rod and nut) inspected for damage. Once the anchor rod is removed from the test plate, the nuts shall again be turned onto the rod well past the location of the leveling nut and backed off by one worker using an ordinary wrench with no cheater bar. The threads are considered damaged if more than minimal effort is required to turn the nut. Please note that nuts should be turned onto ALL anchor rods and backed off with minimal effort as outlined above to verify threads of ALL anchor rods and nuts prior to placement in concrete.

Recommended Steps for Anchor Rod Tightening:

1. Verify proper position of anchor rods.
2. Verify that all nuts can be turned onto the rods well past the elevation of the bottom of the leveling nut and backed off by one worker using an ordinary wrench without a cheater bar.
3. If threads of anchor rods were lubricated more than 24 hours before placing the leveling nut or have been wet since they were lubricated, the exposed threads of the anchor rods should be relubricated (Beeswax and toilet-ring wax have been shown to provide good lubrication).
4. Place leveling nuts on anchor rods and level.
5. Place leveling nut washers.
6. Set pole or tower legs.
7. Plumb pole or legs and/or level base plates.
8. Place top nut washers.
9. Threads and bearing surfaces of the top nuts should be lubricated, placed and tightened to the snug-tight condition in a star pattern. Reference TABLE 1 for snug-tight torque values.
10. Tighten leveling nuts to the snug-condition (as outlined for top nuts) in a star pattern.
11. Mark the reference position of the top nut in the snug-tight condition with a suitable marking on one flat with a corresponding reference mark on the base plate at each bolt. Top nuts should be turned in increments in a star pattern (at least two full tightening cycles) to the appropriate nut rotation specified below.

Anchor Rod Diameter, in.	Nut Rotation from Snug-Tight Condition
less than 1 1/2"	1/3 turn
greater than or equal to 1 1/2"	1/6 turn

12. A torque wrench should be used to verify that a torque at least equal to the computed verification torque Tv, is required to additionally tighten the leveling nuts and the top nuts. Reference TABLE 1 for verification torque values. An inability to achieve this torque should be interpreted to indicate that the threads have stripped and should be reported to the Engineer of Record.
13. Locking nuts are to be installed over all top nuts when tightening is completed.

TABLE 1

ANCHOR ROD DIAMETER (INCHES)	SNUG-TIGHT TORQUE (FT-LBS)	VERIFICATION TORQUE (FT-LBS)
3/4	38-56	188
1	91-136	454
1 1/4	182-272	908
1 1/2	316-474	1581
1 3/4	499-748	2494
2	750-1125	3750
2 1/4	921-1382	4607

VALUES AS SHOWN IN TABLE 1 ARE BASED ON ASTM F1554 GRADE 105 ANCHOR RODS WITH MINIMUM ULTIMATE TENSILE STRENGTH OF 125 KSI FOR ROD DIAMETERS UP TO 2" AND ASTM A615 GR. 75 ANCHOR RODS WITH MINIMUM ULTIMATE TENSILE STRENGTH OF 105 KSI FOR 2 1/4" ANCHOR RODS.

Erection / Installation:
When installing items provided by Ehresmann Engineering, Inc., the contractor (person performing the erection or modification) shall comply with the following:

1. All structural work shall be performed in relatively calm weather, with wind velocities not exceeding 15 MPH at any height of the tower. Additionally it is recommended that work be completed in accordance with ANSI/TIA-322 and ANSI/ASSE A10.48.
2. All structural work shall be performed by a competent and reputable contractor with experience in similar tower work.
3. Our drawings indicate the major operations to be performed, but do not show every field condition that may be encountered. Prior to beginning work, the contractor should survey the job thoroughly to eliminate future field problems.
4. It is the contractor's sole responsibility to determine the erection procedure and sequence to insure the stability and safety of the tower and adequacy of temporary or incomplete connections during construction.
5. All nuts for bearing type connections shall be tightened to a "snug tight" condition as defined by AISC. All nuts for direct tension/fully pre-tensioned or slip critical connections shall be tightened per the "turn-of-the-nut" method in accordance with AISC.
6. It shall be the contractor's responsibility to ensure that all practices and procedures used during assembly, installation and erection work required on the tower or foundations do not endanger the safety of any personnel nor the structural integrity of the tower.
7. The contractor shall use only safe and workmanlike procedures when modifying a tower.
8. The contractor shall not correct any errors in manufacturing or design without special permission and written instructions from Ehresmann Engineering, Inc. This means straightening, relocation or reaming of bolt holes, drifting or any other application of force to make the members fit. (This restriction does not apply to diagonal members designed for initial tension or specific "draw.") The contractor shall immediately notify Ehresmann Engineering, Inc., through the appropriate channels to effect correction.
9. The contractor shall immediately notify Ehresmann Engineering, Inc. of any material which is damaged during erection or installation. The contractor shall not correct or substitute any member damaged during installation without written consent and instructions from Ehresmann Engineering, Inc.
10. The contractor shall refrain from exerting excessive forces on the tower or on modification material during installation. Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Our design assumes that the services of competent and qualified personnel will be utilized to develop proper procedures and rigging plans. Our design also assumes that competent and qualified personnel will be hired to perform the work.
11. All field-punched holes shall be touched up with cold galvanizing. Under no circumstances shall the torching of holes be allowed.
12. All factory installed bracing placed within monopole tube sections is to remain in place until erection is complete. Do not remove bracing without prior consultation with EEI.

- Concrete & Foundation Installation:**
1. All rebar shall have 3' minimum cover, unless specified otherwise, and shall conform to ASTM A615. Rebar grade to be as specified on site drawings.
 2. Tie and secure all rebar and anchor bolts/shafts before placing concrete.
 3. Hook length as specified for vertical bars is from back side of bend. Minimum straight length of hook after bend shall be 12x bar diameter.
 4. Bending of rebar to be in accordance with ACI-318 latest edition.
 5. Sides of excavation may need to be braced or sloped back as required for stability and in accordance with all applicable safety regulations.
 6. Base of excavation shall be clean and free of all debris.
 7. All excavation, backfill and soil compaction to be completed in accordance with Geotechnical Engineer's recommendations. However, compacted density of all backfill must meet minimum unit weight as specified on site drawings.
 8. Attention shall be given to final site drainage and compaction of the fill placed around the foundation to minimize surface water infiltration around the foundation.
 9. Concrete strength and mix values to be listed on site specific foundation drawings. Alternate values may be acceptable and could be dependent on placement methods. However, use of alternate values must be approved by EOR prior to installation. EEI will not be responsible for any delays due to request for approval of alternate values. It is the Contractor's responsibility to allow adequate time for approval.
 10. Use of water reducers may be required for some placement methods to achieve necessary slump and/or flow without exceeding maximum water/cement ratios. It is Contractor's responsibility to utilize proper mix to ensure proper placement of concrete for the method of placement chosen.
 11. Exposed edges of all foundations to be chamfered 1' x 45°.
 12. Use steel top and bottom anchor bolt templates provided by EEI for proper anchor bolt spacing and placement.
 13. All concrete work shall be in accordance with ACI 318 (Latest Edition). ACI specifications for "Cold Weather" or "Hot Weather" concreting shall be followed as applicable.

Structural Steel & Hardware:

1. All fabricated steel shall have a minimum yield strength of 36 ksi. Use of higher strength steel for some members/items will be noted in design documents or drawings as applicable.
2. All fabricated steel shall be hot dip galvanized per ASTM A123.
3. All structural fasteners shall be ASTM F3125 Gr. A325 unless specified otherwise.
4. U-Bolts to be ASTM A36, A572 Gr. 50, or A193 Gr. B7 depending on size and application. Reference site specific drawings for additional details.
5. Step Bolts to be ASTM A449
6. All hardware shall be hot dip galvanized per ASTM A153.
7. Welded connections shall conform to the latest revision of the American Welding Society, A.W.S. D1.1.
8. All structural components shall be verified for proper assembly by the field crew prior to installation.

				NAME
			DRAWN BY:	EJH
			CHECKED BY:	
			ENG APPR.	
			MFG APPR.	
			Q.C.	
	TUBE BRACING NOTE	10/29/19	Site:	
	U-BOLT/STEP-BOLT GR.	10/16/19	WA-SPOKANE VALLEY-GREENACRES	
	DRAWING CREATED	03/13/17		
REV	DESCRIPTION	DATE	Job#	107430



Ehresmann Engineering, Inc.

4400 West 31st Street
Yankton, SD 57078
605-665-7532
605-665-9780

TITLE:

STD TOWER & TOWER FOUNDATION NOTES

DWG. NO.

107430N1

Sheet NO. **N1**

Rev. 1A

SPECIAL INSPECTION STATEMENT IN ACCORDANCE WITH IBC SECTION 1704.3

VERIFICATION AND TESTING SHALL BE COMPLETED AS FOLLOWS:

SPECIAL INSPECTIONS REQUIRED:

	CONTINUOUS	PERIODIC
REINFORCED CONCRETE:		
PIER/PAD FOUNDATION		X
REINFORCING STEEL		X
CONCRETE PLACEMENT	X	
SAMPLING & TESTING		X
ANCHORS/BOLTS CAST IN CONCRETE		X
SOILS		X
STRUCTURAL STEEL:		
HIGH-STRENGTH BOLTS		X
STRUCTURAL OBSERVATION:		
YES		X

REINFORCED CONCRETE CONSTRUCTION (MONOPOLE FOUNDATION):

- VERIFY PROPER DIMENSIONS AND DEPTH OF FOUNDATION
- INSPECTION OF REINFORCING STEEL TO INCLUDE VERIFICATION OF PROPER MATERIAL GRADE, QTY, SIZE AND PLACEMENT
- VERIFY PROJECTION LENGTH OF ANCHOR BOLTS ABOVE TOP OF CONCRETE PRIOR TO CONCRETE SETTING
- VERIFY USE OF APPROVED CONCRETE MIX DESIGN
- VERIFY PROPER CONCRETE SLUMP AND AIR CONTENT BY TESTING AT THE TIME FRESH CONCRETE IS SAMPLED FOR STRENGTH TESTS
- VERIFY PROPER PLACEMENT OF CONCRETE IN ACCORDANCE WITH APPROVED TECHNIQUES.
- VERIFY CONCRETE COMPRESSIVE STRENGTH BY MEANS OF STANDARD TEST CYLINDERS TO BE BROKE AT 7 DAYS AND 28 DAYS MINIMUM.

STRUCTURAL STEEL CONSTRUCTION (MONOPOLE STRUCTURE):

INSPECTION OF HIGH-STRENGTH BOLTED CONNECTIONS:

- VERIFY IDENTIFICATION MARKINGS/GRADE, QTY AND SIZE OF BOLTS, NUTS & WASHERS
- VISUALLY INSPECT SNUG-TIGHT BOLTED JOINTS TO VERIFY ALL PLIES IN CONTACT AND LOCK-WASHERS COMPRESSED
- VERIFY PROPER TIGHTENING OF PRETENSIONED CONNECTIONS USING TURN-OF-NUT METHOD WITH MATCHMARKING

STRUCTURAL OBSERVATION:

- VERIFY PROPER INSTALLATION/ERECTION OF MONOPOLE PER DESIGN SPECIFICATIONS UPON COMPLETION OF INSTALLATION. VERIFICATION TO INCLUDE THE FOLLOWING:
 - MINIMUM SLIP JOINT OVERLAPS
 - STRUCTURE PLUMB IN ACCORDANCE WITH TIA-222
 - MAXIMUM CLEAR DISTANCE BETWEEN TOP OF FOUNDATION AND LEVELING NUT

VERIFICATION OF ALL ITEMS AS OUTLINED ABOVE SHALL BE BASED ON DESIGN SPECIFICATIONS AND INSTALLATION DETAILS AS COMPLETED BY EHRESMANN ENGINEERING, INC.

SPECIAL INSPECTOR SHALL IDENTIFY AND DOCUMENT RESULTS OF ALL INSPECTIONS AND MATERIAL TESTING AS OUTLINED. INSPECTION REPORTS SHALL BE SUBMITTED AS SOON AS POSSIBLE UPON COMPLETION OF INSPECTION BUT NO MORE THAN 5 WORKING DAYS UNLESS OTHERWISE AGREED BY PROJECT OWNER.

DEVIATION OR NON-COMPLIANCE SHALL BE CORRECTED BY CONTRACTOR. ANY DEVIATIONS NOT CORRECTED ARE TO BE CLEARLY IDENTIFIED IN FINAL REPORTS AND EHRESMANN ENGINEERING, INC. SHOULD BE NOTIFIED IMMEDIATELY FOR CONSULTATION.

THE PROJECT OWNER OR AN AGENT OF THE OWNER IS RESPONSIBLE FOR SCHEDULING AND FUNDING ALL SPECIAL INSPECTION SERVICES.

△			NAME	 <i>Ehresmann Engineering, Inc.</i>	<i>TITLE:</i> 80' MONOPOLE SPECIAL INSPECTION STATEMENT
6			DRAWN BY: GE		
5			CHECKED BY:		
4			ENG APPR.		
3			MFG APPR.		
2			Q.C.		
1			Site:		
0	DRAWING CREATED	10/09/20	WA-SPOKANE VALLEY-GREENACRES		
REV	DESCRIPTION	DATE	Job# 107430	4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780	DWG. NO. 107430SI
				Sheet NO. SI	Rev. 1A

MONOPOLE DESIGN CRITERIA: DESIGN PER TIA-222-G
85 MPH WIND & NO ICE (Vasd)
(Vult = 110 MPH WIND)
40 MPH WIND & 1/4" ICE (Vasd)
60 MPH WIND & NO ICE (SERVICE)
STRUCTURE CLASS II
EXPOSURE CATEGORY C
TOPOGRAPHIC CATEGORY 1
SEISMIC DESIGN CATEGORY B
SITE CLASS C

- NOTES:**
1. ORIENT V-NOTCH ON TOP OF TEMPLATE AND REFERENCE TAB ON BASE PLATE @ 0°.
 2. STAMP "EEI 107430" ON TOP OF BASE PLATE (NEAR NORTH TAB) WITH 1/2" STEEL STAMPS.

SITE INFORMATION:
COORDINATES: LATITUDE: 47° 41' 15.61" N
LONGITUDE: 117° 10' 04.48" W
ADDRESS: 3224 N TSCHIRLEY RD
SPOKANE VALLEY, WA 99216
COUNTY: SPOKANE COUNTY, WASHINGTON

MAXIMUM BASE MOMENT & FORCES		
MOMENT (FT-KIPS)	SHEAR (KIPS)	AXIAL (KIPS)
1,842	31	33

ELEV.	ITEM	RAD.	FEEDLINES
76'	40,000 SQ IN X Ka (Ka=0.8)	---	(12) 1 5/8" (INSIDE POLE) (3) HYBRID CABLE (INSIDE POLE)
64'	40,000 SQ IN X Ka (Ka=0.8)	---	(12) 1 5/8" (INSIDE POLE) (3) HYBRID CABLE (INSIDE POLE)
52'	30,000 SQ IN X Ka (Ka=0.8)	---	(3) HYBRID CABLE (INSIDE POLE)
42'	ANDREW HP10 (2 GHz)	---	(1) 1 5/8" (INSIDE POLE)
34'	ANDREW HP6 (2 GHz)	---	(1) 1 5/8" (INSIDE POLE)
26'	ANDREW HP6 (2 GHz)	---	(1) 1 5/8" (INSIDE POLE)

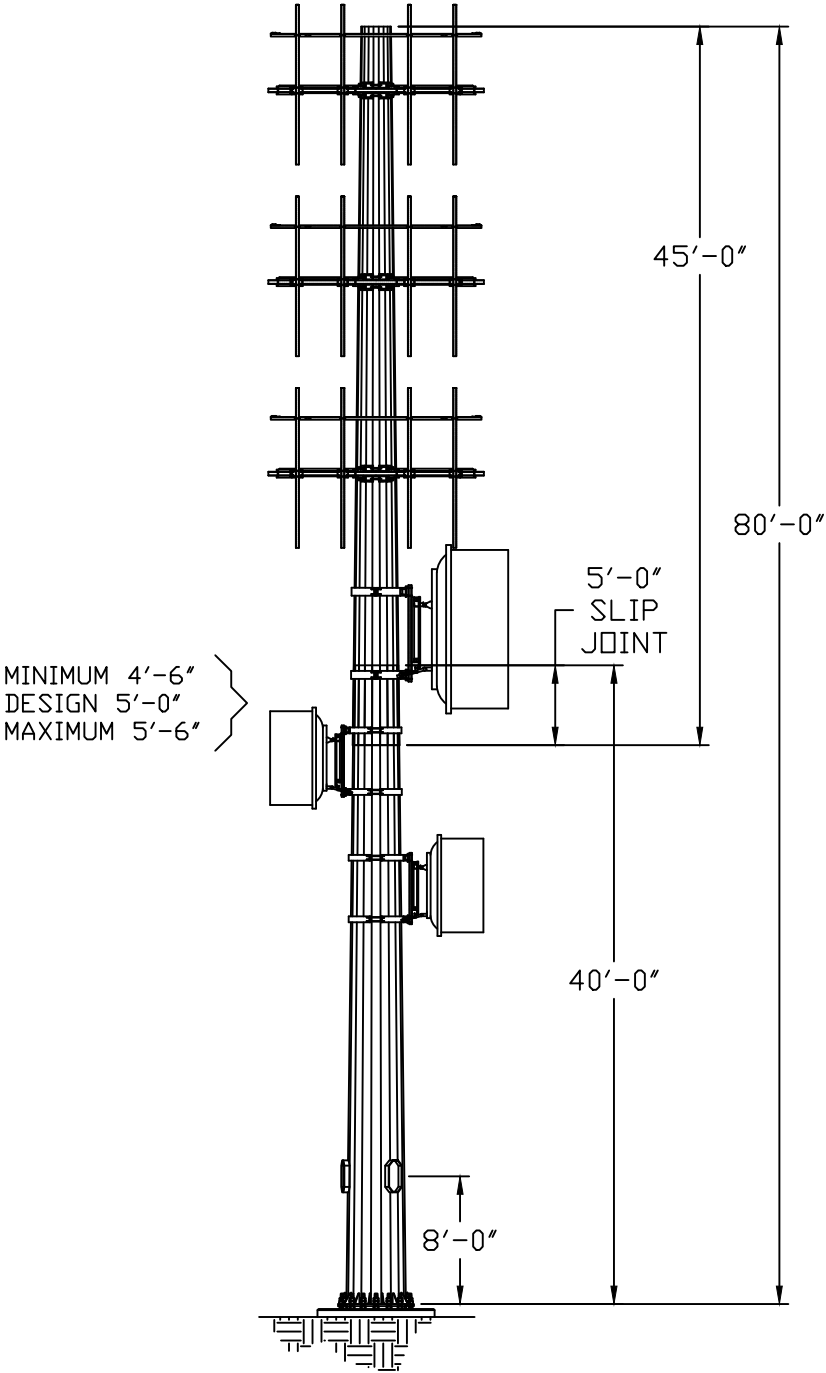
POLE DATA					
POLE___65___KSI 18 SIDED					
ELEV.	WALL THICKNESS	TAPER	TUBE LENGTH	TOP DIA.	BASE DIA.
35'-80'	3/16"	.280"/FT.	45'-0"	22"	34 5/8"
0'-40'	1/4"	.280"/FT.	40'-0"	32 13/16"	44"

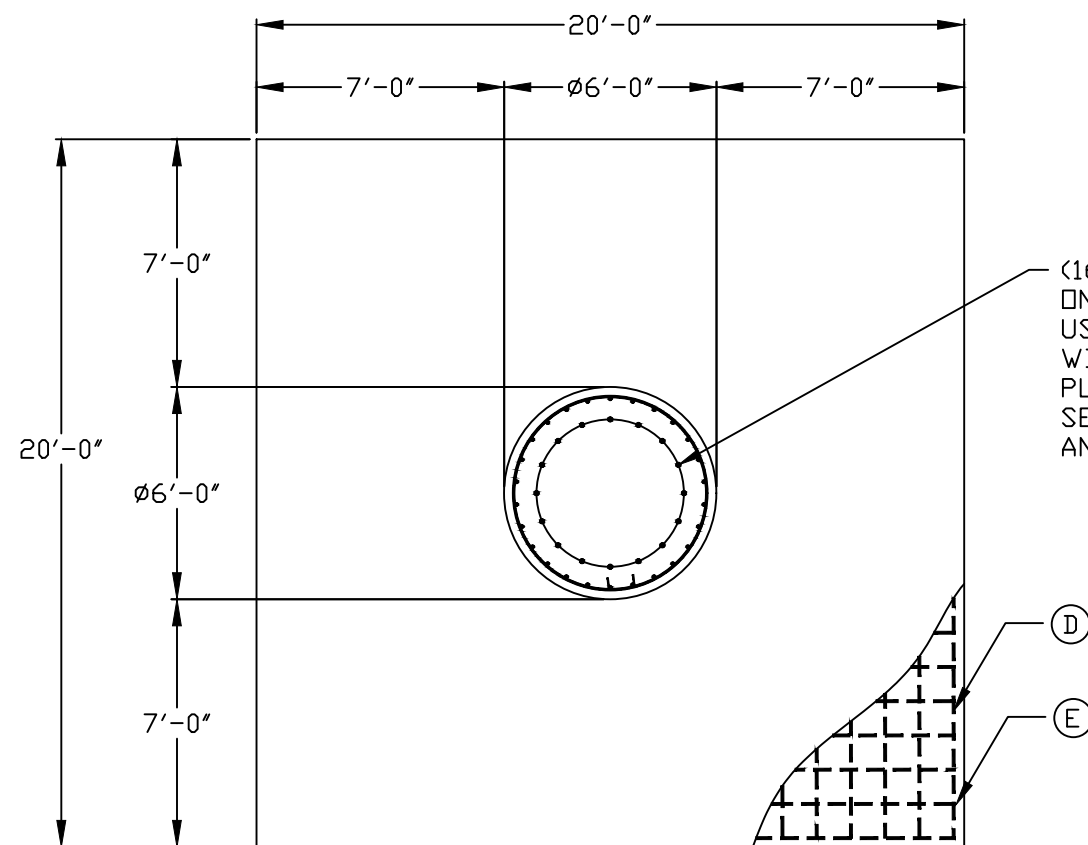
ANCHOR BOLT DATA:
(16x) 1 1/2"Ø F1554 GRADE 105 KSI
X 6'-0" LG ON A 50"Ø BOLT CIRCLE
TEMPLATE O.D. = Ø54" A36

BASE PLATE DATA:
56Ø, 1 1/2" THICK, ROUND
ASTM A572 50 KSI
(16x) 3/8" THICK X 9" TALL GUSSETS
ASTM A572 65 KSI

△			NAME	
△			DRAWN BY:	GE
△			CHECKED BY:	
△			ENG APPR.	
△			MFG APPR.	
△			Q.C.	
△			Site:	
△			WA-SPOKANE VALLEY-GREENACRES	
△	DRAWING CREATED	10/08/20	Job#	107430
REV	DESCRIPTION	DATE		

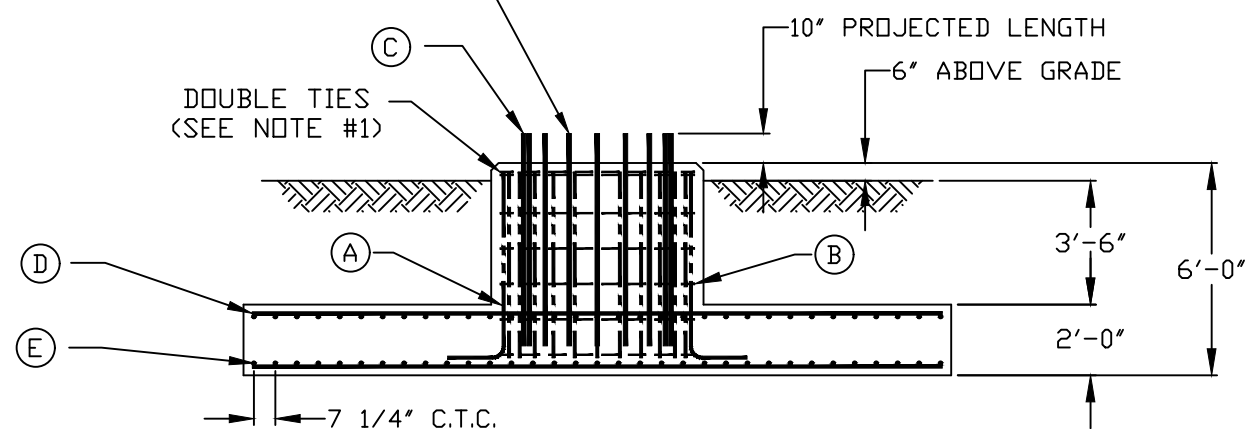
Ehresmann Engineering, Inc.	
	
4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780	
TITLE:	80' MONOPOLE
DWG. NO.	107430E01
Sheet NO.	E01
Rev.	1A





TOP VIEW

THE CLEAR DISTANCE FROM THE TOP OF CONCRETE TO THE BOTTOM LEVELING NUT IS NOT TO EXCEED 1.0 TIMES THE DIAMETER OF THE ANCHOR BOLT



ELEVATION VIEW

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MATERIAL LIST				
ITEM	QTY	GRADE	DESCRIPTION	
A	26	60	#8 BARS	5'-3" 19" HOOK
B	7	60	#4 BARS	4" HOOKS 8 7/8" LAP (STAGGERED) 5'-6"
* C	16	105	1 1/2"Ø X 6'-0"	6'-0"
D	66	60	#9 BARS (33) EACH WAY-TOP	19'-6"
E	66	60	#9 BARS (33) EACH WAY-BOTTOM	19'-6"

* SUPPLIED BY EEI, ALL OTHER MATERIAL TO BE SUPPLIED BY THE CONTRACTOR.

NOTES:

- LATERAL REINFORCEMENT, CONSISTING OF TWO (2) HORIZONTAL TIES SHALL BE DISTRIBUTED WITHIN 5" OF TOP OF CONCRETE PER ACI 318. THE ENDS OF ALL CIRCULAR TIES SHALL TERMINATE WITH STANDARD HOOKS THAT ENGAGE A LONGITUDINAL COLUMN BAR.
- FOUNDATION DESIGN BASED ON SOILS REPORT BY GEOPROFESSIONAL INNOVATION DATED SEPTEMBER 2, 2020; FILE NO. PU20197A. CONTRACTOR TO REVIEW SOILS REPORT FOR POSSIBLE SPECIAL INSTRUCTIONS BY GEOTECHNICAL ENGINEER.
- MINIMUM COMPACTED UNIT WEIGHT OF ALL BACKFILL TO BE 130 PCF.
- 33.82 CUBIC YARDS CONCRETE REQUIRED THIS FOUNDATION.
- MONOPOLE BASE REACTIONS;
MOMENT = 1,842 FT-KIPS
SHEAR = 31 KIPS
AXIAL = 33 KIPS

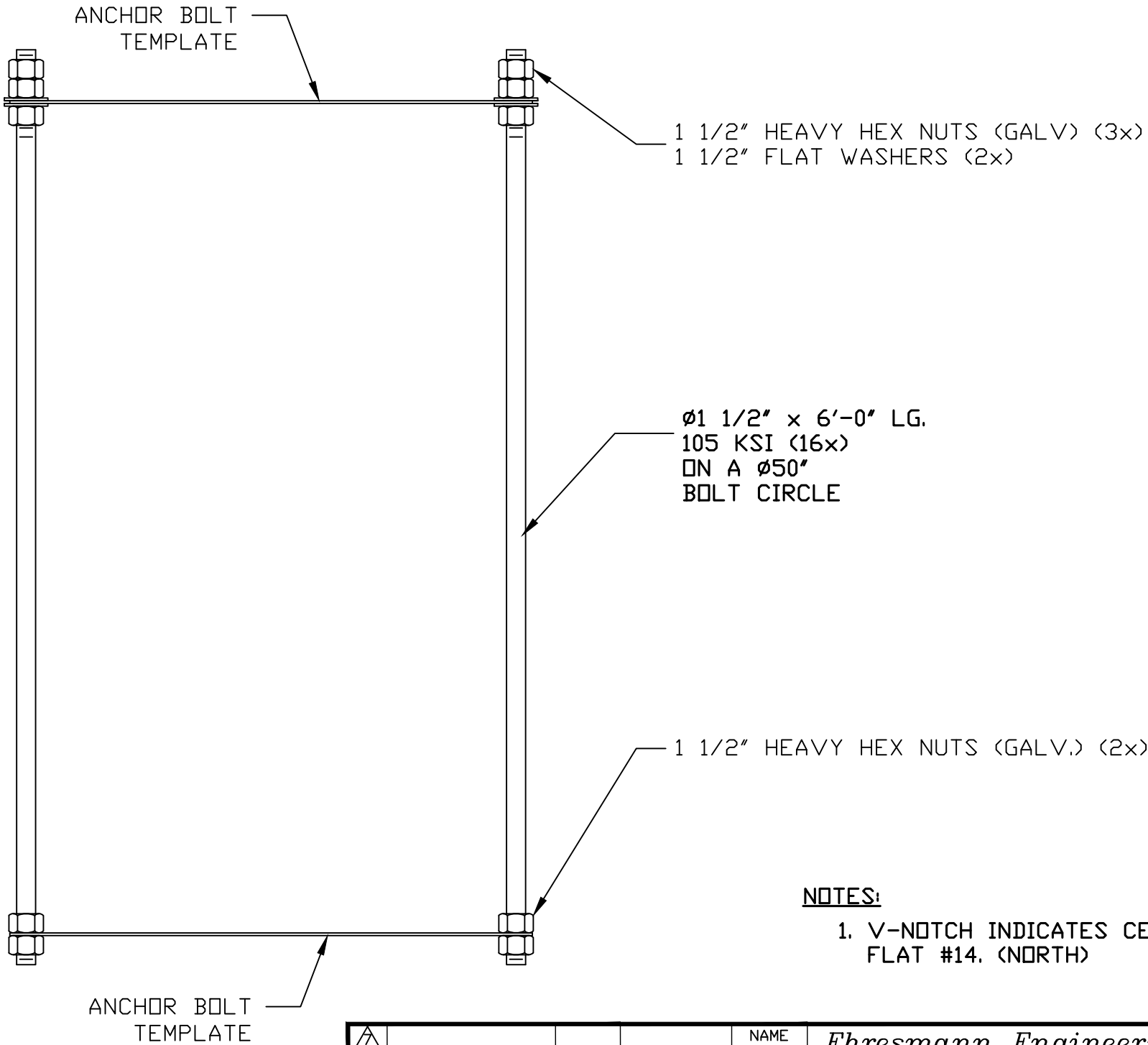
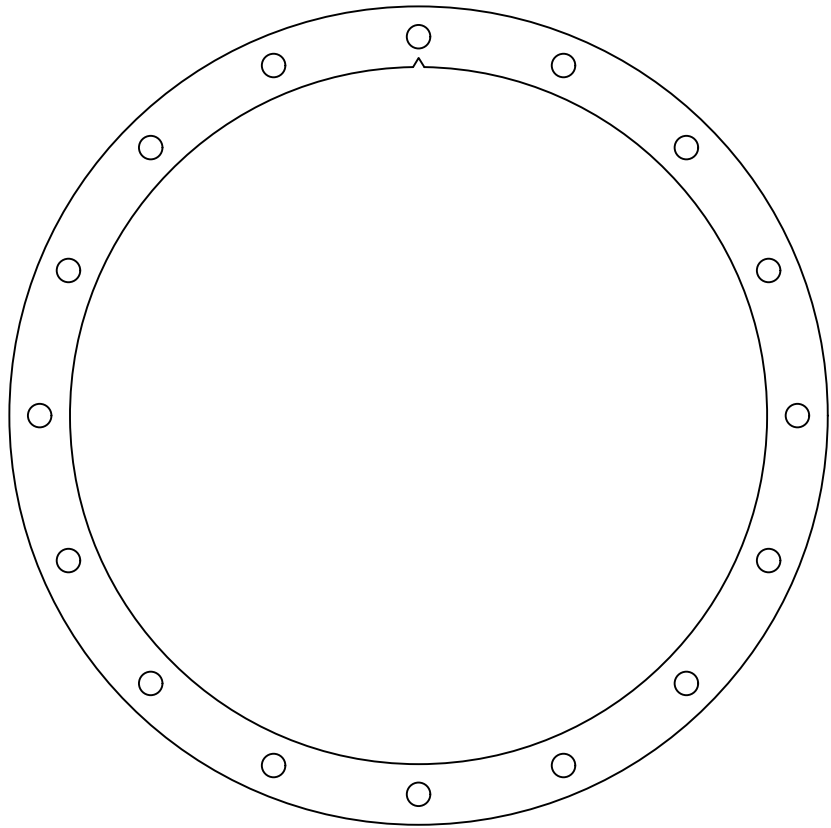
CONCRETE MIX REQUIREMENTS:

CEMENT: TYPE I/II PORTLAND CEMENT
28 DAY COMPRESSIVE STRENGTH = 4500 PSI
MAXIMUM WATER/CEMENT RATIO = 0.45
SLUMP = 4"-6"
ENTRAINED AIR CONTENT = 5%-7%

△			NAME	 Ehresmann Engineering, Inc. 4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780		TITLE: 80' MONOPOLE MAT TYPE FOUNDATION DESIGN	
△			DRAWN BY:				
△			CHECKED BY:				
△			ENG APPR.				
△			MFG APPR.			DWG. NO. 107430E02	
△			Q.C.				
△			Site:	WA-SPOKANE VALLEY-GREENACRES		Sheet NO. E02	
△							
△	DRAWING CREATED	10/9/20	Job#	107430		Rev. 1A	
REV	DESCRIPTION	DATE					

Weldment	Part	Qty	Description	Weight
	107430	2	1/4" TEMPLATE X Ø54" O.D. (Ø50" B.C.)	85
	578614	16	Ø1 1/2" X 6'-0" LG ANCHOR BOLT KIT (ASSEMBLED)	712
	---	80	1 1/2" HEAVY HEX NUT. A563 (GALV.)	---
	---	32	1 1/2" FLAT WASHER. F436 (GALV.)	---

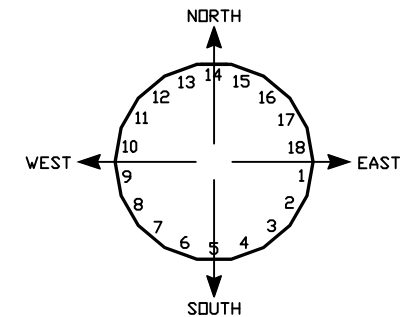
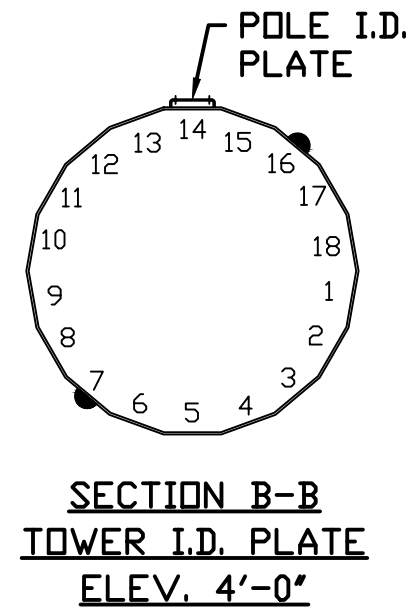
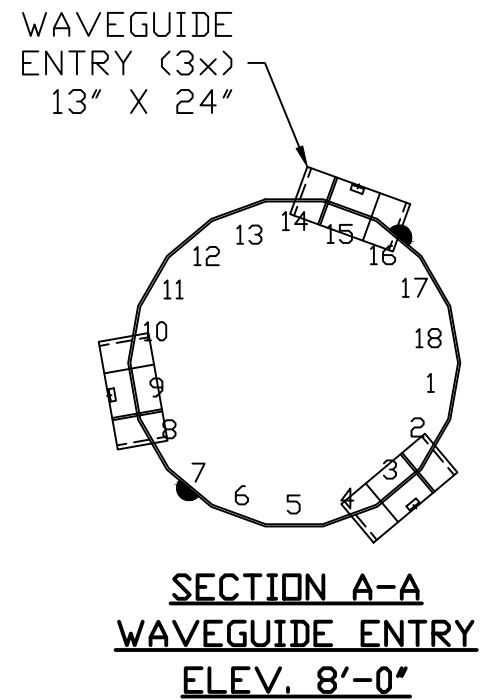
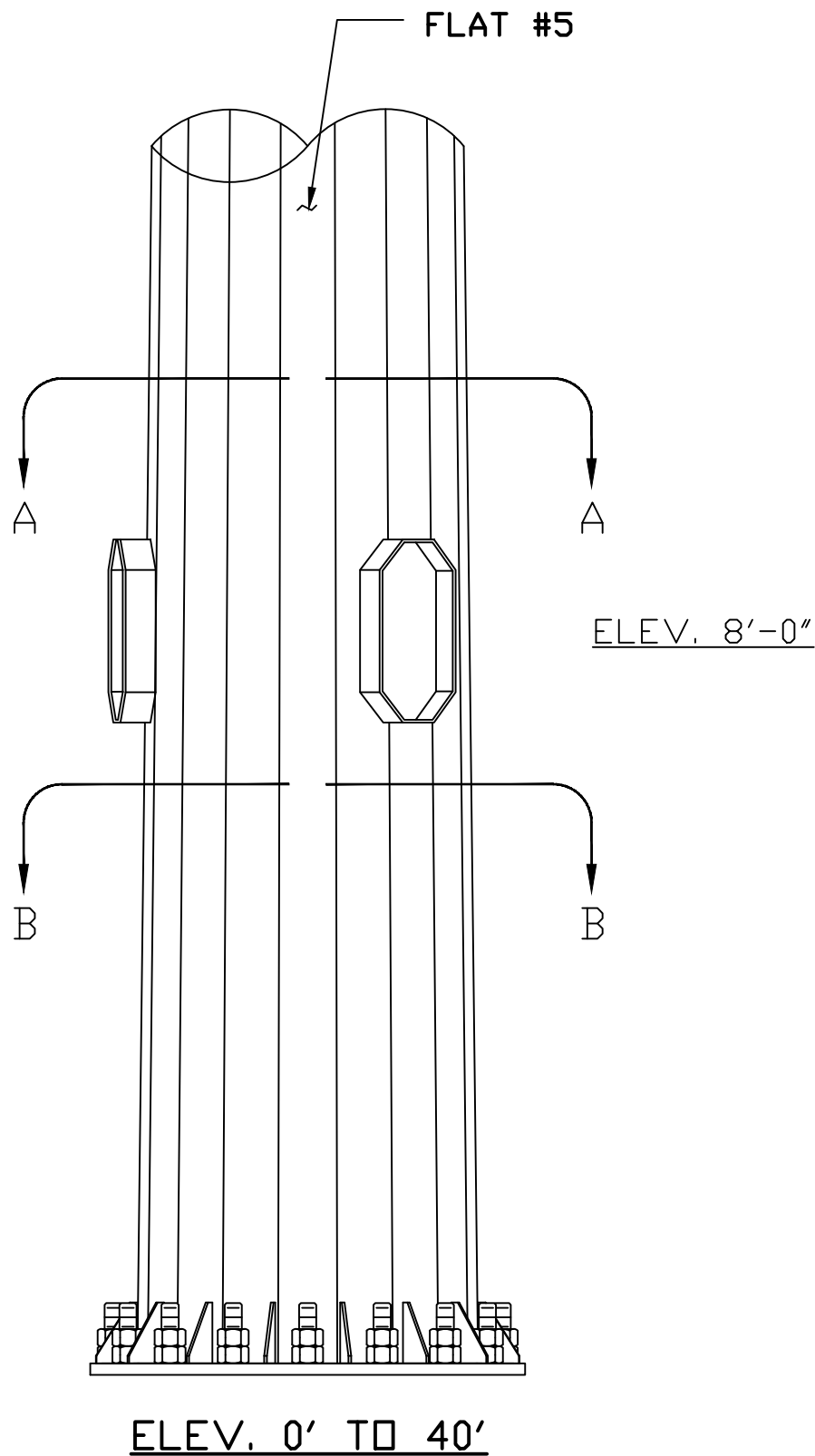
BLACK IRON WT = 797#



- NOTES:
1. V-NOTCH INDICATES CENTERLINE
FLAT #14. (NORTH)

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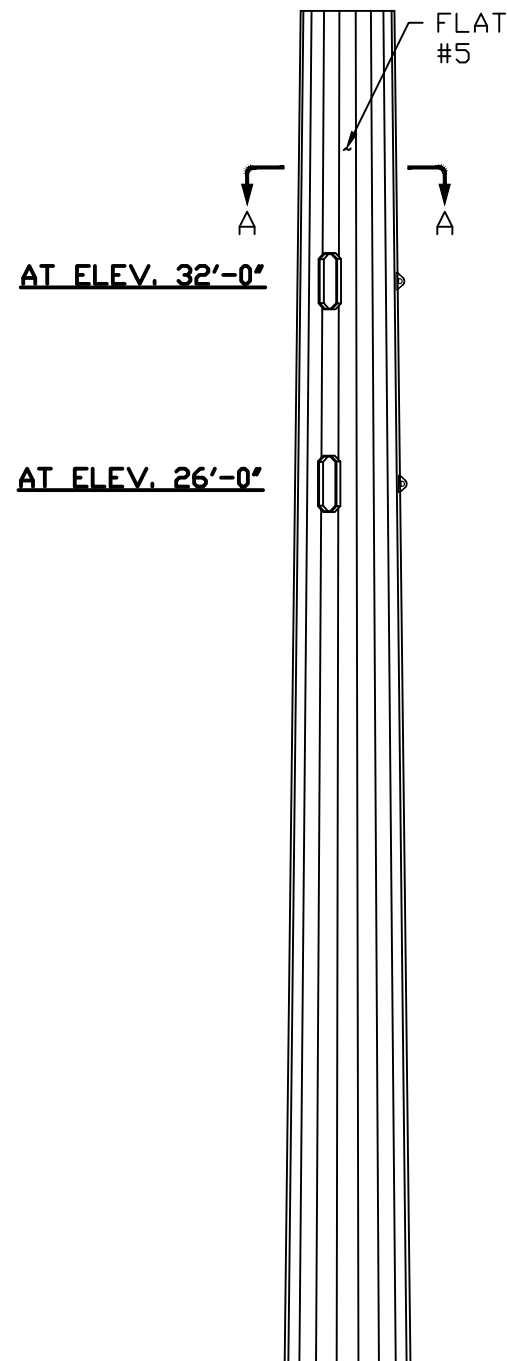
				NAME	Ehresmann Engineering, Inc.  4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780	TITLE: ANCHOR BOLT & TEMPLATES TYPICAL INSTALLATION
			DRAWN BY:	GE		
			CHECKED BY:			
			ENG APPR.			
			MFG APPR.			
			Q.C.			
			Site:			
			WA-SPOKANE VALLEY-GREENACRES			
	DRAWING CREATED	03/03/21				
REV	DESCRIPTION	DATE	Job# 107430			



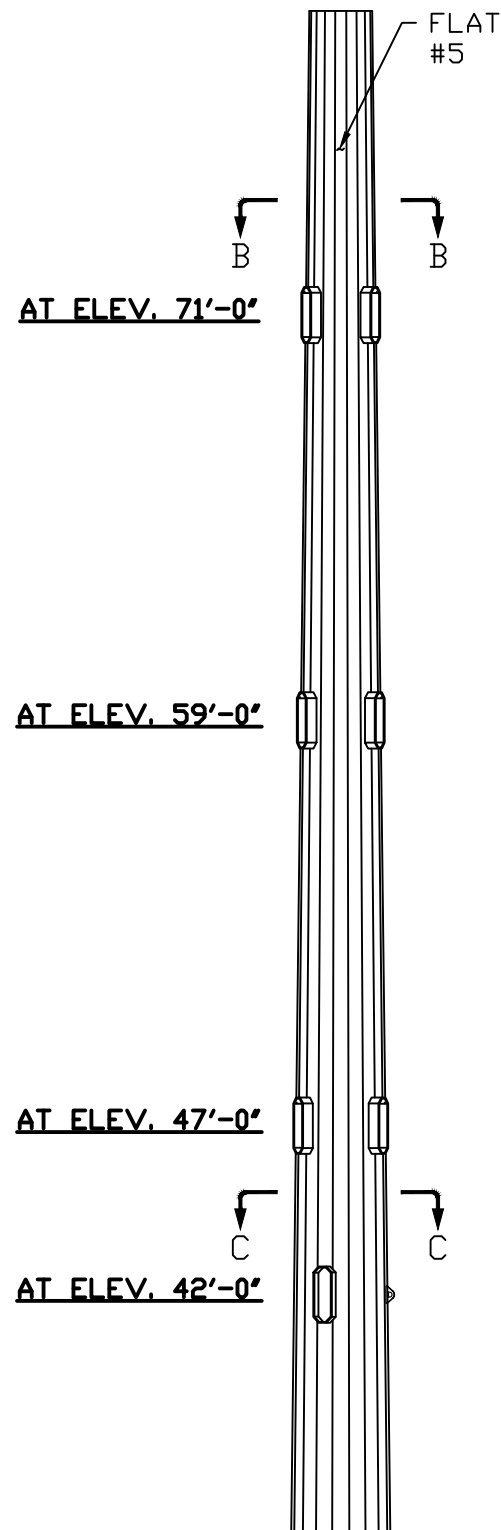
NOTES:
1. FLAT #14 IS NORTH.

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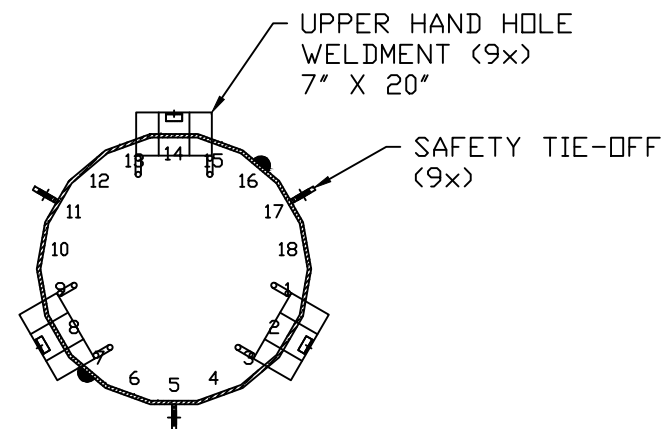
△			NAME	Ehresmann Engineering, Inc.  4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780 TITLE: ENTRY PORT, ID PLATE INSTALLATION DWG. NO. 107430E04 Sheet NO. E04Rev. 1A	
△			DRAWN BY:		
△			CHECKED BY:		
△			ENG APPR.		
△			MFG APPR.		
△			Q.C.		
△			Site:		
△			WA-SPOKANE VALLEY-GREENACRES		
△	DRAWING CREATED	03/17/21	Job#	107430	
REV	DESCRIPTION	DATE			



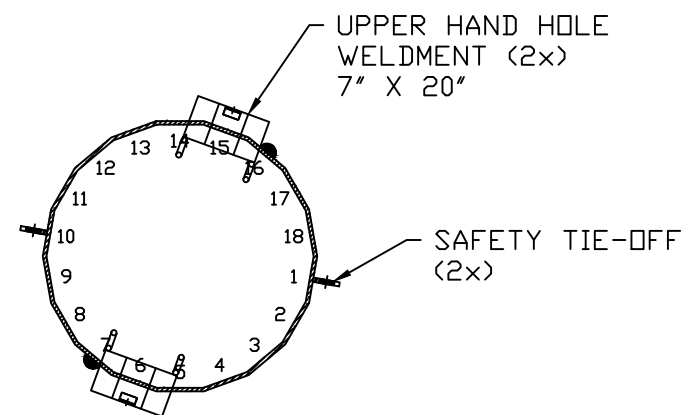
POLE SECTION #1
ELEV. 0' TO 40'



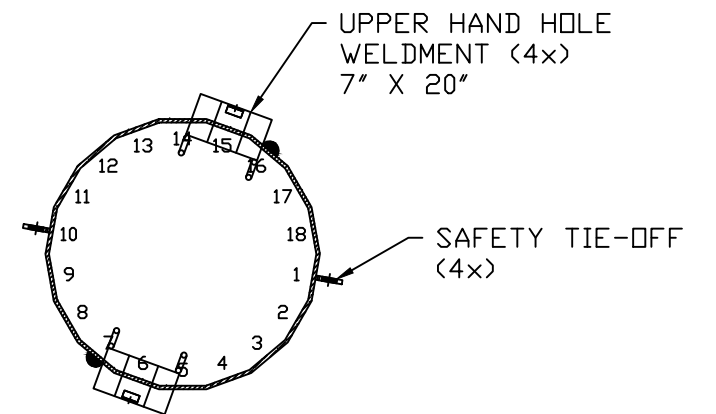
POLE SECTION #2
ELEV. 35' TO 80'



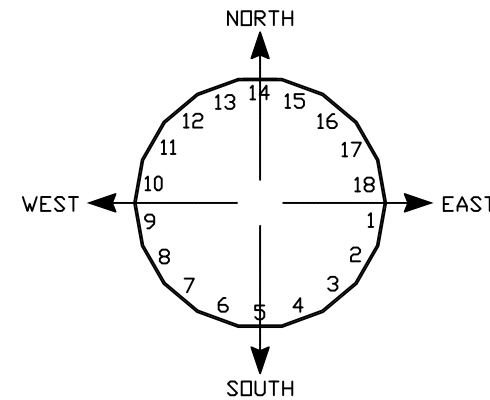
SECTION B-B
ELEV. 71'-0'
ELEV. 59'-0'
ELEV. 47'-0'



SECTION C-C
ELEV. 42'-0'



SECTION A-A
ELEV. 32'-0'
ELEV. 26'-0'



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△			NAME
△		DRAWN BY:	GE
△		CHECKED BY:	
△		ENG APPR.	
△		MFG APPR.	
△		Q.C.	
△		Site:	
△		WA-SPOKANE VALLEY-GREENACRES	
△	DRAWING CREATED	03/17/21	Job# 107430
REV	DESCRIPTION	DATE	

Ehresmann Engineering, Inc.

4400 West 31st Street
Yankton, SD 57078
605-665-7532
605-665-9780

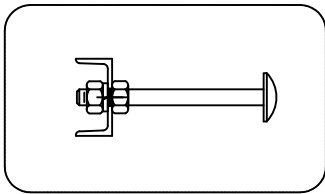
TITLE:
**UPPER HAND HOLE
INSTALLATION**

DWG. NO.
107430E05

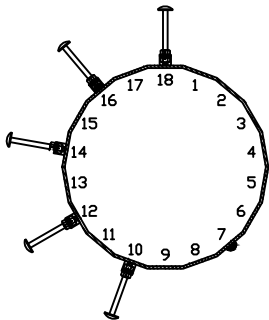
Sheet NO. **E05** Rev. 1A



Weldment	Part	Qty	Description	Weight
	TTCSCS-80'WP	1	SAFETY CLIMB KIT 80' (2 CABLE GUIDES)	---
	575300	116	STEP BOLT 5/8"Ø X 7", A394 W/ HARDWARE	---

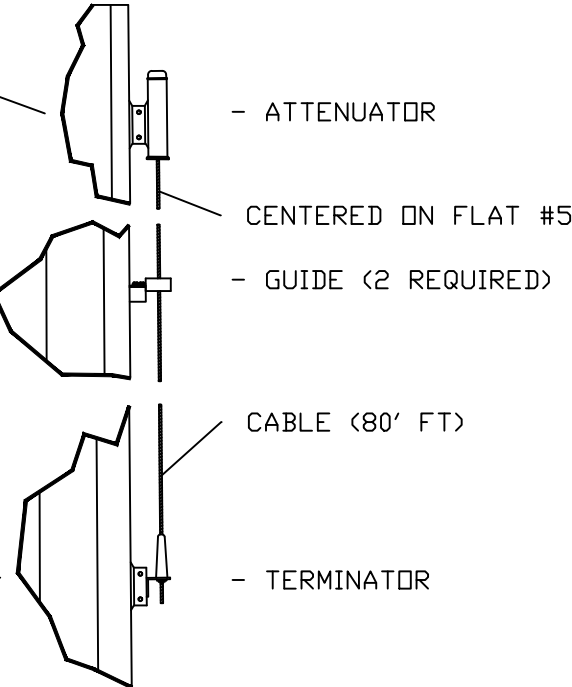
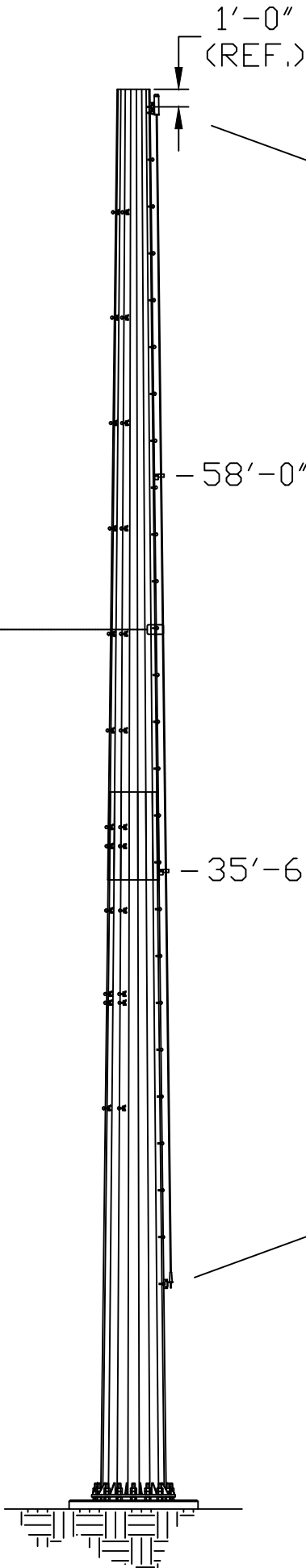


TYPICAL STEP BOLT
INSTALLATION



SECTION A-A
WRAP AROUND ELEVATIONS

ELEV. 73'-0"
ELEV. 67'-0"
ELEV. 61'-0"
ELEV. 55'-0"
ELEV. 49'-0"
ELEV. 43'-6"
ELEV. 38'-0"
ELEV. 36'-11"
ELEV. 33'-3"
ELEV. 28'-6"
ELEV. 28'-0"
ELEV. 22'-0"



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△			NAME
△			DRAWN BY: GE
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△			ENG APPR.
△			MFG APPR.
△			Q.C.
△			Site:
△			WA-SPOKANE VALLEY-GREENACRES
△	DRAWING CREATED	03/17/21	Job# 107430
REV	DESCRIPTION	DATE	

Ehresmann Engineering, Inc.
4400 West 31st Street
Yankton, SD 57078
605-665-7532
605-665-9780

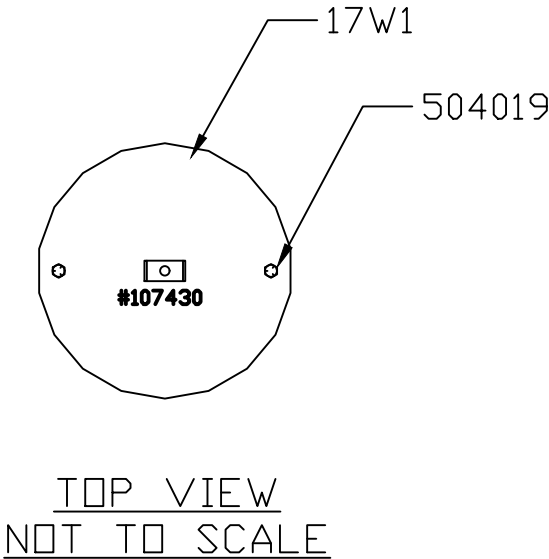
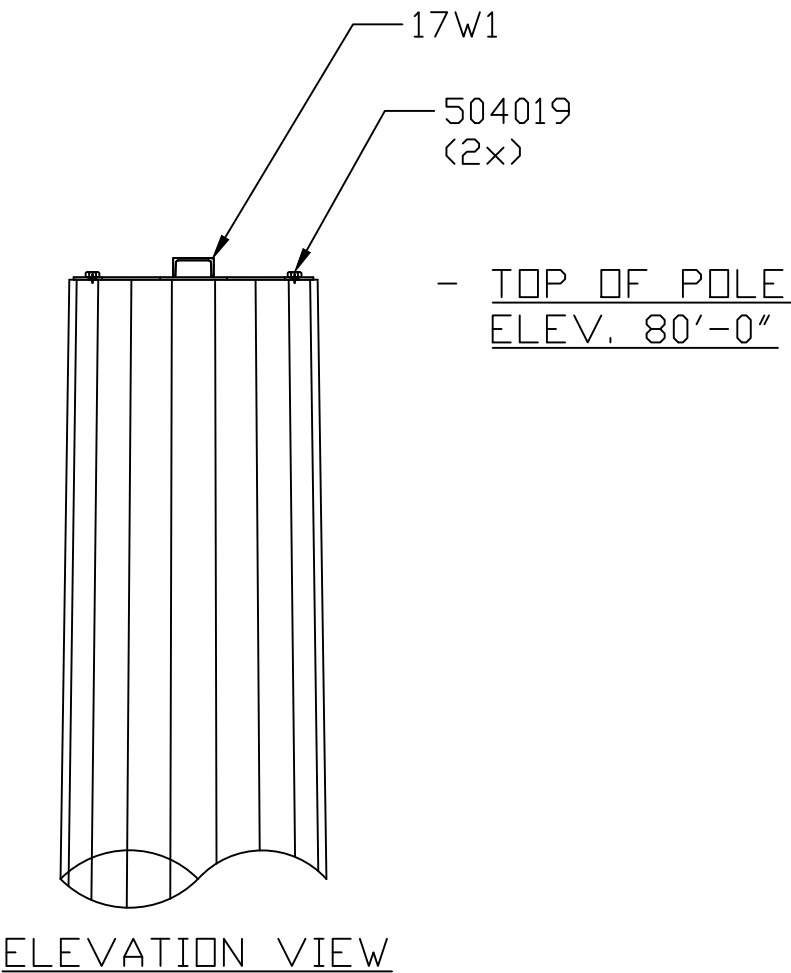
TITLE:
**SAFETY CLIMB
INSTALLATION**

DWG. NO.
107430E06

Sheet NO. **E06** Rev. **1A**

Weldment	Part	Qty	Description	Weight
17W1		1	LIGHTNING ROD WELDMENT X Ø22 1/2" (W/CHANNEL)	22
	504019	2	1/2" X 1 1/4" BOLT A325	---

BLACK IRON WT = 22#



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7				NAME	Ehresmann Engineering, Inc.  4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780	TITLE: LIGHTNING ROD INTALLATION	
6			DRAWN BY:	GE			
5			CHECKED BY:				
4			ENG APPR.				
4			MFG APPR.				
3			Q.C.				
2			Site:				
1			WA-SPOKANE VALLEY-GREENACRES			DWG. NO.	107430E07
0	DRAWING CREATED	03/17/21				Sheet NO.	E07
REV	DESCRIPTION	DATE	Job# 107430			Rev. 1A	

MONOPOLE DESIGN CRITERIA: DESIGN PER TIA-222-G
 85 MPH WIND & NO ICE (Vasd)
 (Vult = 110 MPH WIND)
 40 MPH WIND & 1/4" ICE (Vasd)
 60 MPH WIND & NO ICE (SERVICE)
 STRUCTURE CLASS II
 EXPOSURE CATEGORY C
 TOPOGRAPHIC CATEGORY 1
 SEISMIC DESIGN CATEGORY B
 SITE CLASS C

SITE INFORMATION:

COORDINATES: LATITUDE: 47° 41' 15.61" N
 LONGITUDE: 117° 10' 04.48" W
 ADDRESS: 3224 N TSCHIRLEY RD
 SPOKANE VALLEY, WA 99216
 COUNTY: SPOKANE COUNTY, WASHINGTON

MAXIMUM BASE MOMENT & FORCES

MOMENT (FT-KIPS)	SHEAR (KIPS)	AXIAL (KIPS)
1,842	31	33

DESIGN LOADING:

ELEV.	ITEM	RAD.	FEEDLINES
76'	40,000 SQ IN X Ka (Ka=0.8)	—	(12) 1 5/8" (INSIDE POLE) (3) HYBRID CABLE (INSIDE POLE)
64'	40,000 SQ IN X Ka (Ka=0.8)	—	(12) 1 5/8" (INSIDE POLE) (3) HYBRID CABLE (INSIDE POLE)
52'	30,000 SQ IN X Ka (Ka=0.8)	—	(3) HYBRID CABLE (INSIDE POLE)
42'	ANDREW HP10 (2 GHz)	—	(1) 1 5/8" (INSIDE POLE)
34'	ANDREW HP6 (2 GHz)	—	(1) 1 5/8" (INSIDE POLE)
26'	ANDREW HP6 (2 GHz)	—	(1) 1 5/8" (INSIDE POLE)

POLE DATA

POLE 65 KSI 18 SIDED					
ELEV.	WALL THICKNESS	TAPER	TUBE LENGTH	TOP DIA.	BASE DIA.
35'-80'	3/16"	.280"/FT.	45'-0"	22"	34 5/8"
0'-40'	1/4"	.280"/FT.	40'-0"	32 13/16"	44"

ANCHOR BOLT DATA:

(16x) 1 1/2" F1554 GRADE 105 KSI
 X 6'-0" LG ON A 50" BOLT CIRCLE
 TEMPLATE O.D. = 54" A36

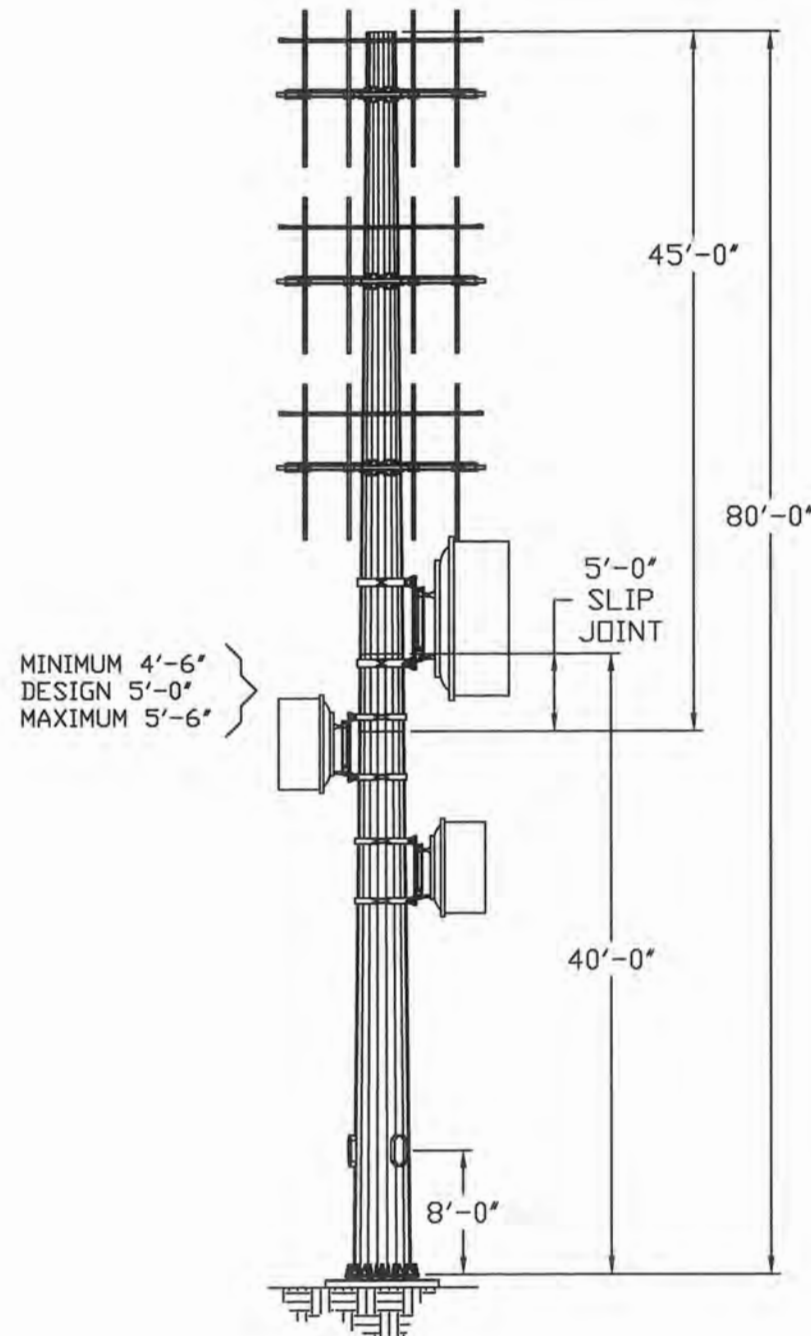
BASE PLATE DATA:

56", 1 1/2" THICK, ROUND
 ASTM A572 50 KSI
 (16x) 3/8" THICK X 9" TALL GUSSETS
 ASTM A572 65 KSI

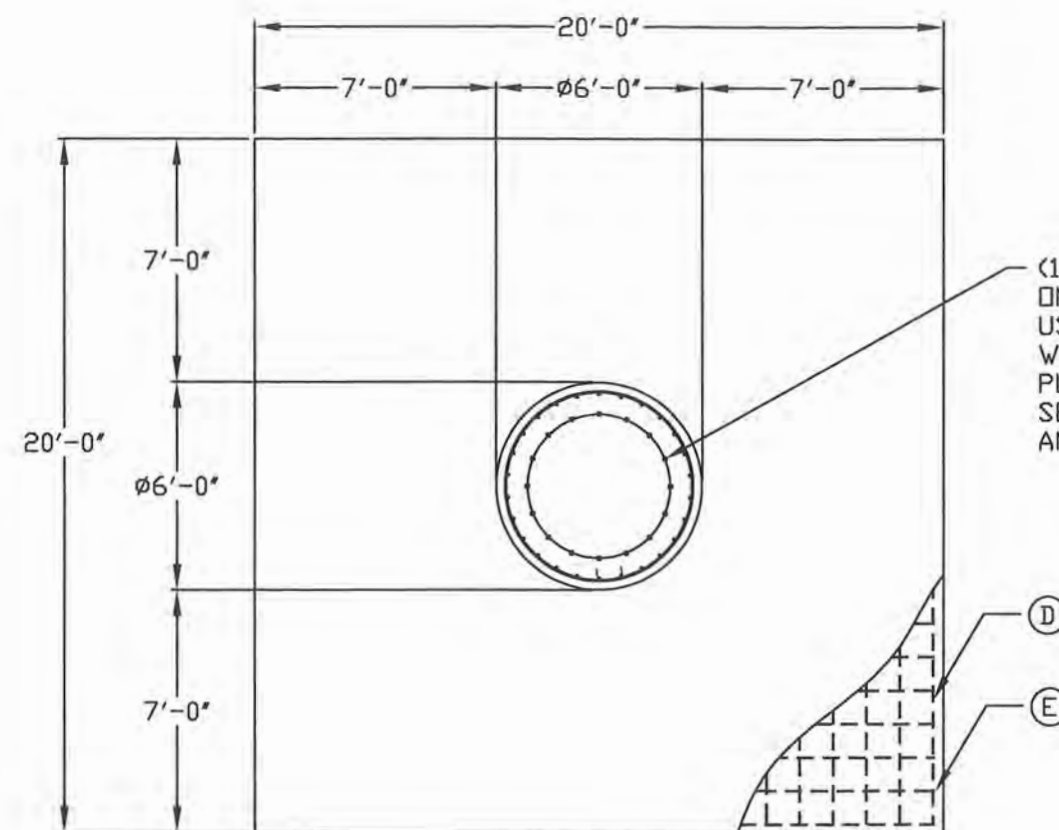
NOTES:

- ORIENT V-NOTCH ON TOP OF TEMPLATE AND REFERENCE TAB ON BASE PLATE @ 0°.
- STAMP "EEI 107430" ON TOP OF BASE PLATE (NEAR NORTH TAB) WITH 1/2" STEEL STAMPS.

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				NAME	 Ehresmann Engineering, Inc. 4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780	TITLE: 80' MONOPOLE
			DRAWN BY:	GE		
			CHECKED BY:			DWG. NO. 107430 E01
			ENG APPR.			
			MFG APPR.			
			Q.C.			
			Site:	WA-SPOKANE VALLEY-GREENACRES		Sheet NO. E01
	DRAWING CREATED	10/08/20				
REV	DESCRIPTION	DATE	Job#	107430		



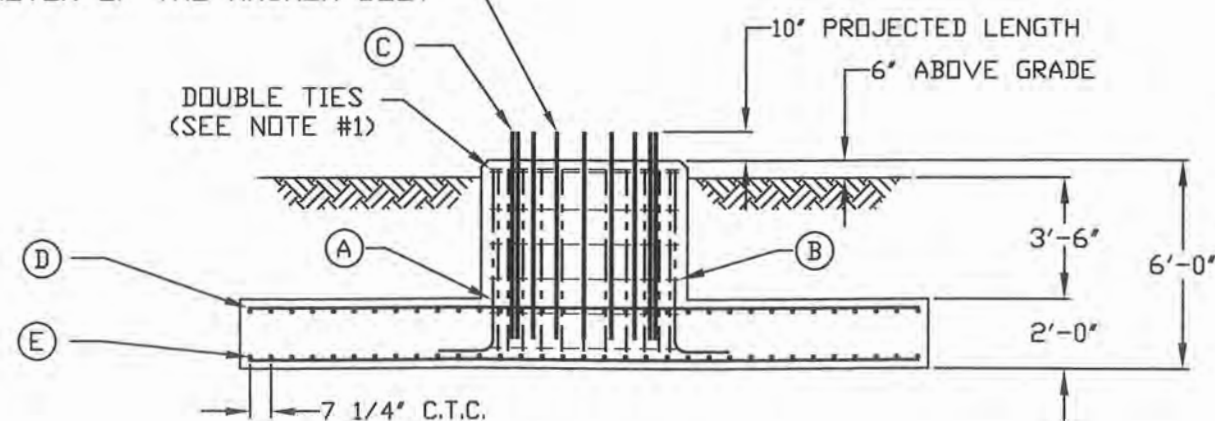
TOP VIEW

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(16x) 1 1/2"Ø ANCHOR BOLTS ON A Ø50" BOLT CIRCLE. USE TEMPLATE FURNISHED WITH MONOPOLE TO CORRECTLY PLACE ANCHOR BOLTS AS SHOWN. SEE DWG #107430E03 FOR PROPER ANCHOR BOLT & TEMPLATE ASSEMBLY



THE CLEAR DISTANCE FROM THE TOP OF CONCRETE TO THE BOTTOM LEVELING NUT IS NOT TO EXCEED 1.0 TIMES THE DIAMETER OF THE ANCHOR BOLT



ELEVATION VIEW

MATERIAL LIST

ITEM	QTY	GRADE	DESCRIPTION	
A	26	60	#8 BARS	5'-3" 19' HOOK
B	7	60	#4 BARS	4" HOOKS 8 7/8" LAP (STAGGERED) 5'-6"
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* SUPPLIED BY EEI, ALL OTHER MATERIAL TO BE SUPPLIED BY THE CONTRACTOR.

NOTES:

1. LATERAL REINFORCEMENT, CONSISTING OF TWO (2) HORIZONTAL TIES SHALL BE DISTRIBUTED WITHIN 5' OF TOP OF CONCRETE PER ACI 318. THE ENDS OF ALL CIRCULAR TIES SHALL TERMINATE WITH STANDARD HOOKS THAT ENGAGE A LONGITUDINAL COLUMN BAR.
2. FOUNDATION DESIGN BASED ON SOILS REPORT BY GEOPROFESSIONAL INNOVATION DATED SEPTEMBER 2, 2020; FILE NO. PU20197A. CONTRACTOR TO REVIEW SOILS REPORT FOR POSSIBLE SPECIAL INSTRUCTIONS BY GEOTECHNICAL ENGINEER.
3. MINIMUM COMPACTED UNIT WEIGHT OF ALL BACKFILL TO BE 130 PCF.
4. 33.82 CUBIC YARDS CONCRETE REQUIRED THIS FOUNDATION.
5. MONOPOLE BASE REACTIONS;
MOMENT = 1,842 FT-KIPS
SHEAR = 31 KIPS
AXIAL = 33 KIPS

CONCRETE MIX REQUIREMENTS:

CEMENT: TYPE I/II PORTLAND CEMENT
28 DAY COMPRESSIVE STRENGTH = 4500 PSI
MAXIMUM WATER/CEMENT RATIO = 0.45
SLUMP = 4"-6"
ENTRAINED AIR CONTENT = 5%-7%

△			NAME	Ehresmann Engineering, Inc.
△		DRAWN BY:	GE	
△		CHECKED BY:		
△		ENG APPR.		
△		MFG APPR.		
△		Q.C.		
△		Site:		
△		WA-SPOKANE VALLEY-GREENACRES		
△	DRAWING CREATED	10/9/20		
REV	DESCRIPTION	DATE	Job# 107430	

4400 West 31st Street
Yankton, SD 57078
605-665-7532
605-665-9780

TITLE:
80' MONOPOLE
MAT TYPE FOUNDATION
DESIGN

DWG. NO.
107430E02

Sheet NO. E02

Rev. 1A

GENERAL:

Ehresmann Engineering, Inc. (EEI) designs and manufactures steel towers/poles and tower components to the most stringent industry standards, and uses the highest quality materials. However, certain hazards are inherent in tower work. For this reason, it is imperative that erection of towers and installation of tower components be accomplished in a safe and workmanlike manner, and only by experienced and professional contractors. Unless the customer specifies otherwise in writing, or unless otherwise noted in our design documents or on our installation drawings, design of and/or fabrication of items by Ehresmann Engineering, Inc. shall meet the conditions outlined in these notes.

1. All tower designs and/or work shall be in accordance with TIA-222-G, "Structural Standards for Steel Antenna Tower and Antenna Supporting Structures" or as otherwise specified in writing by the customer.
2. Purchasers shall verify the installation is in conformance with all local, state, and federal requirements. This also includes requirements for obstruction marking and lighting.
3. If towers, tower components, mounts, foundations or modification materials are not installed in accordance with Ehresmann Engineering, Inc. installation drawings and specifications, then all designs are considered invalid, and EEI disclaims any responsibility for said design and/or certification.
4. The purchaser shall be responsible to inspect condition of underground anchors prior to work on towers, and to furnish any and all soils reports, where required.
5. All items must be inventoried at the time of delivery to the job site/storage facility. Any shortages reported after this delivery will be the responsibility of the Contractor/Owner.
6. Any problems that occur with scheduling, transportation, delivery, foundation installation, erection or any items furnished by EEI must be reported immediately to allow EEI time to take corrective measures. EEI will make every effort to repair/replace necessary items in an expedited manner and/or will pursue corrective measures in the most economical way possible at our discretion. However, under no circumstances will EEI pay for or be responsible for any down time or expenses incurred due to down time.
7. EEI will make every effort to deliver materials at the requested time. However, we cannot and will not be responsible for delays caused by breakdowns, weather and/or other factors out of our control once the materials have left our facility. We strongly suggest that cranes, tower crews, etc... not be scheduled until delivery is verified to be on time. EEI will not be responsible for any costs incurred due to these possible delays.
8. Any and all permits, licenses, or payment of taxes required for construction are the sole responsibility of the purchaser.
9. Manufacturer Assistance: Contractors / Erectors may contact Ehresmann Engineering, Inc. at (605) 665-7532 for questions on design, materials, or installation regarding items furnished by Ehresmann Engineering, Inc.
10. Ehresmann Engineering, Inc. is available, upon request, to supervise installation and/or completion of modifications, or to provide on-site inspection after project completion.

***Please also reference site specific design documents and drawings for additional notes.

Anchor Rod Tightening:

Prior to placing anchor rods in the concrete, it is recommended that an anchor rod rotation capacity test be run with at least one anchor rod. This test may be run in a Skidmore-Whitcomb device or in a mockup of the base plate using a small piece of plate with one hole of equivalent grade, thickness, and finish. The test consists of steps 2 through 12 as outlined below and adapted as necessary for the mock set-up. It is recommended that the nut be rotated at least to the required rotation as given in step 11. After the test, the nuts should be removed and all threads (rod and nut) inspected for damage. Once the anchor rod is removed from the test plate, the nuts shall again be turned onto the rod well past the location of the leveling nut and backed off by one worker using an ordinary wrench with no cheater bar. The threads are considered damaged if more than minimal effort is required to turn the nut. Please note that nuts should be turned onto ALL anchor rods and backed off with minimal effort as outlined above to verify threads of ALL anchor rods and nuts prior to placement in concrete.

Recommended Steps for Anchor Rod Tightening:

1. Verify proper position of anchor rods.
2. Verify that all nuts can be turned onto the rods well past the elevation of the bottom of the leveling nut and backed off by one worker using an ordinary wrench without a cheater bar.
3. If threads of anchor rods were lubricated more than 24 hours before placing the leveling nut or have been wet since they were lubricated, the exposed threads of the anchor rods should be relubricated (Beeswax and toilet-ring wax have been shown to provide good lubrication).
4. Place leveling nuts on anchor rods and level.
5. Place leveling nut washers.
6. Set pole or tower legs.
7. Plumb pole or legs and/or level base plates.
8. Place top nut washers.
9. Threads and bearing surfaces of the top nuts should be lubricated, placed and tightened to the snug-tight condition in a star pattern. Reference TABLE 1 for snug-tight torque values.
10. Tighten leveling nuts to the snug-condition (as outlined for top nuts) in a star pattern.
11. Mark the reference position of the top nut in the snug-tight condition with a suitable marking on one flat with a corresponding reference mark on the base plate at each bolt. Top nuts should be turned in increments in a star pattern (at least two full tightening cycles) to the appropriate nut rotation specified below.

Anchor Rod Diameter, In.	Nut Rotation from Snug-Tight Condition
less than 1 1/2"	1/3 turn
greater than or equal to 1 1/2"	1/6 turn

12. A torque wrench should be used to verify that a torque at least equal to the computed verification torque T_v is required to additionally tighten the leveling nuts and the top nuts. Reference TABLE 1 for verification torque values. An inability to achieve this torque should be interpreted to indicate that the threads have stripped and should be reported to the Engineer of Record.
13. Locking nuts are to be installed over all top nuts when tightening is completed.

TABLE 1

ANCHOR ROD DIAMETER (INCHES)	SNUG-TIGHT TORQUE (FT-LBS)	VERIFICATION TORQUE (FT-LBS)
3/4	38-56	188
1	91-136	454
1 1/4	182-272	908
1 1/2	316-474	1581
1 3/4	499-748	2494
2	750-1125	3750
2 1/4	921-1382	4607

VALUES AS SHOWN IN TABLE 1 ARE BASED ON ASTM F1554 GRADE 105 ANCHOR RODS WITH MINIMUM ULTIMATE TENSILE STRENGTH OF 125 KSI FOR ROD DIAMETERS UP TO 2" AND ASTM A615 GR. 75 ANCHOR RODS WITH MINIMUM ULTIMATE TENSILE STRENGTH OF 105 KSI FOR 2 1/4" ANCHOR RODS.

Erection / Installation:

When installing items provided by Ehresmann Engineering, Inc., the contractor (person performing the erection or modification) shall comply with the following:

1. All structural work shall be performed in relatively calm weather, with wind velocities not exceeding 15 MPH at any height of the tower. Additionally it is recommended that work be completed in accordance with ANSI/TIA-322 and ANSI/ASSE A10.48.
2. All structural work shall be performed by a competent and reputable contractor with experience in similar tower work.
3. Our drawings indicate the major operations to be performed, but do not show every field condition that may be encountered. Prior to beginning work, the contractor should survey the job thoroughly to eliminate future field problems.
4. It is the contractor's sole responsibility to determine the erection procedure and sequence to insure the stability and safety of the tower and adequacy of temporary or incomplete connections during construction.
5. All nuts for bearing type connections shall be tightened to a "snug tight" condition as defined by AISC. All nuts for direct tension/fully pre-tensioned or slip critical connections shall be tightened per the "turn-of-the-nut" method in accordance with AISC.
6. It shall be the contractor's responsibility to ensure that all practices and procedures used during assembly, installation and erection work required on the tower or foundations do not endanger the safety of any personnel nor the structural integrity of the tower.
7. The contractor shall use only safe and workmanlike procedures when modifying a tower.
8. The contractor shall not correct any errors in manufacturing or design without special permission and written instructions from Ehresmann Engineering, Inc. This means straightening, relocation or reaming of bolt holes, drifting or any other application of force to make the members fit. (This restriction does not apply to diagonal members designed for initial tension or specific draw.) The contractor shall immediately notify Ehresmann Engineering, Inc., through the appropriate channels to effect correction.
9. The contractor shall immediately notify Ehresmann Engineering, Inc. of any material which is damaged during erection or installation. The contractor shall not correct or substitute any member damaged during installation without written consent and instructions from Ehresmann Engineering, Inc.
10. The contractor shall refrain from exerting excessive forces on the tower or on modification material during installation. Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Our design assumes that the services of competent and qualified personnel will be utilized to develop proper procedures and rigging plans. Our design also assumes that competent and qualified personnel will be hired to perform the work.
11. All field-punched holes shall be touched up with cold galvanizing. Under no circumstances shall the torching of holes be allowed.
12. All factory installed bracing placed within monopole tube sections is to remain in place until erection is complete. Do not remove bracing without prior consultation with EEI.

Concrete & Foundation Installation:

1. All rebar shall have 3" minimum cover, unless specified otherwise, and shall conform to ASTM A615. Rebar grade to be as specified on site drawings.
2. Tie and secure all rebar and anchor bolts/shafts before placing concrete.
3. Hook length as specified for vertical bars is from back side of bend. Minimum straight length of hook after bend shall be 12x bar diameter.
4. Bending of rebar to be in accordance with ACI-318 latest edition.
5. Sides of excavation may need to be braced or sloped back as required for stability and in accordance with all applicable safety regulations.
6. Base of excavation shall be clean and free of all debris.
7. All excavation, backfill and soil compaction to be completed in accordance with Geotechnical Engineer's recommendations. However, compacted density of all backfill must meet minimum unit weight as specified on site drawings.
8. Attention shall be given to final site drainage and compaction of the fill placed around the foundation to minimize surface water infiltration around the foundation.
9. Concrete strength and mix values to be listed on site specific foundation drawings. Alternate values may be acceptable and could be dependent on placement methods. However, use of alternate values must be approved by EOR prior to installation. EEI will not be responsible for any delays due to request for approval of alternate values. It is the Contractor's responsibility to allow adequate time for approval.
10. Use of water reducers may be required for some placement methods to achieve necessary slump and/or flow without exceeding maximum water/cement ratios. It is Contractor's responsibility to utilize proper mix to ensure proper placement of concrete for the method of placement chosen.
11. Exposed edges of all foundations to be chamfered 1" x 45°.
12. Use steel top and bottom anchor bolt templates provided by EEI for proper anchor bolt spacing and placement.
13. All concrete work shall be in accordance with ACI 318 (Latest Edition). ACI specifications for "Cold Weather" or "Hot Weather" concreting shall be followed as applicable.

Structural Steel & Hardware:

1. All fabricated steel shall have a minimum yield strength of 36 ksi. Use of higher strength steel for some members/items will be noted in design documents or drawings as applicable.
2. All fabricated steel shall be hot dip galvanized per ASTM A123.
3. All structural fasteners shall be ASTM F3125 Gr. A325 unless specified otherwise.
4. U-Bolts to be ASTM A36, A572 Gr. 50, or A193 Gr. B7 depending on size and application. Reference site specific drawings for additional details.
5. Step Bolts to be ASTM A449
6. All hardware shall be hot dip galvanized per ASTM A153.
7. Welded connections shall conform to the latest revision of the American Welding Society, A.W.S. D1.1.
8. All structural components shall be verified for proper assembly by the field crew prior to installation.



			NAME		Ehresmann Engineering, Inc.	TITLE: STD TOWER & TOWER FOUNDATION NOTES	
			DRAWN BY:				EJH
			CHECKED BY:				
			ENG APPR.				
			MFG APPR.				
			Q.C.				
	TUBE BRACING NOTE	10/29/19	Site:	WA-SPOKANE VALLEY-GREENACRES	4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780	DWG. NO. 107430N1	
	U-BOLT/STEP-BOLT GR.	10/16/19					
	DRAWING CREATED	03/18/17					
REV	DESCRIPTION	DATE	Job#	107430		Sheet NO. N1 Rev. 1A	

SPECIAL INSPECTION STATEMENT IN ACCORDANCE WITH IBC SECTION 1704.3

VERIFICATION AND TESTING SHALL BE COMPLETED AS FOLLOWS:

REINFORCED CONCRETE CONSTRUCTION (MONOPOLE FOUNDATION):

- VERIFY PROPER DIMENSIONS AND DEPTH OF FOUNDATION
- INSPECTION OF REINFORCING STEEL TO INCLUDE VERIFICATION OF PROPER MATERIAL GRADE, QTY, SIZE AND PLACEMENT
- VERIFY PROJECTION LENGTH OF ANCHOR BOLTS ABOVE TOP OF CONCRETE PRIOR TO CONCRETE SETTING
- VERIFY USE OF APPROVED CONCRETE MIX DESIGN
- VERIFY PROPER CONCRETE SLUMP AND AIR CONTENT BY TESTING AT THE TIME FRESH CONCRETE IS SAMPLED FOR STRENGTH TESTS
- VERIFY PROPER PLACEMENT OF CONCRETE IN ACCORDANCE WITH APPROVED TECHNIQUES.
- VERIFY CONCRETE COMPRESSIVE STRENGTH BY MEANS OF STANDARD TEST CYLINDERS TO BE BROKE AT 7 DAYS AND 28 DAYS MINIMUM.

STRUCTURAL STEEL CONSTRUCTION (MONOPOLE STRUCTURE):

INSPECTION OF HIGH-STRENGTH BOLTED CONNECTIONS:

- VERIFY IDENTIFICATION MARKINGS/GRADE, QTY AND SIZE OF BOLTS, NUTS & WASHERS
- VISUALLY INSPECT SNUG-TIGHT BOLTED JOINTS TO VERIFY ALL PLIES IN CONTACT AND LOCK-WASHERS COMPRESSED
- VERIFY PROPER TIGHTENING OF PRETENSIONED CONNECTIONS USING TURN-OF-NUT METHOD WITH MATCHMARKING

STRUCTURAL OBSERVATION:

- VERIFY PROPER INSTALLATION/ERECTION OF MONOPOLE PER DESIGN SPECIFICATIONS UPON COMPLETION OF INSTALLATION. VERIFICATION TO INCLUDE THE FOLLOWING:
 - MINIMUM SLIP JOINT OVERLAPS
 - STRUCTURE PLUMB IN ACCORDANCE WITH TIA-222
 - MAXIMUM CLEAR DISTANCE BETWEEN TOP OF FOUNDATION AND LEVELING NUT

VERIFICATION OF ALL ITEMS AS OUTLINED ABOVE SHALL BE BASED ON DESIGN SPECIFICATIONS AND INSTALLATION DETAILS AS COMPLETED BY EHRESMANN ENGINEERING, INC.

SPECIAL INSPECTOR SHALL IDENTIFY AND DOCUMENT RESULTS OF ALL INSPECTIONS AND MATERIAL TESTING AS OUTLINED. INSPECTION REPORTS SHALL BE SUBMITTED AS SOON AS POSSIBLE UPON COMPLETION OF INSPECTION BUT NO MORE THAN 5 WORKING DAYS UNLESS OTHERWISE AGREED BY PROJECT OWNER.

DEVIATION OR NON-COMPLIANCE SHALL BE CORRECTED BY CONTRACTOR. ANY DEVIATIONS NOT CORRECTED ARE TO BE CLEARLY IDENTIFIED IN FINAL REPORTS AND EHRESMANN ENGINEERING, INC. SHOULD BE NOTIFIED IMMEDIATELY FOR CONSULTATION.

THE PROJECT OWNER OR AN AGENT OF THE OWNER IS RESPONSIBLE FOR SCHEDULING AND FUNDING ALL SPECIAL INSPECTION SERVICES.

SPECIAL INSPECTIONS REQUIRED:		
	CONTINUOUS	PERIODIC
REINFORCED CONCRETE:		
PIER/PAD FOUNDATION		X
REINFORCING STEEL		X
CONCRETE PLACEMENT	X	
SAMPLING & TESTING		X
ANCHORS/BOLTS CAST IN CONCRETE		X
SOILS		X
STRUCTURAL STEEL:		
HIGH-STRENGTH BOLTS		X
STRUCTURAL OBSERVATION:		
YES		X



△			NAME	Ehresmann Engineering, Inc.  4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780	TITLE: 80' MONOPOLE SPECIAL INSPECTION STATEMENT	
△			DRAWN BY: GE			
△			CHECKED BY:			
△			ENG APPR.			
△			MFG APPR.			
△			Q.C.	Job# 107430	Sheet NO. SI	
△			Site:			Rev. 1A
△			WA-SPOKANE VALLEY-GREENACRES			
△	DRAWING CREATED	10/09/20	DATE			

tnxTower Ehresmann Engineering, Inc. 4400 W. 31st Street Yankton, SD Phone: (605) 665-7532 FAX: (605) 665-9780	Job WA-SPOKANE VALLEY-GREENACRES 107430_	Page 1 of 17
	Project 80 FT EHRESMANN MONOPOLE	Date 10:57:33 10/08/20
	Client LENDDLEASE	Designed by EH

Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

Tower is located in Spokane County, Washington.

Basic wind speed of 85 mph.

Structure Class II.

Exposure Category C.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.2500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 40 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Weld together tower sections have slip joint connections..

Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications..

Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards..

Welds are fabricated with ER80S-XXX electrodes..

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity √ Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned Assume Rigid Index Plate Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression √ All Leg Panels Have Same Allowable Offset Girt At Foundation Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
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	Client	LENLEASE	Designed by	EH

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	80.00-35.00	45.00	5.00	18	22.0000	34.5860	0.1875	0.7500	A572-65 (65 ksi)
L2	35.00-0.00	40.00		18	32.8126	44.0001	0.2500	1.0000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	22.3105	12.9812	780.3007	7.7434	11.1760	69.8193	1561.6281	6.4918	3.5420	18.891
	35.0906	20.4714	3060.3011	12.2115	17.5697	174.1807	6124.6290	10.2376	5.7571	30.705
L2	34.7002	25.8384	3461.3048	11.5597	16.6688	207.6520	6927.1641	12.9216	5.3350	21.34
	44.6403	34.7157	8395.0224	15.5313	22.3521	375.5817	16801.0912	17.3612	7.3040	29.216

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L1 80.00-35.00				1	1.02	1.01			
L2 35.00-0.00				1	1.02	1.01			

Monopole Base Plate Data

Base Plate Data	
Base plate is square	
Base plate is grouted	
Anchor bolt grade	F1554-105
Anchor bolt size	1.5000 in
Number of bolts	16
Embedment length	62.0000 in
f _c	5 ksi
Grout space	3.0000 in
Base plate grade	A572-50
Base plate thickness	1.5000 in
Bolt circle diameter	50.0000 in
Outer diameter	56.0000 in
Inner diameter	38.0000 in
Base plate type	Stiffened Plate
Bolts per stiffener	1
Stiffener thickness	0.3750 in
Stiffener height	9.0000 in

Feed Line/Linear Appurtenances - Entered As Area

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight plf
AVA7-50 (1-5/8 LOW DENS. FOAM)	C	No	Yes	Inside Pole	76.00 - 0.00	12	No Ice 1/2" Ice	0.00 0.00	0.72 0.72
Hybrid Cable	C	No	Yes	Inside Pole	76.00 - 0.00	3	No Ice 1/2" Ice	0.00 0.00	0.72 0.72
AVA7-50 (1-5/8 LOW DENS. FOAM)	C	No	Yes	Inside Pole	64.00 - 0.00	12	No Ice 1/2" Ice	0.00 0.00	0.72 0.72
Hybrid Cable	C	No	Yes	Inside Pole	64.00 - 0.00	3	No Ice 1/2" Ice	0.00 0.00	0.72 0.72
Hybrid Cable	C	No	Yes	Inside Pole	52.00 - 0.00	3	No Ice 1/2" Ice	0.00 0.00	0.72 0.72
AVA7-50 (1-5/8 LOW DENS. FOAM)	C	No	Yes	Inside Pole	42.00 - 0.00	1	No Ice 1/2" Ice	0.00 0.00	0.72 0.72
AVA7-50 (1-5/8 LOW DENS. FOAM)	C	No	Yes	Inside Pole	34.00 - 0.00	1	No Ice 1/2" Ice	0.00 0.00	0.72 0.72
AVA7-50 (1-5/8 LOW DENS. FOAM)	C	No	Yes	Inside Pole	26.00 - 0.00	1	No Ice 1/2" Ice	0.00 0.00	0.72 0.72
Safety Line 3/8	A	No	Yes	CaAa (Out Of Face)	80.00 - 12.00	1	No Ice 1/2" Ice	0.04 0.14	0.22 0.75

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	80.00-35.00	A	0.000	0.000	0.000	1.688	0.01
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.80
L2	35.00-0.00	A	0.000	0.000	0.000	0.863	0.01
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.90

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	80.00-35.00	A	0.527	0.000	0.000	0.000	6.434	0.04
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.80
L2	35.00-0.00	A	0.469	0.000	0.000	0.000	3.289	0.02
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.90

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Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
40,000 SQ IN x Ka (Ka = 0.8)	A	None		0.0000	76.00	No Ice	277.78	277.78	6.00
						1/2" Ice	317.78	317.78	8.00
40,000 SQ IN x Ka (Ka = 0.8)	B	None		0.0000	64.00	No Ice	277.78	277.78	6.00
						1/2" Ice	317.78	317.78	8.00
30,000 SQ IN x Ka (Ka = 0.8)	C	None		0.0000	52.00	No Ice	208.33	208.33	5.50
						1/2" Ice	248.33	248.33	7.50

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft ²	Weight K
Andrew HP10 (2 GHz)	B	Paraboloid w/Shroud (HP)	From Leg	0.50 0.00 0.00	0.0000	87.5000	42.00	10.00	No Ice 1/2" Ice	78.54 79.85	0.70 1.30
Andrew HP6 (2 GHz)	C	Paraboloid w/Shroud (HP)	From Leg	0.50 0.00 0.00	0.0000	87.5000	34.00	6.00	No Ice 1/2" Ice	28.27 29.07	0.38 0.62
Andrew HP6 (2 GHz)	B	Paraboloid w/Shroud (HP)	From Leg	0.50 0.00 0.00	0.0000	87.5000	26.00	6.00	No Ice 1/2" Ice	28.27 29.07	0.38 0.62

Tower Pressures - No Ice

$$G_H = 1.100$$

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L1 80.00-35.00	56.30	1.121	20	107.627	A	0.000	109.780	109.780	100.00	0.000	1.688
					B	0.000	109.780		100.00	0.000	0.000
					C	0.000	109.780		100.00	0.000	0.000
L2 35.00-0.00	17.27	0.874	16	115.705	A	0.000	118.019	118.019	100.00	0.000	0.863
					B	0.000	118.019		100.00	0.000	0.000
					C	0.000	118.019		100.00	0.000	0.000

Tower Pressure - With Ice

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$$G_H = 1.100$$

Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1 80.00-35.00	56.30	1.121	4	0.5274	111.583	A	0.000	113.814	113.814	100.00	0.000	6.434
						B	0.000	113.814		100.00	0.000	0.000
						C	0.000	113.814		100.00	0.000	0.000
L2 35.00-0.00	17.27	0.874	3	0.4687	118.782	A	0.000	121.157	121.157	100.00	0.000	3.289
						B	0.000	121.157		100.00	0.000	0.000
						C	0.000	121.157		100.00	0.000	0.000

Tower Pressure - Service

$$G_H = 1.100$$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1 80.00-35.00	56.30	1.121	9	107.627	A	0.000	109.780	109.780	100.00	0.000	1.688
					B	0.000	109.780		100.00	0.000	0.000
					C	0.000	109.780		100.00	0.000	0.000
L2 35.00-0.00	17.27	0.874	7	115.705	A	0.000	118.019	118.019	100.00	0.000	0.863
					B	0.000	118.019		100.00	0.000	0.000
					C	0.000	118.019		100.00	0.000	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
L1 80.00-35.00	0.81	2.59	A	1	0.65	20	1	1	109.780	1.58	35.01	C
			B	1	0.65		1	1	109.780			
			C	1	0.65		1	1	109.780			
L2 35.00-0.00	0.91	4.16	A	1	0.65	16	1	1	118.019	1.35	38.49	C
			B	1	0.65		1	1	118.019			
			C	1	0.65		1	1	118.019			
Sum Weight:	1.71	6.75						OTM	111.95 kip-ft	2.92		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
L1	0.81	2.59	A	1	0.65	20	1	1	109.780	1.58	35.01	C

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Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
80.00-35.00			B	1	0.65		1	1	109.780			
			C	1	0.65		1	1	109.780			
L2 35.00-0.00	0.91	4.16	A	1	0.65	16	1	1	118.019	1.35	38.49	C
			B	1	0.65		1	1	118.019			
			C	1	0.65		1	1	118.019			
Sum Weight:	1.71	6.75						OTM	111.95 kip-ft	2.92		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
L1 80.00-35.00	0.81	2.59	A	1	0.65	20	1	1	109.780	1.58	35.01	C
			B	1	0.65		1	1	109.780			
			C	1	0.65		1	1	109.780			
L2 35.00-0.00	0.91	4.16	A	1	0.65	16	1	1	118.019	1.35	38.49	C
			B	1	0.65		1	1	118.019			
			C	1	0.65		1	1	118.019			
Sum Weight:	1.71	6.75						OTM	111.95 kip-ft	2.92		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
L1 80.00-35.00	0.83	3.43	A	1	1.2	4	1	1	113.814	0.68	15.18	C
			B	1	1.2		1	1	113.814			
			C	1	1.2		1	1	113.814			
L2 35.00-0.00	0.92	4.96	A	1	1.2	3	1	1	120.807	0.57	16.29	C
			B	1	1.2		1	1	120.807			
			C	1	1.2		1	1	120.807			
Sum Weight:	1.75	8.39						OTM	48.30 kip-ft	1.25		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
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Section Elevation ft	Add Weight K	Self Weight K	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
L1 80.00-35.00	0.83	3.43	A	1	1.2	4	1	1	113.814	0.68	15.18	C
			B	1	1.2		1	1	113.814			
			C	1	1.2		1	1	113.814			
L2 35.00-0.00	0.92	4.96	A	1	1.2	3	1	1	120.807	0.57	16.29	C
			B	1	1.2		1	1	120.807			
			C	1	1.2		1	1	120.807			
Sum Weight:	1.75	8.39						OTM	48.30 kip-ft	1.25		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
L1 80.00-35.00	0.83	3.43	A	1	1.2	4	1	1	113.814	0.68	15.18	C
			B	1	1.2		1	1	113.814			
			C	1	1.2		1	1	113.814			
L2 35.00-0.00	0.92	4.96	A	1	1.2	3	1	1	120.807	0.57	16.29	C
			B	1	1.2		1	1	120.807			
			C	1	1.2		1	1	120.807			
Sum Weight:	1.75	8.39						OTM	48.30 kip-ft	1.25		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
L1 80.00-35.00	0.81	2.59	A	1	0.65	9	1	1	109.780	0.70	15.61	C
			B	1	0.65		1	1	109.780			
			C	1	0.65		1	1	109.780			
L2 35.00-0.00	0.91	4.16	A	1	0.65	7	1	1	118.019	0.60	17.16	C
			B	1	0.65		1	1	118.019			
			C	1	0.65		1	1	118.019			
Sum Weight:	1.71	6.75						OTM	49.91 kip-ft	1.30		

Tower Forces - Service - Wind 60 To Face

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Section Elevation ft	Add Weight K	Self Weight K	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
L1 80.00-35.00	0.81	2.59	A	1	0.65	9	1	1	109.780	0.70	15.61	C
			B	1	0.65		1	1	109.780			
			C	1	0.65		1	1	109.780			
L2 35.00-0.00	0.91	4.16	A	1	0.65	7	1	1	118.019	0.60	17.16	C
			B	1	0.65		1	1	118.019			
			C	1	0.65		1	1	118.019			
Sum Weight:	1.71	6.75						OTM	49.91 kip-ft	1.30		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
L1 80.00-35.00	0.81	2.59	A	1	0.65	9	1	1	109.780	0.70	15.61	C
			B	1	0.65		1	1	109.780			
			C	1	0.65		1	1	109.780			
L2 35.00-0.00	0.91	4.16	A	1	0.65	7	1	1	118.019	0.60	17.16	C
			B	1	0.65		1	1	118.019			
			C	1	0.65		1	1	118.019			
Sum Weight:	1.71	6.75						OTM	49.91 kip-ft	1.30		

Force Totals

Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M _x kip-ft	Sum of Overturning Moments, M _z kip-ft	Sum of Torques kip-ft
Leg Weight	6.75					
Bracing Weight	0.00					
Total Member Self-Weight	6.75			1.40	-1.16	
Total Weight	27.42			1.40	-1.16	
Wind 0 deg - No Ice		-1.00	-18.67	-1080.61	38.23	0.95
Wind 30 deg - No Ice		9.65	-15.81	-921.97	-553.17	4.32
Wind 60 deg - No Ice		16.71	-8.67	-513.98	-957.95	3.75
Wind 90 deg - No Ice		19.14	0.47	20.22	-1100.39	1.97
Wind 120 deg - No Ice		16.75	9.27	541.19	-959.90	0.36
Wind 150 deg - No Ice		9.97	16.00	932.44	-566.75	-0.90
Wind 180 deg - No Ice		0.62	18.52	1077.82	-25.78	-2.94
Wind 210 deg - No Ice		-9.15	15.95	930.28	531.99	-4.00
Wind 240 deg - No Ice		-16.95	8.23	500.10	965.19	-1.32
Wind 270 deg - No Ice		-19.53	-0.67	-24.99	1113.53	-0.34
Wind 300 deg - No Ice		-17.11	-9.63	-551.66	971.65	-0.81
Wind 330 deg - No Ice		-10.48	-16.32	-941.93	583.38	-1.04
Member Ice	1.65					
Total Weight Ice	36.60			2.45	-2.16	
Wind 0 deg - Ice		-0.22	-5.25	-293.56	6.71	0.21

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Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M_x kip-ft	Sum of Overturning Moments, M_z kip-ft	Sum of Torques kip-ft
Wind 30 deg - Ice		2.70	-4.47	-250.82	-152.67	0.97
Wind 60 deg - Ice		4.67	-2.48	-139.79	-262.98	0.85
Wind 90 deg - Ice		5.36	0.11	6.68	-302.07	0.44
Wind 120 deg - Ice		4.68	2.61	150.16	-263.41	0.08
Wind 150 deg - Ice		2.77	4.51	257.44	-155.70	-0.20
Wind 180 deg - Ice		0.14	5.22	297.19	-7.70	-0.66
Wind 210 deg - Ice		-2.59	4.50	256.95	144.09	-0.90
Wind 240 deg - Ice		-4.73	2.38	140.91	260.82	-0.30
Wind 270 deg - Ice		-5.45	-0.15	-3.50	301.23	-0.08
Wind 300 deg - Ice		-4.76	-2.69	-148.26	262.27	-0.18
Wind 330 deg - Ice		-2.89	-4.59	-255.32	155.67	-0.24
Total Weight	27.42			1.40	-1.16	
Wind 0 deg - Service		-0.44	-8.32	-480.98	16.40	0.42
Wind 30 deg - Service		4.30	-7.05	-410.25	-247.26	1.93
Wind 60 deg - Service		7.45	-3.87	-228.36	-427.71	1.67
Wind 90 deg - Service		8.53	0.21	9.79	-491.22	0.88
Wind 120 deg - Service		7.47	4.13	242.05	-428.58	0.16
Wind 150 deg - Service		4.44	7.13	416.48	-253.31	-0.40
Wind 180 deg - Service		0.28	8.26	481.29	-12.13	-1.31
Wind 210 deg - Service		-4.08	7.11	415.52	236.53	-1.79
Wind 240 deg - Service		-7.56	3.67	223.73	429.66	-0.59
Wind 270 deg - Service		-8.71	-0.30	-10.36	495.79	-0.15
Wind 300 deg - Service		-7.63	-4.29	-245.16	432.54	-0.36
Wind 330 deg - Service		-4.67	-7.28	-419.15	259.44	-0.46

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp

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Comb. No.	Description
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	80 - 35	Pole	Max Tension	20	0.00	-0.00	-0.00
			Max. Compression	26	-33.18	-2.40	-1.42
			Max. Mx	8	-24.29	-631.08	-2.76
			Max. My	14	-24.32	-3.72	-629.28
			Max. Vy	20	-28.02	629.83	1.64
			Max. Vx	2	-27.04	2.51	628.02
			Max. Torque	16			5.52
L2	35 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.20	-2.46	-2.81
			Max. Mx	20	-32.87	1835.61	41.36
			Max. My	2	-32.88	62.91	1782.03
			Max. Vy	20	-31.29	1835.61	41.36
			Max. Vx	2	-29.90	62.91	1782.03
			Max. Torque	4			-6.96

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	37	42.20	4.76	2.69
	Max. H _x	20	32.91	31.25	1.08
	Max. H _z	2	32.91	1.60	29.87
	Max. M _x	2	1782.03	1.60	29.87
	Max. M _z	8	1813.26	-30.63	-0.75
	Max. Torsion	16	6.45	14.64	-25.52

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Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Min. Vert	17	24.68	14.64	-25.52
	Min. H _x	8	32.91	-30.63	-0.75
	Min. H _z	14	32.91	-1.00	-29.63
	Min. M _x	14	-1776.39	-1.00	-29.63
	Min. M _z	20	-1835.61	31.25	1.08
	Min. Torsion	4	-6.95	-15.45	25.30

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	27.42	0.00	0.00	1.40	-1.16	0.00
1.2 Dead+1.6 Wind 0 deg - No Ice	32.91	-1.60	-29.87	-1782.03	62.91	1.59
0.9 Dead+1.6 Wind 0 deg - No Ice	24.68	-1.60	-29.87	-1768.68	62.94	1.57
1.2 Dead+1.6 Wind 30 deg - No Ice	32.91	15.45	-25.30	-1520.72	-911.25	6.95
0.9 Dead+1.6 Wind 30 deg - No Ice	24.68	15.45	-25.30	-1509.33	-903.90	6.94
1.2 Dead+1.6 Wind 60 deg - No Ice	32.91	26.73	-13.88	-848.31	-1578.41	6.03
0.9 Dead+1.6 Wind 60 deg - No Ice	24.68	26.73	-13.88	-842.08	-1565.93	6.02
1.2 Dead+1.6 Wind 90 deg - No Ice	32.91	30.63	0.75	32.47	-1813.26	3.16
0.9 Dead+1.6 Wind 90 deg - No Ice	24.68	30.63	0.75	31.86	-1798.95	3.15
1.2 Dead+1.6 Wind 120 deg - No Ice	32.91	26.81	14.83	891.67	-1581.59	0.57
0.9 Dead+1.6 Wind 120 deg - No Ice	24.68	26.81	14.83	884.32	-1569.09	0.57
1.2 Dead+1.6 Wind 150 deg - No Ice	32.91	15.95	25.61	1536.71	-933.46	-1.47
0.9 Dead+1.6 Wind 150 deg - No Ice	24.68	15.95	25.61	1524.36	-925.98	-1.46
1.2 Dead+1.6 Wind 180 deg - No Ice	32.91	1.00	29.63	1776.39	-41.65	-4.75
0.9 Dead+1.6 Wind 180 deg - No Ice	24.68	1.00	29.63	1762.18	-41.07	-4.74
1.2 Dead+1.6 Wind 210 deg - No Ice	32.91	-14.64	25.52	1533.20	877.61	-6.45
0.9 Dead+1.6 Wind 210 deg - No Ice	24.68	-14.64	25.52	1520.87	871.15	-6.44
1.2 Dead+1.6 Wind 240 deg - No Ice	32.91	-27.12	13.17	824.55	1591.16	-2.15
0.9 Dead+1.6 Wind 240 deg - No Ice	24.68	-27.12	13.17	817.56	1579.34	-2.14
1.2 Dead+1.6 Wind 270 deg - No Ice	32.91	-31.25	-1.08	-41.36	1835.61	-0.57
0.9 Dead+1.6 Wind 270 deg - No Ice	24.68	-31.25	-1.08	-41.58	1821.91	-0.57
1.2 Dead+1.6 Wind 300 deg - No Ice	32.91	-27.38	-15.41	-909.83	1601.67	-1.28
0.9 Dead+1.6 Wind 300 deg - No Ice	24.68	-27.38	-15.41	-903.27	1589.79	-1.28

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Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.6 Wind 330 deg - No Ice	32.91	-16.76	-26.11	-1553.29	961.48	-1.61
0.9 Dead+1.6 Wind 330 deg - No Ice	24.68	-16.76	-26.11	-1541.73	954.58	-1.62
1.2 Dead+1.0 Ice+1.0 Temp	42.20	0.00	0.00	2.81	-2.46	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	42.20	-0.22	-5.25	-305.11	6.61	0.23
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	42.20	2.70	-4.47	-260.68	-159.05	0.99
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	42.20	4.67	-2.48	-145.20	-273.80	0.86
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	42.20	5.36	0.11	7.21	-314.47	0.45
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	42.20	4.68	2.61	156.54	-274.24	0.08
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	42.20	2.77	4.51	268.17	-162.18	-0.21
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	42.20	0.14	5.22	309.53	-8.20	-0.68
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	42.20	-2.59	4.50	267.67	149.67	-0.92
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	42.20	-4.73	2.38	147.04	271.00	-0.31
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	42.20	-5.45	-0.15	-3.25	313.04	-0.08
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	42.20	-4.76	-2.69	-153.91	272.49	-0.18
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	42.20	-2.89	-4.59	-265.30	161.57	-0.22
Dead+Wind 0 deg - Service	27.42	-0.44	-8.32	-493.31	16.68	0.44
Dead+Wind 30 deg - Service	27.42	4.30	-7.05	-420.82	-253.55	1.94
Dead+Wind 60 deg - Service	27.42	7.45	-3.87	-234.31	-438.61	1.68
Dead+Wind 90 deg - Service	27.42	8.53	0.21	9.98	-503.75	0.88
Dead+Wind 120 deg - Service	27.42	7.47	4.13	248.28	-439.49	0.16
Dead+Wind 150 deg - Service	27.42	4.44	7.13	427.19	-259.72	-0.41
Dead+Wind 180 deg - Service	27.42	0.28	8.26	493.67	-12.36	-1.33
Dead+Wind 210 deg - Service	27.42	-4.08	7.11	426.21	242.62	-1.80
Dead+Wind 240 deg - Service	27.42	-7.56	3.67	229.64	440.56	-0.60
Dead+Wind 270 deg - Service	27.42	-8.71	-0.30	-10.53	508.37	-0.16
Dead+Wind 300 deg - Service	27.42	-7.63	-4.29	-251.40	443.49	-0.36
Dead+Wind 330 deg - Service	27.42	-4.67	-7.28	-429.88	265.92	-0.45

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-27.42	0.00	0.00	27.42	0.00	0.000%
2	-1.60	-32.91	-29.87	1.60	32.91	29.87	0.000%
3	-1.60	-24.68	-29.87	1.60	24.68	29.87	0.000%
4	15.45	-32.91	-25.30	-15.45	32.91	25.30	0.000%
5	15.45	-24.68	-25.30	-15.45	24.68	25.30	0.000%
6	26.73	-32.91	-13.88	-26.73	32.91	13.88	0.000%
7	26.73	-24.68	-13.88	-26.73	24.68	13.88	0.000%
8	30.63	-32.91	0.75	-30.63	32.91	-0.75	0.000%
9	30.63	-24.68	0.75	-30.63	24.68	-0.75	0.000%
10	26.81	-32.91	14.83	-26.81	32.91	-14.83	0.000%
11	26.81	-24.68	14.83	-26.81	24.68	-14.83	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
12	15.95	-32.91	25.61	-15.95	32.91	-25.61	0.000%
13	15.95	-24.68	25.61	-15.95	24.68	-25.61	0.000%
14	1.00	-32.91	29.63	-1.00	32.91	-29.63	0.000%
15	1.00	-24.68	29.63	-1.00	24.68	-29.63	0.000%
16	-14.64	-32.91	25.52	14.64	32.91	-25.52	0.000%
17	-14.64	-24.68	25.52	14.64	24.68	-25.52	0.000%
18	-27.12	-32.91	13.17	27.12	32.91	-13.17	0.000%
19	-27.12	-24.68	13.17	27.12	24.68	-13.17	0.000%
20	-31.25	-32.91	-1.08	31.25	32.91	1.08	0.000%
21	-31.25	-24.68	-1.08	31.25	24.68	1.08	0.000%
22	-27.38	-32.91	-15.41	27.38	32.91	15.41	0.000%
23	-27.38	-24.68	-15.41	27.38	24.68	15.41	0.000%
24	-16.76	-32.91	-26.11	16.76	32.91	26.11	0.000%
25	-16.76	-24.68	-26.11	16.76	24.68	26.11	0.000%
26	0.00	-42.20	0.00	-0.00	42.20	-0.00	0.000%
27	-0.22	-42.20	-5.25	0.22	42.20	5.25	0.000%
28	2.70	-42.20	-4.47	-2.70	42.20	4.47	0.000%
29	4.67	-42.20	-2.48	-4.67	42.20	2.48	0.000%
30	5.36	-42.20	0.11	-5.36	42.20	-0.11	0.000%
31	4.68	-42.20	2.61	-4.68	42.20	-2.61	0.000%
32	2.77	-42.20	4.51	-2.77	42.20	-4.51	0.000%
33	0.14	-42.20	5.22	-0.14	42.20	-5.22	0.000%
34	-2.59	-42.20	4.50	2.59	42.20	-4.50	0.000%
35	-4.73	-42.20	2.38	4.73	42.20	-2.38	0.000%
36	-5.45	-42.20	-0.15	5.45	42.20	0.15	0.000%
37	-4.76	-42.20	-2.69	4.76	42.20	2.69	0.000%
38	-2.89	-42.20	-4.59	2.89	42.20	4.59	0.000%
39	-0.44	-27.42	-8.32	0.44	27.42	8.32	0.000%
40	4.30	-27.42	-7.05	-4.30	27.42	7.05	0.000%
41	7.45	-27.42	-3.87	-7.45	27.42	3.87	0.000%
42	8.53	-27.42	0.21	-8.53	27.42	-0.21	0.000%
43	7.47	-27.42	4.13	-7.47	27.42	-4.13	0.000%
44	4.44	-27.42	7.13	-4.44	27.42	-7.13	0.000%
45	0.28	-27.42	8.26	-0.28	27.42	-8.26	0.000%
46	-4.08	-27.42	7.11	4.08	27.42	-7.11	0.000%
47	-7.56	-27.42	3.67	7.56	27.42	-3.67	0.000%
48	-8.71	-27.42	-0.30	8.71	27.42	0.30	0.000%
49	-7.63	-27.42	-4.29	7.63	27.42	4.29	0.000%
50	-4.67	-27.42	-7.28	4.67	27.42	7.28	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00007034
3	Yes	4	0.00000001	0.00003734
4	Yes	5	0.00000001	0.00008520
5	Yes	5	0.00000001	0.00003855
6	Yes	5	0.00000001	0.00006346
7	Yes	5	0.00000001	0.00002820
8	Yes	4	0.00000001	0.00032521
9	Yes	4	0.00000001	0.00020230
10	Yes	5	0.00000001	0.00007388
11	Yes	5	0.00000001	0.00003290
12	Yes	5	0.00000001	0.00007682

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13	Yes	5	0.00000001	0.00003432
14	Yes	4	0.00000001	0.00047785
15	Yes	4	0.00000001	0.00029967
16	Yes	5	0.00000001	0.00006422
17	Yes	5	0.00000001	0.00002862
18	Yes	5	0.00000001	0.00007321
19	Yes	5	0.00000001	0.00003280
20	Yes	4	0.00000001	0.00007449
21	Yes	4	0.00000001	0.00004069
22	Yes	5	0.00000001	0.00007227
23	Yes	5	0.00000001	0.00003206
24	Yes	5	0.00000001	0.00007779
25	Yes	5	0.00000001	0.00003470
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00026557
28	Yes	4	0.00000001	0.00028091
29	Yes	4	0.00000001	0.00028160
30	Yes	4	0.00000001	0.00027321
31	Yes	4	0.00000001	0.00028752
32	Yes	4	0.00000001	0.00028680
33	Yes	4	0.00000001	0.00027126
34	Yes	4	0.00000001	0.00028047
35	Yes	4	0.00000001	0.00028044
36	Yes	4	0.00000001	0.00026966
37	Yes	4	0.00000001	0.00028147
38	Yes	4	0.00000001	0.00028094
39	Yes	4	0.00000001	0.00001771
40	Yes	4	0.00000001	0.00009122
41	Yes	4	0.00000001	0.00005640
42	Yes	4	0.00000001	0.00002980
43	Yes	4	0.00000001	0.00006168
44	Yes	4	0.00000001	0.00006626
45	Yes	4	0.00000001	0.00004112
46	Yes	4	0.00000001	0.00005844
47	Yes	4	0.00000001	0.00006465
48	Yes	4	0.00000001	0.00001559
49	Yes	4	0.00000001	0.00005742
50	Yes	4	0.00000001	0.00006642

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	80 - 35	10.271	49	0.9957	0.0050
L2	40 - 0	2.863	49	0.6369	0.0045

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
76.00	40,000 SQ IN x Ka	49	9.418	0.9667	0.0050	22521
64.00	40,000 SQ IN x Ka	49	6.926	0.8755	0.0051	7037
52.00	30,000 SQ IN x Ka	49	4.680	0.7693	0.0050	4021
42.00	Andrew HP10	49	3.128	0.6613	0.0046	2991

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Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
34.00	Andrew HP6	49	2.165	0.5577	0.0041	3311
26.00	Andrew HP6	49	1.434	0.4401	0.0033	4329

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
L1	80 - 35	37.152	22	3.6042	0.0184
L2	40 - 0	10.358	22	2.3059	0.0163

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
76.00	40,000 SQ IN x Ka	22	34.066	3.4993	0.0185	6268
64.00	40,000 SQ IN x Ka	22	25.054	3.1695	0.0187	1957
52.00	30,000 SQ IN x Ka	22	16.929	2.7853	0.0182	1117
42.00	Andrew HP10	22	11.317	2.3941	0.0167	830
34.00	Andrew HP6	22	7.835	2.0194	0.0147	918
26.00	Andrew HP6	22	5.190	1.5934	0.0119	1199

Base Plate Design Data

Plate Thickness	Number of Anchor Bolts	Anchor Bolt Size	Actual Allowable Ratio Bolt Tension K	Actual Allowable Ratio Bolt Compression K	Actual Allowable Ratio Plate Stress ksi	Actual Allowable Ratio Stiffener Stress ksi	Controlling Condition	Ratio
in		in						
1.5000	16	1.5000	108.47	112.58	38.275	29.556	Bolt T	0.87
			124.25	206.26	45.000	45.000		✓
			0.87	0.55	0.85	0.66		

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Compression Checks

Pole Design Data

Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _n	Ratio P _u / φP _n
	ft		ft	ft		in ²	K	K	
L1	80 - 35 (1)	TP34.586x22x0.1875	45.00	80.00	81.9	19.6392	-24.28	612.81	0.040
L2	35 - 0 (2)	TP44.0001x32.8126x0.25	40.00	80.00	61.8	34.7157	-32.87	1440.21	0.023

Pole Bending Design Data

Section No.	Elevation	Size	M _{ux}	φM _{nx}	Ratio M _{ux} / φM _{nx}	M _{uy}	φM _{ny}	Ratio M _{uy} / φM _{ny}
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L1	80 - 35 (1)	TP34.586x22x0.1875	631.84	803.32	0.787	0.00	803.32	0.000
L2	35 - 0 (2)	TP44.0001x32.8126x0.25	1842.04	1888.36	0.975	0.00	1888.36	0.000

Pole Shear Design Data

Section No.	Elevation	Size	Actual V _u	φV _n	Ratio V _u / φV _n	Actual T _u	φT _n	Ratio T _u / φT _n
	ft		K	K		kip-ft	kip-ft	
L1	80 - 35 (1)	TP34.586x22x0.1875	27.63	590.62	0.047	0.00	1609.98	0.000
L2	35 - 0 (2)	TP44.0001x32.8126x0.25	31.45	1047.27	0.030	1.28	3784.60	0.000

Pole Interaction Design Data

Section No.	Elevation	Ratio P _u / φP _n	Ratio M _{ux} / φM _{nx}	Ratio M _{uy} / φM _{ny}	Ratio V _u / φV _n	Ratio T _u / φT _n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	ft								
L1	80 - 35 (1)	0.040	0.787	0.000	0.047	0.000	0.828	1.000	4.8.2 ✓
L2	35 - 0 (2)	0.023	0.975	0.000	0.030	0.000	0.999	1.000	4.8.2 ✓

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Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	80 - 35	Pole	TP34.586x22x0.1875	1	-24.28	612.81	82.8	Pass
L2	35 - 0	Pole	TP44.0001x32.8126x0.25	2	-32.87	1440.21	99.9	Pass
						Summary		
						Pole (L2)	99.9	Pass
						Base Plate	87.3	Pass
						RATING =	99.9	Pass

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Contract: 107430

Project: MAT FOUNDATION

Date and Time: 10/8/2020 1:56:27 PM

Revision:0

Site: WA-SPOKANE VALLEY-GREEN ACRES, WA

Engineer: CD/EH

MAT FOUNDATION

Design Standard: ANSI/TIA-222-G

Concrete Design per: ACI 318

Concrete (F'c): 4.50 (ksi)

Steel (Fy): 60.00 (ksi)

Rebars: American

Concrete Volume: 33.82 (yd³)

Water table: 99.00 (ft)

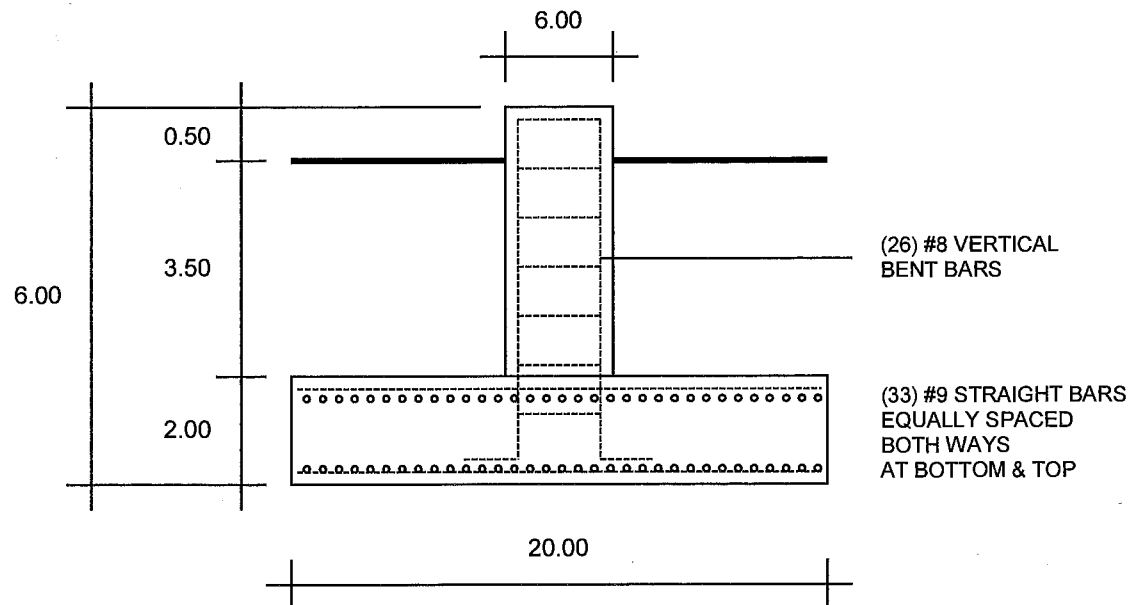
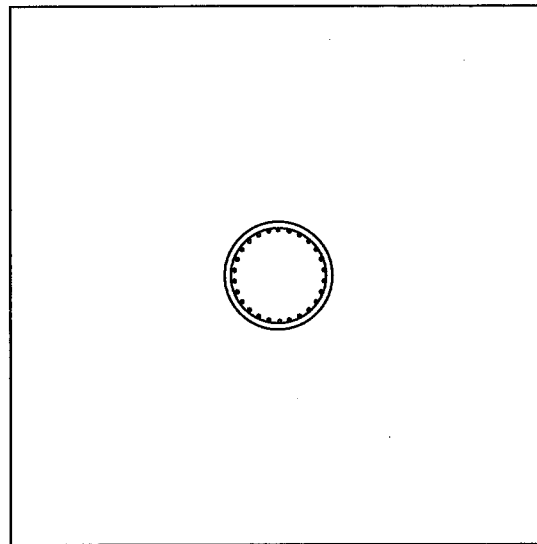
Frost Depth: 2.50 (ft)

Tower Reactions:

Download: 33.00 (Kips)

Moment: 1842.06 (Kipsft)

Shear: 31.00 (Kips)



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Contract: 107430

Revision: 0

Project: MAT FOUNDATION

Site: WA-SPOKANE VALLEY-GREEN ACRES, WA

Date and Time: 10/8/2020 1:51:43 PM

Engineer: CD/EH

MAT FOUNDATION ANALYSIS

ANALYSIS VALUES FOR CONCRETE AND STEEL:

Concrete Strength (F'c) : 4.50 (ksi)
 Steel Reinforcement Yield : 60.00 (ksi)
 Concrete Weight per Unit Volume : 140.06 (pcf)

SOIL PROPERTIES:

Layer #	Depth (ft)	Density (pcf)	Submerged Density (pcf)	Angle of Shearing Resistance	Allowable Net Bearing Pressure (psf)	Cohesion (psf)	Type of Soil
1	4.00	130.00	68.00	0.0	0.00	0.00	SAND
2	11.00	130.00	68.00	0.0	5000.00	0.00	SAND

Depth of water below grade : 99.00 (ft)

Footing Assumed to be Completely Un-Submerged

Frost Depth : 2.50 (ft)

Dead Weight Factor for Soil & Concrete : 0.90

Extension of Pier Above Grade : 0.50 (ft)

Footing Designed According to : ANSI/TIA-222-G

Rebars : American

LOADING FACTORED AS PER ANSI/TIA-222-G

DOWNLOAD SHEAR (Kips)	MOMENT (Kips)	MOMENT (Kipsft)	TOTAL LOADING
33.00	31.00	1842.06	Load Case 1 - Maximum Moment and matching Axial and Shear
42.00	5.00	316.01	Load Case 2 - Maximum Axial and matching Moment and Shear

ALLOWABLE SOIL BEARING PRESSURE (NET) : 5000.00 (psf)

ULTIMATE SOIL BEARING PRESSURE (SAFETY FACTOR = 1.33) : 6650.00 (psf)

FACTORED SOIL BEARING PRESSURE : 4987.50 (psf)

SUPERSTRUCTURE : MONOPOLE

PIER SIZE: 6.00 (ft) ROUND
 MAT WIDTH: 20.00 (ft)
 MAT THICKNESS: 2.00 (ft)
 MAT DEPTH BELOW GRADE: 5.50 (ft)
 Soil resists overturning from top of non-battered pad

MAX. NET BEARING PRESSURE: 3491.51 (psf) Load Case: 1

% BEARING = $100 * 3491.51 / 4987.50 = 70.01\%$

OVERTURNING MOMENT: 2028.06 (Kipsft) Load Case: 1

RESISTING MOMENT: 2920.49 (Kipsft) Load Case: 1

% OVERTURNING = $100 * 2028.06 / 2920.49 = 69.44\%$

PAD CAPACITY (ONE-WAY SHEAR): Vc = 479.66 (Kips) Vf = 170.36 (Kips) Load Case: 1

% ONE-WAY SHEAR = 35.52

PAD CAPACITY (TWO-WAY SHEAR): Vc = 1153.65 (Kips) Vf = 70.51 (Kips) Load Case: 2

% TWO-WAY SHEAR = 6.11

COLUMN CAPACITY

COLUMN REINFORCEMENT: 26-#8 PERCENTAGE: 0.50 %

MINIMUM REINFORCEMENT IN COMPRESSION REQUIRED BY CODE: 0.50 %

MAXIMUM DOWNLOAD: 49.57 (Kips) MAXIMUM MOMENT: 2940.89 (Kipsft)

APPLIED MOMENT AT TOP OF PAD = Mt + Shear * H = 1842.06 + 31.00 * 4.00 = 1966.06 (Kipsft)

% COLUMN REINF. = $100 * 1966.06 / 2940.89 = 66.85\%$

PAD RESISTANCE IN BENDING

BENDING MOMENT: 54.54 (Kipsft) PER 1 FOOT Load Case: 1

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Contract: 107430

Revision: 0

Project: MAT FOUNDATION

Site: WA-SPOKANE VALLEY-GREEN ACRES, WA

Date and Time: 10/8/2020 1:51:43 PM

Engineer: CD/EH

PAD REINFORCEMENT: 33-#9 Area of Steel: 32.99 (in^2)
 REQUIRED REINFORCEMENT: 32.63 (in^2)
 MINIMUM REINFORCEMENT: 10.37 (in^2)
 % MAT REINFORCING = $100 * 32.63 / 32.99 = 98.91\%$

MAXIMUM PERCENTAGE UTILIZED = 98.91%

DETAILS OF CALCULATION:

WEIGHT OF CONCRETE (Wc):	127.88 (Kips)	x 0.90	= 115.09 (Kips)
WEIGHT OF SOIL ON PAD (Ws):	169.12 (Kips)	x 0.90	= 152.21 (Kips)
WEIGHT OF WEDGE OF SOIL (Ws1):	0.00 (Kips)	x 0.75	= 0.00 (Kips)
WEIGHT OF 2 CORNER CONES OF SOIL (Ws2):	0.00 (Kips)	x 0.75	= 0.00 (Kips)
WEIGHT OF 2 SIDE WEDGES OF SOIL (Ws3):	0.00 (Kips)	x 0.75	= 0.00 (Kips)
DOWNLOAD FROM STRUCTURE			= 33.00 (Kips)

Note: For calculation of Overturning Moment the Download was divided by applied dead weight factor and then multiplied by factor of: 0.90

TOTAL VERTICAL FORCE (Pv): = 300.30 (Kips)

OVERTURNING MOMENT (Mov)

Mov = Moment from Tower + Shear x Height

Mov = 1842.06 + 186.00 = 2028.06 (Kipsft)

RESISTING MOMENT (Mres)

Mres = (Wc + Ws) x PadWidth / 2 + Ws1 x D1 + Ws2 x D2 + Ws3 x D3 + Download x (0.5 x PadWidth - Offset)

Distance from edge of pad to centre of gravity of wedge, D1 = 0.00 (ft)

Distance from edge of pad to centre of gravity of corner cones, D2 = 0.00 (ft)

Distance from edge of pad to centre of gravity of side wedges, D3 = 0.00 (ft)

Mres = (115.09 + 152.21) x 10.00 + 0.00 x 0.00 + 0.00 x 0.00 + 0.00 x 0.00 + 22.44 x (10.00 - 0.00)

Mres = 2897.39 (Kipsft)

COUNTERACTING MOMENT (Ms)

Ms = Ws1 x L1 + Ws2 x L2 + Ws3 x L3

Distance from centre of pad to centre of gravity of wedge, L1 = 0.00 (ft)

Distance from centre of pad to centre of gravity of corner cones, L2 = 0.00 (ft)

Distance from centre of pad to centre of gravity of side wedges, L3 = 0.00 (ft)

Ms = 0.00 x 0.00 + 0.00 x 0.00 + 0.00 x 0.00 = 0.00 (Kipsft)

Total Moment (Mt) = Moment from Tower + Shear x Height + Download x Offset - Ms

Total Moment (Mt) = 1842.06 + 186.00 + 0.00 - 0.00 = 2028.06 (Kipsft)

Eccentricity E = Mt / Pv = 2028.06 / 300.30 = 6.753 (ft)

Maximum pressure along diagonal axis

Ecc > PadWidth / (6 * SQRT(2))

Maximum Pressure = C2 x Pv / PadWidth^2

C2 = $134.7 * (Ecc / PadWidth)^3 - 45.1 * (Ecc / PadWidth)^2 + 13.9 * (Ecc / PadWidth) + 0.77$

C2 = $134.7 * (6.753 / 20.00)^3 - 45.1 * (6.753 / 20.00)^2 + 13.9 * (6.753 / 20.00) + 0.77$

C2 = 5.507

Maximum Pressure = 5.507 x 300.30 / 20.00^2

Maximum Gross Pressure = 4134.99 (psf)

Overburden Pressure = 643.48 (psf)

Maximum Net Pressure = 3491.51 (psf)

Maximum pressure along parallel axis

Ecc > PadWidth / 6

Maximum Pressure = [2 x Pv / (C3 x PadWidth)]

C3 = 3 x (PadWidth / 2 - Eccentricity) C3 = 3 x (10.00 / 2 - 6.753) = 9.740 (ft)

Maximum Pressure = [600.60 / (9.740 x 20.00)]

Maximum Gross Pressure = 3083.46 (psf)

Overburden Pressure = 643.48 (psf)

Maximum Net Pressure = 2439.98 (psf)

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Contract: 107430

Revision: 0

Project: MAT FOUNDATION

Site: WA-SPOKANE VALLEY-GREEN ACRES, WA

Date and Time: 10/8/2020 1:51:43 PM

Engineer: CD/EH

ONE-WAY SHEAR

d1 = Depth of Pad - Clear Cover - Bar Size
d1 = 24.000 - 3.000 - 1.130 = 19.870 (in)
Vc = 2 x Phi x SQRT(F'c) x PadWidth x d1
Vc = 2 x 0.75 x SQRT(4500.02) x 240.00 x 19.870 / 1000 = 479.66 (Kips)
Vf = (0.5 x P1 + P2 - P3) x Pad Width x Bw
Bw = Distance from edge of pad to face of column - d1
Bw = 10.000 - 3.000 - 1.656 = 5.344 (ft)
P1 - Triangular pressure at length of Bw = 1691.90 (psf)
P2 - Rectangular pressure at length of Bw = 1391.56 (psf)
P3 - Overburden pressure at length of Bw = 1391.56 (psf)
P1 + P2 = Maximum Gross Pressure
Vf = (845.95 + 1391.56 - 643.48) x 20.00 x 5.34 / 1000 = 170.36 (Kips)

TWO-WAY SHEAR

Vc shall be lesser of:
a) Vc = (2 + 40 x d1 / Bo) x Phi x SQRT(F'c) x Bo x d1
b) Vc = 4 x Phi x SQRT(F'c) x Bo x d1
Bo = PI x (PierSize + d1) = 288.62 (in)
a) Vc = (2 + 40 x 19.9 / 288.62) x 0.75 x SQRT(4500.02) x 288.62 x 19.87 / 1000
a) Vc = 1371.06 (Kips)
b) Vc = 4.0 x 0.75 x SQRT(4500.02) x 288.62 x 19.87 / 1000 = 1153.65 (Kips)
Note: Instead of calculating Vf as the pressure from Pad acting on area of pad minus
area below pier we will use maximum vertical force plus the pier weight (from top of pier
to the bottom of the pad) in dry condition with corresponding load factor.
Vf = 33.00 + 1.20 x 23.76 = 70.51 (Kips)

ANCHOR BOLT EMBEDMENT

Site: WA-Spokane Valley-Greenacres

JO # 107430

Date: 10/8/2020

Vertical Rebar Diam: 1 in.

Circular Tie Diam: 0.5 in.

Pier Diameter: 6 ft.

Side Cover: 3 in.

Top Cover: 3 in.

Bolt Circle Diam: 50 in.

Anchor Bolt Diam: 1.5 in.

Dist. Across Nut Flats 2.375 in. (for heavy hex nut)

Concrete Strength= 4500 psi

Rebar Grade F_y = 60000 psi

Ψ_t = 1 ACI 12.2.4a (1.0 for vertical splices)

Ψ_e = 1 ACI 12.2.4b (1.0 for uncoated or galv.-See ACI for epoxy coated)

Ψ_s = 1 ACI 12.2.4c (0.8 for #6 and smaller; 1.0 for #7 and larger)

λ = 1 ACI 12.2.4d (1.0 for normal weight concrete)

Bottom Template Thickness= 0.25 in

C-C distance between anchor bolt and vertical bar= 7 in.

Consider Req'd Lap length between rebar and anch bolt = L_d from ACI 12.2.2 (for #7 or larger)

L_d = 44.72136 in.

Min. Required Embedment Depth of Anchor Bolts = 56.47 in.

(L_d)+(Max dist between rebar & anch bolt)+(top cover)+(bott template thick.)+(bott nut thick.)

A_{brg} = 3.121016 in. (For 1.5 in. diameter anchor bolt based on hexagon nut area)

Available Pullout with Heavy Hex Nut = 112.3566 kips

USE 6' Lg A. Bolts

May 7, 2021

To:
Board of Adjustment
City of Moscow
206 E 3rd St
Moscow, Idaho 83843

From:
Jeff Lonneker
1022 E 8th St
Moscow, Idaho

Purpose:

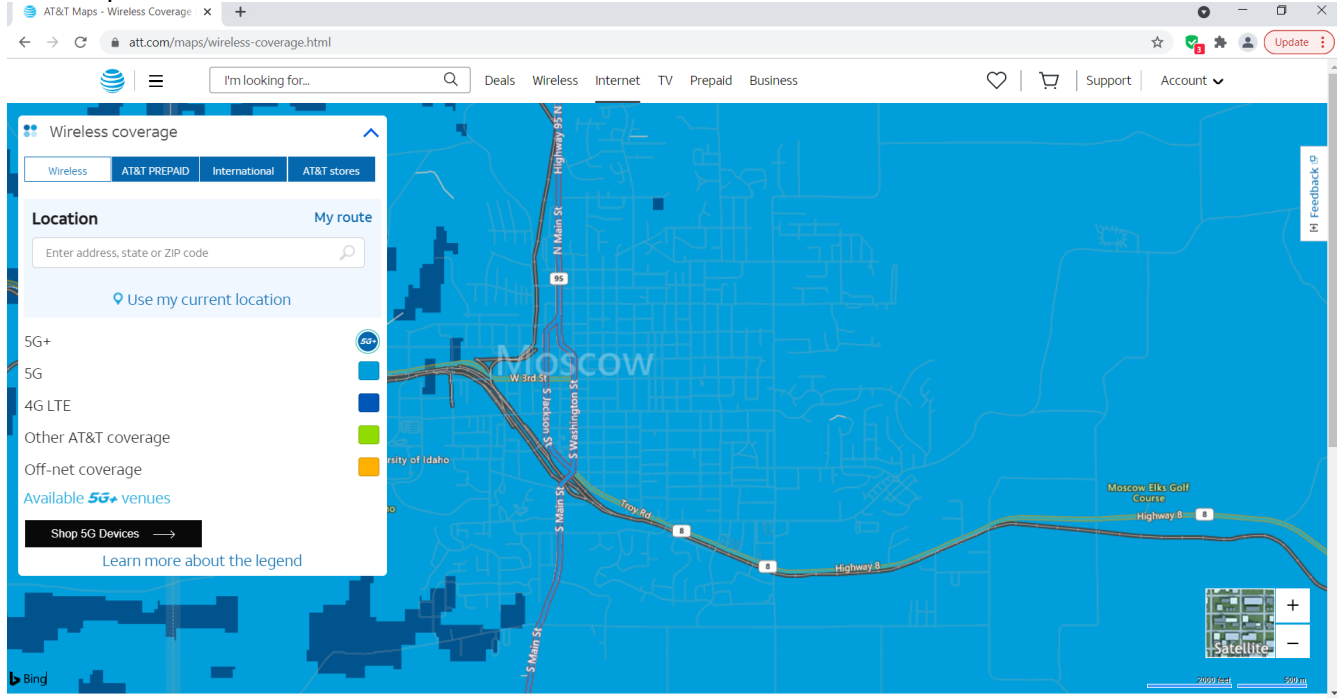
I oppose the building of this cell tower and request you deny (again) the conditional use permit LUP2021-004

Executive Bullet Points

- Using their own map, there is no need in this area.
- The proposed structure is even less harmonious than the fake tree.
- Nothing stealthy about proposed structure.
- Alternative – if it is going to be built, build on public land for tax revenue.

Statement of Need is invalid.

The map below was accessed on 5/7/2021



According to the ATT Wireless website, the entire town is sufficiently covered by their existing service, including 5G. There is nothing on the website to indicate these data are not fully representative of ATT coverage. Additionally, the applicant has provided no evidence to substantiate their claim that existing towers are at capacity. Having had ATT phones in the past, while anecdotal, we have always had strong service with no interruption to call/data needs.

Neighborhood harmony.

This structure will be clearly visible for miles and there is nothing stealthy about it. There is nothing subtle about a 20 foot cross on an 80 foot structure. Instead of welcoming, this will send a clear message to families of differing religious and cultural backgrounds.

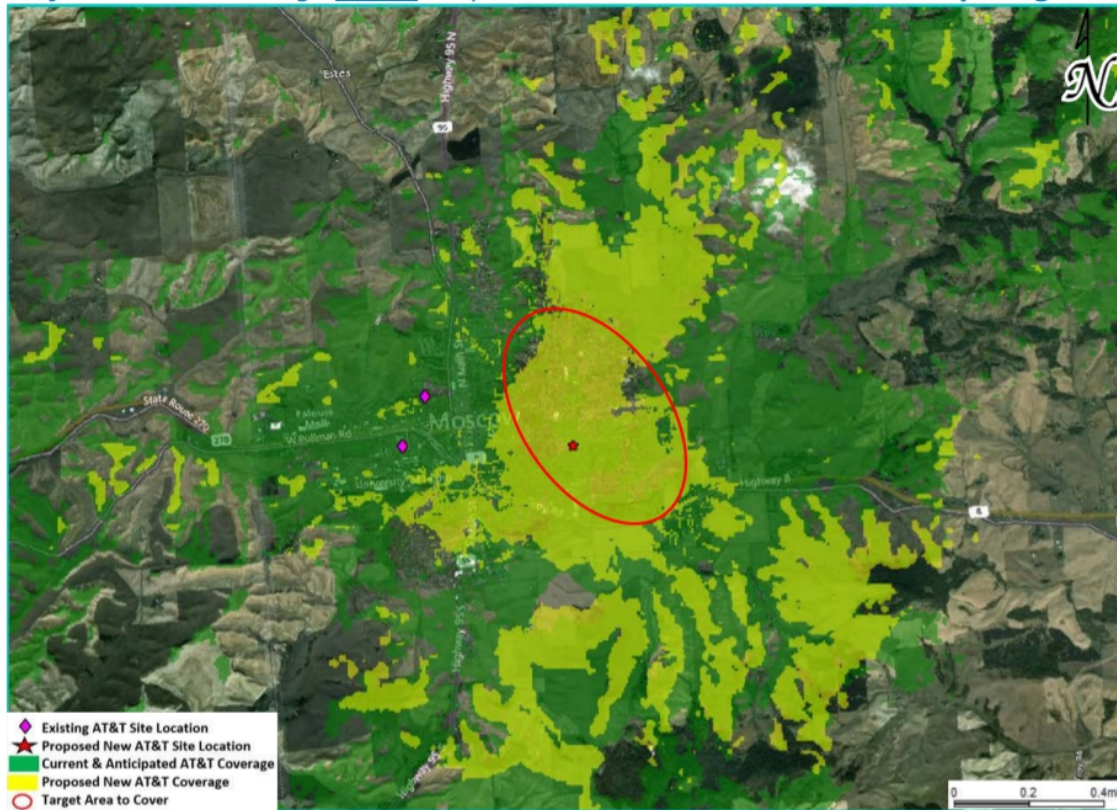
Using their own map and verbiage, the map below shows the additional service that will be added using 'line of site' technology. We can use their map as a viewshed map (the geographical area from which the

tower will be visible.) The proposed tower will be visible from areas in yellow.

Figure C.1—New AT&T 4G LTE Coverage

LUP2021-0004

Projected New Coverage AFTER Proposed WCF On-Air—75ft Antenna Tip Height



Received 02-19-2021

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The case for a dual conditional use permit application.

To build a structure in this neighborhood that reaches this height it requires a conditional use permit. Since there is nothing stealthy about this structure an additional conditional use permit should be required to build the encompassing structure.

Alternative – move off church property to public property.

It seems like this is going to happen, there has been a push to build this tower for years. If there is a need to end this discussion I would propose moving it off church owned lands onto public land where tax revenue can be collected. The city knows better than I as there are already agreements in place, the funds generated are not negligible.

There is an entire industry built around facilitating cell towers on lands owned by religious institutions. The motivation is multifaceted, the cell providers typically pay a lower amount to build/lease on these lands and the permitting process is much easier. In my opinion, this is the motivation behind the applicants conjecture that it 'needs' to be on this site. The maps and 'alternative' sites in the proposal are intentionally confusing and misrepresented. To be a true comparison, each site would need to be compared against the other.

From: gracegockarp@frontier.com
Sent: Monday, May 17, 2021 9:42 PM
To: Board of adjustment
Subject: Conditional use permit at 1400 E 7th St.

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: This message originated from outside the City of Moscow's network. Exercise caution when clicking links or opening attachments. If in doubt, please contact Information Systems at extension 7004.

I urge the Council and Board of Adjustment to deny the proposed Conditional Use Permit at 1400 E Seventh Street. This structure is not in keeping with zoning standards for this area nor does it have any purpose related to the church site. Regardless of the appeal of adjustment to size, the structure will be an eyesore, and cause potential harm to residents. Approving such an appeal will set an unnecessary precedent for other structures inappropriate for the zone. Please do not approve this permit.

Thank you for considering this request.

Grace Goc Karp.

Date: August 16, 2021

To: Board of Adjustment

From: Maury Wiese, 711 Park Drive, Moscow, ID



Re: Remand in Part of a Conditional Use Permit at 1400 E. Seventh Street in the City of Moscow, Permit Application LUP 2021-0017 (Proposed 80' Wireless Communication Facility)

I commend the Board of Adjustment and the City Council for initially finding this proposed cell tower incompatible with the adjoining residential area and denying the Conditional Use Permit.

Here I suggest and ask you to find that no modification of the width, footprint or exterior of this proposed conspicuous, intrusive, unnecessary, and potentially hazardous 80' cell tower will make it compatible with my residential neighborhood.

Please see my previous letters opposing this permit and structure.

RECEIVED

AUG 16 2021

City of Moscow

Jennifer Fleischman

From: Faris Paxton <faris.paxton@gmail.com>
Sent: Tuesday, August 17, 2021 10:20 AM
To: Jennifer Fleischman
Subject: Comments for Board Of Adjustments Meeting (8/24)

CAUTION: This message originated from outside the City of Moscow's network. Exercise caution when clicking links or opening attachments. If in doubt, please contact Information Systems at extension 7004.

Jennifer,

I was told I could send comments to you for the Board Of Adjustments members to review before the meeting next week. Thanks so much for handling this.

Faris Paxton
824 Park Dr.
Moscow, ID 83843

Board members,

This is the third time we are here revisiting the issue of the proposed cell tower for this same location. It has been decided twice by the board of adjustments and upheld twice by the City Council that a cell tower in this location does not meet the following criteria.

Criteria #2: THE CHARACTER OF THE PROPOSED USE WILL BE IN HARMONY WITH THE NEIGHBORHOOD AND SURROUNDING LAND USES.

While the second proposal attempted to create harmony in terms of looks, I would like us to consider that harmony with the neighborhood is not reflected in looks alone. Please consider not only the aesthetic harmony of the cell tower but also the functional harmony of how a neighborhood works. In fact, I would suggest to you all that the reason the criteria doesn't specify "physical harmony" is so that you can consider all the aspects of how this proposal will affect Moscow neighborhoods. There are a few places of business in this neighborhood where I live: Short's Funeral Home, a Dentist office, Moscow Family Eye Clinic to name a few. Each one of those have people that live and work within the community of Moscow that care about it. I can go into each one of those businesses and say "Hi, how are you doing? I have a concern about something affecting our neighborhood, would you be interested in helping out in some way." And I've seen that these places do take an active role in shaping the community. They care about it because they love this neighborhood and town.

But the tenants of the proposed cell tower do not live here. If I were to knock on the door of the cell tower, no one is going to answer. No one there is ever going to sign a petition. No one there is going to donate to my child's special needs school fund. No one there will ever care about the people in my neighborhood the way that the businesses do that are run by folks who live in the community. Here you have a chance to protect the community as it is. Affirming the proposed cell tower sets a bad precedent of breaking the harmony of our neighborhood and it violates criteria #2.

One statement that I've heard a few times in these deliberations is that "Well wherever we decide to put the cell tower, people will complain." And I want to urge you to consider what this really means. If everyone's complaint is that a cell tower doesn't fit the criteria of the harmony of the neighborhood and that's true, then the people's complaint is not the real problem. It's the criteria/law that is the issue. If the law doesn't allow it to be placed anywhere because of criteria #2, then the law should be changed - the criteria should be changed. Those who want to put up cell towers into

neighborhoods need to do the hard work of building a public consensus to remove criteria #2 from the books. Please put the onus, the responsibility, back on those who want to make a permanent change to our neighborhood - and refuse this cell tower.

Thank you for your service to our community and your time in reading the above.

Sincerely,
Faris Paxton
824 Park Dr.
Moscow, ID 83843

August 17, 2021

To the City of Moscow Board of Adjustment

Re: Petition to Deny Conditional Use Permit
Permit Application LUP2021-0017

Please find attached a Petition to Deny Conditional Use Permit for the construction of an 80' Wireless Communications Facility in the parking lot of the Nazarene Church, 1400 E. 7th Street.

This petition was circulated by Leslie Rios, 845 E. 7th Street, 208-669-1856, lesliesmallwoodrios@gmail.com, primarily on August 15, 2021, going door to door. Residents stated that they have no problems with their cell service and did not feel a tower in this location was necessary. Residents uniformly expressed concerns over the impact the tower would have on the aesthetics of their neighborhoods and parks.

RECEIVED

AUG 17 2021

City of Moscow

Petition to Deny Conditional Use Permit

Petition summary and background	This petition is directed to the City of Moscow Board of Adjustment, specifically in their consideration of the Permit Application LUP2021-0017 for a proposed 80' Wireless Communications Facility next to the Nazarene Church, 1400 E. 7th Street in Moscow. The Board of Adjustment previously denied the application to construct this Wireless Communications Tower, citing concerns about the tower's location being inappropriate and intrusive in a predominantly residential neighborhood. The proposed location of the 80' tower is 3 blocks from Lena Whitmore Elementary School, one block from Carol Ryrie Brink Park, one block from the Moscow School District ballfields, and in the center of an established residential neighborhood. The proposed location is on flat terrain, at the base of the 7th Street hill, rather than at an elevation that would more effectively provide coverage that the applicant states is needed on the east side of Moscow.
Action petitioned for	We, the undersigned, are concerned citizens residing in the neighborhoods that will be impacted by the construction of an 80' Wireless Communications Tower in the parking lot of the Nazarene Church. We strongly urge the Board of Adjustment to deny this Conditional Use Permit, again, and to protect the integrity and aesthetics of our residential neighborhoods, as well as the health and well-being of all our neighbors.

Printed Name	Signature	Address	Comment	Date
Leslie Rios	<i>Leslie Rios</i>	845 E. 7th St., Moscow		8/15/21
David R Moore	<i>David R Moore</i>	845 E 7th St Moscow ID		8-15-21
GRACE GOC KARP	<i>Grace Goc Karp</i>	857 E 7th St. Moscow, ID		8-15-21
FRANK KARP	<i>Frank Karp</i>	857 E. 7th St Moscow, ID		8/15/21
Maggie Rehm	<i>Maggie Rehm</i>	863 E 7th St Moscow ID		8/15/21
Rajal Cohen	<i>Rajal Cohen</i>	863 E 7th St Moscow		8-15-21
WOLF BRULLEY	<i>Wolf Brulley</i>	817 E 7th St Moscow		8/15/21
Dana Brulley	<i>Dana Brulley</i>	817 E 7th St Moscow		8/15/21
Reed Lewis	<i>Reed Lewis</i>	824 E. 7th		8/15/21
KAREN LEWIS	<i>Karen Lewis</i>	824 E. 7th		8/15/21

Printed Name	Signature	Address	Comment	Date
Sue Eschen	<i>Sue Eschen</i>	917 E 7th St, Moscow		8/15/21
Mark Warner	<i>Mark Warner</i>	553 E 7th St Moscow		5/15/21
Gloria Duhon	<i>Gloria Duhon</i>	1003 E 7th "		8/15/21
Michael Kyte	<i>Michael Kyte</i>	1009 E. 7th "		8/15/21
Marti Ford	<i>Marti Ford</i>	1009 E. 7th "		8/15/21
Kelly Strawn	<i>Kelly Strawn</i>	1017 E 7th St		8-15-21
Robert Thomas	<i>Robert Thomas</i>	1103 E 7th St		8-15-21
Linda Morris	<i>Linda Morris</i>	1103 E 7th St		8/15/21
MAURICE WIESE	<i>MV Wiese</i>	711 Park Dr.		8/15/21
Suzanne J. Wiese	<i>Suzanne J. Wiese</i>	711 Park Drive		8/15/21
Samuel Patten	<i>Samuel Patten</i>	721 Park Dr.		8/15/21
Judy Herrick	<i>Judy Herrick</i>	1119 Kamaken Moscow		8/15/21
Gerard Billington	<i>Gerard Billington</i>	1125 Kamaken Moscow		8/15/21
Jessie Campbell	<i>Jessie Campbell</i>	1205 Kamaken ^{Moscow}	Very inappropriate location	8/15/21
Marie Smith	<i>Marie Smith</i>	915 Park Dr - Moscow		8-15-21
Lesley Smith	<i>Lesley Smith</i>	915 Park Ave. Moscow		8-15-21
Merilee Paxton	<i>Merilee Paxton</i>	824 Park Blvd Dr. Moscow		8-15-21

Print NAME	signature	Address	Comment	Date
Tris Paxton	Tris Paxton	824 Park Dr. Moscow		8/15/21
Roberta Lewis	Roberta Lewis	802 Park Dr. Moscow		8/15/21
Gerald Lewis	Gerald Lewis	802 Park Dr. Moscow		8/15/21
SUZANNE ANDERSON	Suzanne Anderson	716 PARK DR MOSCOW		8/15/21
Denise L. Jain	Denise L. Jain	1205 E 7 th Moscow		8-15-21
Agnes E Jain	Agnes E Jain	1205 E 7 th Moscow	We don't need it!	8-15-21
Lynelle Rainer	Lynelle Rainer	705 Camas St. Moscow	We have great comm communication service - seems like it's better	8/15/21
Kyle Rainer	Kyle Rainer	705 Camas St.		8/15/21
Kathleen Watson	Kathleen Watson	1213 E 7 th St	No	8/15/21
SUZANNE SCRIPPER	Suzanne Scripper	1122 E 7 th St	No Way!!	8/15/21
MICHAEL HASLWANTER	Michael Haslwant	1110 E 7 th St.		8/15/2021
Chris L. Baldwin	Christina Baldwin	1150 E 7 th St.	Put somewhere else	8/15/2021
Shane Kellom	Shane Kellom	1108 E. 7 th	NO WAY!	8/15/2021
HARRIET HUGHES	Harriet L. Hughes	831 E. 7 th	Please No!	8/15/2021
JOHN K. FELLMAN	John K. Fellman	831 E. 7 th	unnecessary expense move it to the ELKS GC.	15 AUG 2021
43 Angela Schweigert	Angela Schweigert	816 Apple Lane	inappropriate location!	8/16/21

Printed Name	Signature	Address	Comment	Date
Pamela Brunfeld	Pamela Brunfeld	767 S. Hayes St		8/17/21
James P Higgins	Jim P Higgins	707 S Hayes St		8/17/21
John Sweeney	John Sweeney	850 E 8th St		8/17/21
Rogel Hayes	Rogel Hayes	816 Apple Ln.		8/17/21
Sarah Koerber	Sarah Koerber	804 Apple Lane		8/17/21
Sean Tobey	LT	1020 E 7th St		8/17/21
McGeorge Strong	Marianna Strong	1404 6th St		8/17/21
Carol M. Clark	Carol M. Clark	1403 East 6 th St.		8/17/21
Sudni Lewis	Sudni Lewis	509 Grant Ct.		8/17/21
Walter Hestford	Walter Hestford	1117 E. 6th St		8/17/21
Elinor Michael	Elinor Michael	1117 E. 6th St.		8/17/21
Jolic Fodor	Jolic Fodor	1109 E. 6th St.		8/17/21
Jim Heidelberg	Jim Heidelberg	1109 E 6th		8/17/21

17 August 2021

Board of Adjustment
City of Moscow
City Hall
206 E Third Street
Moscow, Idaho 83843

I am writing to oppose the Conditional Use Permit at 1400 E Seventh Street in the City of Moscow, Permit Application LUP2021-0017, submitted to the City of Moscow by the Parallel Infrastructure Tower Development LLC (Proposed 80' Wireless Communication Facility at 1400 E. Seventh Street) on 29 July 2021.

I live at and own the home, jointly with my wife, at 1009 E. 7th Street in Moscow, one block from the proposed wireless tower.

I testified in opposition to the proposed cell tower at the Board of Adjustment hearing in November 2018. I also submitted written testimony opposing the cell tower to the Board of Adjustment for its hearing to reconsider the request in April 2021.

I continue to oppose the cell tower based on my review of the documents submitted to the city on 29 July 2021, noting the following:

- No changes were made by the applicant subsequent to the city council meeting earlier this year.
- The applicant was unable to reduce the footprint of the proposed tower, nor was it able to reduce the 80 foot height of the tower.
- The Nazarene Church would not consider moving the tower closer to its main church property.
- The proposed height of the tower is 15 feet higher than the highest point of the cross on the church steeple, making it especially intrusive to the surrounding neighborhood.
- Cloaking the tower inside of a faux tree or inside a structure with a cross does nothing to hide the fact that the tower would become the predominant view from any location in our neighborhood, including from Triangle Park.

If you, members of the Board, have not yet done so, I encourage you to visit the site to get a first-hand perspective of how intrusive this structure would be.

I encourage the Board of Adjustment to again deny the conditional use permit.

Michael Kyte
1009 E. 7th Street
Moscow, Idaho 83843

17 August 2021

Board of Adjustment
City of Moscow
City Hall
206 E Third Street
Moscow, Idaho 83843

I am writing in opposition to the conditional use permit for the cell tower. I own the house at 1009 E. 7th St. with my husband. I applaud the previous actions of the Board of Adjustment and the City Council to deny the applications and appeal from 2018 and the earlier 2021 denial by the Board.

In their March 2021 testimony to the Board of Adjustment, our neighbors Maury Wiese and Gary Saunders both commented on the “conspicuous” absence of a before-and-after simulated view of the proposed structure taken from the southwest. A view from that angle was provided by the applicants for the 2018 monopole pine and is on pages 36 and 37 of the 2018 packet. I’ve included screen captures on the next page.

Please note:

- The 2021 proposed tower is to be located at the same spot as the 2018 proposed tower shown from this neighborhood view.
- I’ve added the arrow to indicate the dome and the cross. As pointed out by Gary Saunders in his March testimony, the dome and cross are barely noticeable from the street.
- The tower is “only” about 30 feet higher than the top of the dome and 15 feet higher than the top of the cross, but it is about 160 feet closer to Park St. and about 25 feet closer to E. 7th St.

Whether the structure is an unlikely pine tree or an even unlikelier bulky, rectangular, looming structure, it is clear that, from the Eastgate neighborhood, this structure would be out of place and out of character. I encourage you to again deny the conditional use permit.

Sincerely,
Martha Ford

LUP018-0023



ID MOSCOW RESIDENTIAL
EXISTING SOUTHWEST ELEVATION



LUP018-0023



ID MOSCOW RESIDENTIAL
PROPOSED SOUTHWEST ELEVATION



LUP018-0023



ID MOSCOW RESIDENTIAL
EXISTING SOUTHWEST ELEVATION



LUP018-0023



ID MOSCOW RESIDENTIAL
PROPOSED SOUTHWEST ELEVATION



NOTICE OF PUBLIC MEETING

Appeal of the Denial for a Conditional Use Permit at 1400 E. Seventh Street
Permit Application LUP2021-00017

A public meeting at which you may be present will be conducted before the City Council of the City of Moscow at which time the following proposal will be considered:

Appeal of a Conditional Use Permit application for a proposed 80-foot-tall Wireless Communication Facility (WCF) intended to resemble a church tower that was denied by the Board of Adjustment on March 29, 2021.

The Council shall not act on an appeal which differs materially from that which was considered by the Board of Adjustment. When considering the merits of an appeal, no additional public testimony or information shall be taken or considered by the Council.

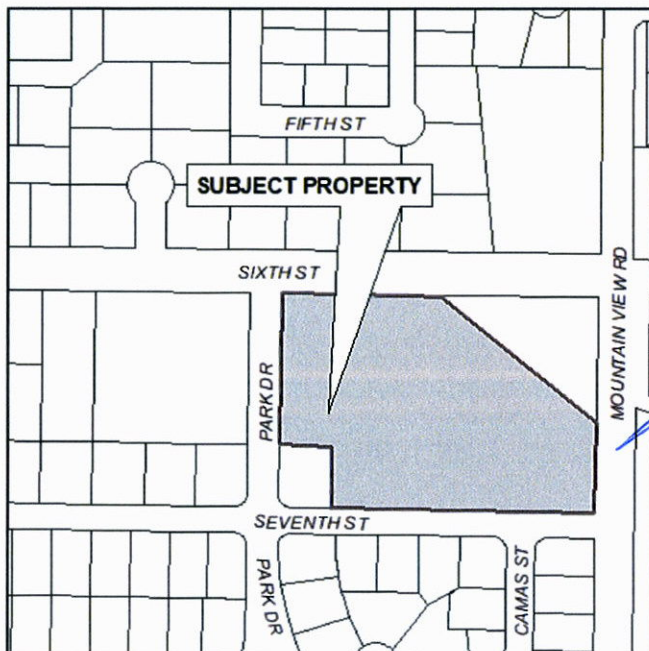
HEARING DATE: Monday, May 3rd, 2021

HEARING LOCATION: Council Chambers on the Second Floor of Moscow City Hall
206 East Third Street, Moscow, Idaho

MEETING TIME: 7:00pm

Note: Meeting start time is not necessarily indicative of hearing start time for the proposal advertised in this notice. Multiple hearings and/or agenda items may make it difficult to determine hearing start time, which could occur late in the meeting.

The file containing information on this matter is available for public review at the Community Planning & Design Department located in the, Paul Mann Building at 221 East Second Street, Moscow, Idaho. Call 883-7035 to get a meeting agenda and further information about the matter. You may obtain further information about the public hearing process and procedures on the City's Website at: <https://www.ci.moscow.id.us/593/Public-Hearing-Notices>



Laurie Hopkins,
Moscow City Clerk


Jennifer Fleischman, Deputy City Clerk

Publish: Saturday, April 24, 2021



RECEIVED

APR 16 2021

City of Moscow

VIA EMAIL AND OVERNIGHT DELIVERY

April 14, 2021

City Clerk
City of Moscow
206 E. 3rd St.
Moscow, ID 83843

Re: Appeal of LUP2021-0004

To the Moscow City Council:

Parallel Infrastructure ("**Applicant**") appeals the Moscow Board of Adjustment's ("**Board**") Reasoned Statement of Relevant Criteria and Standards for the above noted matter, dated April 7, 2021 ("**Decision**"), in which the Board denies Applicant's request for a Conditional Use Permit ("**CUP**") for an eighty-foot (80') wireless telecommunications facility ("**WCF**") camouflaged as a church bell tower.

Pursuant to Moscow City Code ("**MCC**") 4-8-5(B)(2), Applicant respectfully requests the Council to reverse the Decision in whole because it is not founded upon facts in the record or sound reason and practical application of recognized principles of law.

Basis for Appeal

1. The single basis for the Board's denial of Applicant's WCF Conditional Use Permit is that "... the proposed WCF is not consistent with the existing character of the uses within the surrounding neighborhood." In reaching this conclusion, the Board stated that the cell tower looked out of place and will not be in harmony with land uses surrounding the subject property, including the Church of the Nazarene. The Board noted that surrounding neighborhood is primarily residential with few commercial uses nearby. The Board noted that scale of the proposed tower is significantly larger than other structures or trees in the surrounding area. The Decision also mentions four individuals expressed concern regarding the scale of the proposed WCF, noise, and other aesthetic concerns." (Relevant Criteria and Standards, Paragraph 2).

April 14, 2021

Page 2

The Board's denial is not supported by the MCC, Comprehensive Plan, state statutes or the evidence in the record. Accordingly, the Board's decision should be reversed in whole.

The Board cited the following factors in support of the above finding on Relevant Criterion 2:

1. The cell tower looked out of place and will not be in harmony with land uses surrounding the subject property, including the Church of the Nazarene.
2. The surrounding neighborhood is primarily residential with few commercial uses nearby.
3. The scale of the proposed tower is significantly larger than other structures or trees in the surrounding area.
4. Public testimony was received by 5 individuals, one (1) individual that was neutral to proposal, commenting that in his opinion 4G was better than 5G. Four (4) individuals testified that the proposed WCF is not consistent with the existing character of the uses of the surrounding neighborhood. These individuals expressed concern regarding the scale of the proposed WCF, noise, and other aesthetic concerns.
5. Lack of in-person testimony in support for the tower CUP from AT&T customers.

It is important to note that the Board also found that Applicant's proposed WCF met *all* of the regulations and development standards in MCC 4-3-5(H), Telecommunications Facilities, which includes regulations and standards for noise and aesthetics. Additionally, the Board found that Applicant's proposed WCF met *all* of the other six criteria for approval of a conditional use permit under MCC 4-8-4(B), Conditional Uses.

First, the Board's finding that the proposed bell tower structure is not in harmony with the surrounding uses, including the Church of the Nazarene is not supported by adequate evidence in the record. The drawings and photosimulations submitted by the Applicant show the bell tower structure was designed to reflect and compliment the design of the church, with a topper similar to that one on the church and materials and colors consistent with the existing church. A bell tower is a common feature on church properties and the proposed wireless facility, designed as a bell tower, is not out of place on this church property. One Board member stated that the bell tower design was much closer to what they had in mind than the monopine previously proposed.

Second, the Board's finding that the neighborhood is primarily residential with few commercial uses nearby is not relevant to the applicable code criteria for WCF. Pursuant to MCC 4-3-4, WCF are considered a Public/Institutional Use and are a conditionally permitted use in the NB zone. Additionally, the WCF meets all required setback requirements from neighboring uses. The Board's findings regarding the lack of neighboring commercial uses is in error and should be reversed.

Third, the Board's finding concerning the scale of the proposed facility is subjective and not supported by the record. The height of the proposed wireless communications facility is generally consistent with the height of surrounding structures and trees. The roof of the Church is fifty-feet (50) tall and has substantially greater volume than the proposed bell tower. One Board member noted that the height of the cross on the existing church is approximately sixty-six (66) feet, which is not out of scale with a 80 foot bell tower.

It is important to note that the MCC allows an eighty-foot (80') tall telecommunications facility in the NB Zone as a conditional use. The MCC does not place any restrictions on the height of telecommunications facilities when they are located adjacent to R-3 Zones; the MCC only restricts the height of conditional uses when they are near Highways 95 or 8. The City Council, in its legislative capacity when it adopted the code, agreed that a WCF is a permitted use and that 80 feet is the allowable height in all zones. Had the Council wished to require a lower height in some zones, it certainly could have, just as it restricted the height of WCF's adjacent to Highways 95 or 8. It would therefore be inconsistent with the the City's expressed intent in the MCC to allow the Board to deny Applicant's CUP application for a WCF within the code's permitted height. The Board's findings concerning the scale of the WCF are in error and should be reversed.

Fourth, the Board cited four citizens' concerns about noise and aesthetics as factors in its denial. However, the Decision expressly found in Relevant Criteria and Standards paragraphs 3 and 9, that the proposed use meets the noise reduction and aesthetic requirements of the Zoning Code and that the design of the antenna tower, including the antennas and ancillary facilities, minimizes visual impact and otherwise complies with provisions and intent of the Code. The staff report specifically noted "If noise becomes a problem, then a decibel reading will be taken at the property line and Staff will take corrective action if the reading is too high." The Board's reliance on the generalized complaints of four individuals is inconsistent with its own findings in Relevant Criteria and Standards, Paragraphs 3 and 9, and inconsistent with the uncontroverted evidence in the record affirming the proposal's compliance with noise standards and that the facility is the minimum height necessary to meet the AT&T coverage and capacity objectives, while providing enough height to host two additional carriers on that same tower. See Applicant's RF Justification, Narrative and Statement of Code Compliance. In view of the foregoing, the Board's reliance on generalized citizen concerns about noise and aesthetics is inconsistent with Relevant Criteria and Standards 3 and 9. This constitutes error and should be reversed.

Finally, one board member cited the lack of AT&T customer testimony at the hearing in support of the tower CUP. Because AT&T will be a tenant and is not the primary applicant, the AT&T customers in Moscow have had no notice that the new tower would improve their service. There is no code requirement to demonstrate customer support for

April 14, 2021
Page 4

a new tower. The Board erred in considering this as a basis for denial and should be reversed.

Pursuant to the record considered by the Board and all of the above, Applicant respectfully requests the City Council to reverse the Board's Decision and approve Applicant's CUP. In the alternative, to the extent allowed by the MCC, if the City Council determines to remand this matter to the Board to gather additional information, the Applicant is amenable to this process.

Thank you for considering this Appeal.

Sincerely,

A handwritten signature in blue ink, consisting of several overlapping loops and a long horizontal stroke at the bottom.

Kim Allen, Wireless Policy Group LLC for Appellant Parallel Infrastructure

**BEFORE THE BOARD OF ADJUSTMENT
OF THE CITY OF MOSCOW,
COUNTY OF LATAH,
STATE OF IDAHO**

REASONED STATEMENT OF RELEVANT CRITERIA AND STANDARDS

**REASONED STATEMENT OF RELEVANT CRITERIA AND STANDARDS
REGARDING A CONDITIONAL USE PERMIT APPLICATION FOR A WIRELESS
COMMUNICATION FACILITY LOCATED AT 1400 EAST SEVENTH STREET IN THE
CITY OF MOSCOW, IDAHO, WITHIN THE NEIGHBORHOOD BUSINESS (NB)
ZONING DISTRICT PER MCC 4-3-4.**

WHEREAS, the applicant filed an application for a Conditional Use Permit on February 19, 2021;
and

WHEREAS, this matter came before the Moscow Board of Adjustment during a duly noticed
public hearing on March 29, 2021; and

WHEREAS, having reviewed the application, including all exhibits entered, having listened to the
testimony presented at the public hearing, and having considered the issues presented:

**THE MOSCOW BOARD OF ADJUSTMENT OF THE CITY OF MOSCOW, IDAHO,
AFTER DUE DELIBERATION AND CONSIDERATION, HEREBY CONCLUDES:**

I. RELEVANT FACTS AND CONCLUSIONS

1. The Board of Adjustment considered the request pursuant to the City of Moscow Zoning Code, Comprehensive Plan, State Statutes, U.S. Constitution, and Moscow City Code.
2. The applicant Parallel Infrastructure proposed an eighty-foot (80') Wireless Communication Facility (WCF) located at 1400 E 7th Street, Moscow, Idaho. The proposed tower is designed to resemble a church tower.
3. On July 30th of 2018, Pro Land LLC applied for a Conditional Use Permit to construct an 80-foot-tall Wireless Telecommunications Facility at 1400 E 7th Street, Moscow, Idaho. The application proposed that the facility would be located on the property of the Church of the Nazarene and would accommodate three carriers within a fully enclosed 800 square foot lease area. The facility design in this application was a stealth-style mono-pine tower intended to resemble a tree.
4. The matter came before the Board of Adjustment on November 18th, 2018. The Board of Adjustment denied the application finding that the proposed WCF was not consistent with the existing character of the neighborhood and would not be in harmony with land uses surrounding the subject property. The Board found that the scale of the proposed tower is significantly larger than other structures or trees in the surrounding area.
5. On November 27th, 2018, Busch Law Firm PLLC filed an appeal on behalf of the applicant.

6. On January 7th, 2019, City Council reviewed the appeal during a regularly scheduled meeting and sustained the decision to deny the application.
7. The subject property sits on the southwest corner of the 231,678 square foot block, which is owned entirely by the Church of the Nazarene. The proposed site is a 20-foot by 40-foot enclosure that contains the proposed WCF and all ancillary uses.
8. The subject property is located within the Neighborhood Business (NB) Zoning District, which requires a Conditional Use Permit (CUP) for Antenna Towers per MCC 4-3-4.
9. Adjacent properties to the north and south are located within Medium Density Residential Zoning District (R-3). Adjacent properties to the west and east are located in the Neighborhood Business (NB) Zoning District.
10. The area surrounding the proposed WCF is primarily residential. There are two businesses nearby including Short's Funeral Chapel to the west and Pickard Orthodontics to the north. The two community parks nearby include Carol Ryrie Brink Park and Triangle Park, both to the south. Adjacent residential uses sit to the north and south the proposed WCF. Residential structures in the surrounding area vary between approximately twenty feet (20') to thirty (30') in height.
11. The Neighborhood Business Zoning District is the lowest intensity commercial Zoning District permitted within the City. It is intended to apply to areas of less than two (2) acres, where commercial services may be provided in convenient locations serving adjoining residential neighborhood rather than the community as a whole. The commercial services permitted are those where traffic generation, access requirements, impacts of lighting, neighborhood need for services, and noise production will be compatible with residential uses. The NB Zoning District is appropriately applied in the following circumstances:
 - a. Where local commercial facilities will serve the everyday needs of a limited neighborhood area;
 - b. Where activity levels associated with small scale office development can be accommodated or tolerated by surrounding land uses and existing public services;
 - c. Where a neighborhood core is identified which is easily accessible by pedestrian or vehicular circulation; and
 - d. Where such commercial development will result in minimal interference with residential uses in the vicinity of the NB Zoning District.
12. Chapter 2 of the 2019 Comprehensive Plan, Community Character and Land Use, designates the subject property as Public and Semi-Public.
13. According to the Comprehensive Plan, Public and Semi-Public designated areas, "provide for government buildings and properties, as well as semi-public or institutional uses such as churches, schools, and the hospital."
14. The Zoning Code has specific use standards for Telecommunications Facilities within MCC 4-3-5(H).
15. Telecommunications Facilities that exceed sixty feet (60') are not permitted within five hundred feet (500') of US Highway 95 and/or State Highway 8 right-of-way. The proposed facility is over 3,400 feet north of the State Highway 8 right-of-way.

16. Telecommunications Facilities must be protected from unauthorized access by appropriate security measures. The site is proposed to be enclosed by a six foot (6') high masonry wall and the ancillary facilities are fully enclosed within the proposed site.
17. Every antenna and antenna tower must not be lighted unless required by the Federal Aviation Administration and other state or federal agency having such authority, and such lighting must not be more than the minimum required by such agency. Submitted plans do not show any lighting on the proposed tower.
18. Antenna towers are required to be separated from the property line of any adjacent property residentially zoned at least a distance equal to the height of the antenna tower, and must be separated from all other adjacent property lines at least a distance equal to one-half (1/2) the height of the antenna tower.
19. The church campus is made up of 11 parcels including a residential home owned by the Church of the Nazarene, adjacent to the south of the proposed WCF.
20. The proposed WCF is located approximately 5,100 feet from properties zoned SR, 1,300 feet from properties zoned R-1, 190 feet from properties zoned R-2, 100 feet from properties zoned R-3 (not including the church owned residential property), and 600 feet from properties zoned R-4.
21. The closest residential structures sit 120 feet to the west, 190 feet to the south, 360 feet to the north, and 675 feet east of the proposed WCF.
22. While the height of the dome on the Church of the Nazarene stands approximately fifty feet (50') tall, the existing cross at the top of the church stands sixty-six feet (66') tall. The residential properties in the vicinity generally do not exceed thirty feet (30'). Nearby trees reach approximately sixty feet (60') in height.
23. Maximum height in Neighborhood Business (NB) Zoning District is forty (40') feet. Non-residential structures in excess of forty (40') feet require a Conditional Use Permit.
24. Public testimony in opposition of the proposed WCF was heard from a total of 5 individuals. Concerns included sound from the proposed weekly generator testing, height of the structure, and no need for additional cell phone coverage.

BASED ON THE ABOVE RELEVANT FACTS AND CONCLUSIONS, THE BOARD OF ADJUSTMENT OF THE CITY OF MOSCOW HEREBY FINDS THE FOLLOWING RELEVANT CRITERIA AND STANDARDS:

II. RELEVANT CRITERIA AND STANDARDS

1. **The proposed use is a conditionally permitted use within the Zoning District:** All Wireless Communication Facilities are conditionally permitted per MCC 4-3-4.
2. **The character of the proposed use will be in harmony with the neighborhood and surrounding land uses:** The Board found that the proposed WCF is not consistent with the existing character of the uses within the surrounding neighborhood. Additionally, the Board found that the cell tower looked out of place and will not be in harmony with land uses surrounding the subject property, including the Nazarene Church. The surrounding

neighborhood is primarily residential with few commercial uses nearby. The scale of the proposed tower is significantly larger than other structures or trees in the surrounding area. Public testimony was received by 5 individuals, one (1) individual that was neutral to proposal, commenting that in his opinion 4G was better than 5G. Four (4) individuals testified that the proposed WCF is not consistent with the existing character of the uses of the surrounding neighborhood. These individuals expressed concern regarding the scale of the proposed WCF, noise, and other aesthetic concerns.

3. **The proposed use as approved, or as approved with conditions, will not generate nuisances that would be injurious or detrimental to the adjoining properties or the neighborhood (including, but not limited to, noise, dust, glare, vibrations, odors, and the like):** The proposed use would not generate nuisances to the adjoining properties or the neighborhood through noise, dust, glare, vibrations, or odors. All ground equipment would be fully screened with existing landscaping and a six foot (6') tall wall constructed of brick, stone, or textured concrete block. The proposed diesel generators would be double contained and would be used in the event of a power outage. Each generator would run once a week for approximately one hour for maintenance.
4. **The location, design, and size of the proposed use will be adequately served by existing streets, public facilities and services:** The proposed WCF is located on a parcel that has access on all four sides of the Church of the Nazarene campus. Public services proposed are power and telephone and are existing.
5. **The proposed use will not endanger the public health or safety if located where proposed:** The proposed use would not endanger the public health or safety on the proposed site.
6. **The proposed use meets all applicable development standards of the Zoning Code:** The proposed use meets all applicable development standards of the zoning code and Telecommunications Facility Standards that are required by this code for setbacks, security, lighting, noise reduction, signage, separation from adjacent residential zoning districts, and aesthetic considerations.
7. **The proposed use will not be in conflict with the Comprehensive Plan:** The use is consistent with the Comprehensive Plan as it supports the goals and strategies of multiple chapters and does not conflict with other sections of the Plan.
8. **No existing antenna towers or antenna support structures within the necessary geographic area for the applicant's antenna tower meet the applicant's requirements considering: a) height, b) structural integrity, or c) that there are other prohibitive conditions that render existing antenna towers or antenna support structure within the applicant's required geographic area unsuitable.** The applicant conducted a search of all FCC regulated towers within the necessary geographic areas to accommodate for the proposed WCF's requirements and did not find any existing antenna towers or antenna support structures to meet their needs. This determination was based on required height, structural integrity, and other prohibitive measures that render the existing antenna towers or support structure undesirable. The applicant provided a site analysis of four other sites. The locations of the site analysis included the water tower located on Hathaway Street, 8th Street water tower, Carol Ryrie Brink Park and East Side Market Place. The Board found that there were alternate sites locations that could have been explored as options for the proposed WCF.

9. **The design of the antenna tower, including the antennas and ancillary facilities, minimizes visual impact and other complies with provisions and intent of this Section.**

The proposed WCF is designed to resemble a church tower in order to minimize visual impact to the surrounding area. Ancillary facilities are contained within the proposed 20-foot by 40-foot site and surrounded by a six foot (6') tall wall constructed of brick, stone, or textured concrete block surrounding the telecommunications facility. Proposed plans also show a twelve foot (12') wide Type A Buffer yard on the western side of the proposed facility, as is required per MCC 4-3-5(H)(5)(h)(iii).

10. **The proposed antenna tower location minimizes the number and/or size of antenna towers or antenna support structure that will be required in the area.**

The WFC is designed to accommodate three (3) carriers. Alternative sites in the area where other carriers have established antennas are unable to provide sufficient structural support to allow the applicant to co-locate.

11. **The applicant has not previously failed to take advantage of reasonably available shared use opportunities or procedures provided by this Ordinance or otherwise.**

The applicant has no prior history of failing to take advantage of reasonably available shared use opportunities or procedures provided by this Ordinance or otherwise. The applicant provided a site analysis of four alternate locations and determined this location to be the most favorable.

III. DECISION

Based on the above Reasoned Statement of Relevant Criteria, the City of Moscow Board of Adjustment denies the application for a Conditional Use Permit for a Wireless Communication Facility located at 1400 E 7th Street, Moscow, Idaho.

DENIED BY THE BOARD OF ADJUSTMENT OF THE CITY OF MOSCOW THE 7TH DAY
OF APRIL 2021.



Mark Monson, Vice Chair
Board of Adjustment

BOARD of ADJUSTMENT



Joe Bazzoli
Board Chair
boa@ci.moscow.id.us

Public Meeting
~ Minutes ~

Aimee Hennrich
Staff Liaison
208.883.7095

<http://www.ci.moscow.id.us/354/Board-of-Adjustment>

Wednesday
April 7, 2021

5:30 PM

Council Chambers
206 E Third Street

The meeting was called to order at 5:29 PM

MEMBERS PRESENT: Joe Bazzoli (virtual), Chair; Steve Bush, Marshall Comstock, Mark Monson (virtual), Laurene Sorenson (virtual), Tim Thomson
MEMBERS ABSENT: Annette Bieghler
STAFF: Jennifer Fleischman, Aimee Hennrich

REGULAR AGENDA

1. Approval of March 29, 2021 Minutes (ACTION ITEM)

Comstock moved for approval of the minutes as presented, seconded by Thomson. Vote by Acclamation; Ayes: Unanimous (6). Nays: None. Abstentions: None. Motion carried.

2. Approval of Reasoned Statement of Relevant Criteria and Standards (ACTION ITEM)

A Conditional Use Permit application for a proposed 80-foot-tall Wireless Communication Facility (WCF). The WCF would accommodate three carriers within a fully enclosed 800 sf lease area and would resemble a church tower.

The Board noted that there is an additional residential structure, owned by the Church of the Nazarene, that is located directly south of the proposed WCF. It was also recognized that more than one generator could possibly be housed at the site, and would result in more than the proposed singular hour of operation a week for maintenance. The Board also pointed out that there were alternate site locations that could have been explored further as options for the proposed WCF.

Bush moved for approval of the Relevant Criteria and Standards for the Conditional Use Permit at 1400 E Seventh Street as amended, seconded by Comstock. Vote by Acclamation: Ayes: Unanimous (6). Nays: None. Abstentions: None. Motion carried.

REPORTS

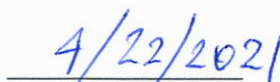
ANNOUNCEMENTS

UPCOMING EVENTS/MEETINGS

The next Board of Adjustment public hearing is scheduled for April 22nd, 2021.

The meeting adjourned at 5:38 PM


Joe Bazzoli, Chair


Date

Public Hearing Transcript: Proposal for a Conditional Use Permit at 1400 E Seventh Street: a proposed 80 foot tall Wireless Communications Facility (WCF). The WCF would accommodate three carriers within a fully enclosed 800 sf lease area and would resemble a church tower. – LUP2021-0004

The meeting was called to order at 7:06 PM

MEMBERS PRESENT: Joe Bazzoli, Chair; Steve Bush, Marshall Comstock, Mark Monson, Tim Thomson
MEMBERS ABSENT: Annette Bieghler, Laurene Sorenson
STAFF: Jennifer Fleischman, Aimee Hennrich, Mike Ray

1 HENNRICH: Alright. Good evening, everyone...Let me...get my screen sharing
2 happenin'...Alright, um, so tonight we have a Conditional Use Permit for a Wireless
3 Communication Facility proposed at 1400 East Seventh Street. Um, the applicants
4 requesting a Conditional Use Permit to construct an 80-foot-tall Wireless
5 Communication Facility, as I said, located at 1400 East Seventh Street. That location
6 is, uh, the pro- the property of the Church of the Nazarene. This is a fully enclosed,
7 uh, facility with, uh, an 800 square foot lease area, and it's designed to resemble a
8 church tower. Um, it's also designed to ca- accommodate three additional carriers,
9 per the City of Moscow Code. A little bit of background; um, July 30th of 2018, Pro
10 Land LLC applied for a Conditional Use Permit to construct an 80-foot Wireless
11 Communication Facility at the same location. Uh, the facility at that time was
12 designed to, uh, resemble a stealth mono- a- a stealth-style mono-pine tower, um,
13 intended to resemble a tree. On November 18th, 2018, the Board of Adjustment denied
14 the application finding the mono-pine tower was not consistent with the existing
15 character of the neighborhood and would not be in harmony with the land uses
16 surrounding subject property, and the scale of- the scale of the proposed tower is
17 significantly larger than any other structures or trees in the surrounding area. On
18 November 27th, Busch Law Firm filed an ou- an appeal on be- on behalf of the
19 applicant, and on January 7th of 2019, City Council reviewed the appeal and sustained
20 the decision to deny the application. Um, so tonight's proposal is the same site as

1 previous. Um, it's 231,678 square feet. The Church of the Nazarene campus is split
2 up into 11 parcels. The proposed site is located on the southwest corner of the campus.
3 Um, as you can see here, this is the proposed parcel. Um, in close proximity we have
4 Short's Funeral Chapel, Pickard Orthodontics, uh, Carol Ryrie Brink Park, as well as
5 Eastgate Park – or Triangle Park. Um, zoning in that area is Neighborhood Business.
6 The antenna– antenna towers are considered conditional use within all zoning
7 districts, uh, per Moscow City Code. Um, here is a map of the current zoning, um, as
8 you can see, the Church of the Nazarene campus is Neighborhood Business, uh, the
9 surrounding is R-3, um, and then on the, you know, outskirts, R-2. Um, this is a, um,
10 the site- uh, uh, part of the proposed plans showing the, um, the tower intended to
11 resemble a church tower. Um, what you have here, it's 80-foot height, um, at the very
12 top. Uh, this first section of, uh...uh, antennas is intended to accommodate AT&T.
13 Um, there's talks of the second level for, uh, T-Mobile, and then, further down, uh,
14 Dish Network. Um, additionally you'll see in your packets, um, the height here of the,
15 um, existing power lines as well as the existing arborvitae, um, that runs along the
16 adjacent property, um. Here you'll see the existing height of the, um, the cross on top
17 of the Church of the Nazarene. I think it's, uh, I believe it was 62.4-feet, um, in
18 comparison to the 80-foot-tall tower. Um, the design is intended- the design of the
19 tower is intended to, um, replicate the design of the Church. Um, here's the overall
20 site, showing those- en- 11 parcels in their entirety, um. The proposed construction,
21 uh, of the wireless facility is here on, uh, the, uh, southeast portion of this parcel, um,
22 in this red area. This is a zoomed in, um, image of that same location showing the
23 enclosed lease area here, um, along with Park Avenue here- or Park- Park Street here,
24 um, and this house here that is owned also by the Church of the Nazarene. Um, and
25 then the existing church facility here. Um, again, same, um, site shot, um, showing
26 the existing, um, vegetation here, proposed Type-A Landscape Barrier, enclosed

1 fencing. Um, this structure itself- this is the tower, this circular image here. Um, there
2 will be, uh, generators, ancillary facilities, over here to the, um, directly adjacent to
3 that tower. Um, there's an existing, uh, storage shed that- that will be moved, um,
4 further to the east in order to accommodate this site location. Um, so here you have
5 the, um, current view from the north property line. Um, these are just some photo
6 simulacra- sim- simula- simulays- sims- simulization- I can't speak right now. Um,
7 showing what the proposed, um, facilities will look like once, if, built and approved.
8 Um, this is, again, the view from the north property line. Um, this is from the northeast
9 as it exists today, and if the proposed tower were constructed. This is from the
10 southeast, and here we have from the south. Um, this is the existing, uh, service area
11 that AT&T covers currently: as you can see there is, um, the area here is their target
12 service area, that they are- the objective is to, um, you know, create a- a- more contin-
13 continuous, um, service for those customers, um, and that is the target area that they
14 are intending to focus on here with this tower. Um, this is what the result would be
15 after this, uh, tower were constructed, um, with those antennas. The yellow section
16 being new coverage area and the green being existing. Um, and then this is just a
17 closer-up image of the same. Um, the applicant has provided the City, um, in your
18 packets, um, of, you know, different alternate location analysis. Um, if, um, I can put
19 my glasses on here and can read my notes a little bit further, because that print is kinda
20 small for me...Um, the first alternative site location that's listed here, um, uh, in this
21 location is Vista Water Tower, um, and the applicant can go more into details about
22 their findings, um, on these alternate locations. Second location here: Brink Nature
23 Park. Um, the third location- alternate location is, uh, Eight Street Water Tower here,
24 and then a commercial property over here at, uh, East City Marketplace. Those are
25 the alternate sites they used for analysis in this particular application. Um, so the
26 Development Standards for, um, wireless facilities, um, require that the setback- will

1 require setbacks that no antenna tower that exceeds 60-feet in height shall be located
2 within 500-feet from the State Highway 8 or 95 rights-of-way. Um, this proposed
3 tower would be located 3,480 feet north of the, uh, Highway. Um, Development
4 Standard 2 is Security: every telecommunication facility shall be protected from
5 unauthorized access by appropriate security measures. Uh, the proposed site is
6 enclosed by a 6-foot ta- 6-foot block wall and ancillary facilities will be fully enclosed
7 with- within the proposed site. Number 3 Lighting: every antenna and antenna tower
8 shall not be lit- lighted, and such lighting shall not be more than a minimum required
9 by such agency, and the submitted plans showed no lighting on the proposed tower.
10 Number 4 Noise Reduction: noise generated- generating equipment shall be sound
11 buffered by means of baffling barriers or other suitable means to reduce the sound
12 level measured at the property line to 45 decibels. Current plans also show a Type-A
13 landscape buffer, on the western side of the proposed site that- that'll shield the site
14 from Park Drive as required by City Code as well. All other Development Standards
15 under this section of the Code, will be met, uh, as a part of the permitting process.
16 Development Stand Number- Standard Number 8: any new ro- any new or relocation
17 antenna tower, 80-feet or greater in height, shall be designed to- and con- and
18 constructed to accommodate two additional users. Um, and accommodate, uh, two
19 additional users- needed- need- need to be accommodated, as indicated by the
20 response to, uh, the- the noticing provisions and the proposed facility is- is designed
21 to accommodate three- three carriers. Uh, the applicant has provided a notarized
22 commitment to share location as well- share use. Um, so it is for those reasons that
23 Staff recommends approval of the Conditional U- Use Permit for the proposed 80-
24 foot Wireless Communication Facility located at 1400 East Seventh Street, with no
25 conditions, and the Board to direct Staff to prepare Relevant Criteria and Standards

1 based on your findings tonight. And with that, I'd be happy to take any questions you
2 might have.

3 BAZZOLI: I have a couple.

4 HENNRICH: Yes.

5 BAZZOLI: Um, the- the first, um, zoning item has to do with, um, the placement of towers within
6 500-feet of Highway 8 and 95. I suspect that's for expansion, but that one's a very
7 specific requirement, or non-requirement. Why is it limited to just those two-

8 HENNRICH: I-

9 BAZZOLI: -roadways and- and- nothing else?

10 HENNRICH: -I believe, and Mike could correct me if I'm wrong, but it may be an ITD requirement?
11 For the 500-feet? From state highways?

12 RAY: Yeah, I'd imagine it's some ITD requirement, based upon that.

13 BAZZOLI: Okay. But there are no other requirements that would limit locations anywhere else,
14 other than those two-

15 HENNRICH: As far as streets?

16 BAZZOLI: -roads? Yeah.

17 HENNRICH: Correct.

18 BAZZOLI: K. The second one had to do with lighting?

19 HENNRICH: Mmhmm.

20 BAZZOLI: I know this one doesn't have lights on it, and it says that there's- that they shouldn't
21 have them, but in our packet, it also mentioned "unless Federal Aviation requires it".
22 At what height does Federal Aviation require it?

23 HENNRICH: I want to say that it's 200-feet, based on, uh, for the previous, um...uh, written record.

24 BAZZOLI: Okay.

25 HENNRICH: Uh, I have not looked at the Federal Aviation requirements, but it is their requirement,
26 and this- this height does not meet that requirement.

1 BAZZOLI: Okay. Um, the- the other questions I have are- are historical, because I wasn't here
2 when this went through the first time. Was the location the same?

3 HENNRICH: Yes.

4 BAZZOLI: And was the height the same?

5 HENNRICH: Yes.

6 BAZZOLI: Okay. Who else has questions? Marshall?

7 COMSTOCK: Yeah, Aimee, I- I probably didn't hear you: you probably told this, but between your
8 mask and my hard hearing, it was kinda tough. The- the house that is south of the
9 proposed site: is that on the part of the Church campus? Is that owned by the Church?

10 HENNRICH: Yes. The house- if I can go back to the Zoning Map here, I'll actually point it out to
11 you. That way you- everybody's- we're all on the same page here. Oh, let's see...so
12 this house right here- is this- uh, let's see, so campus is here. This property right here-
13 this house: is that what your referring to?

14 COMSTOCK: Mmhmm, yes.

15 HENNRICH: Yes, that house is owned by the Church of the Nazarene.

16 COMSTOCK: Okay, great. Thanks Aimee.

17 HENNRICH: You're welcome.

18 BAZZOLI: Any other questions for Staff? Thanks, Aimee.

19 HENNRICH: Thank you.

20 BAZZOLI: Alright, at this time- once she is done there...we'll open it up for the applicant to come
21 up and speak and talk about this. And, for those of you that haven't been to one of
22 these meetings before, what we'll do is- well- well, one: you need to state your name
23 and address into the record, um, at the mic because that way it's picked up. Um, we'll
24 let the applicant describe what their doing and then we'll open it up for those in favor;
25 and then we'll open it up for those either neutral or opposed; and then we'll give the
26 applicant a chance to come back up and re-but; and then we'll close the Public

1 Hearing. So, that's the basic ground rules, so if the applicant would come up and
2 describe what we're- what's being proposed.

3 ALLEN: Well, good evening Mister Chair. Uh, my name is Kimberly Allen. I'm with the
4 Wireless Policy Group. I'm on your screen, uh, not in person. Um, because I am
5 awaiting the- the second half of my vaccine. Um, so I appreciate the opportunity to
6 appear, um, remotely this evening. Um, I represent Parallel Infrastructure, the
7 applicant here, and with me I have Gregory Busch, also for the Wireless Policy
8 Group. Um, and he is going to be helping us with a brief presentation that we have
9 for you, that focuses on some of the approval criteria for, um, a Conditional Use
10 Permit, under the Moscow Code. Next slide. As, uh, Aimee described, we are
11 proposing to build an 80-foot tall Wireless Communication Facility designed as a
12 church tower. Um, at the last, uh, last go around, in 2018, um, Parallel Infrastructure,
13 then called Lend Lease, uh, heard the Board and the concerns about the neighborhood
14 and compatibility, uh, the com- the- finding that- that an 80-foot pine tree not found
15 in the neighborhood would be, uh, incompatible with- with- with the surroundings.
16 So, we went back to the drawing board and, um, sharpened our pencils and, uh, came
17 up with a re-design based on the architecture of the Church, reflecting the primary use
18 of the property as a Church, um, and, um, have proposed the facility before you. We-
19 AT&T will be the first and primary tenant on there, um, they will co-locate on the
20 facility to fill a significant gap in their high-band 4G LTE coverage, that's currently
21 experienced by its customer's in eastern, um, Moscow, as well as to add a network
22 capacity to unburden AT&T's existing facilities, uh, west of Main Street. The facility
23 will provide coverage to residential areas, uh, within that- that- that map, not- that are
24 not, um, able to be adequately served by existing facilities, due to the topography of
25 the area. Um, this facility is also very important because it will support AT&T's
26 FirstNet effort, um, that creates, uh, dedicated, um, communication channels that

1 prioritize first responder communications in the event of a- of an emergency. This is
2 a nation-wide initiative that AT&T is, uh, participating in, um, which, uh, learns the
3 lessons, uh, lessons learned from the wildfires, the flooding, the hurricanes over the
4 past- where emergency responder's had difficulty setting up communications. This is
5 the, um, response to that. Next slide. So, you saw some pictures, and I- I- I was not
6 able to see the screen, from my vantage point, but, um, this is the tower, uh, as
7 proposed, um, next slide. And I- I really want to focus on the Conditional Use Permit
8 criteria that you have in- in the Staff Report. Um, and- and demonstrate that we, um,
9 we do meet the, uh, criteria before you tonight for approval. Um, this first, uh,
10 Conditional Use Permit criterion, uh, talks about there not being a suitable alternate
11 within the necessary geographic area, um, that would meet the applicant's
12 requirements, uh, considering height, structural integrity, or other conditions that
13 render antennas or antennas' support-type structures geographically unsuitable. Um,
14 next slide. In the Staff Report, we- we do a project history and, uh, and in our, um,
15 narrative and, uh, Statement of Code Compliance, we also, uh, se- set that forth. Um,
16 you know, we have a long history of trying to find a suitable facility, um, for, uh, a- a
17 number of different carriers in- in- in the Moscow area. Um, the first of- of course is
18 the November 2- 2018 proposal for a, um, a mono-pole on this site. And the Board
19 and the, um, Council both found that, uh, um, this would be out of character with the
20 surrounding neighborhood. Um, so, uh, we also, then, took a look at, um, just- Parallel
21 Infra- Infrastructure is a provider of, um, wireless infrastructure so that carriers can
22 come and- and locate on it. Um, but I- but both Parallel Infrastructure and the wireless
23 industry, in general, have a- have tried to locate on facilities on or around the Vista
24 Water tank, on South Hathaway. Um, several proposals have been rejected by the City
25 and others have been found to be technically infeasible, by both the City and the
26 wireless industry. And then Parallel also requested to place a wireless facility adjacent

1 to the tower, um, and was also rejected by the City, uh, uh, separate stand-alone
2 support structure, um, for wireless at that location. Next slide. Uh, we- als- AT&T
3 also, uh, investigated a new tower at Brink Park. The RF engineers took a look and
4 evaluated a- a new tower- a 75-foot antenna tip height at, um, Carol Ryrle Brink Park,
5 off of Joseph Street. Very close to here. Um, the potential new tower at Brink Park
6 would provide limited coverage, and which would focus primarily on the commercial
7 areas and not the targeted residential areas, due to its location. It was found to be not
8 a- a good solution for the, uh, coverage objectives, uh, that have been identified by
9 AT&T for this site. They also took a look at the, um, existing water tank on Eighth
10 Street, about a third of a mile southwest of the facility. The co-location would have
11 been at a 30-foot antenna tip height, um, and, uh, AT&T found that this- this particular
12 location would provide 84.5% less coverage, within the targeted service area. So, was
13 rejected as- as not a viable candidate. Next slide. Uh, finally they- uh, AT&T's
14 engineers took a look at- at proposing a new tower, uh, 96-feet antenna tip height
15 tower on commercial property, um, south of the proposed facility. Um, this facility,
16 uh, would- this currently proposed facility at the Church would provide 14% more
17 coverage within the targeted service area, uh, but it's also important that the, um, the-
18 the tower on commercial property would have the same problem as- as one of the
19 water tank locations: that it would not provide the coverage to the residential areas. It
20 would provide coverage primarily to the commercial areas and would overlap with
21 some of AT&T's existing coverage. So, it too was found not to be a suitable location.
22 So, we've- we- we've tried to do our homework and- and investigate, you know, all
23 possibilities within- within the search ring. We're constrained by distance as to what
24 the carriers, you know, require in terms of, um, in terms of geography and- and- and
25 location. Next slide. But, in- in- in conducting that investigation and considering, uh,
26 all those alternatives, we feel that we've met condition number one, um, for a criter-

1 for, uh, for a Conditional Use Permit. Now, the second criteria talks about, um, the
2 aesthetics here, and that the design, uh, including antenna's and- and ancillary
3 facilities minimizes the visual impact, um, and complies with the provisions in this
4 section. I think Aimee walked through how the facility will comply with- with the,
5 um, the other aspects of the Moscow Code. Um, Parallel really tried to- to- to take the
6 message from the Board to heart last time and look for a different way to, um, to blend
7 this facility in- on- on the Church campus. You know, church- churches, you know,
8 typically will have a- a bell tower, um, structure of some sort. That tower is generally
9 hei- taller than the church. Um, what the, uh, what the engineers have tried to do in
10 designing the facility is to make sure, one; all of the equipment and wiring and
11 everything will be contained within the structure itself. You will not see exterior wires
12 hanging off, you won't see antennas. Everything will be- be included behind, um,
13 screening and, um, within the tower. Um, the- also, the structure that we are proposing
14 would be painted consistent with the built environment, which is the Church and the
15 Church buildings. Um, we incorporate a circular topper that's similar to the roof of
16 the Church, and then the transparent crosses on each side are made out of material
17 that will, um, allow the RF signals to, um, to- to penetrate, um, while still concealing
18 the antennas. So, we think that- that we have chose a design that- that is consistent
19 with- with- with the property- it reflects the primary use of the property as a church
20 facility, um, as opposed to a very large tree that is not replicated in the neighborhood
21 anywhere. Um, so we, um, we believe that we have met, uh, the requirement that we
22 visualize- uh, minimize visual impact to the greatest extent possible here. Um, next
23 slide. And that's just another view showing the, um, the consistency of the architecture
24 from the Church to the, um, to the adjacent, um, tower structure. Next slide. The third
25 criteria requires that, um, the antenna location- a tower location- minimize the number
26 or size of antenna towers, that were required in the area. Next slide. I think as- as

1 Aimee walked you through, this tower is designed for- for three carriers: AT&T at the
2 top, um, T-Mobile in the center, and- and Dish below. I know that, um, Parallel's in-
3 in discussions right now with both T-Mobile and Dish, to locate within this facility.
4 Um, that eliminates the need for- for two standalone towers for those, uh, those
5 carriers. Um, they would instead, uh, share this well-designed facility and also would
6 have to seek their own permitting from the City to- to- when they decide to- to locate
7 here, as well. So, the City would have some controls over, um, the- the, uh,
8 deployment of the equipment that would happen here by- by subsequent carriers. Next
9 slide. And then the- the last, uh, Conditional Use Permit criterion is that the applicant
10 has not failed to, uh, take advantage of reasonably available shared- use opportunities.
11 And, as the procedural history, you know, demonstrates: the applicant has- has looked
12 at many, many alternatives here, to try to find a suitable alternative to this location, to
13 serve the residential areas that- that surround this. And- and has been unsuccessful,
14 and moreover, by building this facility the, uh, the applicant is creating, uh, additional
15 available shared, uh, shared use opportunities for carriers to, um, to minimize the
16 number of towers, um. Next slide. And we also wanted to just speak to the need for
17 this- for this facility, because we think that, um, that's important to talk about, um, as
18 you- as you make your decision tonight. Next slide. I- I mentioned FirstNet earlier,
19 and this is, um, this is a (unintelligible) law enforcement that is nationwide, uh, which
20 is, uh, A- AT&T- requires AT&T to upgrade its existing facilities, to build new
21 facilities, to deploy the wireless spectrum set aside for public safety, which is Band
22 14. So, uh, AT&T will be adding this to all of their existing facilities and building it
23 into, um, the facilities yet to be built. Um, and FirstNet- what- what it will do is- is
24 provide public safety users with the assurance of network access whenever they need
25 it. Um, AT&T is designing the FirstNet network to, um, consider location and facility
26 requirements for, um, in- in tandem with law enforcement and first responders for- to

1 make sure that the siting, placement, and operation of these facilities, um, provides
2 the, uh, support that, um, that those- those providers will need in the event of an
3 emergency. Next slide. So, I- I- I know Aimee had these- these up on the- on the
4 screen, um, so this is the existing 4G LTE coverage and just to address one- one, uh,
5 point made in one of the public comment letters: um, 4G LTE, uh, is 4G. There-
6 there's no other version of it. I think that one of the letter writers referred to pure 4G,
7 um, and that, uh, that certainly- these terms are used interchangeably in the wireless
8 industry: 4G and 4G LTE. Um, so this is a- a 4G, um, coverage solution. Uh, and as
9 you can see- next slide- this will provide, uh, uh, substantial additional coverage and
10 capacity. And- and- and I think, uh, the capacity needs are really important to consider
11 here. I think what the last year has demonstrated to us is that having seamless and
12 reliable wireless service in residential neighborhoods is not a nice-to-have anymore.
13 People, uh, especially this year, uh, were working from home, they were engaging in-
14 in remote learning, they were using telemedicine, and- and dozens and dozens of other
15 applications that require a reliable wireless connection. Um, these- these residential
16 areas have typically been difficult to serve, uh, with the macro network that we have,
17 because of the- the few number of sites that you can have a- a wireless facility on in
18 a residential zone. You know, typically we're limited to, uh, any non-residential use,
19 such as a church or a school or- or a meeting hall or something like that. So- so, the
20 opportunities for siting have been, uh, very few, uh, and certainly they have not
21 addressed the- the exploding need for, um, additional coverage and- and data capacity,
22 as people use their wireless phones in ways that weren't contemplated when the
23 network was built. So, the additional capacity is like, uh, like an overcrowded
24 freeway: it provides some off-ramps and- and- and moves the traffic along into more
25 manageable patterns so that, um, no part of the network is experiencing dropped calls,
26 uh, inability to text, the spinning wheel on your phone that shows that nothing's

1 happening there. Um, all of those things are a function of capacity. The number of
2 users on the network and the amount of data they're using at any given time of day.
3 So, next slide. With that, um, Gregg and I are here and we are happy to answer any
4 questions that any of the members of the Board will have, and we thank you very
5 much for your time and consideration of this very important site. Thank you.

6 BAZZOLI: Um, I suspect we have questions for you. I- I have a couple, um, that had- had to do
7 with your- your- the first item that you addressed with regards to height and the other
8 alternate locations. Eh, with all the information we were given, I- I didn't quite track
9 how height of the tower, affects how effective it is. One of your examples had a 96-
10 foot tower, which obviously is taller than 80, and it wasn't as efficient. And it was on
11 basically low ground. And there was another example that was only a 30-foot tall
12 tower, but it was up on a taller area, which I would assume is where you would get
13 your best reception. Can you- can you address that question, if the question was
14 understood?

15 ALLEN: Sure! I do understand it! It's a great question. Yeah, uh, um, the, um, the- the coverage
16 objectives, um, for a particular site are- and the height needed to- to address those
17 coverage objectives are- are very site specific. As- as you noted. You can have a site
18 that's- that has, uh-uh, very- that's- that's graded very tall, um, the elevation is tall,
19 uh, on sites like that you can sometimes use, uh-uh-uh, a shorter tower. Um, you have
20 sites that are- that are sited very low, and then you need to have a- a taller tower. This
21 site- actually the antenna tip point inside is 75-feet. There's some- some
22 accommodation of height there for the, um, the for actual top of the structure itself.
23 Um, so this site is- is like, at least one of the other examples that we- that we talked
24 about. Um, the other challenge we have in building a- a site that will accommodate
25 three carriers, is that you have to have enough height so that the co-location spaces-
26 and you have to account for separation between the various carriers. You can't put the

1 antennas right next to each other; there has to be a separation of 10 to 20-feet between
2 the an- or 10-feet between the antenna, uh, arrays of various carriers to, uh, avoid
3 interference. So, in order to make the, um, the various, um, antenna, uh, locations,
4 within this particular structure, um, a- attractive to carriers, you have to have a- a- a
5 certain amount of height. Um, also to serve the- the- the breadth of the coverage area
6 that you saw demonstrated on that map, the RF engineers took a look at that and- and-
7 and, um, concluded that- that 75-foot antenna tip height was the minimum
8 (unintelligible). They had actually, um, wanted a 100-foot tower, at this location, um,
9 and to serve an even- even greater range, but adjusted the, um, you know, height
10 requirements and- and- and the ask here based on the, um, you know, the character of
11 the neighborhood and- and what they thought, um, the site could, um, could
12 accommodate and- and still be compatible, um. I hope I've- I've answered your
13 question. I- I know that the- the top of the, uh, the cross on the church is at 62-feet, so
14 this is not terribly much taller than- than, you know, the existing church itself, uh,
15 when you look at the- at the cross on the top. Um, but that's- that's the difference
16 between, you know, the different heights at different locations. It has to do with the
17 topography and it also has to do with the amount of- of clutter, um, tall trees,
18 buildings, uh, things like that will interfere with signal, as well, and so you need to
19 clear that in order to have- have a good signal.

20 BAZZOLI: Okay, you actually- you answered my first question. You actually answered my
21 second question, too, and that question was- was, uh, it looked like the separation
22 between the carrier spaces was give or take 15-feet, it seemed like? Per scale. And so,
23 I was wondering how- how the third person at 45-feet, give or take, would have the
24 same signal strength as the one at 60 and the one at 75. And so, you actually addressed
25 that too.

1 ALLEN: Well, also the different carriers use different parts of the spectrum to- to, um, to carry
2 their signal. And different parts of the spectrum have different performance qualities.
3 Some go very far and can go through a lot of, you know, clutter and objects. Some
4 don't propagate very far but carry a lot of data. Um, and also in the case of the- the-
5 the, um, the 30-foot site that was included in the alternative analysis, that- that was a
6 water tower and we can't make it any taller. That was as tall as it was. So, we tried to
7 see if there was some sort of solution that could be engineered there, but- but it
8 certainly wasn't possible. But, the- the- the 30-foot height was- is sort of an outlier,
9 um, on- on the examples of- of the alternatives that saw.

10 BAZZOLI: K.

11 COMSTOCK: Ah, yes Ms. Allen, I'm Marshall Comstock. And, um, I had a couple of questions for
12 ya. Uh, how many generators at any one time will be on the proposed site?

13 ALLEN: "On" as in present, or "On" as in running?

14 COMSTOCK: Uh, I'm sorry, I didn't hear you.

15 ALLEN: Oh, I'm sorry! D- d- are you asking me how many generators will be present on the
16 site?

17 COMSTOCK: Yes.

18 ALLEN: At one time?

19 COMSTOCK: Yes.

20 ALLEN: Okay. Um, and at- AT&T has requested a generator, on site, to, um, to accommodate
21 power outages. Um, I- I believe that T-Mobile has also requested space for a
22 generator, on site. Um, we- we have not, uh, gotten a re- that request from Dish, at
23 this time.

24 COMSTOCK: K. And how often are those generators normally tested?

25 ALLEN: There tested once a month, for an hour. And we can certainly work with the, uh, the
26 neighbors to make sure that any generator testing that's done is done at- at a time that

1 won't disturb sleep or- or- or weekend recreation. You know, during normal business
2 hours. Um, so that- that the impact to the- to the neighbors is, um, is minimized.

3 COMSTOCK: Okay, and how about the third carrier, if- if there is one?

4 ALLEN: A- the- I- I'm- I don't know if there's space here for a third generator...? Uh, the only
5 space that I know that's been- that's been allocated is- is for, um, for the two carriers.
6 They have a generator each. You know, not every- not every carrier needs a generator.

7 COMSTOCK: Okay, great. Um, my next question has to do on your, uh, alternative sites- your
8 assessment of the alternative sites. I see that there was a couple that you suggested
9 that may go on the water towers, or on property where the Vista Water tower lays,
10 that- that, uh, then you- then you also did a, uh, an assessment, or at least a proposal
11 to look at, uh, a commercial site out by Highway 8. And, I guess my question is why
12 did you only limit your choices of alternative sites to those areas when there are other
13 areas that may have fit the bill better?

14 ALLEN: Well, the- the areas in which we can look are- are selected by the RF engineers for
15 the carriers. They- they have- they search rings -specific- rather small areas, now, um,
16 compared to- to years back. Um, capacity, uh, sites typically, um, when you add
17 capacity, you're using data frequencies that don't go very far. And so, it- the search
18 rings are smaller. Um, so we looked at the available locations within these search
19 rings. You know, you certainly have to have, um, you know, a willing landlord; you
20 have to have it in a- in a place that works, you know, from a RF perspective. Um, you
21 also want to have it in a- in a location that- that minimizes the impacts to the
22 neighborhood. Um, all of those considerations go into which one's we- we- we chose.
23 Um, I think we had, uh, uh, a fair selection based on the constraints of- of, you know,
24 where we able to look.

25 COMSTOCK: Yeah. Well, my- when, uh, when we had the proposal before us before by- by, uh,
26 Parallel, we made some suggestions of some sites because we felt that we know our

1 city better than anyone. One of the sites that we suggested they take a look at was the
2 Latah County Fairgrounds. It's- it's actually in your target area; it's- it's not
3 necessarily a residential area, and it's my understanding that, uh, Latah County was
4 never even approached about it.

5 ALLEN: No, Mr. Comstock I- I am unfamiliar with- with- with that site. Um, we can certainly,
6 um, certainly get some information about that. I suspect that it- it would have been
7 ruled out for RF reasons? Would be my- my guess? I- I don't have, uh, a history on
8 it- on them approaching the Fairgrounds. Some of the due diligence is done, a- you
9 know, with the- with the various carriers in-house before, um, before we ever propose
10 a site. So, um, I suspect that's what- what happened. That it wouldn't work from a RF
11 perspective. But, um, but I can certainly verify that.

12 COMSTOCK: Okay, thank you.

13 BAZZOLI: Go ahead.

14 THOMSON: Good evening. Um, just a couple quick questions. I hear a lot about 4G in this proposal
15 and this project. But it seems like everything I read in the news is 5G. So, why, uh,
16 w- w- w- I'm not- I'm not a 4G/5G expert, but, um, why aren't we going for 5G?

17 ALLEN: Uh, well, okay. Both networks will exist simultaneously for decades. We're- we're
18 just now starting to- to ease away from-- from providing 3G at all of these sites. To
19 give you an idea. And 4G has been around for many, many years. So, people's phones
20 aren't necessarily backward compatible, um, with- with- with, you know, new
21 technology, so will need, um, we- we will need both for the foreseeable future. Um,
22 right now 5G, um, certainly the- this tower will be, um, will be available for AT&T
23 to modify the site, internally, to add 5G antennas when the network calls for that. Um,
24 but right now, they're really trying to look at- at 4G, which has, uh, carries a lot of
25 data and can go- go further. They're looking at- at- at 4G and- and adding to that
26 network (unintelligible) before introducing 5G, which- as it typically runs on- on, uh,

1 spectrum that- that doesn't go very far. So, that's- that's the problem. But, ultimately,
2 I think, all of the carriers will- are introducing 5G, it's just a matter of time, uh, and
3 they do have the option to come back later to the site and, uh, and seek permits to
4 modify the site to add those antennas.

5 THOMSON: Okay, so we won't need another site, just, uh, the upgrade this site?

6 ALLEN: Right.

7 THOMSON: Um, just curious: uh, what is the construction material of the tower?

8 ALLEN: Oh, boy. Um...

9 THOMSON: Is it concrete? Is it plywood? Is it...cardboard? I don't know...

10 ALLEN: I'm going to- I'm going to ask Gregg if he knows.

11 THOMSON: I- I only ask that question 'cause I think it might have something to do with appearance
12 and also maintainability.

13 ALLEN: Sure, and- and any, um, any of the plans- I'm not sure exactly- I'd- I'd have to take a
14 closer look at the plans, and I think that maybe Gregg is doing that. Uh,
15 (unintelligible), um, all the building permit, um, requirements and, uh, as well as the
16 planner's requirements. For the materials that would- that would, um, that would be
17 good-looking. I- I understand your concern. You know, you don't want a-

18 THOMSON: K, while he's looking, um, let me-

19 ALLEN: -plywood structure up there-

20 THOMSON: While he's looking, um, I think going back to the question on generators, um. The-
21 the way it's been presented is there'll be a maintenance once a month for an hour, to
22 do m- maintenance. But if each carrier has its own, that would imply one to think that
23 there is twice as many maintenance hours, because there's more generators. If- so, my
24 obvious question is why can't all the services- since the generator is for power
25 outages, why does each unit- each carrier need its own generator, when it seems like
26 it's in emergency status. I'm not an electrician, but I would think that- I know there's

1 probably different wattage requirements, but I think that's just a component of
2 inverters, or so I- I just don't know why we need a diesel generator for each carrier,
3 if it's for an emergency use.

4 ALLEN: Yeah, and- and- and I know that- that- that the power needs for this site, I- you're-
5 you're crossing over into, uh, into outside of my expertise. I'm not an electrician
6 either, or- or- or an electrical engineer. But I do know that, um, that each- each of the
7 carriers has different equipment, that has different- different power needs. And- and
8 I'm not at all sure that they could share a generator. Also, I'm not sure that the timing
9 that would occur, um, you know, AT&T as the primary tenant wants to put a generator
10 on-site right away. Um, certainly if you're concerned about- about multiple, uh,
11 cycling's per month to test the generators, you know, we could- you could, um, write
12 a condition that would- that would require them to all test on the same day or during
13 the same time slot, to coordinate the testing. Um-

14 THOMSON: As long as I-

15 ALLEN: -for each generator.

16 THOMSON: I- that would make sense, if the decibel level just remains the same, but, um...now
17 last question- I think because I heard a couple things- my- my observation is it's, um,
18 'cause I heard a couple different id- el- sep- vertical separations from the top of the
19 tower to the top of the cross: I come up with 14-feet. And I heard a couple other things,
20 which doesn't seem very much of a difference, but...the top of the cross is 66-feet
21 AGL, and the top of the tower is 80. Um, and just thought I'd clarify that. Unless I-
22 unless I got it wrong here, but...Okay that's all I have. For now.

23 BUSCH: Alright, I did find- this is Gregg Busch, for- with Wireless Policy Group, by the way.
24 I did find the answer to your question. And, unfortunately, the drawings do not go
25 into that level of detail. I'm looking at sheet A-2 of the drawings- most recent version
26 of the drawings, and unfortunately it says "framing, cladding, and EIFS finish on the

1 Tower is to be provided by the general contractor”, and it also describes a composition
2 of the architectural tower is to be designed by others. So, unfortunately, we don’t have
3 that information available as current.

4 THOMSON: Alright.

5 ALLEN: But, we would have to meet the City standards for, um, for this structure. And, uh, to
6 be able to get, um, to get our building permit approved.

7 BUSH: So- this is Steve Bush, and I’ve gotta- a- a question, and, um, and, uh, uh, a
8 clarification, I guess, on Criteria Number 3. On page 2 of the application, it says that
9 the, uh, the two diesel generators will run in the event of a power outage, and once a
10 week for one hour of maintenance. And your mentioning it’s once a month, and uh,
11 in the application it says it’s going to run once a week, for an hour. And so, I was just
12 wondering if that- uh, which one would be correct, I guess.

13 ALLEN: I may have misspoke. It may be- if- if the application says once per week, um, then
14 that’s probably- then that’s probably what’s contemplated. My apologies for- for the
15 confusion on that.

16 BUSH: And, uh, my other question is, um, concerning all alternative sites and um, Marshall
17 had brought up the, uh, the County which is um, I think a good alternative and next to
18 the County is the Fire Station. And at the Fi- Fire Station they have a- they have a
19 building there, uh, I think it’s three stories, made out of- of- of, um, brick. And I’m
20 wondering if, uh, that site would, um, possible to put, uh, a tower above- above this,
21 um, building to- bui- the, um, brick building the Fire Station uses for training. And it
22 is just, uh, on- on the County property, or just adjacent to it, but I’m- I’m- I’m certain
23 that it’s still 500-feet away from Highway 8, and uh- and that building- that would be
24 some structure that would be, I think, sturdy enough to hold towers, because it’s- it’s
25 brick building and then, just wondering if that site would be worth taking a look at.

1 And again, it's in the neighborhood of the Fairgrounds, that- that Marshall had
2 brought up.

3 ALLEN: Well, and- and to answer your question: you know, Parallel Infrastructure is building
4 a tower for multiple carriers. That will house multiple carriers and- and their needs.
5 They're in discussions with all three, at this point. Um, I'm not- I'm not familiar with
6 the constraints of- of each of the carrier networks and- and where they're going- going
7 to need to be. You- you have, uh, the analysis of- of AT&T's needs here. And- and
8 what, um, what I would conclude, if you- if those sites are- are not included in the- in
9 the alternative's analysis, is that they were ruled out because they didn't work for the
10 RF coverage objectives. Either the elevation is wrong, the- there- they may have been
11 ruled out because there's no, um, there was contact with the landlord and the- the
12 landlord was not willing to- to- lease space there. Um, it's outside the distance that-
13 that AT&T requires, or it might be- it, uh, unsuitable for other carriers in- in
14 discussions that, um, you know, that they're having with other carriers. Um,
15 sometimes it- attaching to a brick structure- a brick structure is not, um, really
16 inherently, um, able to carry- carry the load necessarily, and, uh, as stable as- as
17 something, you know, like concrete or steel. Um, you know, the antenna's and the- I-
18 I have- some substantial weight, and- as well as the equipment that's within there. So,
19 um, you know, I think that there might be some engi- engineering concerns there too.
20 You know, we- we looked at the alternatives that were feasible here and, um, and
21 (unintelligible) to make them work. There's, um, I- not being familiar with, you know,
22 where these two are, um, although knowing that- that, you know, much due diligence
23 was conducted since 2018, since your- since your last decision. But, um, I know that-
24 that the feasible alternatives that- that were- that were identified were pursued some-
25 and- and did not work, for one reason or another. Um, and so, those are the alternatives
26 that we presented to you, um, and I think that under- under the Moscow Code, as well

1 as federal law, we're- we're required to investigate, you know, a- a number of
2 reasonable alternatives, but not to rule out every alternative, you know, that- that
3 might exist, you know, in- in- especially if it's- if it's outside the- the search ring for,
4 um, for the giving carrier. So, um, that's a long-winded answer to your question, and
5 I apologize for the length of that. But, um, I assume that neither- neither one of those
6 sites worked for this facility.

7 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

8 ALLEN: Mmhmm.

9 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

10 ALLEN: I don't know if the City of Moscow's been approached by the FirstNet project, here,
11 um, that's- as I said that's a national project. They are identifying, um, uh, a certain
12 frequency bands that they want to make available to all first responders and law
13 enforcement. So, Band 14 will give everyone a priority jump in the event of a- a- of
14 an emergency. So, I don't know if there's a- a role for particular, um, local or, um,
15 law enforcement or, uh, first responder, um, organizations, at this time. Um, but
16 certainly they would reap the benefit of- of the FirstNet network, um, by having access
17 to- to Band 14. And- and, also priority access to the AT&T network in general, during
18 times of- that- that they're- they're not experiencing an emergency.

19 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

20 ALLEN: Sure.

21 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

22 MONSON: -is worked out, is that- is my understanding-

23 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

24 ALLEN: I- I- is the question for me or for- for staff?

25 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

26 MONSON: -correctly that you have- you have approached the City-

1 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

2 ALLEN: That is correct.

3 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

4 BAZZOLI: -done. I will now open it up to anybody-

5 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

6 BAZZOLI: -proposal. Please come up and state your name and address, to the record. And-

7 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

8 HALL: -1334 Wallen Road, Moscow.

9 MONSON: -I think the microphones are cutting out for everybody-

10 HALL: Excuse me.

11 BAZZOLI: Are- are all the mics- can actually our tech guy answer that question: are all of our

12 mics cutting out? Everyone is going to get a chance to speak, and I need to have

13 everybody at the- at the mic. So, maybe have you come up second, after David talks.

14 HALL: I totally agree with the written testimony in the packet by Michael Kyte and I

15 substantially agree with the Renner's testimony. Um, this application appears to be

16 substantially the same as the application of July 30, 2018, which was denied. The

17 structure of a simulated church tower: previous application tower would have been a

18 simulated- would have simulated a tree. Um, personally I think the tree is nicer than

19 the huge-looking tower. Um, that application was denied, appealed, and the denial-

20 the denial was upheld. Um, second point: antenna towers should be separated from

21 the property line of any adjacent property, according to number 6 in the application.

22 And my question is-

23 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

24 HALL: -to. They're separate properties, and that's the way they should- appears to be written

25 up in the Code, for edge effects and so forth. Um, quote "the facility will provide

26 coverage to residential areas not able to be served by existing facilities, due to the

1 topography of the area” end-quote. Uh, the area is served by other tele-
2 telecommunication providers. And later in the application it does say this area already
3 has A&T&T coverage: that seems like they’re saying that they don’t have coverage
4 and then, in a different part of the application, they say they do. Um-

5 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

6 HALL: -and-

7 (AUDIO NOT AVAILABLE DUE TO TECHNICAL DIFFICULTIES)

8 BAZZOLI: Alright, we have- Kim and Gregg can hear us and we can hear them. Our mics aren’t
9 working, so we’ll all have to talk loud. Um, the next person who would care to come
10 up and- to the microphone that’s not working, state your name and address for us
11 please. And, we’ll- we’ll keep moving forward.

12 LEWIS: Well, this will be pretty simple. I’m Jerry Lewis. I live on Park Drive. And, uh, I got
13 this Notice of Public Hearing and I have a neighbor and then a person of the City, and
14 they told me this was the application for 5G. Not 4G. And I’m- I don’t have any
15 problem with the 4G. I have lots of problems with 5G, so when the 5G, I’ll be back.
16 But, uh, uh, as far as I’m concerned, where we- where we live, um, looking over
17 across Seventh street, then there’s a house there. And, I probably wouldn’t like your
18 big tall tower over there to look at, every morning. But it beats the heck out of 5G, so.
19 So, uh, uh, I have no- no- no problem with 4G. That’s my- that’s my telephone, right?
20 And 5G is, uh, I know more about 5G than anybody here, I’ll tell you that. I’ve done-
21 I’ve done so much work with 5G and what countries have it and what counties and
22 what countries have it, and, uh, it’s spreading like wildfire. But there is a bi- a big, uh,
23 health issue with it. And, like you say, if some said it doesn’t have much range, if you
24 don’t put 5G in here, in Moscow, I don’t know how many of these towers or whatever,
25 you’d have to have to do it. I read between 100 and 300-feet is the range. And that’s
26 not very much range under the 5G, so. But, I’ve also read where it’s 1500-meters to

1 6 miles, too, so. If it's not- if it's not obstructed by things. But, uh, no I'm very relieved
2 that it's not the- not as concerned about the health issues, the skin problems, the
3 melanoma that comes along with the 5G. So, I'm a happy camper.

4 BAZZOLI: Thank you.

5 WEISE: My name's Maury Weise. I'm at a 711 Park Drive, um, just across the intersection
6 from this proposed site. And that's- that's Seventh and Park is my address. Uh, is-
7 thank you Steve Bush for bringing up the- clearing the thing about monthly versus
8 weekly checks of those diesel engines. There are three carriers, there's potential for
9 three diesel engines running, and that would make noise. Uh, the permit does say, uh,
10 they'll be checked weekly. As far as need goes: I've been in the neighborhood for 40
11 years. I currently have cell service and internet service: perfectly adequate and fine,
12 from Verizon. So, I'm guessing this is the alternative, but it wouldn't do me, uh, one-
13 one bit of difference, whether it's there, for the service. Um, another thing to keep in
14 mind is why this tower isn't adjacent to the Church, if it's part of the Church complex.
15 I'm guessing that it might be, uh, not as desirable next to the Church somewhere,
16 reflect the complex. It's set aside, near the intersection of Seventh and Park, and
17 conspicuously absent from the presentation of the proposal, were shots from the
18 south- the immediate south, north, and east. But, not west. And my house- that's
19 southwest. So that tree proposal earlier, was a pretty imposing structure. And this
20 tower is just as much so. Uh, just couple of points then, uh, key parts in your City
21 Code is maintain the character of the neighborhood. I like the character of Eastgate
22 addition, subdivision, right now because of the focus on the Park. That triangular park
23 is the center of interest for people who buy in there, and I enjoy that. This looks like
24 a distraction from that focus we have. And secondly, have minimal impact- visual
25 impact on the surroundings. Um, the tree didn't do it- cut it, and I don't think this

1 tower will either. So, you have my, uh, brief notes in your packet. I appreciate this
2 and I'm asking you again, please, to deny this proposal.

3 BAZZOLI: Thank you.

4 SAUNDERS: My name is, uh, Gary Saunders. I live at 1217 Kamiaken Street, just south of the
5 proposed lot. And, uh, first I wanted to say thank you: uh, just a few months ago our
6 community got together and, um, we actually, uh, petitioned the City and it st- it all
7 started with a 10-year old girl who wrote a letter and said I'd like to change the name
8 of the park from Eastgate Park to Triangle Park. 'Cause everyone hears East Gate
9 Park and they think of East City Park. And it's confusing. And we all call it Triangle
10 Park, so let's rename it. We just got a new sign up at Triangle Park, uh, uh, earlier this
11 year where we're really excited about that. Um, I just had a few questions: I- I really
12 appreciate the opportunity to come and- and to listen and to also to speak. Um, I- I
13 appreciate the thoughtfulness, as this is a permanent, uh, possible change to our
14 neighborhood. Uh, once a tower goes up, I imagine it's easier to make it taller, but I
15 imagine to bring it down is a- is a significant effort. Um, just a few thoughts that I've
16 had: um, in addition to, uh, what- what's already been said as far as, I don't see much
17 difference between this proposal and the one that was denied previously. I think the
18 objection last time was related to the significant height difference of the- of the tower.
19 Uh, if we look at- at the surrounding zone structures and look at what the maximum
20 height is for those structures, I think that you'll find that this tower is more than three
21 times taller than- than the allowed value. And I think it's on- it might even be closer
22 to four- four times taller. Um, like Maury said, I- I noticed in the packet that they did
23 have a picture from the south. All of the other pictures seem to be taken from the
24 property lines. I noticed the picture from the south, for one was the only one taken
25 portrait, so that it had much more sky in the picture. I also noticed it- that it wasn't
26 taken from the property line, nor from across the street, nor from one or two properties

1 down, from about- about three properties away from the Church. If you look at that
2 picture, you'll also see that the Church building, which does have a cross on top, is
3 almost completely invisible based on where the tower is. So, it's not like we got one
4 tall structure, and we are putting another tall structure right next to it. They're very
5 separated, and as you're driving up the road, you really can't see the Church. But the
6 tower is going to be right there. Um, some other concerns, just from this evening, is-
7 it seems like the evaluation of the alternate sites was maybe incomplete. Or at least
8 not thorough. I do worry about upgrades. Um, once the tower's up, it sounds like they
9 originally wanted a 100-foot tower. And I wonder what it would take to, uh, for them
10 to come back and say 'hey the 80-foot's good, but now we've got 8G and need it to
11 be 100-feet.' And then finally, what- what I don't see here tonight are people
12 clamoring for better service. Uh, if we had neighbors from- from all around this area
13 saying 'hey we need- we need cell service, we need options', I think it would be
14 different. But we- we don't see that clamoring for- for service here tonight. So, so the
15 claim that this is- that this is necessary, is something that I would disagree with. Thank
16 you.

17 FLEISCHMAN: Hi, my name's Scott Fleischman. I live at 910 Camas Street. Um, the people before
18 me said a lot of what my- my fears were. Um, once it's- it's up, it's hard to take down.
19 It will be easier to expand it. Um, it- it is an eyesore. Um, one thing I wanted to add
20 to the last thing was I'm against this; but I also really need it. Uh, we switched to T-
21 Mobile from Sprint, and our house is a dead zone. If we didn't have Wi-Fi to go on,
22 we wouldn't- we wouldn't be able to talk to anybody. Also, the whole, uh, Mountain
23 View side of the City: I have no signal there. I could use it, but it's an eyesore. Um,
24 so just echoing everybody else. I think, excuse me, that, uh, those are my arguments
25 and maybe point out an irony: is anybody else seeing this as a Tower of Babel? In the
26 Church parking lot? Just kinda seems a little weird; it's out of place. Yeah.

1 BAZZOLI: Thank you. Looks like everybody out in the audience has- has said their piece. So, I
2 will, um, give the applicant one more, um, chance to maybe, uh, rebut any of the
3 comments stated and see if, uh, there's any concerns you can address.

4 ALLEN: Ah, thank you very much. Kim Allen for, uh, for the applicant. Um, let me see
5 here...Um...well, it- it was heartening to know that, um, that Mr. Lewis is okay with
6 us putting up a- a- a 4G tower. Um, and I think we have heard mixed messages tonight
7 on- on people's need for the service, um, here. Um, I think that the- the- the tower
8 was placed, uh, where it is on the lot because it's in proximity to the access, and to
9 where, um, our and- and telephone utilities can be- can be, um, accessed. So, I think
10 that's- that's most likely why the tower is where it is, although it is in proximity to-
11 to the Church. Um, lets see...Uh...While this- while the tower is- is taller than, you
12 know, than the Church, and certainly then, you know, some of the underlying zoning,
13 um, um, allows. Typically, tower- communication towers are allowed to be- to be
14 taller, because of the need to be able to clear that- that threshold of the un- underlying
15 zoning to get a clear, you know, clear sight for signal. Um, and also, ar- ar- like to
16 emphasize that- that- this particular tower is not all that much taller than the- than the
17 top of the Church structure itself. Um, it's certainly not, you know, widely out of- out
18 of proportion to the height of the top of the cross on the Church. Um, and it is the
19 minimum necessary to achieve- achieve the coverage obje- objectives here. Um,
20 so...we have, you know, designed and engineered the- the most compatible, um,
21 solution for this particular property. It is a church use; it is a- a tower that's been
22 designed to- to be part of the Church architecture that one would find on a church
23 campus throughout the country. Um...I think that that...that was the- most of the- the
24 concerns. Um, also though, in- over the break, we- we did take a look at the, um, um,
25 at the search ring and found that the- the properties you indicated: that the Fairgrounds
26 and the- and the Fire Station, are the very, very, very southern edge of the search ring,

1 below the search ring. So, I- I- I expected that's why, um, they were not selected as-
2 as alternatives here. And I think, uh, one- one last thing, if I- if I could, um, I think
3 that, um, Gregg in- in reviewing the record of the proceedings from 2018, um, did not
4 recall a comment, um, or a suggestion to review the Fairground property, um, at that
5 time. Is that right, Gregg?

6 BUSCH: I am looking at the write-up of the- of the Reasoned Statement of Relevant Criteria
7 and Standards and that's- that's what I had to go on from the record: I do not see a
8 suggestion in the decision to use the Latah County as an alternative. I do not see that
9 in this document.

10 ALLEN: So- and so it appears from- from the search ring that's included in your packet, that-
11 that the- the- that these facilities were too far south to be able to serve the coverage
12 objective.

13 BAZZOLI: Okay. Thank you.

14 ALLEN: Thank you.

15 BAZZOLI: With that, I'll close the Public Hearing and open this up for the Board to discuss. Um,
16 I have a question for Staff. Oftentimes, in our reports there's a, um, a diameter circle.
17 And- and this one doesn't have one, but I believe it was David that brought up a
18 comment earlier about the separation, just- of the- the, uh, the third Zoning Criteria.
19 And, well I guess it wasn't the third one, excuse me. The, uh, the seventh one. Let me
20 correct myself again: the sixth one. That talks about property distance? And it says
21 that, um, it would need to be separated from any adjacent property line, that's
22 Residential, by 80-feet. Given the height of the tower, the full height of the tower.
23 And it would need to be separated by any other adjacent property that's non-
24 residential by 40-feet. So, I'm assuming that that height can be less to something that's
25 non-residential. The- there's one house that Marshall clarified that the- that- that the

1 Church itself owns, but that's- who owns it has nothing to do with whether it's zoned
2 residential or non-residential. So, could- could you back to that image?

3 HENNRICH: You want me to go back to the slideshow-

4 BAZZOLI: -and give us kind of an idea of where that tower sits, where 40-feet is, and then where
5 80-feet is?

6 HENNRICH: Okay, so getting to that image here. Whoops! Right here. Okay, so, uh, the- the- the
7 cell tower is proposed right where the green dot is. I know that you probably can't see
8 that on Zoom. But the applicant's well aware of where it is. Um, the distance from the
9 f-, uh, the cl- the closest corner of the site location to this adjacent property here, is
10 just over 100-feet. Um, so, you can take a, you know, a- I wish my hand wasn't
11 shaking, you could probably see a little bit closer. There ya go, alright, okay. So,
12 again, I'm still not that steady. Um, if- roughly halfway through this, um, southern
13 property line, roughly about halfway through that is where the edge of that proposed
14 site would be. Um, from that location to this closest corner of this property here on-
15 on Park and Seventh, to that location it's just over 100-feet. Um, so I would- I- I would
16 estimate that the 40- 40-foot, um, distance would- would roughly sit somewhere, you
17 know, maybe just- just right off of- into the right-of-way. Um, and then obviously, in,
18 you know, around- in a- in a diameter.

19 BAZZOLI: I guess my specific question is: the light green is Residential, so according to that set-
20 back criteria...

21 HENNRICH: The light green here?

22 BAZZOLI: -or actually not the set-back criteria, but...if- if that tower was actually set in the
23 middle of that red square, can you draw an 80-foot diameter to any property line that's
24 light green? I guess that's my question-

25 HENNRICH: You mean the yellow?

26 BAZZOLI: Well-

1 HENNRICH: Because the yellow would be the Residential.

2 BAZZOLI: Yes, yellow/light green, whatever.

3 HENNRICH: It would be hard for me to make that estimation without measuring at this particular

4 time.

5 RAY: If- if you look at Park Drive, that's a 60-foot right-of-way.

6 HENNRICH: There you go, yeah.

7 RAY: That will give you, uh, an- an approximate distance that 60-feet is, add-

8 BAZZOLI: Is the width of Park Drive?

9 RAY: -20-feet-

10 HENNRICH: Correct.

11 RAY: The width of Park Drive is 60-feet.

12 BAZZOLI: So-

13 RAY: Between the line and the line, there. Property line to property line.

14 HENNRICH: So, from- from here- again my n- ugh! Not so steady hands and now changing slides-

15 BAZZOLI: So-

16 HENNRICH: From- from approximately here to the other side of Park is 60-feet.

17 BAZZOLI: So, just from a rough graphic standpoint, if we draw a line straight across the bottom

18 of NB- if we were to underline NB: if that tower was sitting right about there, it would

19 be approximately 80-feet from the house that they own, that property line to the south.

20 HENNRICH: Well, that- this is actually Short's Funeral Home. This is the Nazarene campus over

21 here.

22 BAZZOLI: Right.

23 HENNRICH: So, you're saying if they were to- to place it here?

24 BAZZOLI: But- but the tower- no the tower's going inside the red box.

25 HENNRICH: Correct-

26 BAZZOLI: So-

1 HENNRICH: -in this corner.

2 BAZZOLI: So, it needs to be 80-feet from right there where you're at-

3 HENNRICH: Correct.

4 BAZZOLI: -80-feet from that property line, so 80-feet going up from the bottom red line of the

5 b- of the red box-

6 HENNRICH: From this direction?

7 BAZZOLI: Yup.

8 HENNRICH: Yeah.

9 BAZZOLI: Puts it right about, you know, if we underline NB all the way across there: that's about

10 where 80-feet would be. But it's-

11 HENNRICH: Roughly.

12 BAZZOLI: But, I- yes.

13 RAY: So, (unintelligible)

14 BAZZOLI: But, I guess my point is, based on that criteria, it can't be closer than 80-feet to the

15 bottom of the red box.

16 RAY: They're referring to adjacent property. So, this is all one property in our- in our view.

17 So, if you look at the Nazarene Campus, obviously property lines can't crisscross

18 through buildings.

19 BAZZOLI: Gotcha.

20 RAY: So (unintelligible)

21 BAZZOLI: That actually answers my question. I didn't know that that was not a separate property.

22 RAY: This is all- yeah, viewed as one campus. That's the way we would define a lot within

23 the Zoning Code. No matter how many parcels that are p- put together, as long as

24 they're under private-

25 BAZZOLI: Per- that-

26 RAY: -ownership, it's all considered one property.

1 BAZZOLI: -that answers my question. So, basically Sixth, Park, Seventh, and Mountain View:
2 that's one property?

3 RAY: That's essentially one property. Yeah, we're viewing the- the distance from the tower
4 to any adjacent property. So, it would be across Park, or across Seventh.

5 BAZZOLI: Okay.

6 RAY: Which is about 100-feet, as Aimee had indicated before.

7 BAZZOLI: K.

8 HENNRICH: Apologies, I didn't understand the question.

9 BAZZOLI: Well, I- I didn't explain it well! Marshall.

10 COMSTOCK: Aimee or Mike: in the Neighborhood Business Zone, what's the maximum height of
11 a building?

12 RAY: Uh, Neighborhood Business I believe is 40-feet, within that Zone. But I can give you
13 a quick answer.

14 COMSTOCK: 40-feet without a Variance.

15 RAY: Uh, 40-feet. We do have an option of, uh, that we insert an option of a Conditional
16 Use Permit, that could go higher for institutional-type buildings. So, they would be
17 able to apply for- so, say, uh, an institutional use, um, or to propose a building there,
18 they could go through a Conditional Use Permit process and be able to achieve higher
19 than the 40-feet. But, yeah Neighborhood Business is 40-feet.

20 COMSTOCK: 40-foot and they could get a Conditional Use Permit. Is there a maximum they can
21 go?

22 RAY: Uh, there isn't a defined maximum, I don't believe. But let me double check on that.

23 BAZZOLI: Don't set-backs allow you to gain some height as well? The further back you go?

24 RAY: At one point in time they did. But, we- we had eliminated that from the code when we
25 converted that to the Use Table. So, yeah, 'exceedance of maximum building height
26 for permitted non-residential uses; Neighborhood Business is a- a Conditional Use

1 Permit'. So, not only telecommunications towers, but other structures, uh, that are
2 non-residential needs to go through a Conditional Use Permit to achieve higher than
3 that. Obviously, if the Nazee- Nazarene Church were to be built today they would
4 have to- to go through that process, as they didn't (unintelligible) in the 60's for
5 controlling height for the- the dome.

6 THOMSON: (unintelligible) heard a couple people's concern that once the tower's built, it can keep
7 being raised and raised. I assumed that it would require another Conditional Use
8 Permit if they want to (unintelligible) feet high?

9 RAY: Correct.

10 THOMSON: So, it would have to come back to us. So, it's just not, once it's built they could just
11 keep going up.

12 RAY: Yeah-

13 THOMSON: Obviously, it requires City and the Board's approval.

14 RAY: Yeah, any modification of a tower of that height, um, even if they were to reduce the
15 height without, uh, go through a Conditional Use Permit process. Correct.

16 BAZZOLI: I have- I actually kind of disagree with that thought, and that thought that's why it's
17 not adjacent to the Church and why it actually couldn't be built on top of, or in
18 addition to, the Fire Department thing. And everyone here knows I'm not a structural
19 engineer, but I know enough that- that the foundation is a significant structural item
20 that this tower has to have. And so the deep- it has to go deeper to deal with overturn
21 and wind, and so, that structural foundation's going to be built based on what it's
22 made of and how high it goes. So, you can't just keep going higher and higher, without
23 going deeper and deeper with the foundation. The- the tower at the Fire Station: that
24 foundation is probably set for three, maybe four stories. You couldn't keep building
25 on it. Going right up adjacent to this- to the Church, you could potentially do that, but
26 then you'd have to tie into their existing foundation as you go deeper and deeper. And

1 so, it- it becomes, kind of structurally incon- construction-wise, without undercutting
2 that footing to go deep and under it. So, um, I think from a structural calculation
3 standpoint, um, when they submit the plans they'd have to show the structural calcs
4 and those will only support a certain amount of height. So, from that standpoint,
5 knowing just enough to be dangerous with structural engineering, I don't think that
6 they could build this tower and then add to it later, unless the structural footings could
7 support taller to begin with.

8 COMSTOCK: Yeah, Joe's absolutely right. I inspected most towers in Latah County and the footings
9 on those towers are immense. And when they're big, they can't just be stuck on a Fire
10 Department-

11 BAZZOLI: Yeah.

12 COMSTOCK: -training tower if they didn't- would not support it.

13 BAZZOLI: So, that- I suppose, of all the concerns tonight, I think that one I could- I could fairly
14 say is- is- kind of dispel that one. Because, once they it at the right height, I- I don't-
15 you'd have to completely rebuild it from the ground up to do. The other comment
16 from the flip-side of that is, though once you build it, it's- it's not coming down.
17 Someone would have to pay to take it down. So, um, that's the permanence of it and
18 that- that was another concern, and- and it has to have, at 80-feet, it has to have three
19 users. And so, my concern is what happens when one of those goes out of business or
20 changes names and- and- or is bought up by someone else and now you only got two
21 but you're required to have three. You can't not use it-

22 MONSON: Are you required to have three or-

23 BAZZOLI: -you -you are going to-

24 MONSON: -are you required to be available for three?

25 BAZZOLI: I- I- I don't know and that's-

26 MONSON: Exactly-

1 BAZZOLI: -that's -that's kind of a-

2 MONSON: (unintelligible)

3 BAZZOLI: -a verbiage thing and I don't know what the answer to that is.

4 MONSON: I think the answer is you're required to be able to offer services to three, but not

5 necessarily have three.

6 THOMSON: (unintelligible) since the last time we looked at (unintelligible)

7 MONSON: I- I can't remember who was on Board last time, but- but I remember that was part of

8 the deal was, it- it- you just can't have- I- I think the theory is that you don't want to

9 have just towers popping up all over and so to try to-

10 BAZZOLI: -condense them-

11 MONSON: -try to consolidate you want to- you want to-

12 BAZZOLI: (unintelligible)

13 RAY: Yeah, we just require the space be available-

14 RAY: -for that opportunity and Mark's exactly right, that we don't want a proliferation of

15 towers throughout town, so if we require a co-location of up to three carriers per tower,

16 then that, you know, dispels that up to a certain extent.

17 BAZZOLI: And the separation of carrier's kind of pushes the height up. So, um, I- I guess the

18 other thing to facilitate our discussion: the applicant mentioned four criteria but I just

19 want to re- remind us, we actually have seven conditional use criteria that we address.

20 And one of those actually is required to address the eight, um, of the zoning things

21 that Aimee covered. So, um, as- as we- we talk about this, whether we approve it or

22 deny it, we- we're doing that based on our seven Relevant Criteria for Conditional

23 Uses.

24 HENNRICH: If I can also interject: so, it's the- the typical seven for Relevant Criteria, but also, um,

25 a Conditional Permit of this type also has not- an additional four criteria, that are also

26 listed in your staff report.

1 BAZZOLI: Oh, okay. So, the four that- that, um, Kim addressed and then if I read six of our- six
2 of our seven, that has to meet, um, Design Development Standards. At- at that point,
3 I'm assuming it also has to meeting the eight that you covered under the Zoning
4 requirements.

5 HENNRICH: Correct.

6 BAZZOLI: Yeah. So, who'd care to take a stab at the seven that we've got first?

7 THOMSON: Well, let me take a couple (unintelligible)

8 BAZZOLI: Fair enough.

9 COMSTOCK: One of the reasons I asked Mike what the maximum height of a building in a
10 Neighborhood Business was because, even though it is a tower, it looks more like a
11 (unintelligible) and it meets the definition of a building. So, I guess, if we could
12 consider it a building and a tower, it would be under the same Conditional Use Permit
13 as tonight then. (unintelligible)

14 RAY: Correct- correct, yup.

15 COMSTOCK: So, that was one consideration. Um, a couple of things that- that concern me a little, I
16 guess is one, I feel- I feel there are better sites for a structure this size and this height,
17 out of a residential zone. Even though it's a Neighborhood Business, it's essentially
18 surrounded by Residential. I feel there are better sites that were not explored. And that
19 certainly could be done. Another thing that disturbs me is, even though it's in a
20 Neighborhood Business, this is a Residential area as far as noise, (unintelligible)
21 duration, things like that. Um, that- that bothers me. I think that, my own personal
22 opinion, that- that cell towers are better sui- suited in commercial or industrial-type
23 zones, and not (unintelligible).

24 BAZZOLI: So, I- I-

25 MONSON: I- go ahead.

1 BAZZOLI: I agree with Marshall. But I also disagree with your favorite location because that-
2 that same group of residents would complain that now, not only are they dealing with
3 hockey puck noise, but now they'd be looking at a tower with no trees: because the
4 Fairgrounds really doesn't have any. So, now all those adjacent properties, from a
5 sightline, you can actually see further and higher. Because a tree's not blocking you.
6 So, I agree with your premise, but I disagree with your site. But, that's- that's just an
7 opinion.

8 MONSON: Well- well, what I was going to say, and I- and we've heard testimony about, uh, those
9 in the immediate neighborhood don't necessarily need- well, I guess with the
10 exception of one individual. Um, and, uh, uh, I have the same issue with, uh, Sprint/T-
11 Mobile that you do, since the- since the merge, I got to tell you that the service is
12 awful. But, we're not dealing with- with Sprint/T-Mobile in this direction. But, as I'm
13 looking here and- and- and I'm- I'm trying to take an objective view on- on what's
14 happening. Um, I- I'm looking at the maps that were provided and it- it seems to me
15 that- that the target here isn't necessarily that neighborhood, but it's the neighborhood
16 north, ah, where there's a huge gap in coverage. Uh, I understood the applicant to say,
17 um, they looked at these other places: I know that there's the- the water tower; I know
18 that there's been a lot of problems with the water tower. I think last time, I want to
19 say if I'm remembering correctly, part of the problem: they couldn't put something
20 on top because remember it has that flexible top, so that wouldn't support it. They
21 tried to do something around it, uh, I'm reading here that they tried to get a different,
22 uh, tried to get a different building up there. The City didn't approve it. I don't have
23 any history on what the City's doing with it. Um, but as I'm looking here at what
24 they're proposing, um, you know, they're a product of RF and- and it's a product of
25 RF and propagation. Um, and, um, I understand why they're doing what they're doing.
26 I understand, uh, there comment that if they were down below the- the fairgrounds, I

1 think that puts them below really towards the bottom of what their target area is. So,
2 I- I- I accept what they're trying to do is put this in an area that's going to have the
3 most benefit to everybody, and- and I also am looking at their map, accept that the-
4 the- the immediate neighborhood is fine with regard to AT&T. I don't have any
5 trouble believing that everybody there has- has great cell coverage. Although I will
6 represent, and I know that one of individuals here, on T-Mobile: I can drive down
7 Sixth Street right past the project site, between Sixth and Blaine, and have absolutely
8 no service there for whatever reason. Don't know why, but, um, but that's just- that's
9 T-Mobile and that's unfortunately who I've got to have at present. But that doesn't
10 appear that's a problem with- with AT&T. So, um, and then going back to last time
11 we were here, we were talking about a- a- a tree that was just completely out of place.
12 And- and- and I seem to be recall that was one of the- that was one of the driving
13 problem was that we had, and it was the idea that whether that was in harmony with
14 the- with the neighborhood. I think that's Criteria Number 2. And I think that the giant
15 tree out there, uh, was pretty fairly not. Um, this one does a better job. I'm still
16 struggling with it a little bit, but I think it- it's closer to the mark of- of what we were-
17 we're dealing with. The other thing I'm aware of is, I think if we wanted to put the
18 same thing, just a short distance to the south, by the Fairgrounds, I think we're going
19 to have the same conversation. I mean, whether or not it's- it's on the Fairgrounds,
20 whether or not it's here, uh, I imagine that it wouldn't surprise me if many of the same
21 people who are here tonight objecting would be objecting again for- for exactly the
22 same reasons. Um, and I think, as I understand the- the applicant- the problem that
23 they have is from the RF and propagation and- and coverage perspective. That doesn't
24 work as well down there. So, uh, they- they kind of are where they are. I think, uh,
25 again I'm trying to look at this objectively. I think, uh, there, uh, I- I- I- again, I can't
26 speak to what's going on with the City. Um, but it sounds like that's not been

1 productive and- and, uh, their- their back with a- a proposal that, from their
2 perspective, makes more sense. Uh, they're trying to put something in that, uh, that
3 looks it- looks consistent with what we're doing. I- I- I- would think that a church
4 tower is more consistent than a- a really tall pine tree. I really- I- I- honestly, you
5 know, last time it was way off the mark, I thought, and- and this time it's- it's closer.
6 So, anyway, those are just some of my thoughts that are kicking around in my head
7 right now.

8 THOMSON: I- I tend to agree, Mark. I- I know we've heard a couple people say the same things:
9 how they feel it's the same project as last time. Since we denied it last time, then why
10 not deny this one. I do see it differently than a ugly big pine tree. It does seem to me
11 to more conforming to the- for this particular property. Considering a lot of the
12 comments Marshall made, which are always valid, seems to me that- that the City,
13 um, when it prepares its zoning can allow for such construction, uh, in this Zone with
14 the following development standard. It's thought through how, um, some
15 requirements and standards that are met, should be accessible and, as I look through
16 all eight of them, um, they're all addressed. And, if I have a little bit of a hard time
17 saying, um, it's not consistent, whether that their able to meet the noise objections,
18 the size of the antenna tower, the aesthetic considerations in a manner that seems, uh,
19 convincing to me. So, uh, that's kinda the criteria I kinda- kinda lean to your, uh,
20 appease my thoughts and, uh (unintelligible).

21 BAZZOLI: Mike.

22 RAY: I just wanted to add one point of clarity with the- as far as the Fairgrounds, that's all
23 zoned Residential. So, it's an R-3 Zone. This is actually a Commercial Zone, it's
24 Neighborhood Business. So, I didn't know if that played into your discussions or not,
25 but I thought I'd...point that out.

26 BAZZOLI: Thank you.

1 MONSON: And- and I think my- my purpose of- of bringing that up was- I- I just, I don't think
2 that the discussion would be any different, uh, from a practical point of view and from-
3 from neighbors not wanting. And I think- I think we're- we would be dealing with the
4 same-

5 COMSTOCK: Well-

6 MONSON: -same thing as before.

7 COMSTOCK: -even though it's zoned that, the actual use is not residential. You- you might have
8 somebody complain, but if you put it in the middle of the Fairgrounds it's a lot further
9 away from the residents.

10 BAZZOLI: Steve, thoughts?

11 BUSH: Well, I, um...it- it seems to me that its, uh, its, uh, like David was saying: it's the
12 same project, uh, with- with, uh, no real significant changes other than the- the type
13 of structure that's going there. Its not any difference in height. Um, it might be, um,
14 wider and larger, actually, than- around than the tree. Um, and I- my thought is- has
15 been, um, you know, putting myself in the neighbor's shoes: what would I think?
16 What would I- how would I feel? And, I'm not so much opposed to the- the building
17 itself as I am opposed to the, uh, the maintenance, uh, part of it. Running the- running
18 the, uh, generators on a weekly basis. And, uh, and to me that seems like, um,
19 excessive to, um, ask people to put up with that on a weekly basis? Don't know when
20 they are going to do it. Um, they didn't say- say. There's no indication. Um, I do- I
21 do think that, um, there probably are some alternative sites that they haven't looked
22 at, that would be more user-friendly. Um, and if they're going to get something further
23 north- if they're looking for trying to get, um, coverage further north, going to the
24 Fairgrounds isn't the answer. Um, but you wouldn't have to worry about...you know,
25 the trees or any- anything else there. There are shrubs, you know, to- to, uh, hide this,
26 uh, this tower. Um, because it would be- could be a freestanding, um...facility without

1 having to- to- to have it near any other structures. But, um, again I think that if they
2 wanted to go further north, I think that there's some other sites to the- to the north that
3 could be, um, utilized, and would be more conducive to, um, the- the fact that they
4 wouldn't have close neighbors. Uh, just thinking through town a little bit of where-
5 where those might be and especially if they wanted to, again, go- go to the north. And,
6 uh, and try and reach those northern customers, northern part of town. Um, and my
7 other concern is, uh, um, some of the neighbors are saying is there- is there really- is
8 there really a need for it, because, uh, everybody that's in the area, um, is already
9 being serviced by either another carrier, or, um, have an- there's not people here that
10 are AT&T users saying 'we need this service'. That's a little concerning to me, that
11 there's nobody here saying it- 'that I could really use this service' and I- I suppose
12 they don't know that they could use this service. Maybe they're just not aware of that-
13 what this is going to provide for them, that would be something they would really
14 excited to have. I don't know. So, lot of different ideas. Lot of different thoughts. But,
15 I- I really, um, can't pinpoint my- my pros or cons. I'm certainly a fence-sitter on this
16 one.

17 THOMSON: Is- is whether or not there is a need relevant for this? It's not in the Design Crit- it's
18 not one of the criteria- it's not one of the Relevant Criteria and Standards. I mean- I
19 mean, uh, I have to assume that a company wouldn't install something and go and
20 build it if they didn't think it would serve a purpose for the community, and that's the
21 whole purpose of this thing. And I don't know how we would go out and test all of
22 the uses. I guess it's not on here that they are going to benefit from it (unintelligible).

23 BUSH: Probably true.

24 THOMSON: One of these days, they're all going to see that there's five bars instead of two, and
25 they don't know why, but that- that (unintelligible).

1 BAZZOLI: I guess my thought is, in looking at these seven criteria we're- we're- we're really all
2 talking about items 2 and 3. Um, 2 has- having to do with whether it's harmonious
3 and- and in character with where it's at. And 3 as to whether or not it's a nuisance.
4 Um, the decibel level, um, it- it would have been nice if someone had addressed, you
5 know, really a- a comparison as to what 45 decibels really is. Um, that can be
6 mitigated, but not with a chain-link fence. So, I...I was almost going to dismiss 3,
7 because it can be addressed but this doesn't really address it. So, we're really back to
8 2. The- the other- the other five, um, the answers yes, it- it- it complies and- and even
9 the first 1, as long as it meets, um, all- all these other conditions. It's a- it's a permitted
10 use. So, really, we're down to number 2 and that is: is it harmonious with where it's
11 sitting? And that's asking all of us what's good art, and every single one of us is going
12 to have a different- a different answer. Um...

13 MONSON: So, Joe, I think on number 3, on the- if we are looking at that, I think that we can- we
14 can deal with- it sounds to me like the nuisance would be the noise of the generator
15 when they're- they're doing that. And- and I think-

16 BAZZOLI: Yeah, and I think that's a-

17 MONSON: -that's relatively-

18 BAZZOLI: A simple screen wall with a- with a fence. I- I say it's got vegetation around it, but
19 the- it could be a condition. Mike?

20 RAY: And- they're proposing a masonry wall. So, that's required as part of the, uh, design
21 guidelines instead of solid-

22 BAZZOLI: K, so I missed that-

23 RAY: -brick-

24 BAZZOLI: -I- I read a chain-link fence somewhere. And so, I misunderstood-

25 RAY: I believe that was initially what they had proposed, um, but we worked with the
26 applicant to correct that-

1 BAZZOLI: Okay.

2 RAY: -and now they are proposing a masonry wall.

3 BAZZOLI: So- so, again, I- I kind of thought 3 could be dismissed, because it could be dealt with,

4 which we could have done with a condition, but we don't need to now. So- so, really,

5 we're back to item 2. Is- is it in harm- in harmony with- with where it's at?

6 THOMSON: Harmony with the neighborhood, or harmony with the Church? But if it...they made

7 an effort to make it look churchy.

8 MONSON: It- it- it's far closer to than what we were dealing with-

9 THOMSON: Yeah.

10 MONSON: - in the past.

11 BAZZOLI: I need someone to make a motion. Um...I- I guess before someone does that, um, the

12 applicant mentioned they'd- they'd done- and this is going to be directed to the City,

13 but they'd pursued multiple options on City-type properties. Is there- is there a reason

14 why those didn't work out? Other than, obviously for the same structural reasons: you

15 can't mount something tall and heavy on top of a water tower. I don't know if,

16 adjacency is an issue? Or other City properties if- if those were even addressed by the

17 applicant, with the City?

18 RAY: Uh, you know, I know the Vista tank, their issues with that I think Mark had eluded

19 to, just the, uh, kinda, the mem- soft membrane bladder to that. And then, uh, really

20 not really being able to put it- you know, one of the- the ones that are mounted to

21 water tanks are- they have the- the railing, like where you walk around the outside.

22 And that's another aspect of Vista: it doesn't have that hard railing where you could

23 just mount the antennas to, or else you probably would have, you know, seen multiple

24 carriers up on that tower. So, um, I know that those are the issues with the tower itself.

25 I don't believe the City is willing to enter into a lease for a stand-alone tower is why,

26 uh, that one, you know, that one didn't proceed.

1 BAZZOLI: That makes sense.

2 THOMSON: Okay, I'll get a st-- I'll take a stab at this. Uh, I move to- move- move a Conditional

3 Use Permit application for the proposed, uh, 80-foot tall Wireless Communication

4 Facility and direct the Staff to prepare a Reasoned Statement and Relevant Criteria

5 and Standards.

6 BAZZOLI: I have a motion; do I have a second?

7 MONSON: I'll second Tim's motion.

8 BAZZOLI: I have a motion; I have a second. Since we have an odd number, someone has to be

9 the bad guy. I will take on that role, unfortunately. So, I have a motion; I have a

10 second. Mark?

11 MONSON: Aye.

12 COMSTOCK: Nay.

13 BAZZOLI: Marshall?

14 THOMSON: Aye.

15 BUSH: Nay.

16 BAZZOLI: Nay. So, the motion does not pass.

17 COMSTOCK: Joe- I think you're right about the criteria, Joe. I think the- the noise can be mitigated

18 one way- one way or another.

19 BAZZOLI: And- and Mike clarified that they had addressed that. This is really coming down to

20 the harmony of- of where it's being sited.

21 COMSTOCK: I think that Criteria number 2 of being in harmony is (unintelligible).

22 THOMSON: Not sure it won't. Wherever it- built it- unless it's outside of the City, in the county.

23 COMSTOCK: Depends on where it's zoned then.

24 THOMSON: Well, I think where it's zoned is where its supposed to be (unintelligible) across the

25 street (unintelligible).

1 BAZZOLI: I- I hesitate to speculate sites: I can think of a few but, based on t- on how Kim
2 answered my question earlier about sometimes a 95-foot tower doesn't do it,
3 sometimes a 30-foot tower doesn't do it, sometimes an 80-foot one does. I- I don't
4 understand the signal wave and how that has an impact on- on its height. Um, but, that
5 just I- I- I don't see how- how it fits the harmony aspect of our- of the criteria that
6 we're given. Even though it meets the other eight Zoning Standards.

7 COMSTOCK: Well, I'd make a motion- I mean, if that motion failed, do we need a motion to deny?

8 BAZZOLI: Ah- ah- we haven't denied anything in so long I think that actually is the appropriate
9 thing to do, is it not?

10 RAY: Well, that motion failed, so you would need another motion-

11 BAZZOLI: So-so-

12 RAY: -and a second-

13 BAZZOLI: So, we have to go until we have a motion that passes. So, Marshall you are correct.
14 We- so, would you care to make a motion?

15 COMSTOCK: Uh, I make a motion to deny the Conditional Use Permit and direct Staff to prepare
16 the Relevant Criteria and Standards. Um, then, my only hesitation is that I don't think
17 it's time. Wouldn't don't feel good about trying to force through that Criteria Number
18 3.

19 BAZZOLI: And- and I agree with the Staff providing the Relevant Criteria and Findings of Fact
20 because, in the event of an appeal, that information is what they're going to want to
21 rely on. So, I have a motion; do I have a second?

22 RAY: Yeah, do you have any more clarification on what specifically is not in harmony?

23 COMSTOCK: Um, yes-

24 RAY: (unintelligible)

25 COMSTOCK: - since I made the motion, specifically, I- I feel that it's, uh, that it's more than a tower:
26 it's more of a building. I think that it appears, uh, it sticks out (unintelligible) and

1 would not fit in the neighborhood (unintelligible). It's taller than any other structure
2 around there. And it- it does not do well. Like, to me it does not look like part of the
3 Church, to me it looks like a guard tower. Considering the size of the- of the tower.
4 BAZZOLI: So, the height, basically, is what's-
5 THOMSON: (unintelligible) it's a building.
6 MONSON: (unintelligible)
7 BAZZOLI: Does that help? So, I have a motion; I have a second?
8 BUSH: I'll second it.
9 BAZZOLI: I have a motion; I have a second. We'll do the same thing: Mark?
10 MONSON: Nay.
11 BAZZOLI: Marshall?
12 COMSTOCK: Aye.
13 BAZZOLI: Tim?
14 THOMSON: Nay.
15 BUSH: Yes.
16 BAZZOLI: Yes. So- so, it passes through to two. So, we have a motion that passed. K, that gets
17 us to what was our second, um, item and that is Election of Officers for the year...

BOARD of ADJUSTMENT



Joe Bazzoli
Commission Chair
BOA@ci.moscow.id.us

Public Hearing
~ Agenda ~

Aimee Hennrich
Staff Liaison
208.883.7095

<https://www.ci.moscow.id.us/581/Agendas-and-Minutes>

Monday
March 29, 2021

7:00 PM

Council Chambers
206 E Third Street

WELCOME AND ATTENDANCE

REGULAR AGENDA

1. Approval of November 19, 2020 Minutes (ACTION ITEM)

PROPOSED ACTIONS: Approve minutes as presented; approve minutes with amendments; or provide staff further direction.

2. Election of Officers (ACTION ITEM)

PROPOSED ACTION: Nominate and elect a Chair and Vice Chair for 2021.

3. Public Hearing: Proposal for a Conditional Use Permit at 1400 E Seventh Street – LUP2021-0004 (ACTION ITEM)

A Conditional Use Permit application for a proposed 80 foot tall Wireless Communication Facility (WCF). The WCF will accommodate three carriers within a fully enclosed 800 sf lease area and would resemble a church tower.

PROPOSED ACTIONS: Conduct the public hearing upon the proposed Conditional Use Permit (CUP) request and upon consideration of any testimony received, approve the proposed CUP and direct Staff to prepare a reasoned statement of relevant criteria and standards; or approve the proposed CUP with conditions and direct Staff to prepare a reasoned statement of relevant criteria and standards; or deny the proposed CUP and direct Staff to prepare a reasoned statement of relevant criteria and standards; or take other action as deemed appropriate.

REPORTS

ANNOUNCEMENTS

UPCOMING EVENTS/MEETINGS

ADJOURN

NOTICE: Moscow City Council and Commission meetings can be televised, videotaped, and/or recorded. Individuals attending the meeting who require special assistance to accommodate physical, hearing, or other impairments, please contact the City Clerk, at (208) 883-7015 or TDD 883-7019, as soon as possible so that arrangements may be made.

COMMUNITY PLANNING AND DESIGN DEPARTMENT
STAFF REPORT

HEARING DATE: Monday, March 29th, 2021

GENERAL INFORMATION

Hearing Body: Board of Adjustment

Subject: 1400 E 7th Street – A Conditional Use Permit application to allow the construction of a wireless telecommunications tower/facility within the Neighborhood Business (NB) Zoning District.

Attachments: A. Public Hearing Notice – published in the Moscow-Pullman Daily News on Saturday, March 6th, 2021

B. Conditional Use Permit Application

C. Project description

D. Site Plan

E. Elevation Plans

F. Antenna Details

G. Photo Simulations

H. Notarized Commitment to Collocate

I. Relevant Criteria and Standards Worksheet

J. Written Public Comment

Prepared by: Aimee Hennrich, Planner I

STAFF REVIEW

Proposal: The applicant, PI Tower Development LLC, is requesting a Conditional Use Permit (CUP) to allow the construction of an 80' Wireless Communication Facility (WCF) located at 1400 East 7th Street. The proposed facility would be located on the property of the Church of the Nazarene and would accommodate three carriers within a fully enclosed 800 square foot lease area. The facility would resemble a church tower with fully enclosed

antennas. The subject property is located within the Neighborhood Business Zoning District where Antenna Towers are a conditionally permitted use .

Background: On July 30th of 2018, Pro Land LLC applied for a Conditional Use Permit to construct an 80 foot tall Wireless Telecommunications Facility at 1400 E 7th Street. The application proposed that the facility would be located on the property of the Church of the Nazarene and would accommodate three carriers within a fully enclosed 800 square foot lease area. The facility design in this application was a stealth-style mono-pine tower intended to resemble a tree. The matter came before the Board of Adjustment on November 18th 2018. The Board of Adjustment denied the application finding that the proposed WCF was not consistent with the existing character of the neighborhood and would not be in harmony with land uses surrounding the subject property. The surrounding neighborhood is primarily residential with a few commercial uses nearby. The Board found that the scale of the proposed tower is significantly larger than other structures or trees in the surrounding area.

On November 27th 2018, Busch Law Firm PLLC filed an appeal on behalf of the applicant. On January 7th 2019, City Council reviewed the appeal during a regularly scheduled meeting and sustained the decision to deny the application.



Aerial

Site and Area Land Use: The subject property is an approximately 231,678 sq. ft. in size. Despite being split up into eleven (11) parcels, the site itself, which occupies an entire city block, is completely owned by the Church of the Nazarene. The 800 square foot subject property, 20' x 40' in size, sits on the southwest corner of the block. Adjacent land uses include residential properties to the north and south of the site, while the Church of the Nazarene lies to the east and Short's Funeral Home to the west. At the northwest corner of Sixth Street and Mountain View Road is a commercial orthodontics and doctor's office.



Zoning Map

Zoning: The subject property is located within the Neighborhood Business (NB) Zoning District. Adjacent properties to the east and west are also within the NB Zoning District. Adjacent properties to the north and south are within the Medium-Density Residential (R-3) Zoning District. Section 4-3-5(4)(b) of Moscow City Code establishes that the installation of antenna towers in excess of thirty five (35) feet in height requires the issuance of a Conditional Use Permit (CUP). The proposed tower is eighty (80) feet in height. The Zoning Code also requires the following development standards:

1. ***Setbacks: No antenna towers that exceed sixty feet (60') in height shall be located within 500 feet from the State Highway 8 and 95 rights of way.***
The proposed tower, located within the Neighborhood Business (NB) Zoning District, would be located approximately 3,400 feet north of the State Highway 8 right-of-way.
2. ***Security: Every telecommunications facility shall be protected from unauthorized access by appropriate security measures.***
The proposed site is enclosed by a six foot (6') high fence and the ancillary facilities are fully enclosed within proposed site.
3. ***Lighting: Every antenna and antenna tower shall not be lighted unless required by the Federal Aviation Administration or other state or federal agency having such authority, and such lighting shall not be more than the minimum required by such agency. Antenna tower site security lighting shall be designed and installed so as not to glare or trespass onto neighboring lands or roads, and shall be provided only as approved by the Zoning Administrator or Board of Adjustment.***
The plans submitted do not show any lighting on the new antenna tower.

4. **Noise Reduction:** *Noise generating equipment shall be sound-buffered by means of baffling, barriers, or other suitable means to reduce sound level measured at the property line to forty-five decibels (45 dB).*
Construction will create some noise, but the noise is temporary. There are up to two proposed diesel generators that would be double contained and will be used in the event of a power outage. The generator will run once a week for approximately one hour for maintenance. If noise becomes a problem, then a decibel reading will be taken at the property line and Staff will take corrective action if the reading is too high.
5. **Signage:** *The placement of signage on antenna towers is prohibited, except for the placement of security signage, which shall not exceed six (6) square feet on each side of the antenna tower and shall not be located higher than six feet (6') above grade. Additionally, one security sign not to exceed one (1) square foot may be provided on each fifty feet (50') of wall or fence enclosing the facility.*
There is no proposed signage on the antenna tower.
6. **Antenna towers shall be separated from the property line of any adjacent property zoned for residential uses at least a distance equal to the height of the antenna tower, and shall be separated from all other adjacent property lines in other zones at least a distance equal to one-half (1/2) the height of the antenna tower.**
The height of the proposed tower is approximately eighty feet (80'), therefore the tower must be separated at least forty feet (40') from adjacent residentially zoned properties. The only adjacent property outside of the Church of the Nazarene campus that is Zoned R-3 is located on the corner of Park Drive and Seventh Street. This property is approximately 100' from the proposed site.
7. **Aesthetic Considerations:** *Antennas and cables shall be of a color identical to or closely compatible with that of the structure to which they are attached. Telecommunications facilities shall be surrounded by a minimum 6-foot-tall wall or solid or slatted fence.*
The proposed facility is designed to resemble a church tower and is meant to maintain the character of the church campus. Current plans show a six-foot (6') decorative wall constructed of brick, stone, or textured concrete. Current plans also show a Type A Landscape Buffer Yard on the western side of the proposed site that will shield the site from Park Drive. All other development standards under this section of the Code shall be met as part of the permitting process.
8. **Any new or relocated antenna tower eighty feet (80') or greater in height shall be designed and constructed to accommodate at least two (2) additional users unless a larger number of users needs to be accommodated as indicated by the response to the Notice provisions herein. As an alternative, a smaller tower may be approved if the tower owner commits in writing to "swap out" to a larger tower when needed to allow co-location space for additional service providers. A notarized written commitment to shared use as specified in subsection F.1 above shall be submitted to the Zoning Administrator by the**

antenna tower applicant. The failure of the owner of an antenna tower built with a capacity for shared use to negotiate in good faith with potential users shall be unlawful and shall be a violation of this Ordinance and, among other remedies of the City, shall be just cause for the withholding of the issuance of future antenna tower permits to such an owner as well as revocation of antenna tower permits for any antenna tower on which co-location is refused or unreasonably hindered.

The proposed facility is designed to accommodate three (3) carriers. The applicant has provided a notarized written agreement to share location.

Comprehensive Plan: Chapter 2, Community Character and Land Use, designates the subject property as Public and Semi-Public. Public and Semi-Public designated areas provide for government buildings and properties, as well as semi-public or institutional uses such as churches, schools, and hospitals.

Chapter 3, Community Mobility, identifies Seventh Street and Park Drive both as local neighborhood streets.

A goal of Chapter 6 is to, “Enhance and strengthen the regional economy utilizing the strengths and assets of the region.”

Streets and Access: The subject property is surrounded by the property of the Church of the Nazarene. The closest access point to the WCF will be from Park Drive, just north of the house located on the southwest corner of the property.

RELEVANT CRITERIA AND STANDARDS

- 1. The proposed use (is/is not) a conditionally permitted use within the Zoning District.**
- 2. The character of the proposed use (will/will not) be in harmony with the neighborhood and surrounding land uses.**
- 3. The proposed use as approved, or as approved with conditions, (will/will not) generate nuisances that would be injurious or detrimental to the adjoining properties or the neighborhood (including, but not limited to, noise, dust, glare, vibrations, odors, and the like).**
- 4. The location, design, and size of the proposed use (will/will not) be adequately served by existing streets, public facilities and services.**
- 5. The proposed use (will/will not) endanger the public health or safety if located where proposed?**
- 6. The proposed use (meets/does not meet) all applicable development standards of the Zoning Code.**

7. The propose use (will/will not) be in conflict with the Comprehensive Plan.

In addition to Relevant Criteria and Standards, four additional criteria are required to be fulfilled before the issuance of a Conditional Use Permit for an antenna tower. These criteria include:

- 1. No existing antenna towers or antenna support structures within the necessary geographic area for the applicant's antenna tower meet the applicant's requirements considering: a) height, b) structural integrity, or c) that there are other prohibitive conditions that render existing antenna towers or antenna support structure within the applicant's required geographic area unsuitable.**
- 2. That the design of the antenna tower, including the antennas and ancillary facilities, minimizes visual impact and other complies with provisions and intent of this Section.**
- 3. That the proposed antenna tower location minimizes the number and/or size of antenna towers or antenna support structure that will be required in the area.**
- 4. That the applicant has not previously failed to take advantage of reasonably available shared use opportunities or procedures provided by this Ordinance or otherwise.**

RECOMMENDATION

Staff recommends **approval** for the application for a Conditional Use Permit at 1400 E 7th Street for a proposed 80' Wireless Communication Facility (WCF) with no conditions.

Board shall direct staff to prepare Relevant Standards and Criteria to be reviewed at an upcoming meeting.

NOTICE OF PUBLIC HEARING

Proposal for Conditional Use Permit at 1400 E. Seventh Street
Permit Application LUP2021-0004

A public hearing at which you may be present and speak will be conducted before the Board of Adjustment of the City of Moscow at which time the following proposal will be considered:

Conditional Use Permit application for a proposed 80' Wireless Communication Facility (WCF). The WCF will accommodate three carriers within a fully enclosed 800 sf lease area and would resemble a church tower.

HEARING DATE: Monday, March 29th, 2021

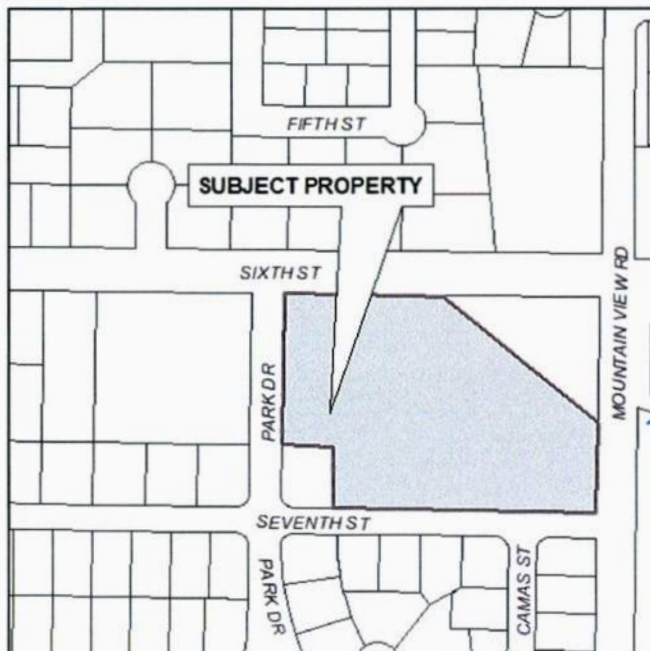
HEARING LOCATION: Council Chambers on the Second Floor of Moscow City Hall
206 East Third Street, Moscow, Idaho

MEETING TIME: 7:00pm

Note: Meeting start time is not necessarily indicative of hearing start time for the proposal advertised in this notice. Multiple hearings and/or agenda items may make it difficult to determine hearing start time, which could occur late in the meeting.

The file containing information on this matter is available for public review at the Community Planning & Design Department located in the Paul Mann Building at 221 East Second Street, Moscow, Idaho. Call 883-7035 to get a meeting agenda and further information about the matter.

Verbal testimony at the hearing is generally limited to three (3) minutes time. Minor amounts of written materials (less than two (2) pages) may be submitted to the hearing body at any time prior to the close of comments, as determined by the hearing body. More in-depth written materials require at least five (5) calendar days for review prior to the hearing. You may obtain further information about the public hearing process and procedures on the City's Website at: <http://id-moscow.civicplus.com/593/Public-Hearing-Notices>



Laurie Hopkins,
Moscow City Clerk


Jennifer Fleischman, Deputy City Clerk

Publish: Saturday, March 6, 2021



**CITY OF MOSCOW
COMMUNITY DEVELOPMENT**
Ph: 208-883-7035
Fax: 208-883-7033
jfleischman@ci.moscow.id.us

For City Use Only			
Date Received		02/19/2021	
Dept	Fee Type	Fees	Paid
CD	Application Fee	\$500	x✓
Receipt Number		LUP2021-0004	

APPLICATION FOR CONDITIONAL USE PERMIT

(Please type or print plainly with blue ink.)

GENERAL INFORMATION

1. Applicant

Name: PI Tower Development LLC Telephone: (425)628-2657 (Representative)
15105 John J. Delaney Drive, Suite D-3, Charlotte, NC 28277
 (home address)

Relationship to affected property (please check one):

Owner ☐ Purchaser ☐ Lessee ☒ Other ☐ (explain below)

2. Owner of Affected Property (if other than applicant)

Name: Church of the Nazarene Telephone: (509)939-6202
1400 E 7th Street, Moscow, ID 83823
 (home address)

3. Location of Affected Property: 1400 E 7th Street, Moscow, ID 83823

Legal Description: Eastgate Addition 2 1
 (subdivision) (block) (lot)

If described by Metes and Bounds, please attach deed on a separate sheet.

4. **Proposal:** The applicant proposes the following use and/or construction for the above-described property:
A new 80' wireless communication facility designed as a church tower with fully-enclosed
antennas. Facility will be within 20'x40' lease area and accomodate AT&T and two
additional wireless providers. See attachments 1-13 for additional details.

The proposed activities and use shall be shown on an attached site plan drawn to a standard engineer's or architect's scale. The site plan shall show, label and dimension all property lines and easements, existing and proposed buildings, parking lot and driveway(s), fencing and landscaping. A site topography map shall be provided when appropriate.

5. **Authorization:** Section 4-3-4 of the Moscow Zoning Ordinance authorizes the proposed use, subject to a Conditional Use Permit.

6. **Operating Characteristics:** Detail the operating characteristics of the proposed use. In other words, provide specific information which describes and defines how the proposed use will be conducted and what will be involved in the day to day operations of the proposed use. Applicable information may include hours of operation, number of people (employees, customers, students, etc.) involved, traffic and/or delivery information, services provided, equipment or machinery which may be involved, or any other information which helps describe and define the proposed use and impacts which it may have.

AT&T has identified a need for improved service in east Moscow and the surrounding area (See Attachment 5). The proposed facility will serve residents, first responders and businesses. See Attachment 1 – Project Narrative for additional details.

7. *Before the Moscow Board of Adjustment may issue a Conditional Use Permit, the Board must first make findings of compliance with the following seven relevant criteria and standards. Please indicate in the spaces provided below what you believe to be justification showing compliance with each of the relevant criteria and standards.*

Criteria #1. THE PROPOSED USE IS A CONDITIONALLY PERMITTED USE WITHIN THE ZONING DISTRICT.

Justification and compliance with criteria #1: _____

The proposed Facility is subject to approval via a Conditional Use Permit per MCC 4-3-4.

Criteria #2. THE CHARACTER OF THE PROPOSED USE WILL BE IN HARMONY WITH THE NEIGHBORHOOD AND SURROUNDING LAND USES.

Justification and compliance with criteria #2: _____

The proposed use will maintain the character of the Church of the Nazarene campus by incorporating design elements similar to the adjacent church, such as a circular topper, and will include crosses mounted to the sides of the structure. See Attachments 1 and 2.

Criteria #3. THE PROPOSED USE AS APPROVED, OR AS APPROVED WITH CONDITIONS, WILL NOT GENERATE NUISANCES THAT WOULD BE INJURIOUS OR DETRIMENTAL TO ADJOINING PROPERTIES OR THE NEIGHBORHOOD (INCLUDING BUT NOT LIMITED TO NOISE, DUST, GLARE, VIBRATIONS, ODORS AND THE LIKE).

Justification and compliance with criteria #3: See Attachments 1 and 2.

All ground equipment will be fully screened with existing landscaping and a six foot (6') tall fence. Construction will create some noise that will last approximately one month. Two diesel generators will run in the event of a power outage, and once a week for one hour for maintenance.

Criteria #4. THE LOCATION, DESIGN, AND SIZE OF THE PROPOSED USE WILL BE ADEQUATELY SERVED BY EXISTING STREETS, PUBLIC FACILITIES AND SERVICES.

Justification and compliance with criteria #4: _____

The proposed Facility is located on a parcel that has access on all four sides of the Church of the Nazarene campus.

Access will be via the existing parking lot. See Attachment 3- Zoning and Elevation Drawings.

Criteria #5. THE PROPOSED USE WILL NOT ENDANGER THE PUBLIC HEALTH OR SAFETY IF LOCATED WHERE PROPOSED.

Justification and compliance with criteria #5: _____

Applicant and all collocators will comply with all applicable safety and regulatory standards, including FCC emissions standards.

Criteria #6. THE PROPOSED USE MEETS ALL APPLICABLE DEVELOPMENT STANDARDS OF THE ZONING CODE.

Justification and compliance with criteria #6: _____

See Attachment 2 - Statement of Code Compliance. The facility will meet all applicable development standards of the zoning code.

Criteria #7. THE PROPOSED USE WILL NOT BE IN CONFLICT WITH THE COMPREHENSIVE PLAN.

Justification and compliance with criteria #7: _____

See Attachments 1 and 2. The proposed Facility will serve residents, businesses and first responders, providing economic and public safety benefits through access to high-quality wireless service.

CONDITIONS OF APPROVAL

The Board of Adjustment may impose conditions including, but not limited to, those (1) minimizing adverse impact on other development; (2) controlling the sequence and timing of development; (3) controlling the duration of development; (4) assuring that development is maintained properly; (5) designating the exact location and nature of development; (6) requiring the provision for onsite or offsite public facilities or services; (7) requiring more restrictive standards than those generally required in an ordinance; and/or (8) requiring mitigation of effects of the proposed development upon service delivery by any political subdivision, including school districts, providing services within the planning jurisdiction.

COMPLIANCE

1. In the event of failure to comply with the plans proof by the Board of Adjustment, or with any conditions imposed upon the Conditional Use Permit, the permit shall be immediately revoked and shall be automatically null and void.
2. Where plans are submitted and approved as part of the application for a Conditional Use Permit, modifications of the original plans may be required by the Board as a condition of approval.
3. Where plans approved by the Board of Adjustment are modified following such approval, such plan modifications must be submitted to and determined by City staff to be in substantial conformance with the plans approved by the Board. If plan modifications are not in substantial conformance, the plan modifications must be resubmitted to the Board for an additional public hearing as an amendment to the Conditional Use Permit application.

REVOCATIONS

If a Building Permit and/or Certificate of Occupancy pertaining to the Conditional Use Permit is not obtained for the subject property within one year from the date of the Board of Adjustment's final decision, the Conditional Use Permit shall be immediately revoked and shall be automatically null and void. If the use and/or occupancy for which the Conditional Use Permit is approved ceases for a period of twelve consecutive months, unless otherwise provided for in the Conditional Use Permit, then the Conditional Use Permit shall be immediately revoked and shall be automatically null and void.

Application Submittal:

This application must be completed and submitted with the below described items to the Moscow Community Development Director at least twenty-one days prior to the hearing at which the application is to be considered by the Board or the application will not be processed.

The following items must be submitted with this application before it will be processed:

1. Application Fee
2. Site Plan, drawn to scale
3. Floor Plans, drawn to scale
4. Elevation Drawings, drawn to scale (for new construction only)

I understand this information is a public record and may be posted to a public website.

Greggory Busch 2/19/2021
 Applicant's Signature (Authorized Representative Per Attachment 11) Date

See Section 4 of Attachment 13- Attorney In Fact of Property Owner for permission to sign on behalf of
 Owner's Signature Date

**PROJECT NARRATIVE
APPLICATION FOR CONDITIONAL USE PERMIT
WIRELESS COMMUNICATION FACILITY
PIID321 SE MOSCOW**

Submitted to City of Moscow, ID
Community Development Department

Applicant: PI Tower Development LLC (“Parallel Infrastructure”)
15105 John J. Delaney Drive, Suite D-3
Charlotte, NC 28277

Representative: Wireless Policy Group LLC
1420 NW Gilman Blvd., Suite #9030
Issaquah, WA 98027
Contact: Gregory Busch, Program Manager
(425) 628-2657
gregg.busch@wirelesspolicy.com

Property Owner: Church of the Nazarene
Contact: Ed Eby, Senior Pastor
1400 E 7th Street
Moscow, ID 83823

Project Address: 1400 E 7th Street
Moscow, ID 83823

Description & Tax Lot: GPS Coordinates: 46.729331, -116.982489 (NAD 83)
Parcel No. RPM0260002001A

Zoning Classification: NB – Neighborhood Business

Wireless Policy Group LLC is submitting this application on behalf of PI Tower Development LLC (“Parallel Infrastructure”, hereafter referred to as “**Parallel**”). Parallel submits this application for a wireless communication facility to fill coverage gaps in and enhance existing capacity of the network of New Cingular Wireless PCS, LLC (“**AT&T**”), the prime tenant for this wireless facility.

1. PROJECT OVERVIEW

Parallel is proposing to build a new 80-foot (80') tall wireless communication facility ("WCF") designed as a church tower (the "**Facility**"), PIID321 SE Moscow, at the above-noted project address. AT&T intends to collocate on the proposed Facility in order to fill a significant gap in AT&T's high band 4G LTE coverage experienced by its customers in eastern Moscow as well as add network capacity to offload AT&T's existing facilities west of Main Street. The Facility will provide coverage to residential areas not able to be served by existing facilities due to the topography of the area.

In addition to AT&T LTE commercial facilities, the proposed Facility will also provide an important public benefit by including facilities to support the FirstNet Nationwide Safety Public Broadband Network¹ ("FirstNet"). As a FirstNet site, this proposed Facility is part of a more significant initiative by AT&T to upgrade existing wireless sites and to build new sites to support FirstNet and deploy the new frequency band for first responders ("Band 14").

In addition to the City of Moscow's Application for Conditional Use Permit form, Parallel intends for its application for the proposed Facility to include the following documents (collectively, Parallel's "**Application**");

- Attachment 1— Project Narrative (this document)
- Attachment 2— Statement of Code Compliance
- Attachment 3 — Zoning and Elevation Drawings
- Attachment 4 — Photo Simulations
- Attachment 5 — AT&T Statement of Need
- Attachment 6 — AT&T RF Justification
- Attachment 7 — AT&T FCC Licenses
- Attachment 8 — FAA Determination of No Hazard
- Attachment 9 — Written Statement of Approval by Property Owner
- Attachment 10 — Notarized Written Commitment to Allow Collocation
- Attachment 11 — Letter of Authorization for Wireless Policy Group LLC
- Attachment 12 – Notice to Providers and Certified Mail Labels
- Attachment 13 – Attorney In Fact of Property Owner

Please Note: All references to "Attachments" in this Project Narrative are in reference to the above-noted attachments included as part of Parallel's Application.

¹ The First Responder Network Authority ("FirstNet Authority") is an independent authority within the U.S. Department of Commerce. Chartered in 2012, its mission is to ensure the building, deployment, and operation of the FirstNet Nationwide Safety Public Broadband Network—the nationwide broadband network that equips first responders to save lives and protect U.S. communities. FirstNet grew out of and addresses a 9/11 Commission recommendation calling for improved communications for all U.S. first responders. Learn more at FirstNet.gov/mediakit.

As shown in this Application, this proposed project meets all applicable Moscow City Code (“**MCC**”) criteria for siting new wireless communication facilities and complies with all other applicable state and federal laws and regulations. Parallel’s proposal is also the least intrusive means of meeting AT&T’s coverage objectives for this site. Accordingly, Parallel respectfully requests the City of Moscow (“**City**”) approve this project as proposed, subject only to the City’s standard conditions of approval.

2. PROPOSED PROJECT DETAILS

In addition to the information provided below, further detailed information regarding the subject property, proposed lease area, and proposed Facility design is included in **Attachment 3—Zoning and Elevation Drawings**.

2.1. Site Description

2.1.1. Subject property.

The subject property of this proposal is located at 1400 E 7th Street, on Parcel No. RPM0260002001A in Moscow, ID (the “**Property**”). The Property is owned by “Church of the Nazarene” of Moscow, Idaho, an Idaho Corporation. The Property is one of eleven parcels within an area of approximately 231,678 sq. ft. owned solely by Church of the Nazarene.

2.1.2. Zoning-use.

The Property is zoned as NB (Neighborhood Business) and is currently used primarily as a parking lot and location for storage containers for the church on the adjacent parcels to the east. There is also a residential building directly south of the parcel also owned by Church of the Nazarene.

2.1.3. Lease area.

- The proposed twenty-foot by forty-foot (20’ x 40’) lease area for the proposed Facility is located near the south edge of the parcel (the “**Lease Area**”).
- The existing portable shed will be relocated approximately twenty-three feet (23’) east and six feet (6’) north to accommodate the Lease Area.
- The Lease Area will be surrounded and fully screened by a six foot (6’) tall fence. Access will be via two twelve foot (12’) dual swing access gates on the north side of the fenced perimeter.
- There is an existing arborvitae hedge approximately twenty-six feet (26’) tall immediately adjacent the Lease Area to the south.

- The ground of the Lease Area will be covered in gravel fill approximately $\frac{3}{4}$ " deep, or similar.

2.2. Support Structure and Equipment

2.2.1. Antenna tower design.

- Parallel is proposing to build a new eighty-foot (80') tall self-supported tower designed to appear as a church tower (the "Structure").
- The Structure will include a circular topper similar to the design of the adjacent church, and will be decorated with one foam cross on each side of the tower, for a total of four.
- The Structure will be constructed within the Lease Area and will be unmanned.
- The Structure will be built to structurally support at least two additional antenna arrays for future collocation.
- The Structure will be painted a neutral color consistent with the built environment of the Property and the church adjacent to the Lease Area.

2.2.2. Antennas and accessory equipment.

- The Structure is expected to contain the following AT&T 4G LTE and FirstNet equipment:
 - Three sectors of up to four Commscope NNH4-65C-R6-V3 antennas each (or similar), for a total of twelve antennas at a RAD center of 71' and corresponding tip height of 75'.
 - Associated remote radio units contained fully within the Structure
 - Associated Fiber and DC cable runs within the interior of the Structure
- The Structure will be able to accommodate collocation of two additional carriers at lower RAD centers with similar equipment specifications. T-Mobile is currently expected to collocate at the second-highest RAD center, at 61'.
- The antennas, RRUs, and all accessory equipment mounted on the Structure will be contained fully within the Structure.

2.2.3. Ground equipment.

- All ground equipment will be constructed within the Lease Area.
- AT&T site support equipment, such as equipment cabinets and utility frames, will be contained within the Structure at ground level.
- Additional co-locators' site support equipment, such as equipment cabinets and ice frames, will be located within the Lease Area exterior to the Structure.
- Two diesel generators for backup power (one for AT&T and one for T-Mobile's expected collocation) will be placed on the concrete pad next to the Structure.
- Ground equipment for the third collocator will be placed within a 7'x7' ground lease area next to the second collocator's equipment exterior to the Structure.

2.3. Access, Parking, and Trip Generation

2.3.1. Access. Street access to the Facility will be via the west entrance to the parking lot off Park Drive. Access to the Lease Area will be controlled by two locked dual swing access gates. Access to the interior of the Structure will be controlled by a locked door.

2.3.2. Parking. Maintenance vehicles may be parked in the parking lot north of the Facility, or on the unmarked pavement adjacent the Facility.

2.3.3. Trip generation. The Facility will require only one to two trips per month, on average, for maintenance visits provided by personnel in a single vehicle. The proposed Facility will have no impact on existing vehicular access to and from the proposed site, or to pedestrian, bicycle, and transit circulation.

2.4. Utilities

- **Power** will be provided by Avista Utilities.
- **Telecommunications** will be determined at a later date.
- **Water/Sewer/Garbage** is not required as this will be an unmanned facility.

2.5. Additional Details

2.5.1. Lighting.

No artificial lighting of the Facility is proposed.

2.5.2. Landscaping. The Lease Area is immediately north of an approximately twenty-six foot (26') tall arborvitae hedge.

2.5.3. Noise. The Facility will comply with MCC 4-3-5 (H)(5)(f). The Facility will include up to two diesel generators that will be double contained and will be used in the event of a power outage. The generators will run once a week for approximately one hour for maintenance.

2.5.4. Concealment. The Structure is designed to maintain the character of the surrounding area as a church campus. See **Attachment 4 – Photo Simulations**. The Structure will be painted with similar colors, use similar design elements such as crosses mounted to the exterior, and will feature a circular topper similar in style to the adjacent church roof.

3. AT&T NETWORK COVERAGE AND SERVICES

3.1. Overview—AT&T 4G LTE Network

AT&T is upgrading and expanding its wireless communications network to support 4G LTE technology. LTE stands for “Long Term Evolution.” This acronym refers to the ongoing process of improving wireless technology standards, with 4G referring to its fourth generation. With each generation comes improvement in speed and functionality—4G LTE offers speeds up to ten times faster than 3G. LTE technology is the backbone for increased broadband speeds to meet the demands of uses and the variety of content accessed over mobile networks.

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

3.2. Network Service Objectives and Targeted Service Area for Proposed Facility

AT&T has identified a need for a site at this specific location. *See Attachment 5 – AT&T Statement of Need.* The proposed Facility will serve AT&T as a service coverage and capacity site. Currently, portions in and around east Moscow (the “Targeted Service Area”) have minimal to no 4G voice service and AT&T’s existing coverage in the area is at or near its capacity and is insufficient for the volume of traffic (i.e. though this area already has AT&T coverage, additional capacity is needed to service the volume of users).

As determined by AT&T’s RF engineers, the proposed new Facility meets AT&T’s service objectives to provide continuous and uninterrupted outdoor, in-vehicle, and in-building wireless service within the Targeted Service Area, resulting in fewer dropped calls, improved call quality, and improved access to additional wireless services the public now demands (including emergency 911 calls). The service objective, Targeted Service Area, and proposed location were determined by AT&T’s RF engineers through a combined analysis of market demand, customer complaints, service requests, and RF engineering design. *See Attachment 6 – AT&T RF Justification.* This proposed Facility will also allow AT&T to provide wireless communications and service for FirstNet users in the Targeted Service Area (as further detailed in Section 5 herein).

3.3. Search Ring

AT&T’s RF engineers performed an RF engineering study—considering multiple objectives—to determine the approximate site location and antenna height required to best fulfill the noted service objectives within the Targeted Service Area. From this study, AT&T’s RF engineers identified a search ring area where a new wireless facility may be located to provide effective service in the Targeted Service Area. The search ring established for this proposal and a description of the methodology used to determine the search ring is provided in **Attachment 6—AT&T RF Justification.**

4. ALTERNATIVE SITE ANALYSIS

AT&T generally considers all siting possibilities within, and adjacent to, a search ring to determine the best location for a new facility to meet AT&T's service objectives within the Targeted Service Area. AT&T will first attempt to utilize an existing tower or structure for collocation at the desired antenna height. If an existing tower or structure is not available or determined to be infeasible, AT&T will then propose a new tower.

For this proposed Facility, Parallel coordinated with AT&T and other wireless providers to address service issues within east Moscow. AT&T and Parallel have thoroughly analyzed siting options and found that the proposed location is the most feasible site within the search ring that will best meet AT&T's service objectives in the Targeted Service Area.

Parallel has previously proposed an alternate design for the Facility (designed to appear as a faux fir tree) at this location that was denied by the City. Parallel and AT&T have found the alternative site locations infeasible, as described below and in **Attachment 6 —AT&T RF Justification**.

4.1. Monopine at Proposed Location

On November 19, 2018, the Moscow Board of Adjustment denied Parallel's (then Lendlease) original request for a Conditional Use Permit for an eighty-foot WCF at this same location on the Property. The Board found that the character of the proposed concealment elements of a faux fir tree would not be in harmony of the neighborhood and surrounding land uses. On appeal, the Moscow City Council upheld the Board's decision to deny the application.

4.2. Facilities on and around Vista Water Tank (46.730575, -116.969150)

Applicant, and the wireless industry as a whole, have made extensive efforts to locate facilities on and around the Vista water tank at 843 South Hathaway Avenue. Several proposals have been rejected by the City, and others have been found to be technically infeasible by both the City and wireless industry.

The City has rejected multiple industry proposals to collocate WCF on the Vista Water Tank. In 2011, the City rejected a proposed T-Mobile design placing antennas on the top of the tank due to structural concerns. T-Mobile made an additional attempt to collocate on the tank in 2016 using the Magna Mount System but was again denied by the City.

On January 22nd 2019, the Moscow City Manager denied Parallel's (then Lendlease) request to negotiate a site lease for a one hundred foot (100') tall WCF adjacent to the Vista water tank. The City encouraged Parallel to use magnetic or adhesive methods to attach its antennas to the tank. Parallel has reviewed these proposals for magnetic and adhesive mounts and found them to be technically infeasible.

AT&T has also reviewed the proposals for collocation on the Vista Water Tank and found the site to be unsuitable. AT&T's RF Engineers have found that a collocation on the Vista Water Tank is

too far east to provide necessary capacity increases to increase weak performance in AT&T's Targeted Service Area. Additionally, a facility at this alternative location would create a significant coverage overlap with AT&T's existing coverage, creating increased signal interference that would make it difficult for the new facility to establish dominant coverage.

As such, collocation on the Vista Water Tank is not suitable because it would not provide the service coverage required to meet AT&T's service objectives within the Targeted Service Area.

4.3. New Tower at Brink Park (46.727213, -116.978024)

AT&T's RF Engineers have evaluated a potential new tower solution with a 75 ft. antenna tip height at Carole Rylie Brink Park off Joseph Street, approximately 0.27 miles south-southeast from the proposed Facility. The potential new tower at Brink Park would provide limited coverage primarily only to commercial areas, not the targeted residential areas. The Brink Park location is not suitable for AT&T's needs because it does not provide the service coverage required to meet AT&T's service objectives within the Targeted Service Area.

4.4. Collocation on 8th Street Water Tank (46.726729, -116.988959)

AT&T's RF Engineers also evaluated a potential collocation on the existing water tank off E. 8th Street, approximately 0.35 miles southwest of the proposed Facility. The collocation would have an estimated 30 ft. antenna tip height. As shown in **Attachment 6**, the proposed Facility provides 84.5% more coverage within the Targeted Service Area than the 8th Street Water Tank. The 8th Street Water Tank is not suitable for AT&T's needs because of its extremely limited coverage area, which would be primarily to commercial areas.

4.5. New Tower on Commercial Property (46.721561, -116.984535)

Finally, AT&T's RF Engineers evaluated a potential new tower utilizing a 96 ft. antenna tip height on commercial property 0.35 miles south of the proposed Facility. Despite the increased height on the potential commercial site, the currently proposed Facility still provides 14% more coverage within the Targeted Service Area. The potential new tower on commercial property would provide new coverage primarily only to commercial areas, not the targeted residential areas. The potential new tower on commercial property is not suitable for AT&T's needs because of the significant coverage overlap with AT&T's existing coverage

5. FIRSTNET

FirstNet is the country's first nationwide communications platform dedicated to public safety, representing a giant leap in communications capabilities for public safety personnel that will benefit the communities they serve. FirstNet gives first responders access to one highly secure, dedicated, interoperable network and ecosystem supporting voice, data, text, and video communications—technology they need to better communicate and collaborate across agencies and jurisdictions.

5.1. FirstNet Authority

The First Responder Network Authority ("FirstNet Authority") is an independent authority within the U.S. Department of Commerce. Chartered in 2012, the FirstNet Authority is charged with carrying out public safety's vision of FirstNet, bringing first responders a dedicated communications ecosystem. The FirstNet Authority consulted extensively with each state, tribes, local governments, and the public safety community regarding how FirstNet will be deployed.

5.2. AT&T FirstNet Partnership

Through a first-of-its-kind public-private partnership with FirstNet, AT&T is responsible for building, maintaining, operating, and upgrading FirstNet for the next 25 years. AT&T is upgrading its existing wireless sites and building new wireless facilities to deploy the wireless spectrum set aside for public safety—Band 14. Band 14 is designed to be reliable, functional, safe, and secure and provide optimal levels of operational capacity at all times. Additionally, as of January 1, 2018, FirstNet users have access to FirstNet on all AT&T commercial LTE bands, allowing them to also benefit from AT&T's overall improvements to its commercial network.

Simply put, FirstNet provides public safety users with the assurance of network access whenever they need it. Accordingly, AT&T must closely consider location, lease, and facility requirements for the siting, placement, and operation of FirstNet facilities to ensure that, over the course of its 25-year partnership, appropriate accommodations can be made to support the evolving mission-critical services of FirstNet.

5.3. FirstNet Coverage

FirstNet, built by AT&T, will span all 50 states, five U.S. territories, and the District of Columbia, including rural communities and tribal lands in those states and territories. As an all-band solution, FirstNet is built on AT&T's commercial LTE bands in addition to Band 14. This gives FirstNet users access to even more coverage and capacity.

5.4. FirstNet Core

FirstNet is a separate communications platform operating on a physically separate, dedicated core that is purpose-built for public safety based on their specifications and requirements. The FirstNet core is built on physically separate hardware, which effectively separate public safety's traffic from commercial traffic. The FirstNet core is also monitored 24/7/365 by a dedicated Security Operations Center with a dedicated team of experts.

5.5. Priority and Preemption

A key differentiator of FirstNet is always-on priority and preemption with multiple priority levels that primary users can allocate as needed. This technology is available to FirstNet users over the AT&T LTE commercial bands and Band 14.

Priority means first responders connect first. Priority moves first responders to the front of the “communications line,” prioritizing their network needs—they don’t have to compete with non-emergency users for a connection.

Preemption goes a step further to make sure first responders can access FirstNet when they need to, 24/7/365. Preemption helps ensure first responders have the bandwidth they need, when they need it most—when the communications line becomes crowded, preemption shifts non-emergency traffic, freeing up space for FirstNet users to easily get through. Calls or texts to 911 will never be preempted or shifted from the network.

6. APPLICABLE LAW

6.1. Local Codes, Policies, and Procedures

6.1.1. Zoning and Development Standards. As described in **Attachment 2—Statement of Code Compliance**, the proposed Facility meets all applicable standards and criteria for approval in the Moscow City Code.

6.1.2. Review Procedure. Per MCC 4-3-4, the proposed Facility is subject to approval through a conditional use permit in the NB zone.

6.1.3. Comprehensive Plan. One of the goals of Chapter 5 of the City of Moscow Comprehensive Plan is to “plan for and provide the efficient and effective delivery of emergency services to the Community today and in the future.” A goal of Chapter 6 is to “Enhance and strengthen the regional economy utilizing the strengths and assets of the region.”

Residents and businesses increasingly rely on the ability to use their phones and other wireless devices both indoors and outdoors. The proposed Facility will support existing and future development as well as enhance public safety by improving emergency responses through improved connectivity for making emergency calls and access to a more reliable 4G LTE network.

6.2. Federal Law

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

6.2.1. Local jurisdictions may not materially limit or inhibit. The Telecom Act prohibits a local jurisdiction from taking any action on a wireless siting permit that “prohibit[s] or [has] the effect of prohibiting the provision of personal wireless services.” 47 U.S.C. § 332(c)(7)(B)(i)(II). According to the Federal Communications Commission (“FCC”) Order adopted in September 2018,² a local jurisdiction’s action has the effect of prohibiting the provision of wireless services when it “materially limits or inhibits the ability of any competitor or potential competitor to compete in a fair and balanced legal and regulatory environment.”³ Under the FCC Order, an applicant need not prove it has a significant gap in coverage; it may demonstrate the need for a new wireless facility in terms of adding

² *Accelerating Wireless and Wireline Broadband Deployment by Removing Barriers to Infrastructure Investment*, Declaratory Ruling and Third Report and Order, WT Docket No. 17-79, WC Docket No. 17-84, FCC 18-133 (rel. Sept. 27, 2018); 83 Fed. Reg. 51867 (Oct. 15, 2018) (“FCC Order”).

³ *Id.* at ¶ 35.

capacity, updating to new technologies, and/or maintaining high quality service.⁴

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

- **Significant Gap.** Reliable in-building coverage is now a necessity and every community's expectation. Consistent with the abandonment of land line telephones and reliance on only wireless communications, federal courts now recognize that a "significant gap" can exist based on inadequate in-building coverage. See, e.g., *T-Mobile Central, LLC v. Unified Government of Wyandotte County/Kansas City*, 528 F. Supp. 2d 1128, 1168-69 (D.Kan. 2007), *affirmed in part*, 546 F.3d 1299 (10th Cir. 2008); *MetroPCS, Inc. v. City and County of San Francisco*, 2006 WL 1699580, *10-11 (N.D. Cal. 2006).
- **Least Intrusive Means.** The least intrusive means standard "requires that the provider 'show that the manner in which it proposes to fill the significant gap in service is the least intrusive on the values that the denial sought to serve.'" 572 F.3d at 995, *quoting MetroPCS, Inc. v. City of San Francisco*, 400 F.3d 715, 734 (9th Cir. 2005). These values are reflected by the local code's preferences and siting requirements.

6.2.2. Environmental and health effects prohibited from consideration. Also under the Telecom Act, a jurisdiction is prohibited from considering the environmental effects of RF emissions (including health effects) of the proposed site if the site will operate in compliance with federal regulations. 47 U.S.C. § 332(c)(7)(B)(iv). AT&T will submit prior to building permit issuance a statement from its radio frequency engineers demonstrating that the proposed facility will operate in accordance with the Federal Communications Commission's RF emissions regulations. Accordingly, this issue is preempted under federal law and any testimony or documents introduced relating to the environmental or health effects of the proposed Facility should be disregarded in this proceeding.

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

6.2.4. Shot Clock. Finally, the Telecom Act requires local jurisdictions to act upon applications for wireless communications sites within a "reasonable" period of time. 47

⁴ Id. at ¶¶ 34-42.

U.S.C. § 332(c)(7)(B)(ii). The FCC has issued a “Shot Clock” rule to establish a deadline for the issuance of land use permits for wireless facilities. 47 C.F.R. § 1.6001, *et seq.* A presumptively reasonable period of time for a local government to act on all relevant applications for a “macro” wireless facility on a new structure is 150 days. 47 C.F.R. § 1.6003(c)(1)(iv). The Shot Clock date is determined by counting forward 150 calendar days from the day after the date of submittal, including any required pre-application period. 47 C.F.R. § 1.6003(e).

Pursuant to federal law, the reasonable time period for review of this application is 150 days.

7. CONCLUSION

The proposed Facility meets all requirements of the MCC, and Parallel respectfully requests that the City approve this proposal subject only to the City’s standard conditions of approval.

Submitted By: Gregory Busch, Program Manager, Wireless Policy Group LLC

Signature:



Date:

February 19, 2021

**CONDITIONAL USE PERMIT APPLICATION
City of Moscow, ID**

**Applicant: PI Tower Development LLC ("Parallel Infrastructure")
Primary Tenant: New Cingular Wireless PCS, LLC ("AT&T")**

**Applicant's Site ID: PIID321
Site Address: 1400 E 7th Street, Moscow, ID 83823
Coordinates: 46.729331, -116.982489 (NAD 83)**

STATEMENT OF CODE COMPLIANCE

Applicant PI Tower Development LLC ("Parallel Infrastructure", hereafter referred to as "**Parallel**") provides this statement demonstrating compliance of the proposed 80-foot (80') wireless communication facility (the "Facility") designed as a church tower (the "Structure") with the following sections of the Moscow City Code ("**MCC**"):

- 1. MCC 4-3-5(H): Telecommunications Facilities**
- 2. MCC 4-8-4(B): Conditional Uses: Relevant Criteria and Standards**

1. MCC 4-3-5(H): Telecommunications Facilities

Section 4-3-5(H)(1) Applicability.

This Section shall apply to antenna towers, antenna support structures, antennas and their ancillary facilities (telecommunications facilities) any of which is used to provide commercial telecommunications services. This Section shall not apply to noncommercial antenna towers used exclusively as accessory to a residential use on the same lot.

APPLICANT RESPONSE: The proposed Facility is an Antenna Tower as defined by MCC 4-3-5(H)(3)(d) with Ancillary Facilities as defined by MCC 4-3-5(H)(3)(a).

Section 4-3-5(H)(2) Purpose.

The provisions of this Section are intended to ensure that telecommunications facilities are located, installed, maintained and removed in a manner that:

- a. Minimizes the number of antenna towers throughout the community;
- b. Encourages the co-location of telecommunications facilities;
- c. Encourages the use of existing buildings, light or utility poles, water towers or other structures for antenna mounting and discourages construction of new antenna towers;
- d. Ensures that telecommunications facilities are located and designed to minimize visual impact on the surroundings.

e. Ensures that regulation of telecommunications facilities does not have the effect of prohibiting the provision of telecommunications services, does not unreasonably discriminate among functionally equivalent providers of such services, and allows the provision of adequate area coverage by such services.

APPLICANT RESPONSE: This application promotes the purposes of this chapter by designing the Facility to accommodate at least three total carriers and selecting the location of the Facility such that it provides coverage superior to alternatives, thereby decreasing the need for additional towers. Additionally, the Facility is designed to minimize visual impact by maintaining the character of the adjacent property as a church, and incorporating a circular topper similar to the roof of the church.

Section 4-3-5(H)(4) General Use Regulations.

a. The installation of lattice towers is prohibited, as permitted as temporary antenna towers subject to Section 4.d. herein. Replacement, relocation or alteration of non-conforming lattice towers shall be subject to the Nonconformity Regulations in Section 4-1-7 of this Zoning Code.

b. A Conditional Use Permit shall be required before the installation, relocation, replacement, and/or alteration of an antenna tower that exceeds thirty-five (35) feet in height.

c. Except for small wireless facilities, which are subject to the standards contained in Section 6 herein, co-location shall be a permitted use within all zoning districts when located upon existing antenna towers and antenna support structures if the antenna extends no more than fifteen (15) feet above, and projects no more than eight (8) feet horizontally away from the existing tower or support structure. Any co-location of wireless facilities that exceed such limits shall require a Conditional Use Permit.

d. A temporary antenna tower as defined herein shall be a permitted use in all zoning districts, subject to site plan approval by the Zoning Administrator. The duration of the temporary antenna tower at the site shall not exceed the special event time or the time reasonably needed to repair the antenna tower in need of repair as determined by the Zoning Administrator.

APPLICANT RESPONSE: The proposed Facility is neither a lattice tower nor a temporary tower. The antenna tower is 80' tall and subject to approval through a Conditional Use Permit.

Section 4-3-5(H)(5) General Telecommunication Facility Development Standards.

a. Prohibited Towers. The installation of telecommunications facilities utilizing lattice towers or towers requiring supporting guy wires shall be prohibited.

APPLICANT RESPONSE: N/A

b. Antenna Tower Setback from Highway Right-of-Way. No antenna tower that exceeds sixty (60) feet in height shall be permitted within five hundred (500) feet of US Highway 95 and/or State Highway 8 rights-of-way unless the proposed site is in the U, MB, or I Zoning District, in which case the antenna tower shall be set back a minimum of one hundred (100) feet from said right-of-way.

APPLICANT RESPONSE: The proposed Facility is over 3,400 feet north of the State Highway 8 right-of-way and is not within five hundred feet of US Highway 95.

c. Antenna Tower Setback from Property Lines. Antenna towers shall be separated from the property line of any adjacent property zoned for residential uses at least a distance equal to the height of the antenna tower, and shall be separated from adjacent property lines in all other zones by at least a distance equal to one-half (1/2) the height of the antenna tower.

APPLICANT RESPONSE: The proposed Structure is further than eighty feet (80)' from adjacent property lines that are not part of the Church of the Nazarene campus.

d. Security. Every telecommunications facility shall be protected from unauthorized access by appropriate security measures.

APPLICANT RESPONSE: The proposed Facility will be surrounded by a six (6) foot high fence with two locked gates. Access to the interior of the Structure will be secured by a locked door.

e. Lighting. No antenna or antenna tower shall be lighted unless required by the Federal Aviation Administration or other state or federal agency having such authority, and such lighting shall not be more than the minimum required by such agency.

APPLICANT RESPONSE: No lighting is proposed.

f. Noise Reduction. Noise generating equipment shall be sound-buffered by means of baffling, barriers, or other suitable means to reduce sound level measured at the property line to no more than forty-five decibels (45 dB).

APPLICANT RESPONSE: The Facility will include up to two diesel generators that will be double contained and will be used in the event of a power outage. The generators will run once a week for approximately one hour for maintenance. The noise generated by the generators will comply with this requirement.

g. Signage. The placement of signage on antenna towers is prohibited, except for the placement of security signage, which shall not exceed six (6) square feet on each side of the antenna tower and shall not be located higher than six (6) feet above grade. Additionally, one security sign not to exceed one (1) square foot may be provided on each fifty (50) lineal feet of wall or fence enclosing the facility.

APPLICANT RESPONSE: No prohibited signage is proposed. Four crosses, one on each side of the Structure, are proposed for purposes of contributing to the property's visual character of a church.

h. Aesthetic Considerations.

i. Antenna towers shall be painted a neutral color consistent with the natural or built environment of the subject site and the surrounding area unless otherwise required by any State or Federal agency having such authority.

APPLICANT RESPONSE: The Structure will be painted using colors consistent with the built environment of the church compound, or a specific color that may be chosen by the City.

ii. Equipment shelters or cabinets shall have an exterior finish compatible with the natural or built environment of the subject site and the surrounding area and shall also comply with any design guidelines applicable to the particular zoning district in which the facility is located.

APPLICANT RESPONSE: Equipment shelters and cabinets will be fully screened by the surrounding six-foot (6') tall fence.

iii. Antennas and cables shall be of a color identical to or closely compatible with that of the structure to which they are attached unless otherwise required by the Federal Aviation Administration or any applicable state or federal agency. Telecommunications facilities located above ground in or directly adjacent to any residential zoning district shall be surrounded by a minimum six (6) foot high decorative wall constructed of brick, stone, or textured concrete block. Said wall shall be surrounded by a Type "A" Landscape Buffer Yard planted adjacent to said wall or fence or at an alternate location providing equal or better buffering. Telecommunications facilities in all other Zoning Districts shall be surrounded by a minimum six (6) foot high wall or solid or slatted fence. Said fence or wall shall be surrounded by a Type "A" Landscape Buffer Yard planted adjacent to said wall or fence or at an alternate location providing equal or better buffering.

APPLICANT RESPONSE: Antennas and cables will be fully concealed within the Structure above ground and will be screened at ground level by the surrounding six-foot (6') high fence. There is an approximately twenty-six foot (26') high arborvitae hedge immediately south of the Lease Area, providing better buffering from this angle than required. The proposed fence will be made of cedar (see Attachment 3 – Zoning Drawings, Sheet A-2) as part of the security and concealment features. Parallel is able to propose alternate designs at the City's request.

iv. Vehicle or outdoor storage on any antenna tower site is prohibited unless otherwise permitted by the Zoning District in which the tower is located.

APPLICANT RESPONSE: No vehicle or outdoor storage is proposed.

v. At least one (1) on-site parking stall with a vehicle turnaround area shall be provided at each antenna tower site. The parking area and driveway to it shall consist of asphalt, concrete, or gravel.

APPLICANT RESPONSE: See Attachment 3 – Zoning and Elevation Drawings – Sheet A-1.3 for Asphalt Parking Area.

vi. Ancillary facilities located above ground for antennas shall be set back a minimum of fifty (50) feet from any adjacent property that is either located within a residential zoning district or utilized for residential purposes, unless the applicant can demonstrate that the specific proposal will present no greater adverse visual and audio impacts to surrounding properties.

APPLICANT RESPONSE: Ancillary facilities are set back greater than fifty (50) feet from adjacent properties not part of the Church of the Nazarene campus.

i. Co-location Consent for New or Existing Antennal Towers.

i. Existing Antenna Towers. Prior to the issuance of any permit to relocate, alter or modify any antenna tower, the tower owner shall provide to the City a notarized written commitment to make said antenna tower available for use by others subject to technical and structural limitations and reasonable financial terms. The failure of an antenna tower owner to agree to shared use or to negotiate in good faith with potential users shall be unlawful and, among other remedies of the City, shall be just cause for the withholding of the issuance of future antenna tower permits to such an owner as well as revocation of antenna tower permits for any antenna tower on which co-location is refused or unreasonably hindered.

APPLICANT RESPONSE: N/A

ii. New Antenna Towers. Any new or relocated antenna tower eighty (80) feet or greater in height shall be designed and constructed to accommodate at least two (2) additional users unless a larger number of users needs to be accommodated as indicated by the response to the Notice provisions herein. As an alternative, a smaller tower may be approved if the tower owner commits in writing to “swap out” to a larger tower when needed to allow co-location space for additional service providers. A notarized written commitment to shared use as specified in Subsection 5.j.i above shall be submitted to the Zoning Administrator by the antenna tower applicant. The failure of the owner of an antenna tower built with a capacity for shared use to negotiate in good faith with potential users shall be unlawful and shall be a violation of this Ordinance and, among other remedies of the City, shall be just cause for the withholding of the issuance of future antenna tower permits to such an owner as well as revocation of antenna tower permits for any antenna tower on which co-location is refused or unreasonably hindered.

APPLICANT RESPONSE: The Facility is designed to accommodate at least two (2) additional users beyond the primary tenant, which is currently AT&T. T-Mobile is expected to collocate as well. For further requirements, see Attachment 10 – Notarized Written Commitment to Collocate.

j. Antenna Tower Inventories. Prior to the issuance of any permit to install, relocate, replace or alter any antenna tower, the tower owner shall furnish the Zoning Administrator an inventory of all of the owner’s antennas and antenna towers in the City of Moscow and within one (1) mile of the City limit boundary. The inventory shall include the reference name or number, or other description of location including a site map(s), structure type, height, type of antenna tower(s) or antenna support structure(s) and height of all existing antennas and an assessment of available ground space for the placement of additional equipment shelters for potential future users.

APPLICANT RESPONSE: Parallel currently does not own any antenna towers within the City of Moscow or within one (1) mile of the City limit boundary.

k. Notice of Antenna Tower Permit Applications. The applicant for any antenna tower permit shall have a copy of the application and a summary containing the height, design, location, type and frequency of antennas delivered by certified mail to all known and potential antenna tower users within the service area. Proof of such delivery of the summary shall be submitted with the permit application to the City. Such notification shall be so mailed no less than sixty (60) days prior to the public hearing at which the application will be considered and shall specifically solicit co-location discussion between the applicant and recipients of the notice. The Zoning Administrator may establish a form required to be used for such notifications. Upon request, the Zoning Administrator shall place on a list the name and address of any user or prospective user of antenna towers to receive notification of applications. The failure of the party receiving such Notice to use this process or respond to any such Notice may be considered cause for denying requests by such party for antenna tower permits. Such response shall be provided in writing to the Zoning Administrator within forty-five (45) days of mailing and shall contain a statement specifying desire to co-locate on the applicant’s proposed tower and a statement regarding the responder’s ability to accommodate the needs of the applicant on an existing tower or support structure owned or operated by the responder.

APPLICANT RESPONSE: See Attachment 12 – Notice to Providers and Certified Mail Labels for form of notice sent to the list of all known and potential antenna towers users provided by the City of Moscow to Parallel. The attached notice and copies of this Application are being sent concurrently to each listed potential antenna tower users, and proof of delivery will be provided to the City as it is obtained.

Section 4-3-5(H)(6) Small Wireless Facility Standards.

APPLICANT RESPONSE: The proposed Facility is not a Small Wireless Facility. Therefore, this section is not applicable.

Section 4-3-5(H)(7) Permits Required.

a. A building permit shall be required to construct, install, relocate, replace, or alter any antenna tower. An administrative zoning permit shall be required to locate or replace any antenna on an antenna tower or antenna support structure. A Conditional Use Permit shall be required as specified in Section 4 herein.

APPLICANT RESPONSE: Building permit for construction of the Facility to be applied for upon approval of the Conditional Use Permit, with additional information described below.

b. An application for any of the above-mentioned permits shall include or be accompanied by all of the information necessary to determine and document compliance with the regulations established herein. Where no application or permit form exists, the application shall be in the form of a letter signed and dated by the applicant, and the permit issuance shall be in the form of a letter of approval signed and dated by the Zoning Administrator or a dated signature by the Zoning Administrator on the applicable site plan.

APPLICANT RESPONSE: Application for Conditional Use Permit is attached, as is the \$500 fee.

c. Specific permit application submittal requirements shall be determined by the Zoning Administrator and may include, but are not limited to, the following:

i. Permit application.

APPLICANT RESPONSE: Submitted electronically.

ii. Site plan.

APPLICANT RESPONSE: See Attachment 3 — Zoning and Elevation Drawings.

iii. Elevation drawing(s) of the antenna tower or antenna support structure, antenna(s) and ancillary facilities.

APPLICANT RESPONSE: See Attachment 3 — Zoning and Elevation Drawings.

iv. Photo simulations from three different perspectives of the installation site illustrating the anticipated visual appearance of the proposed wireless facility (not required for small wireless facilities).

APPLICANT RESPONSE: See Attachment 4 — Photo Simulations.

v. Description of proposed and required lighting including light locations. Documentation of required lighting, as specified in Section 5.e. herein, may be deferred until prior to issuance of building permit if not available at time of application submittal.

APPLICANT RESPONSE: No lighting is proposed.

vi. Any plans necessary to depict structural requirements.

APPLICANT RESPONSE: See Attachment 3 — Zoning and Elevation Drawings.

vii. Description of the number and types of antennas being proposed, as well as the expected or known capacity of the antenna tower in terms of the number of antennas the antenna tower can accommodate.

APPLICANT RESPONSE: See Attachment 3 — Zoning and Elevation Drawings. The Structure is expected to be able to accommodate three RAD centers of up to three sectors of four antennas each, for a total potential capacity of up to 36 antennas and associated equipment concealed fully within the Structure.

viii. Antenna tower or antenna location study specifying the search process by which the proposed site was chosen.

APPLICANT RESPONSE: See Attachment 1- Project Narrative as well as Attachment 6 – AT&T RF Justification.

ix. Antenna tower inventory as specified in Section 5.j. herein.

APPLICANT RESPONSE: Parallel currently does not own any antenna towers within the City of Moscow or within one (1) mile of the City limit boundary.

x. Notarized written commitment to allow co-location/shared use as specified in Section 5.i.i. herein (not required for small wireless facilities).

APPLICANT RESPONSE: See Attachment 10 – Notarized Written Commitment to Collocate.

xi. Documentation by a certified radio frequency engineer demonstrating compliance with current non-ionizing electromagnetic radiation (NIER) or radio frequency (RF) emissions standards as established by the Federal Communications Commission (FCC). Such documentation may be deferred until prior to issuance of building permit if not available at time of application submittal. Upon the construction of a small wireless facility, the City reserves the right to conduct annual NIER and RF emissions testing, as permitted by Federal and State regulations, by a certified radio frequency engineer to verify that the facility is in compliance with FCC standards. If the facility is found to not be in compliance with FCC standards, the City shall require the facility to be brought into compliance in accordance with the applicable Master License Agreement.

APPLICANT RESPONSE: Parallel requests this documentation be deferred until prior to issuance of building permit, as it is not currently available.

xii. Current FCC license to operate.

APPLICANT RESPONSE: See Attachment 7 – AT&T FCC Licenses.

xiii. Documentation of a review by the Federal Aviation Administration (FAA) and/or the Aviation Division of the Idaho Transportation Department (ITD). Such documentation may be deferred until prior to issuance of building permit if not available at time of application submittal.

APPLICANT RESPONSE: See Attachment 8 – FAA Determination of No Hazard for prior determination of earlier design. Parallel requests that updated documentation be deferred until issuance of building permit.

xiv. Name and address of the property owner, telecommunications service provider, and owner of the telecommunications facility on the permit application, and a written statement of approval of the application by the property owner.

APPLICANT RESPONSE: See Attachment 1, Page 1 for specific information. See Attachment 9 – Written Statement of Approval by Property Owner for e-mail documentation of approval by Church of the Nazarene.

xv. Description of proposed security measures as required in Section 5.d. herein.

APPLICANT RESPONSE: See above.

xvi. A tree protection plan prepared by a certified arborist if the installation of the wireless telecommunication facility will be located within the canopy of a street tree, or within a ten-foot radius of the base of such a tree.

APPLICANT RESPONSE: N/A

Section 4-3-5(H)(7) Findings for a Conditional Use Permit.

a. Before a Conditional Use Permit for an antenna tower may be issued, the applicant must demonstrate, and the Zoning Board of Adjustment must find, compliance with all of the following:

i. No existing antenna towers or antenna support structures within the necessary geographic area for the applicant's antenna tower meet the applicant's requirements considering (a) height, (b) structural integrity, or (c) that there are other prohibitive conditions that render existing antenna towers or antenna support structures within the applicant's required geographic area unsuitable.

APPLICANT RESPONSE: See Attachment 1 – Project Narrative and Attachment 6 – AT&T RF Justification for specific information on the infeasibility of alternate antenna support structures in the immediate geographic area.

ii. That the design of the antenna tower, including the antennas and ancillary facilities, minimizes visual impact and otherwise complies with provisions and intent of this Section.

APPLICANT RESPONSE: The Structure is designed to minimize visual impact by maintaining the character of the campus as a church. The Structure will be painted consistent with the built environment and incorporate a circular topper similar to the roof of the church, as well as RF-transparent crosses on each side.

iii. That the proposed antenna tower location minimizes the number and/or size of antenna towers or antenna support structures that will be required in the area.

APPLICANT RESPONSE: The proposed Facility will minimize the number and size of towers in the area by accommodate at least three total carriers. The location of the Facility has been found to be superior to alternatives as shown in Attachment 6, thereby decreasing the need for additional towers.

iv. That the applicant has not previously failed to take advantage of reasonably available shared use opportunities or procedures provided by this Ordinance or otherwise.

These findings shall be required in addition to those required for the Reasoned Statement of Relevant Criteria and Standards provided in Section 4-8-4 of the Zoning Code.

APPLICANT RESPONSE: The Applicant has no prior history of failing to take advantage of reasonably available shared use opportunities or procedures provided by the City.

Section 4-3-5(H)(9) Abandonment and Removal.

a. All telecommunications facilities shall be removed by the owner of the facility, by the operator of the facility, and/or by the property owner within six (6) months of the time that the facility has substantially ceased being used to provide telecommunications services to the public. Removal shall not be required when the owner or operator of the facility has, within the aforementioned six (6) months, filed with the City a written request to reuse the antenna tower and the City has approved such request. Such written request shall detail the circumstances that justify why the antenna tower should not be removed, why it will be unused for six (6) months or more, and shall commit to a date certain, not to exceed twelve (12) months from the date of last use, by which time the antenna tower will again provide telecommunications services to the public. Before issuance of an antenna tower permit, the applicant for any antenna tower permit shall provide to the City financial security, such as but not limited to an open-ended bond, to ensure removal of the antenna tower and ancillary facilities after the facility is no longer being used to provide telecommunications services to the public.

APPLICANT RESPONSE: Acknowledged.

Section 4-3-5(H)(10) Affirmative Duty to Keep City Informed.

a. All telecommunications service providers having telecommunications facilities in the jurisdiction of the City shall be required to report in writing to the Zoning Administrator any change in the status of their operations. Change in status shall include, but is not limited to, the following:

- i. Change in or loss of license from the FCC to operate.
- ii. Receipt of notice of failure to comply with the regulations of any other authority having jurisdiction over the business or facility.
- iii. Change in ownership of the company that owns the telecommunications facilities or that provides telecommunications services.
- iv. Loss or termination of lease with the property owner or the owner of the telecommunications facilities.
- v. Abandonment of a facility or non-use of a facility for a period of six (6) months or longer.

APPLICANT RESPONSE: Acknowledged.

2. MCC 4-8-4(B): Conditional Uses: Relevant Criteria and Standards

Approval or denial of a Conditional Use Permit application shall be based upon the following criteria:

1. The proposed use is a conditionally permitted use within the Zoning District.

APPLICANT RESPONSE: The proposed Facility is subject to approval via a Conditional Use Permit per MCC 4-3-4.

2. The character of the proposed use will be in harmony with the neighborhood and surrounding land uses.

APPLICANT RESPONSE: The proposed use will maintain the character of the Church of the Nazarene campus as a church, and will incorporate design elements similar to the adjacent church building and be painted consistent with the built environment.

3. The proposed use as approved, or as approved with conditions, will not generate nuisances that would be injurious or detrimental to adjoining properties or the neighborhood (including, but not limited to, noise, dust, glare, vibrations, odors, and the like).

APPLICANT RESPONSE: The proposed Facility will not generate nuisances to the adjoining properties or the neighborhood through noise, dust, glare, vibrations, or odors. All ground equipment will be fully screened with existing landscaping and a six foot (6') tall fence. Construction will create some noise that will last approximately one month. The proposed diesel generators will be double contained and will be used in the event of a power outage. The generators will run once a week for approximately one hour for maintenance, and comply with the noise regulations of the MCC.

4. The location, design, and size of the proposed use will be adequately served by existing streets, public facilities and services.

APPLICANT RESPONSE: The proposed Facility is located on a parcel that has access on all four sides of the Church of the Nazarene campus. Access will be via the existing parking lot.

5. The proposed use will not endanger the public health or safety if located where proposed.

APPLICANT RESPONSE: The proposed use will not endanger the public health or safety on the proposed site. Applicant and collocators will comply with all applicable federal and state regulations.

6. The proposed use meets all applicable development standards of the Zoning Code.

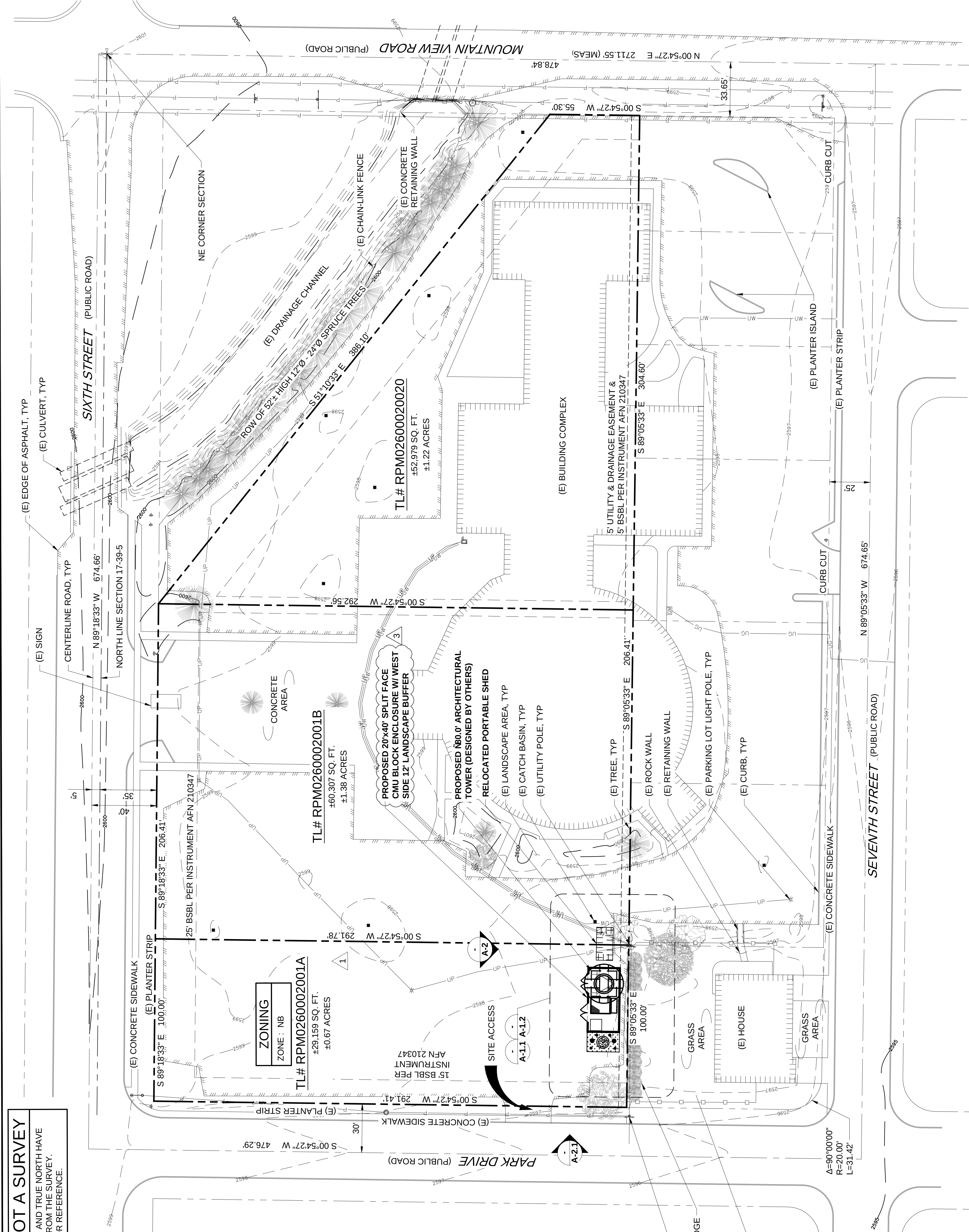
APPLICANT RESPONSE: The proposed Facility meets all applicable standards, as described above.

7. The proposed use will not be in conflict with the Comprehensive Plan.

APPLICANT RESPONSE: The proposed use will not be in conflict with the Comprehensive Plan. One of the goals of Chapter 5 of the City of Moscow Comprehensive Plan is to "plan for and provide the efficient and effective delivery of emergency services to the Community today and in the future." A goal of Chapter 6 is to "Enhance and strengthen the regional economy utilizing the strengths and assets of the region."

Residents and businesses increasingly rely on the ability to use their phones and other wireless devices both indoors and outdoors. The proposed Facility will support existing and future development as well as enhance public safety by improving emergency responses through improved connectivity for making emergency calls and access to a more reliable 4G LTE network.

THIS IS NOT A SURVEY
ALL INFORMATION AND TRUE NORTH HAVE
BEEN OBTAINED FROM THE SURVEY.
SEE SHEET C-1 FOR REFERENCE.



2

Parallel

INFRASTRUCTURE

PLANS PREPARED BY:

CORNERSTONE

ENGINEERING, INC.

18828 WOODINVILLE-REDMOND RD NE, SUITE 210
WOODINVILLE, WA 98072
PHONE: 425.487.1732
WWW.CORNERSTONE-ENGR.COM

PROJECT INFO:

PIID321 SE MOSCOW

1400 E 7TH STREET
MOSCOW, ID 83823
LATAH COUNTY

ISSUED FOR:

ZONING

REV: DATE: ISSUED FOR: BY:

3

03-12-21

CMU WALL & LANDSCAPING

JRF

2

11-19-20

ADD PARALLEL LOGO

DRA

1

11-13-20

CLIENT COMMENT

DRA

0

10-29-20

FINAL / ADD CARRIERS

DMO

DRAWN BY: CHK.: APV.:

DMO

MWO

MWO

CURRENT ISSUE DATE:

03-16-21

LICENSURE:

PROFESSIONAL ENGINEER

REGISTERED

STATE OF

IDAHO

NO. 1668

MARK W.

3-16-2021

JURISDICTIONAL APPROVAL:

PROPRIETARY INFORMATION:

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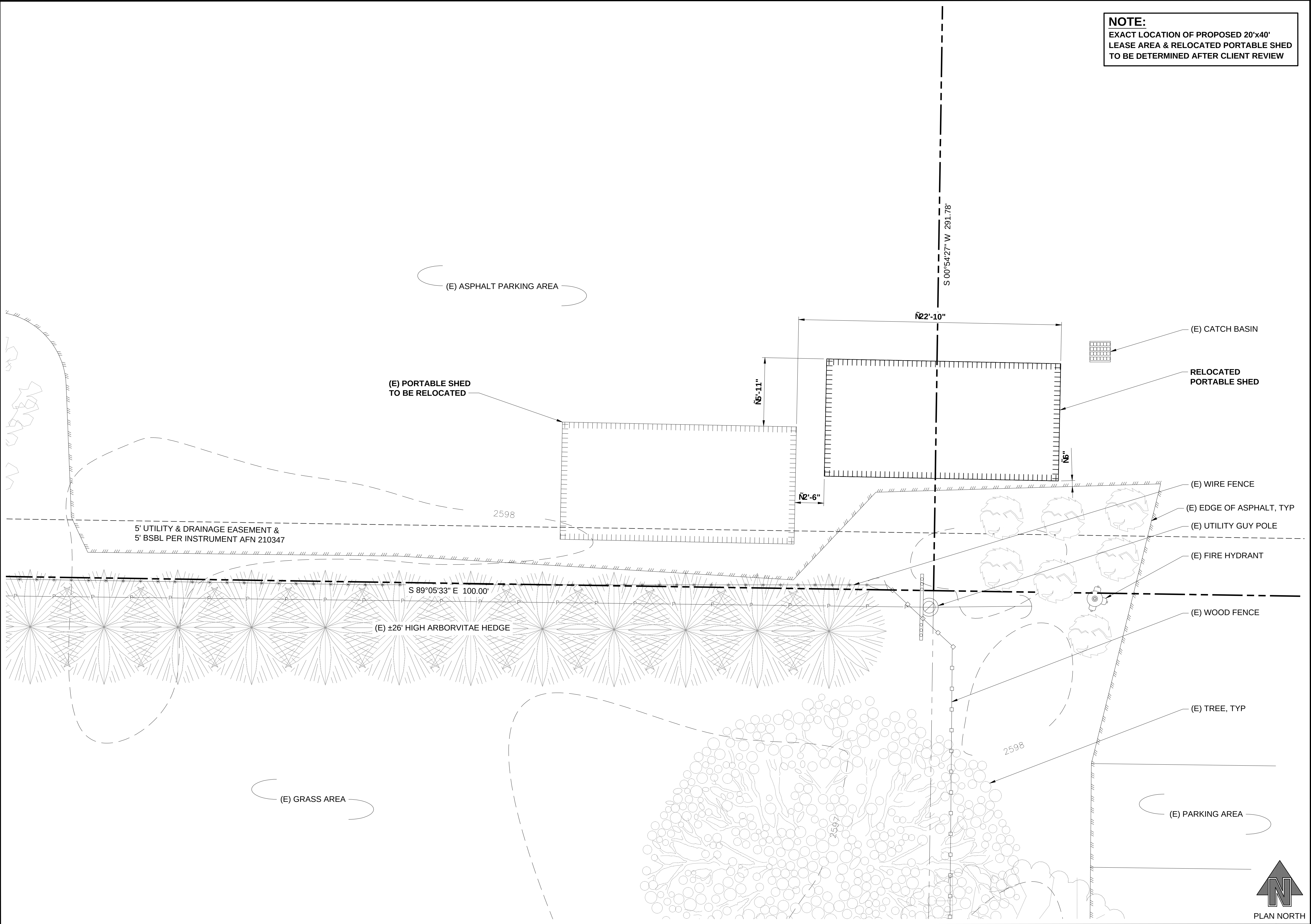
SITE PLAN

DRAWING NUMBER:

A-1

3

CEI JOB NUMBER: NSB 20-55041



NOTE:
EXACT LOCATION OF PROPOSED 20'x40'
LEASE AREA & RELOCATED PORTABLE SHED
TO BE DETERMINED AFTER CLIENT REVIEW



PLANS PREPARED BY:



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1	11-13-20	CLIENT COMMENT	DRA
0	10-29-20	FINAL / ADD CARRIERS	DMO

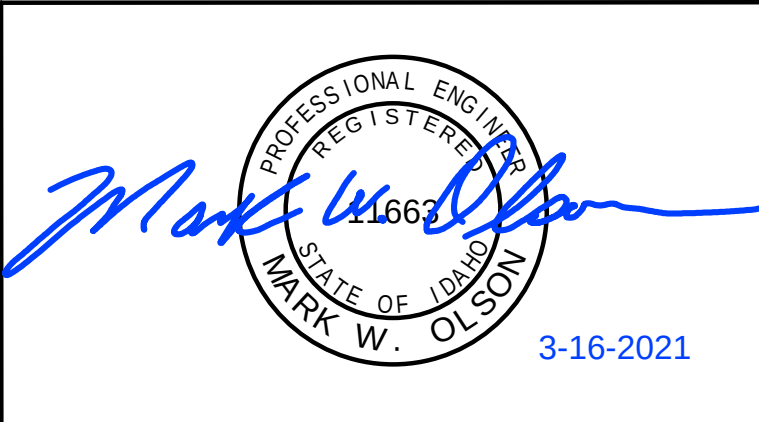
DRAWN BY: CHK.: APV.:

DMO	MWO	MWO
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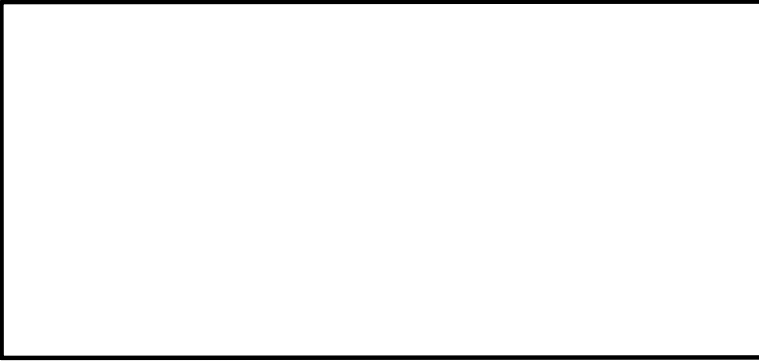
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LICENSURE:



JURISDICTIONAL APPROVAL:



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DRAWING TITLE:

EXISTING ENLARGED
COMPOUND SITE PLAN

DRAWING NUMBER:

A-1.1 3

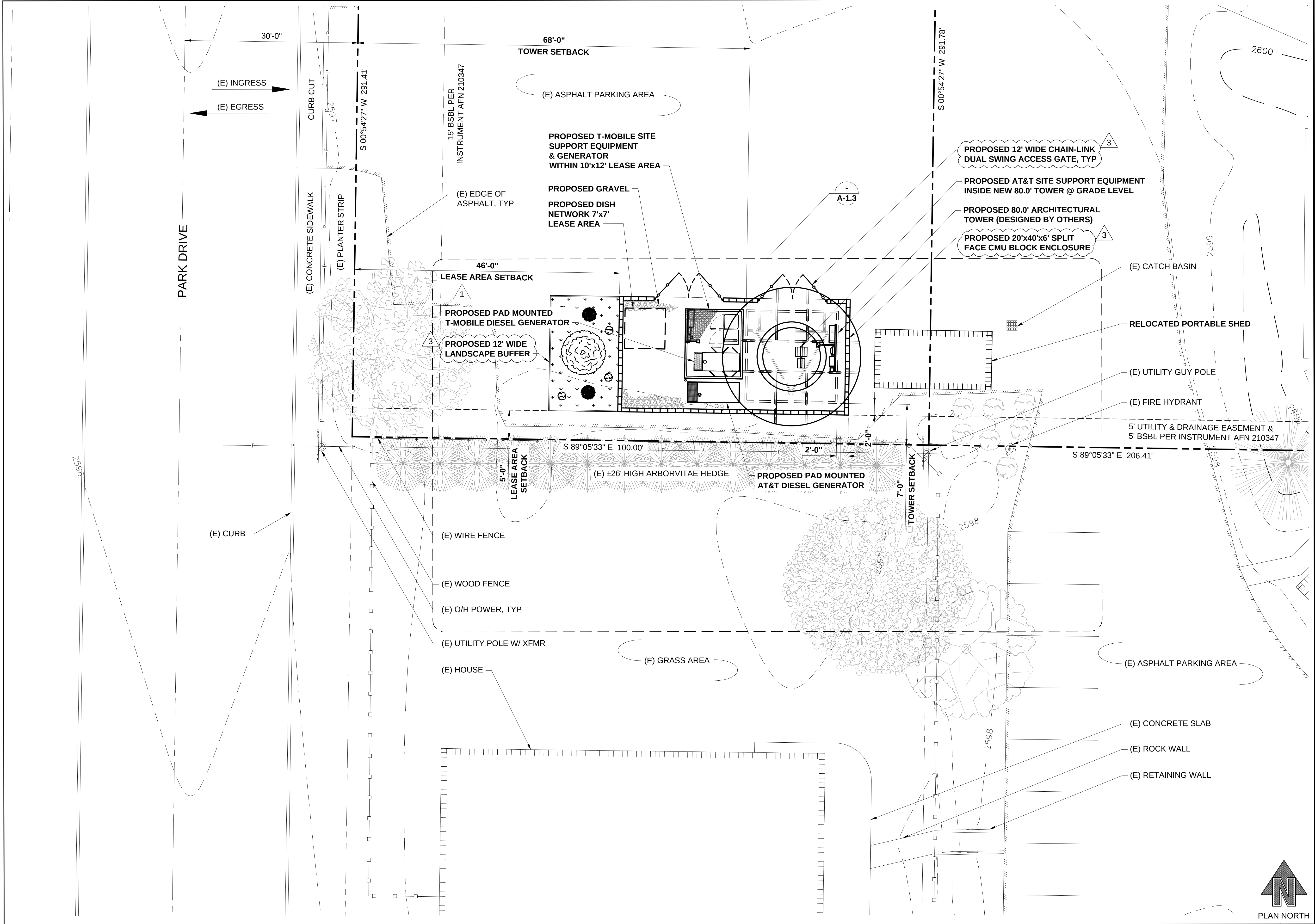
CEI JOB NUMBER: NSB 20-55041

EXISTING ENLARGED COMPOUND SITE PLAN

22x34 SCALE: 1/4" = 1'-0"

11x17 SCALE: 1/8" = 1'-0"

1



ENLARGED SITE PLAN

22x34 SCALE: 1/8" = 1'-0" 11x17 SCALE: 1/16" = 1'-0"



2

Parallel
INFRASTRUCTURE

PLANS PREPARED BY:

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0	10-29-20	FINAL / ADD CARRIERS	DMO

DRAWN BY: CHK.: APV.:

DMO	MWO	MWO
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CURRENT ISSUE DATE:

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LICENSURE:

3-16-2021

JURISDICTIONAL APPROVAL:

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DRAWING TITLE:

PROPOSED ENLARGED SITE PLAN

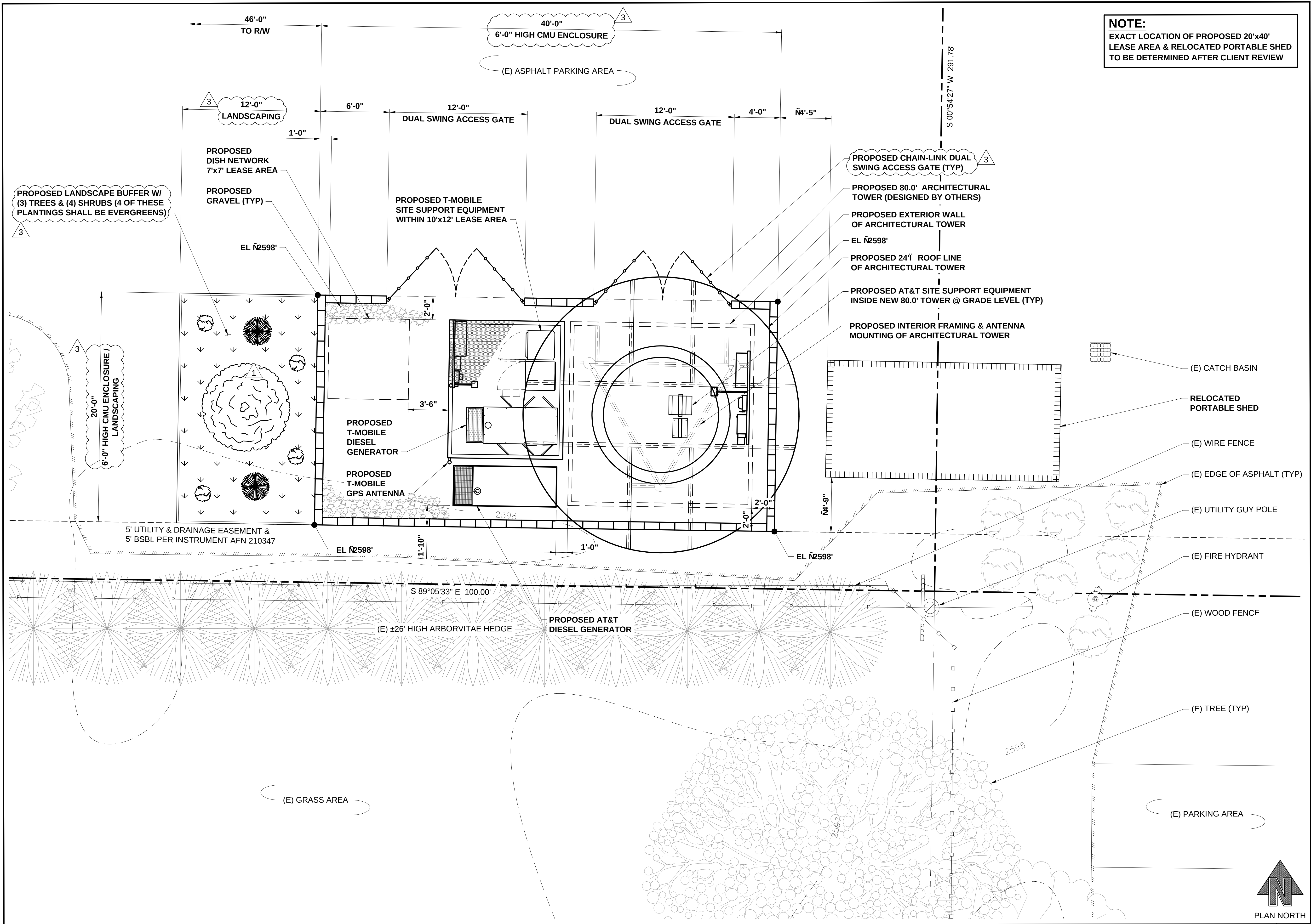
DRAWING NUMBER:

A-1.2

3

CEI JOB NUMBER:

NSB 20-55041



NOTE:
EXACT LOCATION OF PROPOSED 20'x40'
LEASE AREA & RELOCATED PORTABLE SHED
TO BE DETERMINED AFTER CLIENT REVIEW



PLANS PREPARED BY:



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LATAH COUNTY

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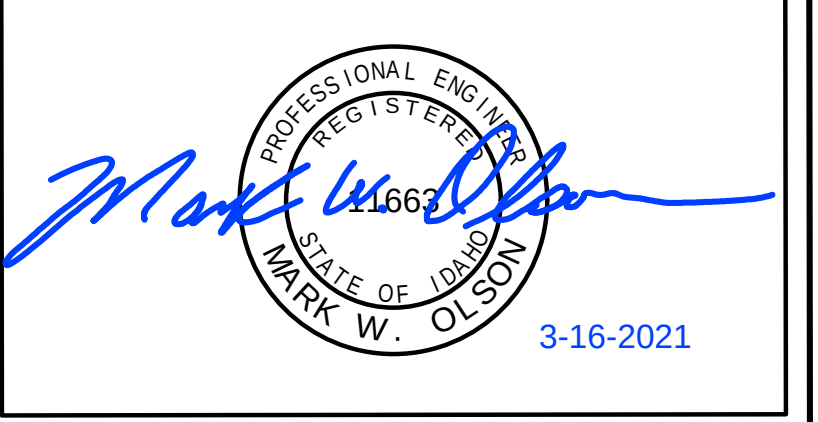
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2	11-19-20	ADD PARALLEL LOGO	DRA
1	11-13-20	CLIENT COMMENT	DRA
0	10-29-20	FINAL / ADD CARRIERS	DMO

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CURRENT ISSUE DATE:

03-16-21

LICENSURE:



JURISDICTIONAL APPROVAL:



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DRAWING TITLE:

PROPOSED ENLARGED
COMPOUND SITE PLAN

DRAWING NUMBER:

A-1.3

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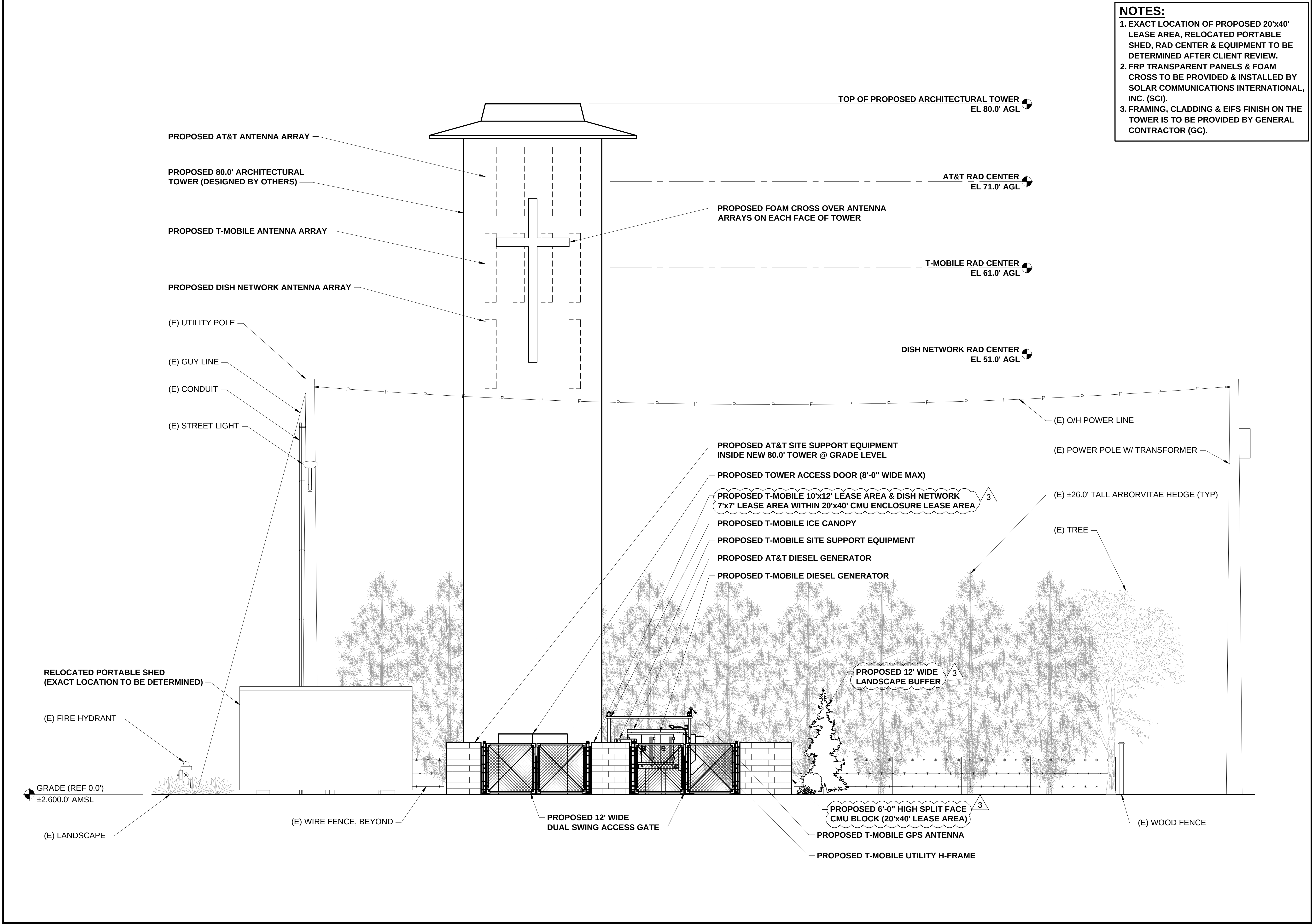
CEI JOB NUMBER: NSB 20-55041

PROPOSED ENLARGED COMPOUND SITE PLAN

22x34 SCALE: 1/4" = 1'-0"

11x17 SCALE: 1/8" = 1'-0"

1



NOTES:
1. EXACT LOCATION OF PROPOSED 20'x40' LEASE AREA, RELOCATED PORTABLE SHED, RAD CENTER & EQUIPMENT TO BE DETERMINED AFTER CLIENT REVIEW.
2. FRP TRANSPARENT PANELS & FOAM CROSS TO BE PROVIDED & INSTALLED BY SOLAR COMMUNICATIONS INTERNATIONAL, INC. (SCI).
3. FRAMING, CLADDING & EIFS FINISH ON THE TOWER IS TO BE PROVIDED BY GENERAL CONTRACTOR (GC).

2

Parallel

INFRASTRUCTURE

PLANS PREPARED BY:

CORNERSTONE

ENGINEERING, INC.

16928 WOODINVILLE-REDMOND RD NE, SUITE 210
WOODINVILLE, WA 98072
PHONE: 425.487.1732
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PROJECT INFO:

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1400 E 7TH STREET
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LATAH COUNTY

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03-12-21

CMU WALL & LANDSCAPING

JRF

2

11-19-20

ADD PARALLEL LOGO

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CLIENT COMMENT

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FINAL / ADD CARRIERS

DMO

DRAWN BY: CHK.: APV.:

DMO

MWO

MWO

CURRENT ISSUE DATE:

03-16-21

LICENSURE:

PROFESSIONAL ENGINEER
REGISTERED
11663
STATE OF IDAHO
MARK W. OLSON

3-16-2021

JURISDICTIONAL APPROVAL:

PROPRIETARY INFORMATION:

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DRAWING TITLE:

PROPOSED NORTH ELEVATION

DRAWING NUMBER:

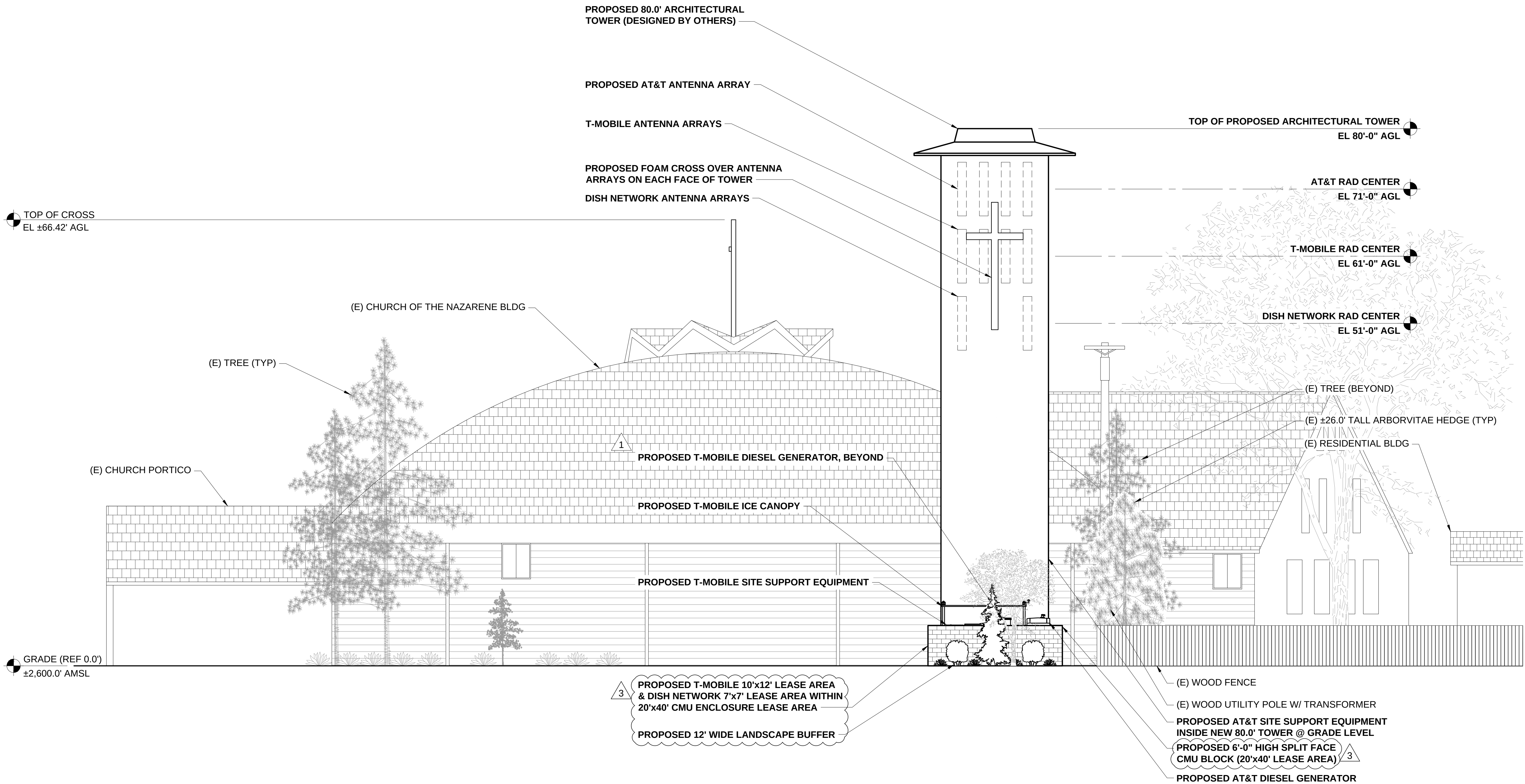
A-2

3

CEI JOB NUMBER: NSB 20-55041

1

- NOTES:**
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PROPOSED WEST ELEVATION

22x34 SCALE: 1/8" = 1'-0" 11x17 SCALE: 1/16" = 1'-0"



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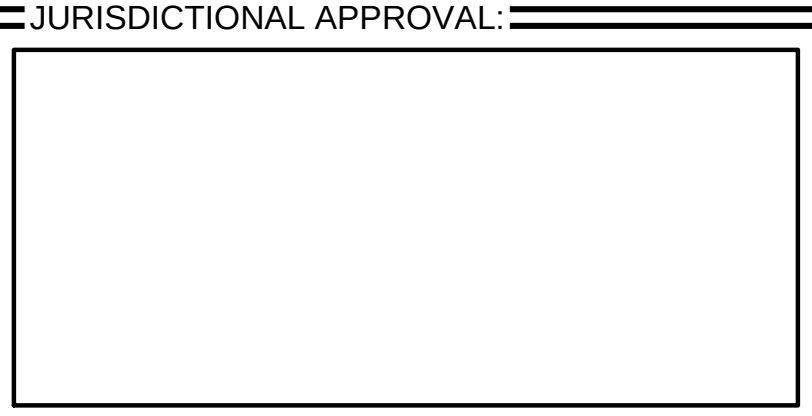
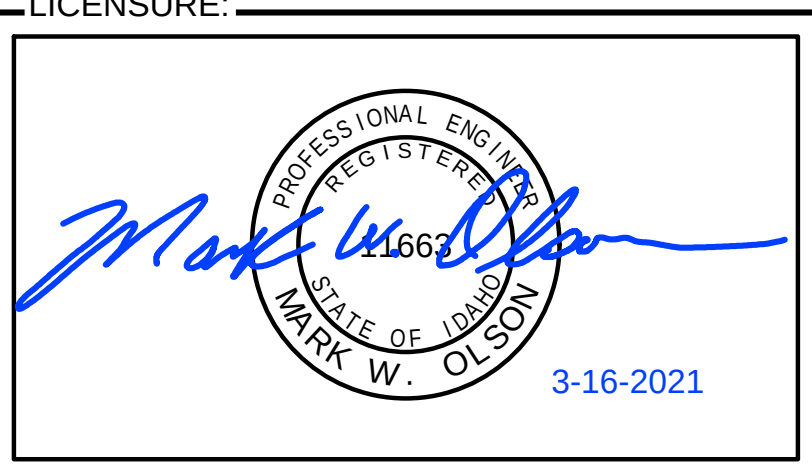
ZONING			
REV.	DATE	ISSUED FOR	BY
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DRAWN BY: CHK.: APV.:

DMO	MWO	MWO
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CURRENT ISSUE DATE:

03-16-21



PROPRIETARY INFORMATION:

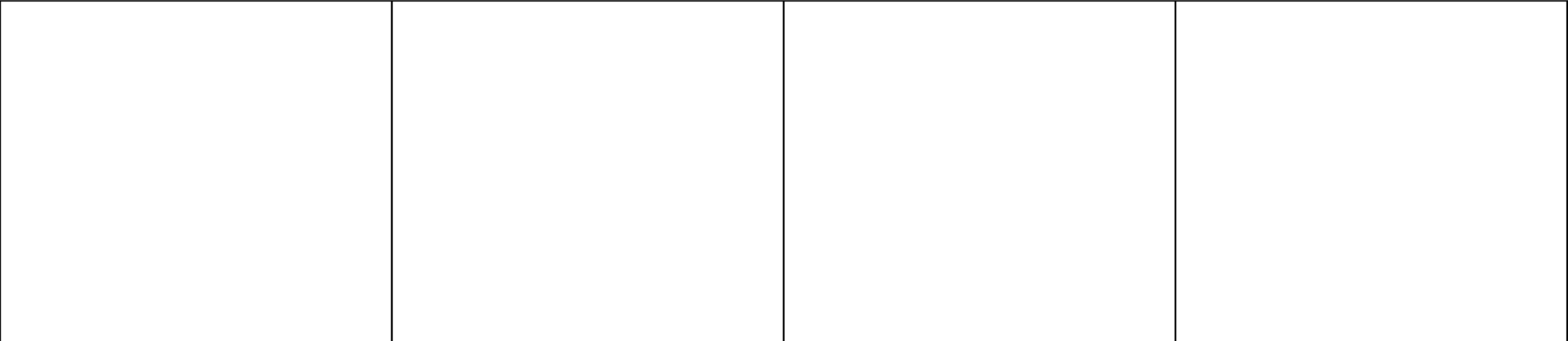
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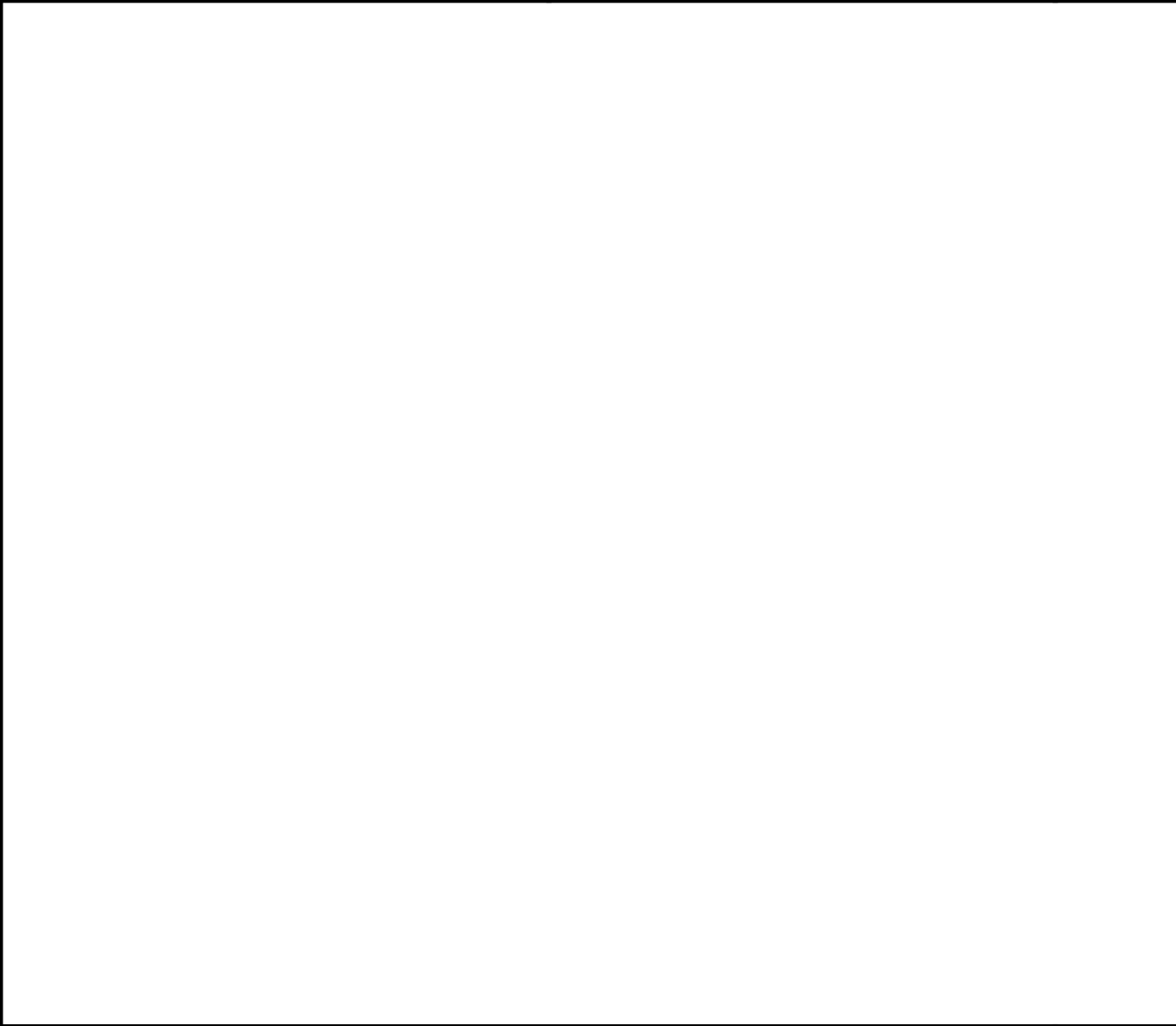
PROPOSED WEST ELEVATION

DRAWING NUMBER:

A-2.1	3
CEI JOB NUMBER:	NSB 20-55041



NOT USED		12	NOT USED		11	NOT USED		10	NOT USED		9
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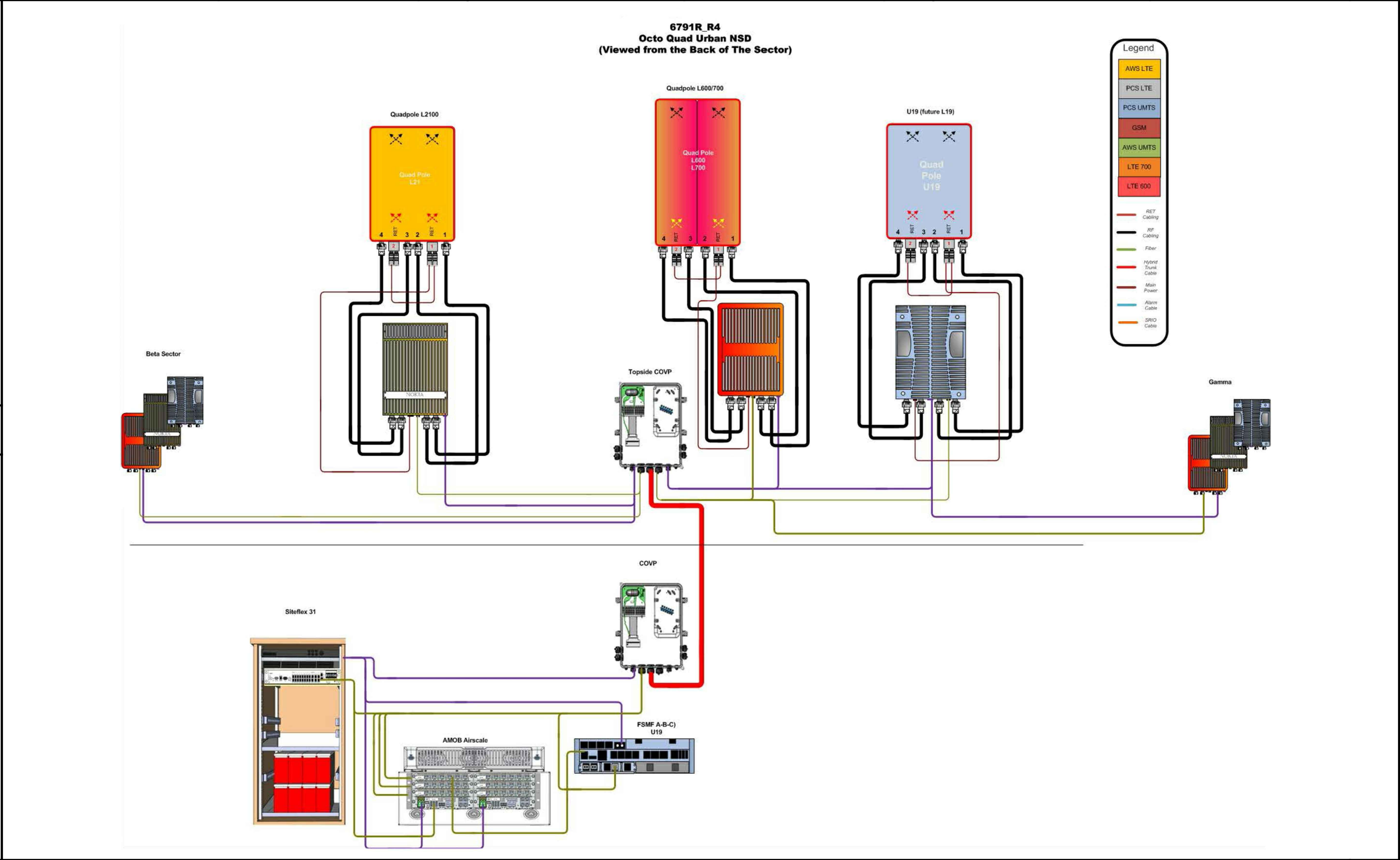


NOT USED		8
22x34 SCALE: NTS	11x17 SCALE: NTS	



NOT USED		4
22x34 SCALE: NTS	11x17 SCALE: NTS	

NOT USED		11	NOT USED		10	NOT USED		9
22x34 SCALE: NTS	11x17 SCALE: NTS		22x34 SCALE: NTS	11x17 SCALE: NTS		22x34 SCALE: NTS	11x17 SCALE: NTS	



PROPOSED ALL SECTORS		1
22x34 SCALE: NTS	11x17 SCALE: NTS	

2

Parallel
INFRASTRUCTURE

PLANS PREPARED BY:

CORNERSTONE
ENGINEERING, INC.

16928 WOODINVILLE-REDMOND RD NE, SUITE 210
WOODINVILLE, WA 98072
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PROJECT INFO:

PIID321 SE MOSCOW

1400 E 7TH STREET
MOSCOW, ID 83823
LATAH COUNTY

ISSUED FOR:

ZONING

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3

03-12-21

CMU WALL & LANDSCAPING

JRF

2

11-19-20

ADD PARALLEL LOGO

DRA

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11-13-20

CLIENT COMMENT

DRA

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10-29-20

FINAL / ADD CARRIERS

DMO

DRAWN BY: CHK.: APV.:

DMO

MWO

MWO

CURRENT ISSUE DATE:

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LICENSURE:

PROFESSIONAL ENGINEER
REGISTERED
11663
STATE OF IDAHO
MARK W. OLSON

3-16-2021

JURISDICTIONAL APPROVAL:

PROPRIETARY INFORMATION:

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DRAWING TITLE:

T- MOBILE RF DETAILS

DRAWING NUMBER:

RF-1

3

CEI JOB NUMBER: NSB 20-55041





Recieved 02-19-2021



Recieved 02-19-2021





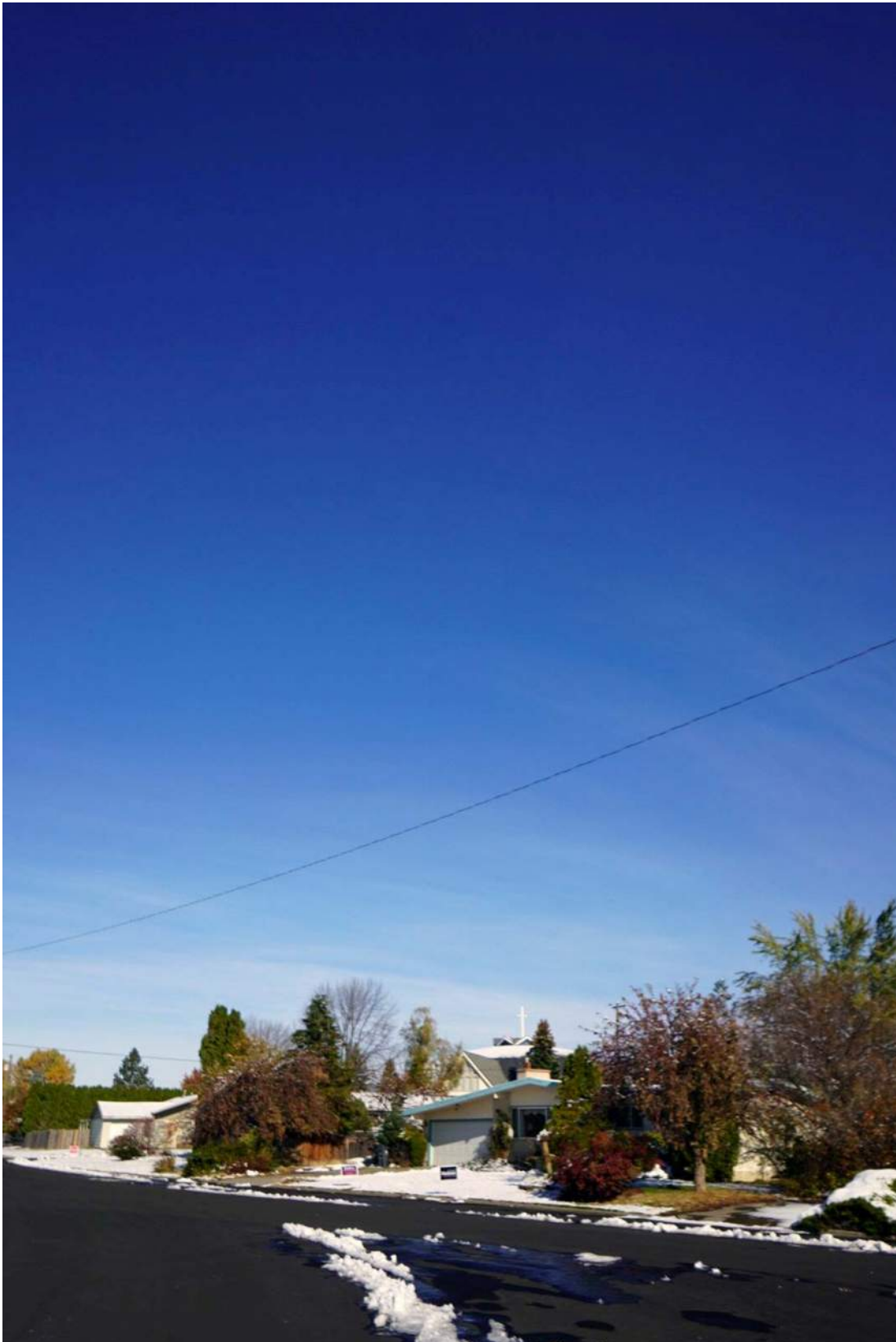


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PIID321 SE MOSCOW
EXISTING SOUTHEAST ELEVATION



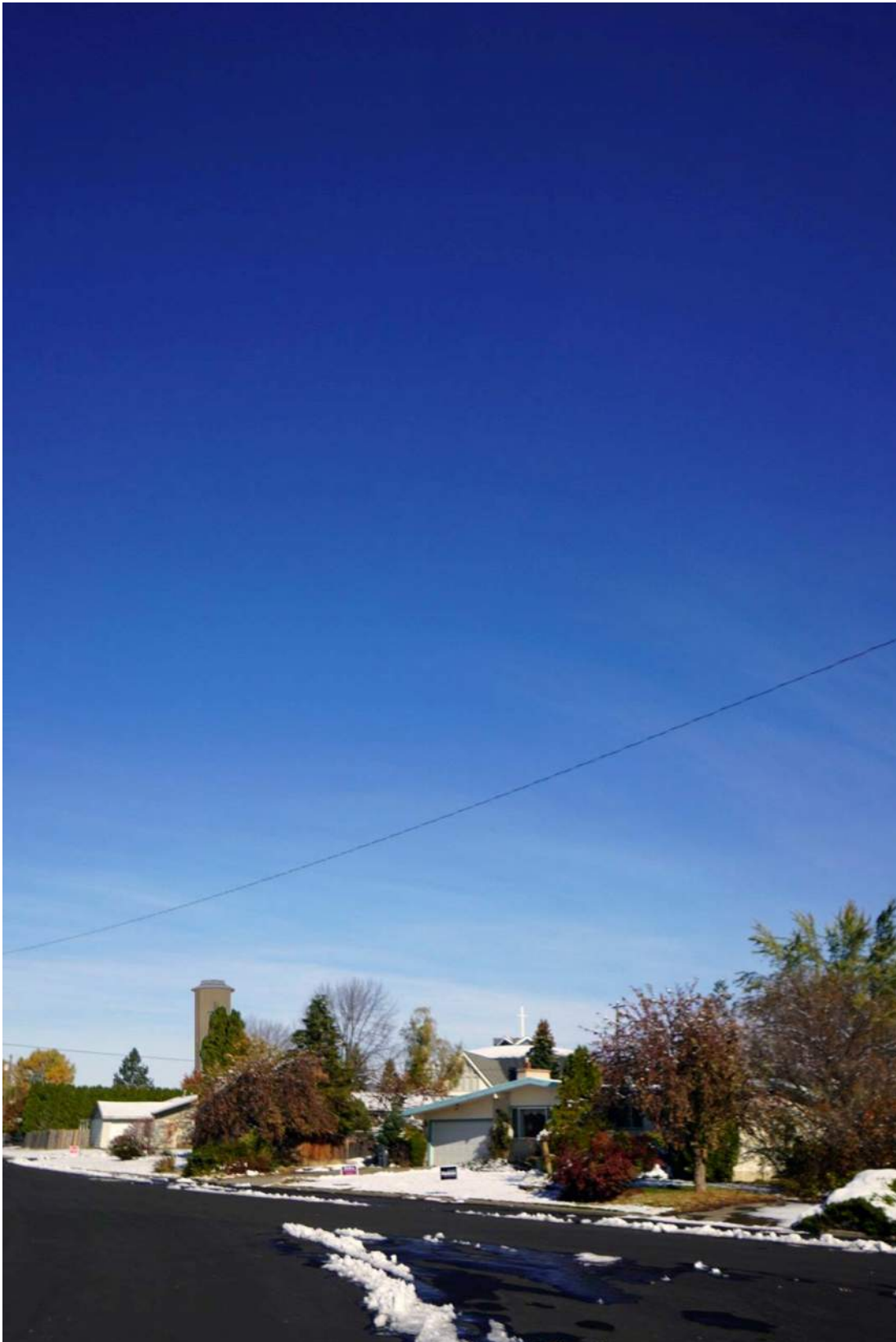
Recieved 02-19-2021



PIID321 SE MOSCOW
EXISTING SOUTH ELEVATION



Received 02-19-2021



PIID321 SE MOSCOW
PROPOSED SOUTH ELEVATION



Recieved 02-19-2021



AT&T

Len F. Dalton
AREA MANAGER

ACCESS, CONSTRUCTION and ENGINEERING
19801 SW 72nd Ave
Suite 110
Tualatin, OR 97062

T - 971.254.5453
Len.Dalton@att.com

LUP2021-0004

February 8, 2021

City of Moscow
Community Planning & Design
PO Box 9203
Moscow, ID 83843

VIA EMAIL

**RE: AT&T Site # LM0572
Proposed Wireless Facilities at 1400 E 7th Street, Moscow, ID 83823
Statement of Need and RF Justification**

Dear Sir or Madam:

Please accept this letter expressing the need for New Cingular Wireless PCS, LLC ("AT&T") to collocate a wireless facility on Parallel Infrastructure's proposed antenna tower at 1400 E 7th Street, described in the accompanying application.

The proposed facility is a service coverage and capacity site intended to provide new dominant 4G LTE coverage and enhanced capacity in and around east Moscow. Currently, portions of east Moscow have minimal to no 4G voice service and AT&T's existing 4G LTE coverage in the area is at or near its capacity and is insufficient for the volume of traffic.

As shown in the RF Justification included in this application, AT&T's Radio Frequency (RF) engineers have determined that the proposed 75 ft. antenna tip height is the minimum necessary to meet AT&T's service objectives within east Moscow.

The proposed facility will support AT&T's service objectives to provide continuous and uninterrupted outdoor, in-vehicle, and in-building wireless service within east Moscow, resulting in fewer dropped calls, improved call quality, and improved access to additional wireless services the public now demands (including emergency 911 calls).

Sincerely,

Len F. Dalton
Area Manager - PNW
ATT Mobility - ACE West



LM0572 SE Moscow RF Justification

Recieved 02-19-2021

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SERVICE OBJECTIVES & TARGETED SERVICE AREA

AT&T is proposing to install a new wireless communication facility (“WCF” and/or “Facility”) LM0572, as a collocation on a new support tower at 1400 E 7th Street, Moscow, ID.

In addition to AT&T 4G LTE commercial facilities, this proposed WCF will include facilities to support the FirstNet Network. As a FirstNet site, this proposed WCF is part of a more significant initiative by AT&T to upgrade existing wireless sites and to build new sites to support FirstNet and deploy the new frequency band for first responders (“Band 14”).

Service Objectives—Proposed New Facility

The proposed Facility is a service coverage and capacity site intended to provide new dominant 4G LTE coverage and enhanced capacity in and around east Moscow (the “Targeted Service Area”). Currently, portions of east Moscow have minimal to no 4G voice service and AT&T’s existing 4G LTE coverage in the area is at or near its capacity and is insufficient for the volume of traffic.

As determined by AT&T’s RF engineers, the proposed new Facility meets AT&T’s service objectives to provide continuous and uninterrupted outdoor, in-vehicle, and in-building wireless service within the Targeted Service Area, resulting in fewer dropped calls, improved call quality, and improved access to additional wireless services the public now demands (including emergency 911 calls). The service objective, Targeted Service Area, and proposed location were determined by AT&T’s RF engineers through a combined analysis of market demand, customer complaints, service requests, and RF engineering design (including SINR metrics).

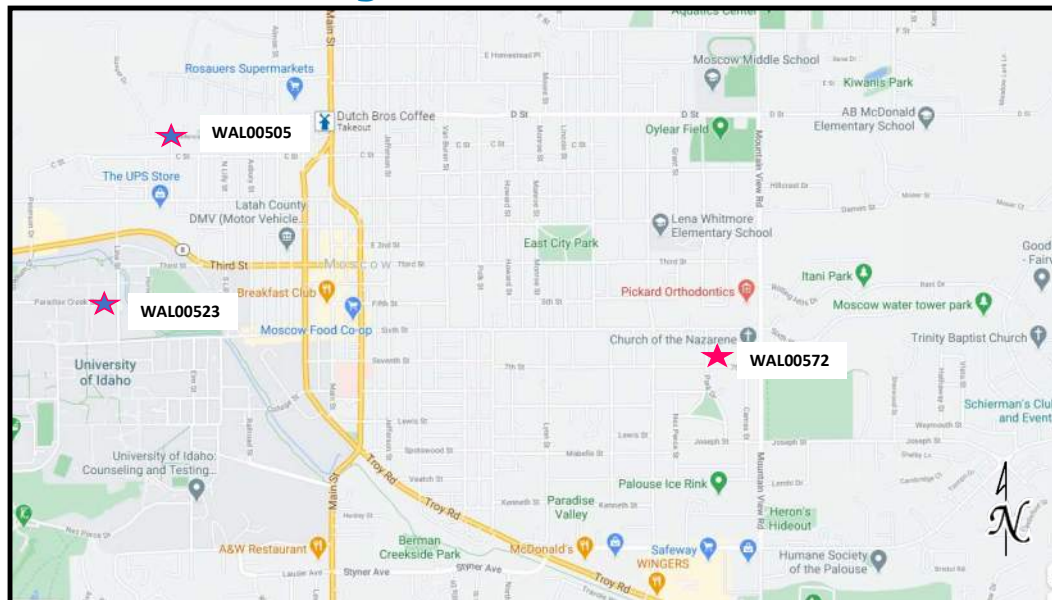
Received 02-19-2021

SEARCH RING

AT&T's RF engineers performed an RF engineering study—considering multiple objectives—to determine the approximate site location and antenna height required to best fulfill the noted service objectives within the Targeted Service Area. From this study, AT&T's RF engineers identified a “search ring” area, as shown in **Figure A—Search Ring**, below, where a new wireless facility may be located to provide effective service in the Targeted Service Area. A discussion of the general methodology AT&T's RF engineers used to identify the search ring is included at the end of this RF Justification document.

Radio frequency broadcasts travel in a straight line and diminish as they travel further away from the antennas; therefore, it is generally best to locate a facility near the center of the identified Search Ring and Targeted Service Area. Furthermore, as the proposed WCF is intended to close a specific coverage gap and offload capacity in a specific area it is even more important for the Facility to be strategically located to be able to close existing coverage gaps and establish a dominant signal within the Targeted Service Area—*i.e.* so that the new site will provide dominant service to users' handsets and prevent them from communicating with AT&T's other existing sites, thereby improving operational efficiency and relieving some of the burden on AT&T's existing facilities by offloading users' data requirements to the new site.

Figure A—Search Ring



Received 02-19-2021

PROPOSED NEW AT&T FACILITY

Antennas and Equipment

To meet AT&T's service objectives within the Targeted Service Area, AT&T is proposing to install up to twelve (12) panel antennas and twelve (18) remote radio head (RRH) units, together with all associated equipment.

Required Antenna Height

As the proposed new Facility is intended to close coverage gaps and enhance existing capacity, in addition to location, height plays a significant role in ensuring the facility meets AT&T's service objectives. The proposed antenna tip height was determined by considering various factors such as the height of surrounding wireless sites, ground elevation, obstructions to the signal, and the surrounding terrain. For optimal service performance within the Targeted Service Area, AT&T's RF engineers estimated that a 150ft antenna tip height is needed. Because a 150ft antenna tip height is not logistically obtainable, AT&T's RF engineers determined that the proposed 75ft antenna tip height is the minimum necessary to meet AT&T's service objectives within the Targeted Service Area. As further demonstrated herein, a lower antenna tip height at this location would not provide the needed new service to close the coverage gaps and enhance capacity improvement within the Targeted Service Area. The proposed antenna tip height is also the minimum height where an AT&T wireless device can be reliably used to make and receive telephone calls and use data service in the presence of varying signals.

Projected New Coverage

Based upon the proposed location, equipment, and antenna tip height, AT&T's RF engineers project that the proposed new Facility will provide the following new and enhanced AT&T 4G LTE coverage within the Targeted Service Area.

Figure B—Existing AT&T 4G LTE Coverage shows existing AT&T 4G LTE wireless services in the general area of the proposed new WCF, which demonstrates the current gap in coverage in the Targeted Service Area. As can be seen, there is a coverage gap in all areas not shaded in green.

Figure C.1—New AT&T 4G LTE Coverage identifies the projected new AT&T 4G LTE coverage from the proposed new WCF with the requested antenna tip height of 75ft.

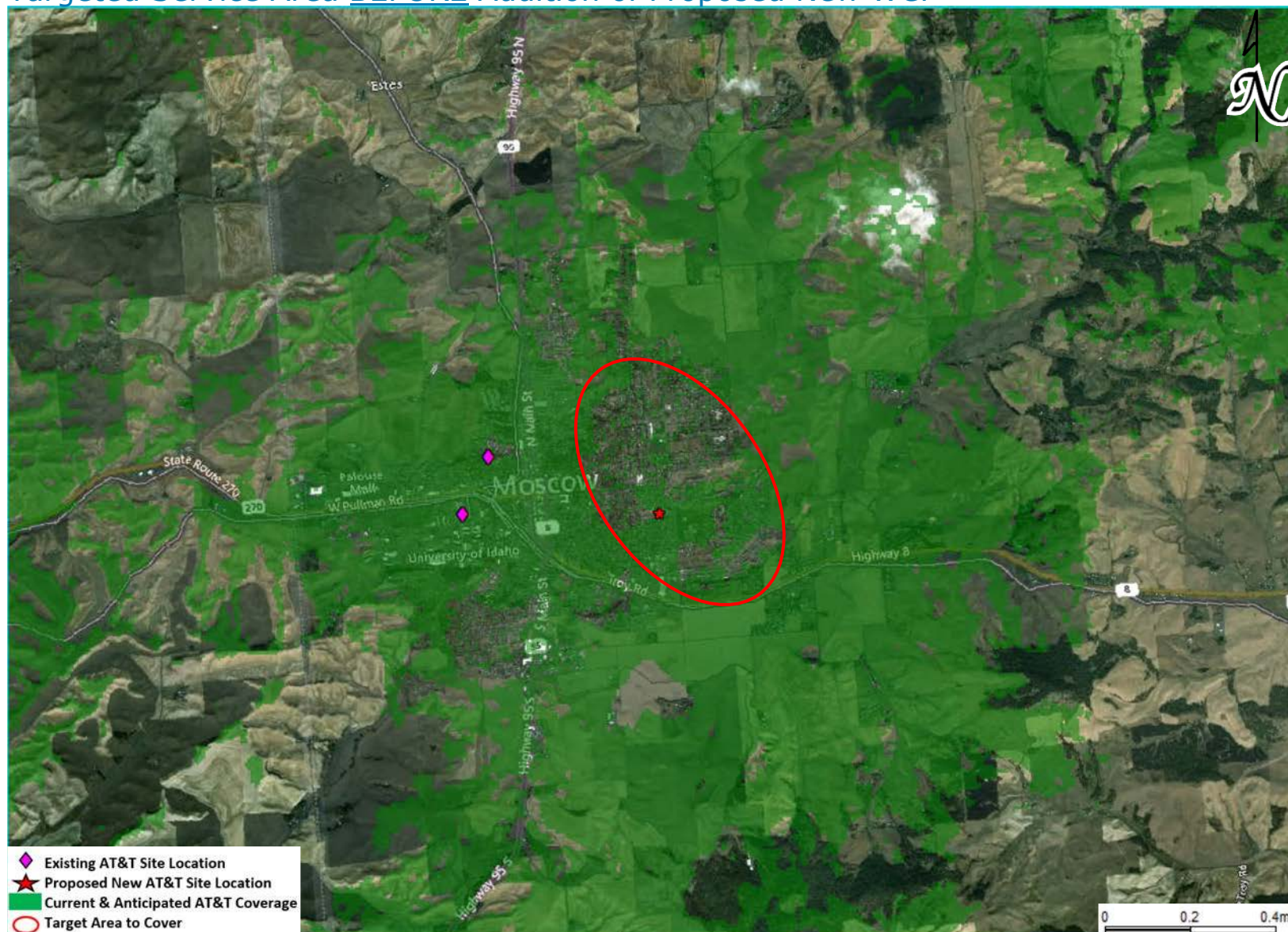
Figure C.2—New AT&T 4G LTE Coverage—ZOOMED IN specifically zooms in to show the projected new AT&T 4G LTE coverage within the Targeted Service Area from the proposed new WCF with the requested antenna tip height of 75ft.

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Figure B—Existing AT&T 4G LTE Coverage

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Targeted Service Area BEFORE Addition of Proposed New WCF



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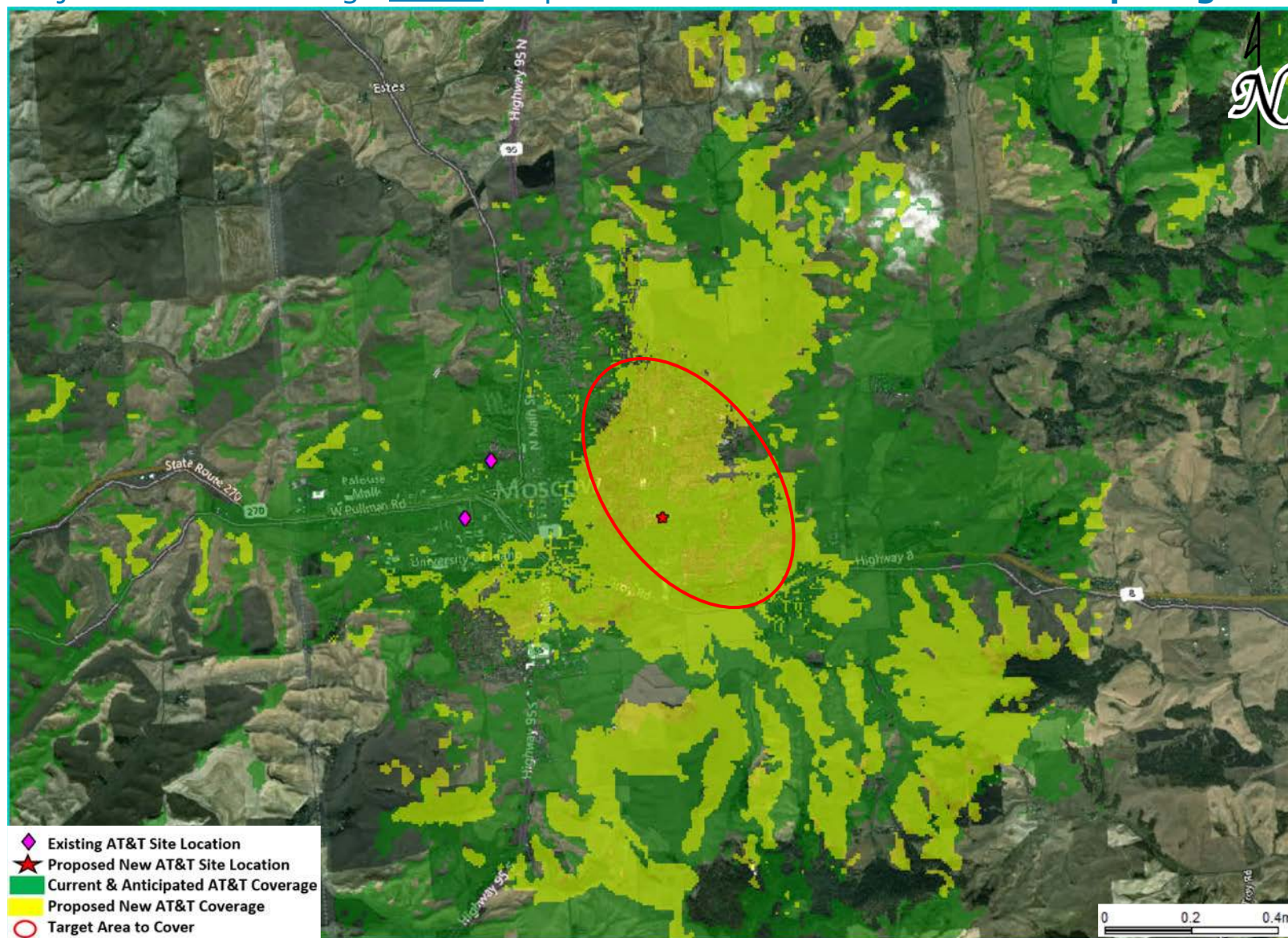
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Figure C.1—New AT&T 4G LTE Coverage

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Projected New Coverage AFTER Proposed WCF On-Air—75ft Antenna Tip Height



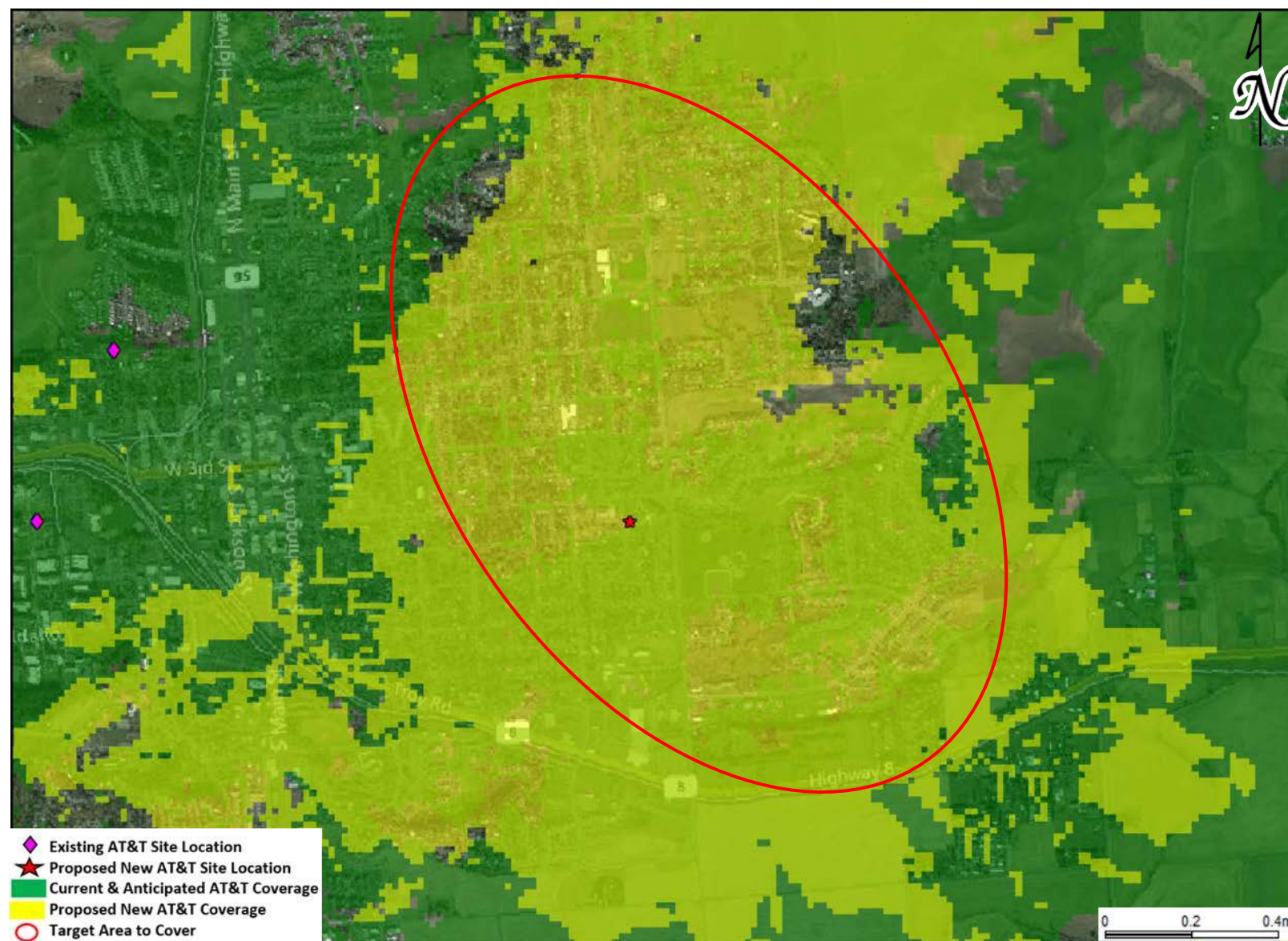
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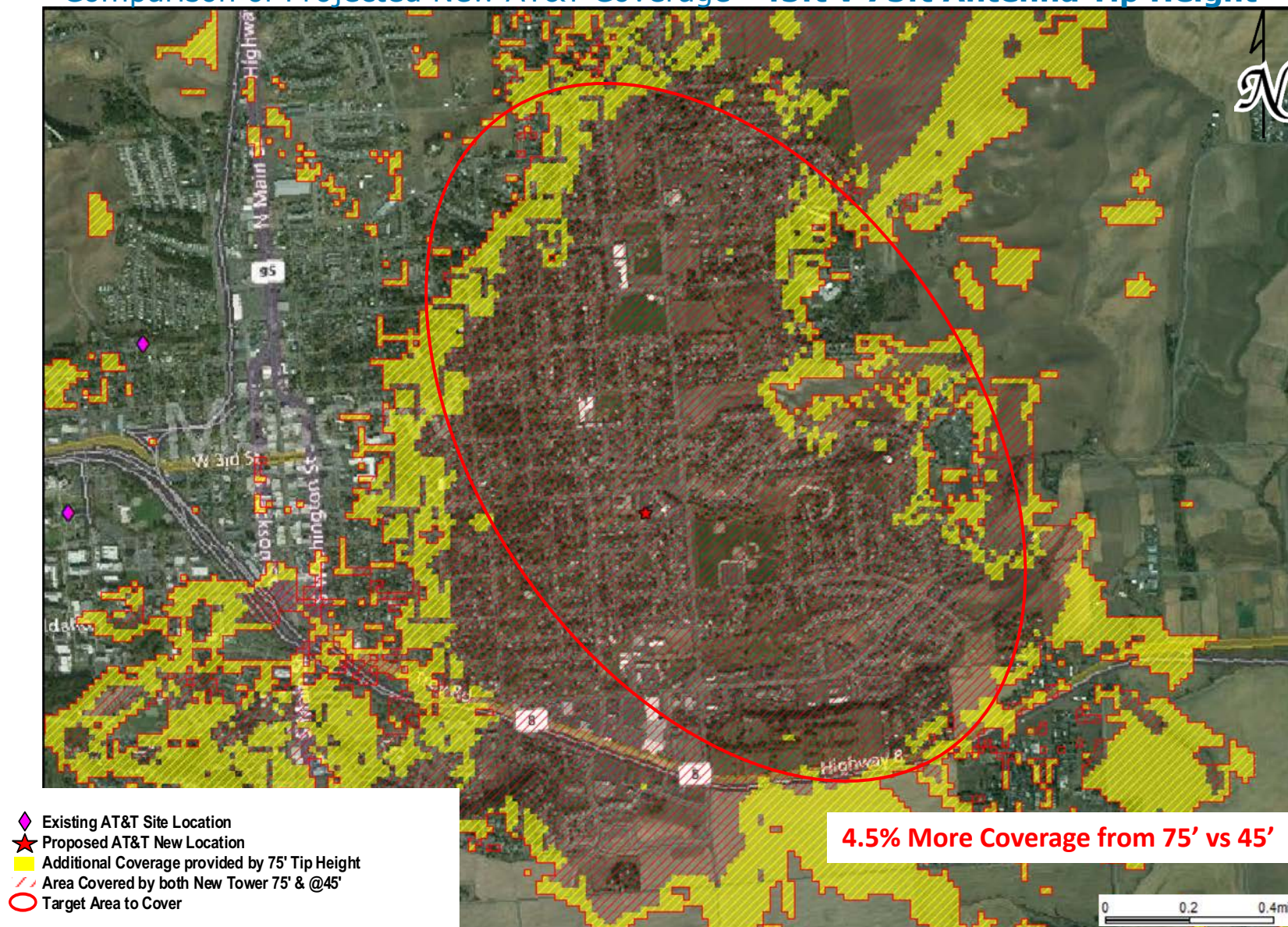
Figure C.2—New AT&T 4G LTE Coverage-ZOOMED IN LUP2021-0004
 Projected New Coverage AFTER Proposed WCF On-Air—**75ft Antenna Tip Height**



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Figure D.1—Height Comparison—New AT&T 4G LTE Coverage
 Comparison of Projected New AT&T Coverage—45ft v 75ft Antenna Tip Height

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ALTERNATIVE SITE ANALYSIS

AT&T's RF engineers evaluated four alternative site locations within and directly adjacent to the targeted search ring as potential locations for the proposed new WCF. **Figure E—Alternative Site Locations** shows the location of the alternative site in relation to the proposed new site location.

Alternative Site #1—Moscow Park Water Tank (46.730575 / -116.969150). Alternative Site #1 is a potential collocation site on the existing Moscow Park Water Tank, approximately 0.63 miles NE of the proposed new WCF. As shown in **Figure F—Comparison—Alternative Site #1**, the proposed WCF with a 75ft antenna tip height is projected to provide 1.2% more coverage within the Targeted Service Area than Alternative Site #1 with an estimated 39ft antenna tip height. Although this may seem like an insignificant difference in coverage, this alternative site would not address some of the weak performance areas needing increased capacity. This is because the water tank is further east and does not provide as concentrated coverage in the center of the Targeted Service Area as the proposed WCF. Additionally, a facility at this alternative location would create a significant coverage overlap with AT&T's existing coverage, creating increased signal interference that would make it difficult for the new facility to establish dominant coverage. Therefore, Alternative Site #1 is not a suitable location because it would not provide the service coverage required to meet AT&T's service objectives within the Targeted Service Area.

Alternative Site #2—Brink Park (46.727213 / -116.978024). Alternative Site #2 is a potential raw land site at Carole Ryrle Brink Park off Joseph St, approximately 0.27 mi south SE from the proposed new WCF. As shown in **Figure G—Comparison—Alternative Site #2**, the proposed WCF with a 75ft antenna tip height is projected to provide 15% more coverage within the Targeted Service Area than Alternative Site #2 with an estimated 75ft antenna tip height. This location would provide limited coverage primarily only to the commercial areas. Therefore, Alternative Site #2 is not a suitable location because it would not provide the service coverage required to meet AT&T's service objectives within the Targeted Service Area.

Alternative Site #3—8th St Water Tank (46.726729 / -116.988959)—Alternative Site #3 is a potential collocation site on the existing water tank off E. 8th Street, approximately 0.35 mi SW from the proposed new WCF. As shown in **Figure H—Comparison—Alternative Site #3**, the proposed WCF with a 75ft antenna tip height is projected to provide 84.5% more coverage within the Targeted Service Area than Alternative Site #3 with an estimated 30ft antenna tip height. This location would provide very limited coverage primarily only to the commercial areas. Therefore, Alternative Site #3 is not a suitable location because it would not provide the service coverage required to meet AT&T's service objectives within the Targeted Service Area.

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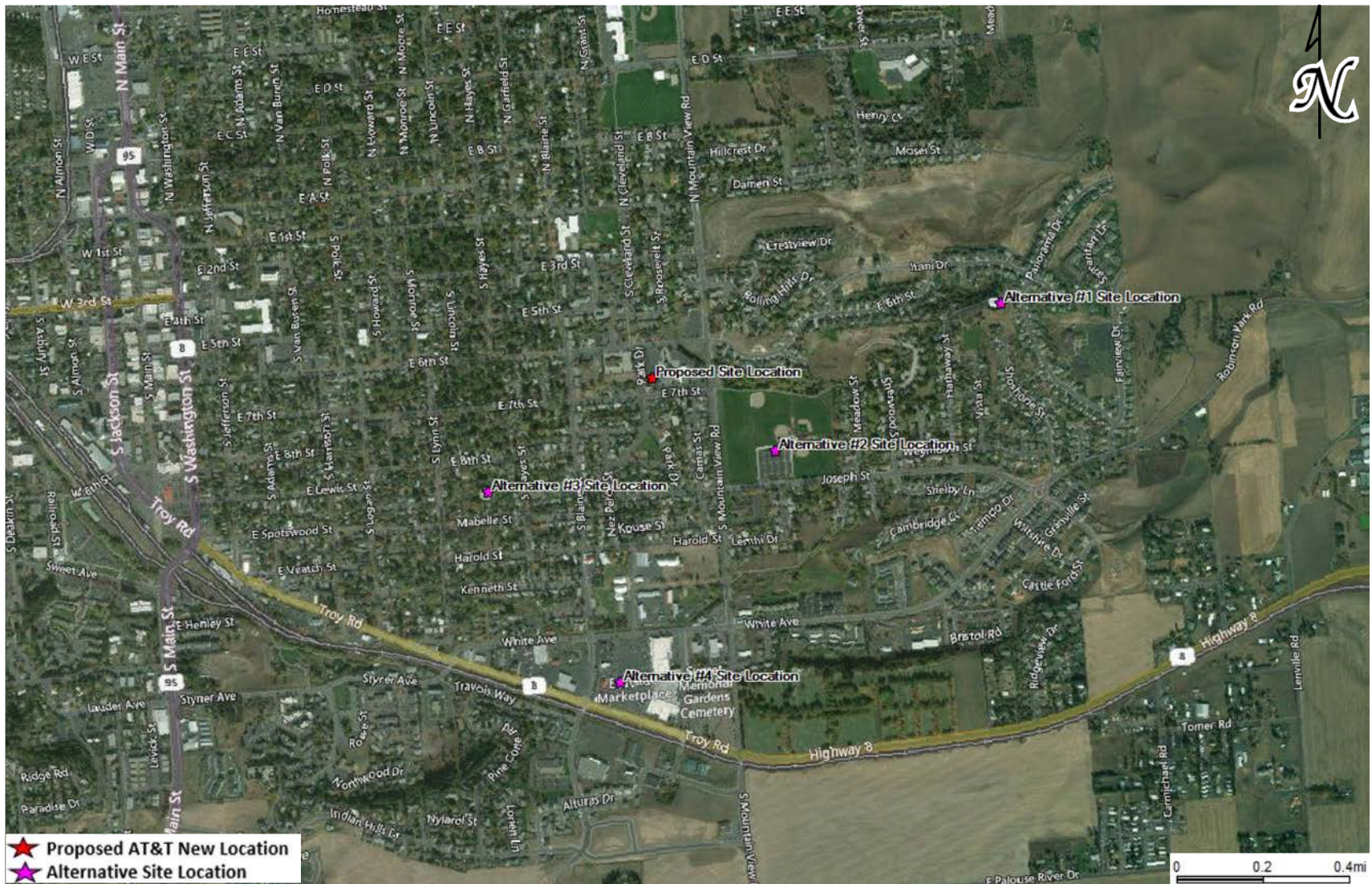
ALTERNATIVE SITE ANALYSIS, cont'd.

Alternative Site #4—Commercial Property (46.721561 / -116.984535)—Alternative Site #4 is a potential raw land site on a commercial property approximately 0.35mi S from the proposed new WCF. As shown in **Figure I—Comparison—Alternative Site #4**, the proposed WCF with a 75ft antenna tip height is projected to provide 14% more coverage within the Targeted Service Area than Alternative Site #4 with an estimated 96ft antenna tip height. This location would provide limited coverage primarily only to the commercial areas and also facility at this alternative location would create a significant coverage overlap with AT&T's existing coverage, creating increased signal interference that would make it difficult for the new facility to establish dominant coverage. The weak service performance experienced by AT&T customers in the northern portion of the Targeted Service Area will also not be addressed. Therefore, Alternative Site #4 is not a suitable location because it would not provide the coverage required to meet AT&T's service objectives within the Targeted Service Area.

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Figure E—Alternative Site Locations

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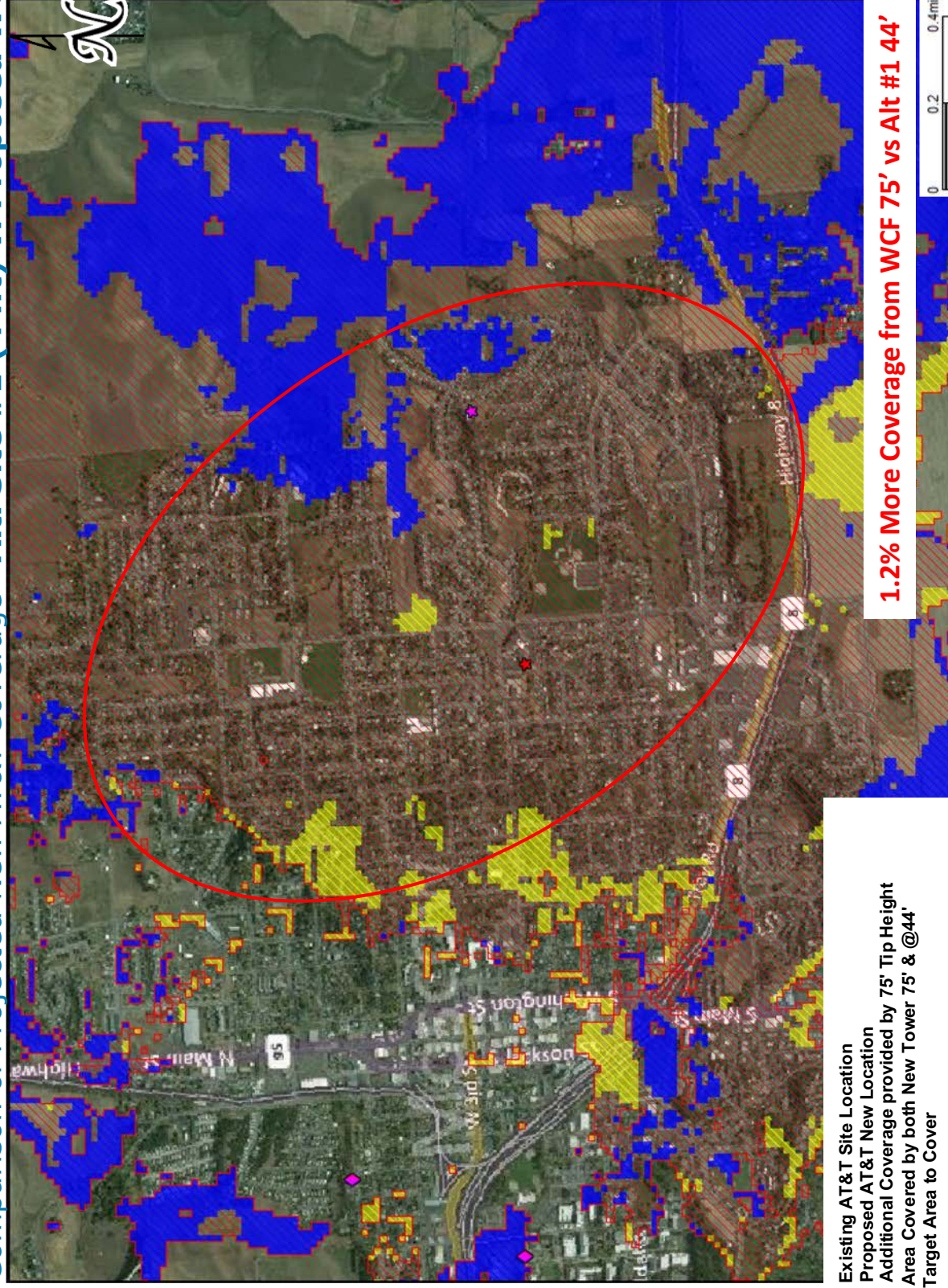
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Figure F—Comparison—Alternative Site #1

Comparison of Projected New AT&T Coverage—Alt. Site #1 (44ft) v. Proposed WCF (75ft)

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1.2% More Coverage from WCF 75' vs Alt #1 44'

- Existing AT&T Site Location
- Proposed AT&T New Location
- Additional Coverage provided by 75' Tip Height
- Area Covered by both New Tower 75' & @44'
- Target Area to Cover

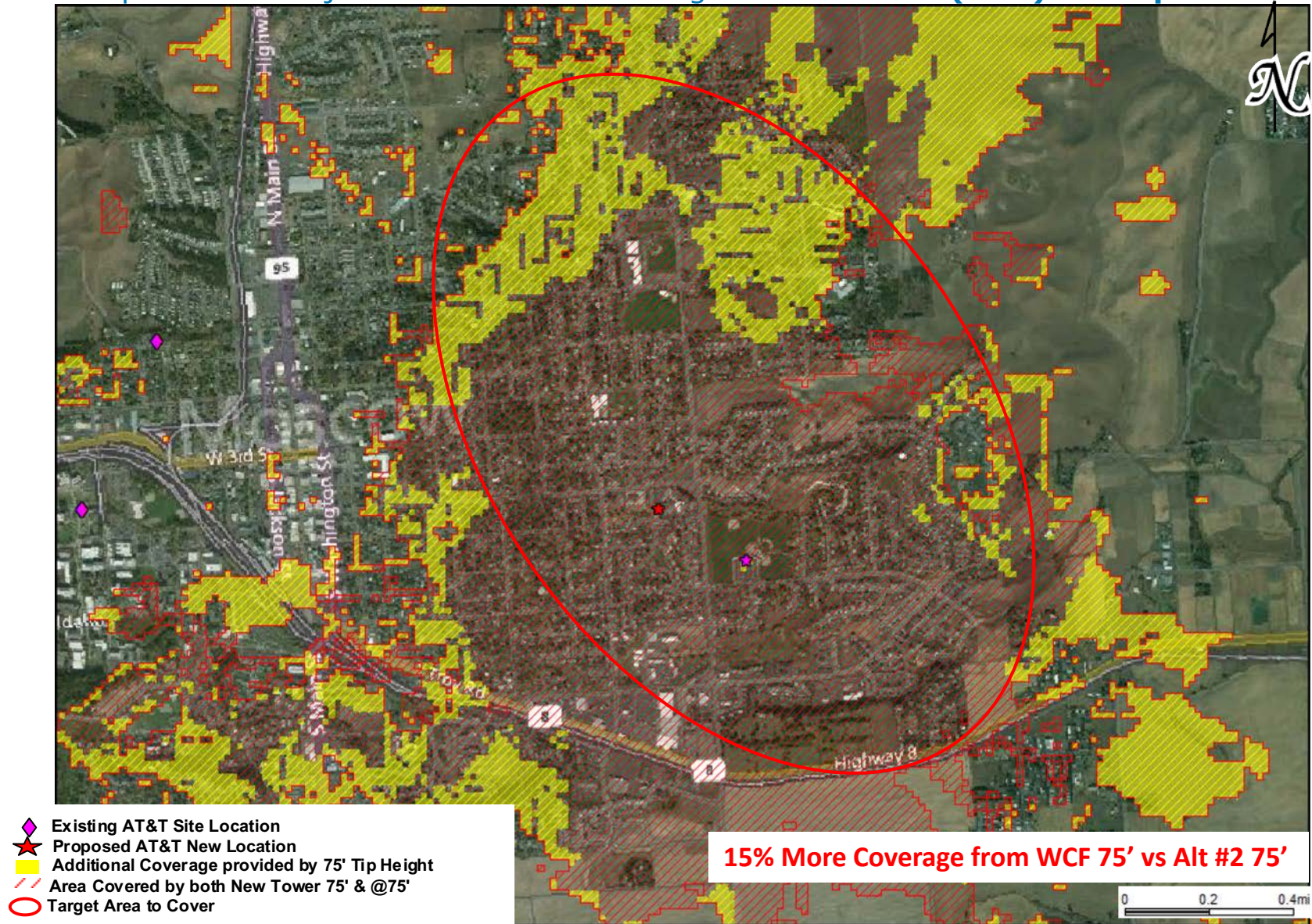
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Figure G—Comparison—Alternative Site #2

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Comparison of Projected New AT&T Coverage—Alt. Site #2 (75ft) v. Proposed WCF (75ft)

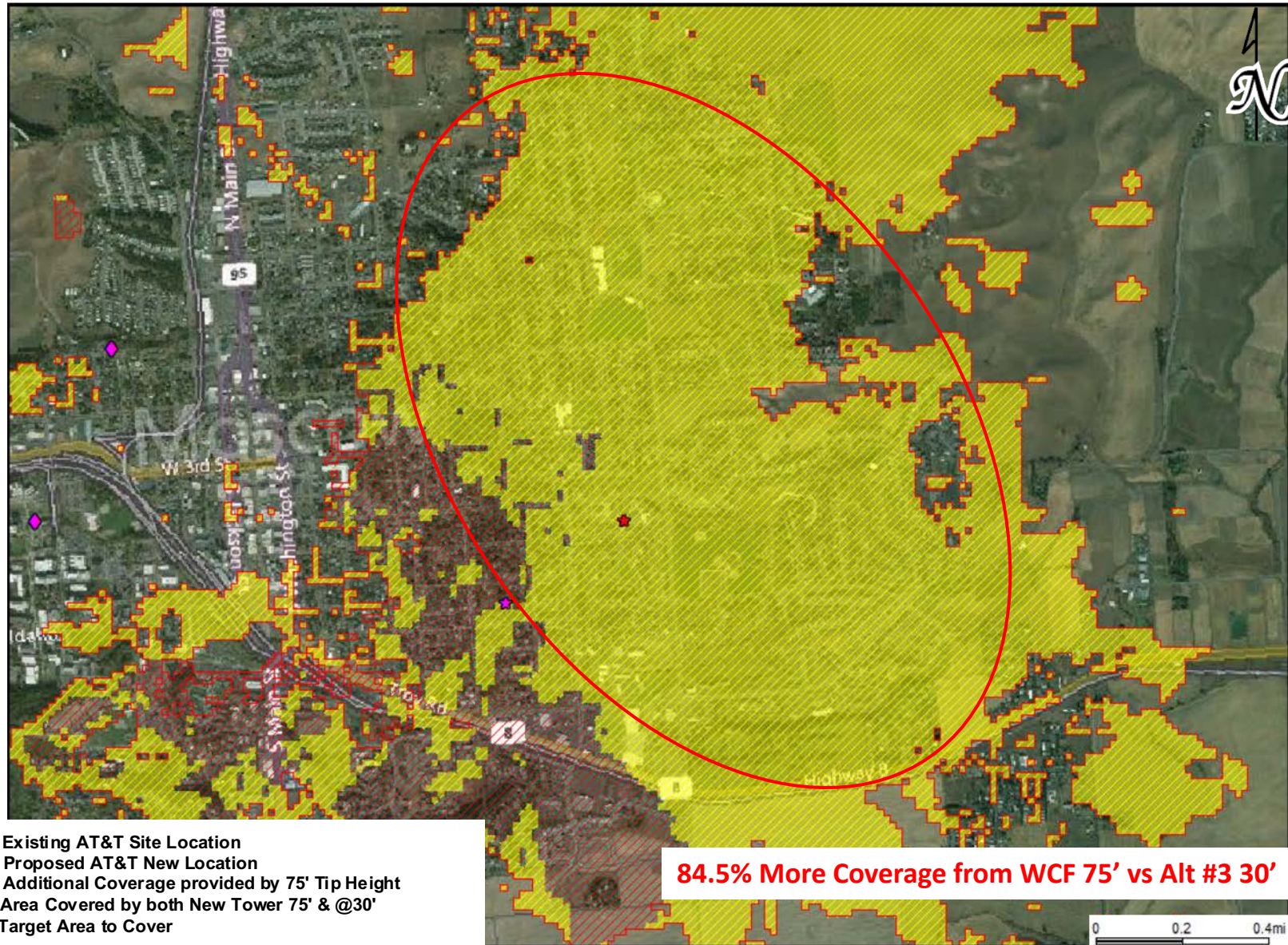


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Figure H—Comparison—Alternative Site #3

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Comparison of Projected New AT&T Coverage—Alt. Site #3 (30ft) v. Proposed WCF (75ft)

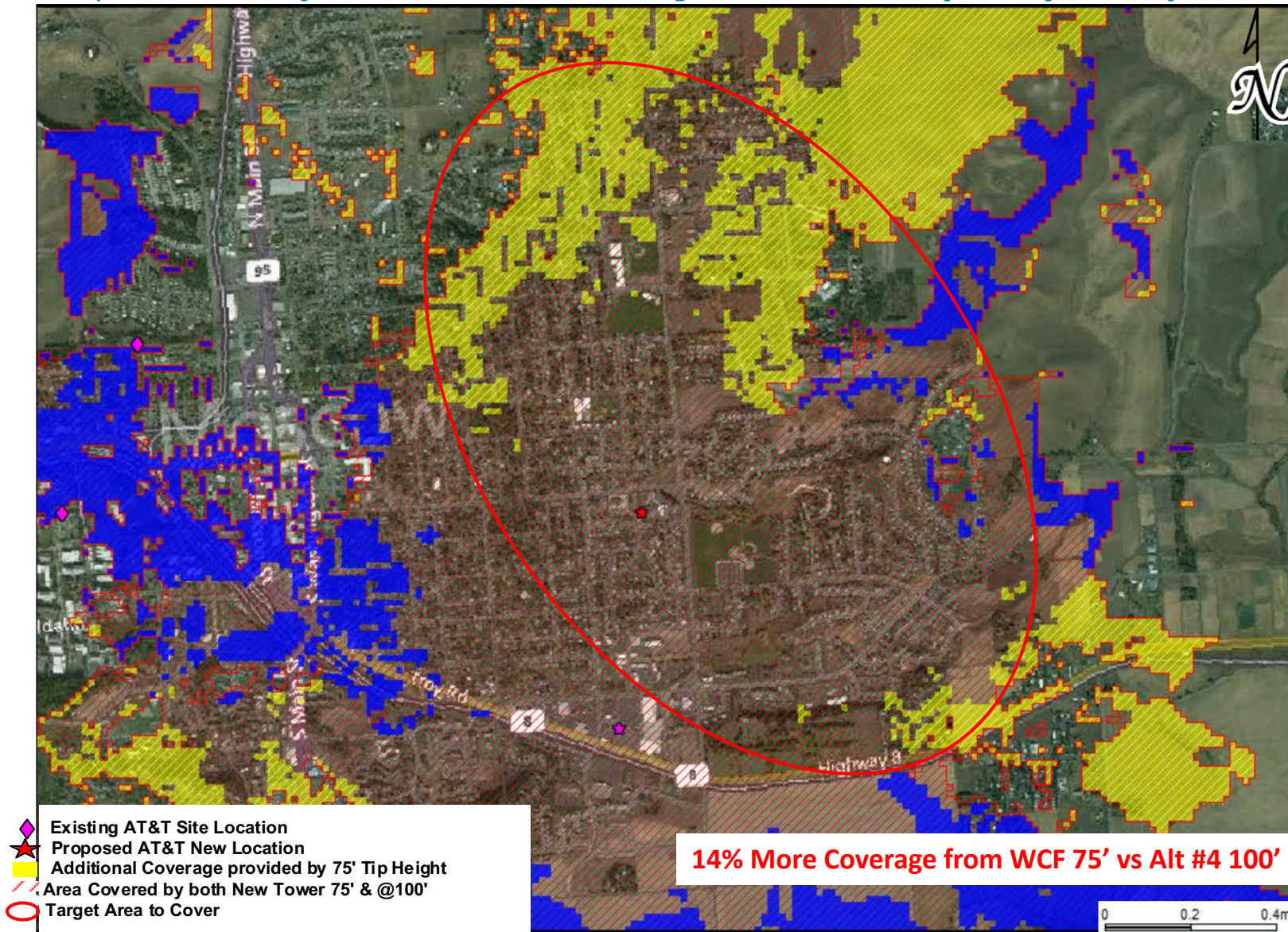


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Figure I—Comparison—Alternative Site #4

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Comparison of Projected New AT&T Coverage—Alt. Site #4 (100ft) v. Proposed WCF (75ft)



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SEARCH RING METHODOLOGY

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

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

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

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

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

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SEARCH RING METHODOLOGY – CON'T...

Radio Frequencies used by System. The designs of wireless communications systems vary greatly based upon the radio frequencies that are used by the carrier. If the carrier uses radio frequencies in the 700 MHz to 850 MHz range, the radio signals will travel further and will penetrate buildings better than the radio frequencies in the 1900 MHz band, 2100 MHz band and 2300 MHz band. As a result, wireless communications systems that use lower radio frequencies will need fewer sites than wireless communications systems that use higher radio frequencies.

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

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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign KNKN253	File Number 0008774117
Radio Service CL - Cellular	
Market Numer CMA388	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0014980726

Market Name Idaho 1 - Boundary				
Grant Date 10-16-2019	Effective Date 10-16-2019	Expiration Date 10-01-2029	Five Yr Build-Out Date	Print Date 10-16-2019

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	47-29-34.1 N	116-08-36.0 W	1880.6	53.3	

Address: 1078 Main Street (10567)
City: Kellogg **County:** SHOSHONE **State:** ID **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	827.100	970.700	752.200	556.300	619.000	842.300	830.600	1128.200
Transmitting ERP (watts)	348.700	69.600	1.600	1.300	0.700	0.700	2.700	20.800

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	827.100	970.700	752.200	556.300	619.000	842.300	830.600	1128.200
Transmitting ERP (watts)	1.300	71.000	488.500	241.900	15.000	1.000	1.000	1.000

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	827.100	970.700	752.200	556.300	619.000	842.300	830.600	1128.200
Transmitting ERP (watts)	1.200	1.200	1.200	1.500	84.700	588.500	27.400	2.000

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: KNKN253

File Number: 0008774117

Print Date: 10-16-2019

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	47-29-34.1 N	116-08-36.0 W	1880.6	53.3	

Address: 1078 Main Street (10567)

City: Kellogg County: SHOSHONE State: ID Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	827.100	970.700	752.200	556.300	619.000	842.300	830.600	1128.200
Transmitting ERP (watts)	5.200	2.600	0.800	0.500	1.900	0.900	97.300	190.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	46-40-51.9 N	116-58-20.2 W	1096.7	86.9	1228863

Address: 1011 PARADISE RIDGE ROAD (67661)

City: Moscow County: LATAH State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	276.800	266.400	315.700	279.800	277.300	283.900	364.200	351.200
Transmitting ERP (watts)	0.800	0.700	4.600	35.800	55.400	61.000	37.000	5.000

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	272.800	262.400	311.700	275.800	273.300	279.900	360.200	347.200
Transmitting ERP (watts)	7.000	1.500	0.200	1.400	6.700	1.900	1.700	2.000

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	276.800	266.400	315.700	279.800	277.300	283.900	364.200	351.200
Transmitting ERP (watts)	324.800	9.500	5.000	0.649	3.600	3.200	13.600	292.300

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	48-05-37.2 N	116-33-14.5 W	1362.8	37.5	

Address: LITTLE BLACKTAIL MOUNTAIN NORTH (47117)

City: SANDPOINT County: BONNER State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	639.500	599.900	674.000	682.400	566.900	638.000	505.000	668.200
Transmitting ERP (watts)	5.900	145.300	349.000	54.700	1.800	0.700	0.700	0.700

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	639.500	599.900	674.000	682.400	566.900	638.000	505.000	668.200
Transmitting ERP (watts)	0.200	0.200	0.300	13.200	82.900	80.500	13.400	0.800

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: KNKN253

File Number: 0008774117

Print Date: 10-16-2019

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	48-05-37.2 N	116-33-14.5 W	1362.8	37.5	

Address: LITTLE BLACKTAIL MOUNTAIN NORTH (47117)

City: SANDPOINT County: BONNER State: ID Construction Deadline: 07-11-2015

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	639.500	599.900	674.000	682.400	566.900	638.000	505.000	668.200
Transmitting ERP (watts)	12.800	0.500	0.200	0.200	0.200	2.500	46.100	78.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	47-22-59.3 N	116-51-52.3 W	1032.4	22.0	

Address: A PORTION OF THE SW 1/4 SECTION 29 (10570)

City: WORLEY County: KOOTENAI State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	326.900	256.900	235.700	149.700	106.500	148.600	210.600	246.700
Transmitting ERP (watts)	3.500	71.700	261.700	242.000	86.500	10.100	0.523	0.523

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	326.900	256.900	235.700	149.700	106.500	148.600	210.600	246.700
Transmitting ERP (watts)	4.300	0.900	0.900	9.800	148.500	428.200	244.500	48.800

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	326.900	256.900	235.700	149.700	106.500	148.600	210.600	246.700
Transmitting ERP (watts)	252.100	134.800	24.200	1.100	0.504	1.200	28.000	215.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	48-36-37.5 N	116-15-23.3 W	1860.5	19.8	

Address: HIGHWAY 95 MILEPOST 498 (10572)

City: BONNERS FERRY County: BOUNDARY State: ID Construction Deadline: 07-11-2015

Antenna: 7

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	1219.000	855.000	668.000	280.600	393.800	933.600	1107.800	1271.300
Transmitting ERP (watts)	6.700	115.600	437.200	296.100	59.400	6.000	0.900	0.900

Antenna: 8

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	1219.000	855.000	668.000	280.600	393.800	933.600	1107.800	1271.300
Transmitting ERP (watts)	3.200	0.700	0.700	9.300	128.400	345.700	195.400	39.900

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: KNKN253

File Number: 0008774117

Print Date: 10-16-2019

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	48-36-37.5 N	116-15-23.3 W	1860.5	19.8	

Address: HIGHWAY 95 MILEPOST 498 (10572)

City: BONNERS FERRY County: BOUNDARY State: ID Construction Deadline: 07-11-2015

Antenna: 9

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	1219.000	855.000	668.000	280.600	393.800	933.600	1107.800	1271.300
Transmitting ERP (watts)	334.400	118.600	20.600	1.000	0.700	1.400	27.200	216.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	48-31-53.0 N	116-49-03.0 W	963.2	32.9	1039632

Address: 2000 CAMEL PRAIRIE ROAD (16637)

City: COOLIN County: BONNER State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	30.000	30.000	30.000	211.900	193.000	172.100	167.100
Transmitting ERP (watts)	0.826	0.826	0.826	3.100	105.600	413.000	108.000	4.400

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	30.000	30.000	30.000	211.900	193.000	172.100	167.100
Transmitting ERP (watts)	108.000	4.400	0.826	0.826	0.826	3.100	105.600	413.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	46-30-55.8 N	116-56-46.4 W	863.8	96.0	1227037

Address: 17268 Evans Rd. (48862)

City: Genesee County: NEZ PERCE State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.000	123.800	223.100	394.900	514.000	265.200	115.600	105.700
Transmitting ERP (watts)	0.739	69.900	369.700	209.100	14.200	2.900	0.739	0.739

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.000	123.800	223.100	394.900	514.000	265.200	115.600	105.700
Transmitting ERP (watts)	1.600	0.600	0.400	1.600	81.600	167.400	51.400	2.500

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.000	123.800	223.100	394.900	514.000	265.200	115.600	105.700
Transmitting ERP (watts)	320.200	41.300	2.400	0.640	0.640	0.900	18.300	288.400

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: KNKN253

File Number: 0008774117

Print Date: 10-16-2019

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
21	46-48-40.2 N	116-33-19.1 W	1030.2	47.8	

Address: T40N, R2W, Sec 14 (50386)

City: DEARY County: LATAH State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.300	169.600	170.800	180.800	255.800	246.400	187.200	130.600
Transmitting ERP (watts)	42.100	459.100	457.700	42.000	1.400	0.918	0.918	1.800

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.300	169.600	170.800	180.800	255.800	246.400	187.200	130.600
Transmitting ERP (watts)	1.312	5.000	108.300	656.100	316.300	15.800	1.312	1.312

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.300	169.600	170.800	180.800	255.800	246.400	187.200	130.600
Transmitting ERP (watts)	0.547	0.547	0.547	0.900	28.500	273.800	158.500	9.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	48-21-59.2 N	116-38-42.2 W	1946.8	28.4	

Address: TOP OF SCHWEITZER MTN RD (10569)

City: SAND POINT County: BONNER State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	544.900	1008.600	1174.400	1141.000	1064.500	777.100	898.500	644.800
Transmitting ERP (watts)	1.100	16.900	133.900	163.400	26.500	1.900	0.326	0.326

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	544.900	1008.600	1174.400	1141.000	1064.500	777.100	898.500	644.800
Transmitting ERP (watts)	1.800	0.800	0.800	7.500	92.900	388.500	213.300	25.500

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	544.900	1008.600	1174.400	1141.000	1064.500	777.100	898.500	644.800
Transmitting ERP (watts)	338.500	95.000	8.600	0.700	0.700	0.800	13.700	132.000

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: KNKN253

File Number: 0008774117

Print Date: 10-16-2019

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	48-12-42.6 N	117-05-02.0 W	1015.3	32.0	

Address: 2.5 mi NW of Newport (102739)

City: NEWPORT County: PEND OREILLE State: WA Construction Deadline: 07-11-2015

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	171.600	281.300	247.300	302.900	286.800	258.300	293.100
Transmitting ERP (watts)	0.816	51.400	408.300	363.900	36.400	0.900	0.816	0.816

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	171.600	281.300	247.300	302.900	286.800	258.300	293.100
Transmitting ERP (watts)	0.916	0.916	0.916	22.400	309.700	458.100	72.600	2.000

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	171.600	281.300	247.300	302.900	286.800	258.300	293.100
Transmitting ERP (watts)	129.100	4.800	1.028	1.028	1.028	8.000	209.400	514.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	47-39-44.1 N	116-56-58.5 W	1347.2	20.1	

Address: BLOSSOM SOUTH OF POST FALLS (10566)

City: COEUR D ALENE County: KOOTENAI State: ID Construction Deadline: 07-11-2015

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	689.200	678.000	662.700	578.800	423.800	217.300	662.500	694.700
Transmitting ERP (watts)	16.700	254.500	438.000	60.100	1.400	0.900	0.900	0.900

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	689.200	678.000	662.700	578.800	423.800	217.300	662.500	694.700
Transmitting ERP (watts)	227.800	21.400	0.900	0.500	0.500	0.600	16.500	211.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	47-11-18.0 N	116-54-24.1 W	835.8	91.1	1227035

Address: HWY 95, MILE POST 383 (16299)

City: TENSED County: BENEWAH State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	30.000	30.000	66.700	30.000	42.900	107.900	90.900
Transmitting ERP (watts)	0.600	2.800	89.300	284.200	58.700	2.100	0.600	0.600

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: KNKN253

File Number: 0008774117

Print Date: 10-16-2019

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	47-11-18.0 N	116-54-24.1 W	835.8	91.1	1227035

Address: HWY 95, MILE POST 383 (16299)

City: TENSED County: BENEWAH State: ID Construction Deadline: 07-11-2015

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	30.000	30.000	66.700	30.000	42.900	107.900	90.900
Transmitting ERP (watts)	8.800	0.546	0.546	3.100	53.300	273.200	264.900	65.000

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	30.000	30.000	66.700	30.000	42.900	107.900	90.900
Transmitting ERP (watts)	261.600	127.900	7.300	0.523	0.523	0.523	0.523	35.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	46-27-41.9 N	117-00-30.1 W	798.9	17.4	

Address: HIGHWAY 95 MILE POST 317 (10635)

City: LEWISTON County: NEZ PERCE State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	30.000	405.200	406.400	496.100	431.600	39.800	30.000
Transmitting ERP (watts)	0.300	9.500	49.900	42.900	47.900	34.300	3.900	0.200

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	30.000	405.200	406.400	496.100	431.600	39.800	30.000
Transmitting ERP (watts)	0.800	1.000	2.300	19.700	157.100	199.500	127.700	15.000

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	30.000	30.000	405.200	406.400	496.100	431.600	39.800	30.000
Transmitting ERP (watts)	298.900	121.800	15.300	2.200	0.600	8.200	25.400	192.900

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	45-51-48.0 N	116-07-29.0 W	1853.2	34.4	

Address: SE 1/4 SE 1/4 Sec. 7. Tshp 29N Rge 3E (154276)

City: Grangeville County: IDAHO State: ID Construction Deadline: 07-11-2015

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	863.200	931.200	703.900	303.900	519.500	820.100	798.400	841.000
Transmitting ERP (watts)	1.510	39.900	584.100	755.300	100.700	7.000	1.800	1.510

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: KNKN253

File Number: 0008774117

Print Date: 10-16-2019

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	45-51-48.0 N	116-07-29.0 W	1853.2	34.4	

Address: SE 1/4 SE 1/4 Sec. 7, Tshp 29N Rge 3E (154276)

City: Grangeville **County:** IDAHO **State:** ID **Construction Deadline:** 07-11-2015

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	863.200	931.200	703.900	303.900	519.500	820.100	798.400	841.000
Transmitting ERP (watts)	3.300	1.700	1.700	3.300	118.300	847.500	485.800	41.800

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	863.200	931.200	703.900	303.900	519.500	820.100	798.400	841.000
Transmitting ERP (watts)	467.500	156.600	13.200	2.800	0.935	0.935	12.000	211.300

Control Points:

Waivers/Conditions:

THIS AUTHORIZATION IS SUBJECT TO THE CONDITION THAT, IN THE EVENT THAT CELLULAR SYSTEMS USING THE SAME FREQUENCY BLOCK AS GRANTED HEREIN ARE AUTHORIZED IN ADJACENT TERRITORY IN CANADA, COORDINATION OF ANY OF THE LICENSEE'S TRANSMITTER INSTALLATIONS WHICH ARE WITHIN 45 MILES OF THE U.S. CANADA BORDER SHALL BE REQUIRED TO ELIMINATE ANY HARMFUL INTERFERENCE THAT MIGHT OTHERWISE EXIST AND TO INSURE CONTINUANCE OF EQUAL ACCESS TO THE FREQUENCY BLOCK BY BOTH COUNTRIES.

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WPWU989	File Number 0008643019
Radio Service WZ - 700 MHz Lower Band (Blocks C, D)	

FCC Registration Number (FRN): 0003291192

Grant Date 11-05-2019	Effective Date 11-05-2019	Expiration Date 06-13-2029	Print Date 11-07-2019
Market Number EAG706	Channel Block D	Sub-Market Designator 0	
Market Name Pacific			
1st Build-out Date 06-13-2019	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

Operation of the facilities authorized herein, are subject to the condition that harmful interference may not be caused to, but must be accepted from UHF TV transmitters in Canada and Mexico as identified in existing and any future agreements with those countries.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select License Search . Follow the instructions on how to search for license information.

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPWU989

File Number: 0008643019

Print Date: 11-07-2019

This application is granted pursuant to the Commission's Order In the Matter of Qualcomm Incorporated Petition for Declaratory Ruling, WT Docket No. 05-7, FCC 06-155, released October 13, 2006.

Reference Copy

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPWU989

File Number: 0008643019

Print Date: 11-07-2019

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
 AT&T MOBILITY SPECTRUM LLC
 208 S. AKARD ST., RM 1015
 DALLAS, TX 75202

Call Sign WPYU554	File Number 0008656559
Radio Service WZ - 700 MHz Lower Band (Blocks C, D)	

FCC Registration Number (FRN): 0014980726

Grant Date 07-16-2019	Effective Date 07-16-2019	Expiration Date 06-13-2029	Print Date 07-17-2019
Market Number CMA388	Channel Block C	Sub-Market Designator 0	
Market Name Idaho 1 - Boundary			
1st Build-out Date 06-13-2019	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This license is subject to compliance with the conditions set forth in the Commission's Order of Modification, WT Docket No. 12-69, DA 14-43, released January 16, 2014.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select License Search . Follow the instructions on how to search for license information.

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WPYU554

File Number: 0008656559

Print Date: 07-17-2019

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
 NEW CINGULAR WIRELESS PCS, LLC
 208 S AKARD ST., RM 1015
 DALLAS, TX 75202

Call Sign WQJQ759	File Number
Radio Service WY - 700 MHz Lower Band (Blocks A, B & E)	

FCC Registration Number (FRN): 0003291192

Grant Date 11-26-2008	Effective Date 08-31-2018	Expiration Date 06-13-2019	Print Date
Market Number CMA388	Channel Block B	Sub-Market Designator 0	
Market Name Idaho 1 - Boundary			
1st Build-out Date 12-13-2016	2nd Build-out Date 06-13-2019	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

The interim construction benchmark has been extended to December 13, 2013 pursuant to Public Notice DA 13-680 released April 10, 2013. The extension is non-transferrable and any proposed assignee or transferee seeking Commission approval to acquire this license may independently seek relief justifying an extension of the interim construction benchmark set forth in 47 C.F.R. § 27.14(g).

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select License Search . Follow the instructions on how to search for license information.

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQJQ759

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WQGI502	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0014980726

Grant Date 01-29-2007	Effective Date 09-27-2018	Expiration Date 01-29-2022	Print Date
Market Number CMA388	Channel Block A	Sub-Market Designator 0	
Market Name Idaho 1 - Boundary			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

AWS operations must not cause harmful interference across the Canadian or Mexican Border. The authority granted herein is subject to future international agreements with Canada or Mexico, as applicable.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select License Search . Follow the instructions on how to search for license information.

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WQGI502

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST. RM 1015
DALLAS, TX 75202

Call Sign WQVG237	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 11-07-2014	Effective Date 02-20-2019	Expiration Date 11-29-2021	Print Date
Market Number REA006	Channel Block D	Sub-Market Designator 26	
Market Name West			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

AWS operations must not cause harmful interference across the Canadian or Mexican Border. The authority granted herein is subject to future international agreements with Canada or Mexico, as applicable.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select License Search . Follow the instructions on how to search for license information.

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQVG237

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau****RADIO STATION AUTHORIZATION**

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign	File Number
WQVN852	
Radio Service	
AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)	

FCC Registration Number (FRN): 0014980726

Grant Date 04-08-2015	Effective Date 09-29-2018	Expiration Date 04-08-2027	Print Date
Market Number BEA147	Channel Block H	Sub-Market Designator 0	
Market Name Spokane, WA-ID			
1st Build-out Date 04-08-2021	2nd Build-out Date 04-08-2027	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select License Search . Follow the instructions on how to search for license information.

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WQVN852

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau****RADIO STATION AUTHORIZATION**

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign	File Number
WQVN853	
Radio Service	
AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)	

FCC Registration Number (FRN): 0014980726

Grant Date 04-08-2015	Effective Date 08-29-2018	Expiration Date 04-08-2027	Print Date
Market Number BEA147	Channel Block I	Sub-Market Designator 0	
Market Name Spokane, WA-ID			
1st Build-out Date 04-08-2021	2nd Build-out Date 04-08-2027	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WQVN853

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE WILSON
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1016
DALLAS, TX 75202

Call Sign KNLF283	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 06-02-2015	Effective Date 08-31-2018	Expiration Date 06-23-2025	Print Date
Market Number MTA042	Channel Block A	Sub-Market Designator 11	
Market Name Spokane-Billings			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLF283

File Number:

Print Date:

This authorization is granted subject to all conditions incorporated in GTE/Bell Atlantic, CC Docket No. 98-184 Memorandum Opinion and Order (FCC 00-221), released June 16, 2000.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLF283

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau****RADIO STATION AUTHORIZATION**

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WPTK628	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0014980726

Grant Date 10-18-2011	Effective Date 09-25-2018	Expiration Date 10-22-2021	Print Date
Market Number BTA250	Channel Block F	Sub-Market Designator 1	
Market Name Lewiston-Moscow, ID			
1st Build-out Date 10-22-2006	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WPTK628

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau****RADIO STATION AUTHORIZATION**

LICENSEE: AT&T MOBILITY SPECTRUM LLC

ATTN: CECIL J MATHEW
AT&T MOBILITY SPECTRUM LLC
208 S. AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WPXS750	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0014980726

Grant Date 06-10-2015	Effective Date 08-29-2018	Expiration Date 06-23-2025	Print Date
Market Number MTA042	Channel Block A	Sub-Market Designator 12	
Market Name Spokane-Billings			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WPXS750

File Number:

Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

Licensee Name: AT&T MOBILITY SPECTRUM LLC

Call Sign: WPXS750

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS SERVICES, INC.

ATTN: LESLIE A. WILSON
NEW CINGULAR WIRELESS SERVICES, INC.
208 S. AKARD ST., RM 1016
DALLAS, TX 75202

Call Sign KNLB258	File Number
Radio Service WS - Wireless Communications Service	

FCC Registration Number (FRN): 0004122032

Grant Date 02-28-2020	Effective Date 02-28-2020	Expiration Date 07-21-2027	Print Date
Market Number MEA041	Channel Block A	Sub-Market Designator 0	
Market Name Spokane-Billings			
1st Build-out Date 03-13-2017	2nd Build-out Date 09-13-2019	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/Mexico), future coordination of any base station transmitters shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: NEW CINGULAR WIRELESS SERVICES, INC.

Call Sign: KNLB258

File Number:

Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

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License renewal is granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Pursuant to WCS Order on Reconsideration, FCC 12-130, in order to obtain a renewal expectancy at the 7/21/17 renewal deadline, a licensee must, for each license area, certify that it has maintained, or exceeded, the level of coverage demonstrated for that license area at the 3/13/2017 construction deadline.

Licensee Name: NEW CINGULAR WIRELESS SERVICES, INC.

Call Sign: KNLB258

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS SERVICES, INC.

ATTN: LESLIE A. WILSON
NEW CINGULAR WIRELESS SERVICES, INC.
208 S. AKARD ST., RM 1016
DALLAS, TX 75202

Call Sign KNLB259	File Number
Radio Service WS - Wireless Communications Service	

FCC Registration Number (FRN): 0004122032

Grant Date 02-28-2020	Effective Date 02-28-2020	Expiration Date 07-21-2027	Print Date
Market Number MEA041	Channel Block B	Sub-Market Designator 0	
Market Name Spokane-Billings			
1st Build-out Date 03-13-2017	2nd Build-out Date 09-13-2019	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

Conditions:

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Licensee Name: NEW CINGULAR WIRELESS SERVICES, INC.

Call Sign: KNLB259

File Number:

Print Date:

License renewal is granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Pursuant to WCS Order on Reconsideration, FCC 12-130, in order to obtain a renewal expectancy at the 7/21/17 renewal deadline, a licensee must, for each license area, certify that it has maintained, or exceeded, the level of coverage demonstrated for that license area at the 3/13/2017 construction deadline.

Licensee Name: NEW CINGULAR WIRELESS SERVICES, INC.

Call Sign: KNLB259

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau****RADIO STATION AUTHORIZATION**

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE A. WILSON
NEW CINGULAR WIRELESS PCS, LLC
208 S. AKARD ST., RM 1016
DALLAS, TX 75202

Call Sign KNLB300	File Number
Radio Service WS - Wireless Communications Service	

FCC Registration Number (FRN): 0003291192

Grant Date 02-28-2020	Effective Date 02-28-2020	Expiration Date 07-21-2027	Print Date
Market Number REA006	Channel Block C	Sub-Market Designator 1	
Market Name West			
1st Build-out Date	2nd Build-out Date 09-13-2021	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

License renewal is granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Pursuant to WCS Order on Reconsideration, FCC 12-130, in order to obtain a renewal expectancy at the 7/21/17 renewal deadline, a licensee must, for each license area, certify that it has maintained, or exceeded, the level of coverage demonstrated for that license area at the 3/13/2017 construction deadline.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLB300

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau****RADIO STATION AUTHORIZATION**

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE A. WILSON
NEW CINGULAR WIRELESS PCS, LLC
208 S. AKARD ST., RM 1016
DALLAS, TX 75202

Call Sign KNLB301	File Number
Radio Service WS - Wireless Communications Service	

FCC Registration Number (FRN): 0003291192

Grant Date 02-28-2020	Effective Date 02-28-2020	Expiration Date 07-21-2027	Print Date
Market Number REA006	Channel Block D	Sub-Market Designator 1	
Market Name West			
1st Build-out Date	2nd Build-out Date 09-13-2021	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

License renewal is granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Pursuant to WCS Order on Reconsideration, FCC 12-130, in order to obtain a renewal expectancy at the 7/21/17 renewal deadline, a licensee must, for each license area, certify that it has maintained, or exceeded, the level of coverage demonstrated for that license area at the 3/13/2017 construction deadline.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLB301

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

LUP2021-0004
Aeronautical Study No.
2018-ANM-1746-OE

Issued Date: 06/12/2018

Brandon Olsen
PI Tower Development, LLC LendLease Americas-BO
909 Lake Carolyn Parkway
Suite 260
Irving, TX 75039

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Monopole PIID003 Moscow-Residential
Location:	Moscow, ID
Latitude:	46-43-45.59N NAD 83
Longitude:	116-58-56.88W
Heights:	2598 feet site elevation (SE) 85 feet above ground level (AGL) 2683 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 1.

This determination expires on 12/12/2019 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

LUP2021-0004

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (206) 231-2990, or paul.holmquist@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2018-ANM-1746-OE.

Signature Control No: 362096708-367522554

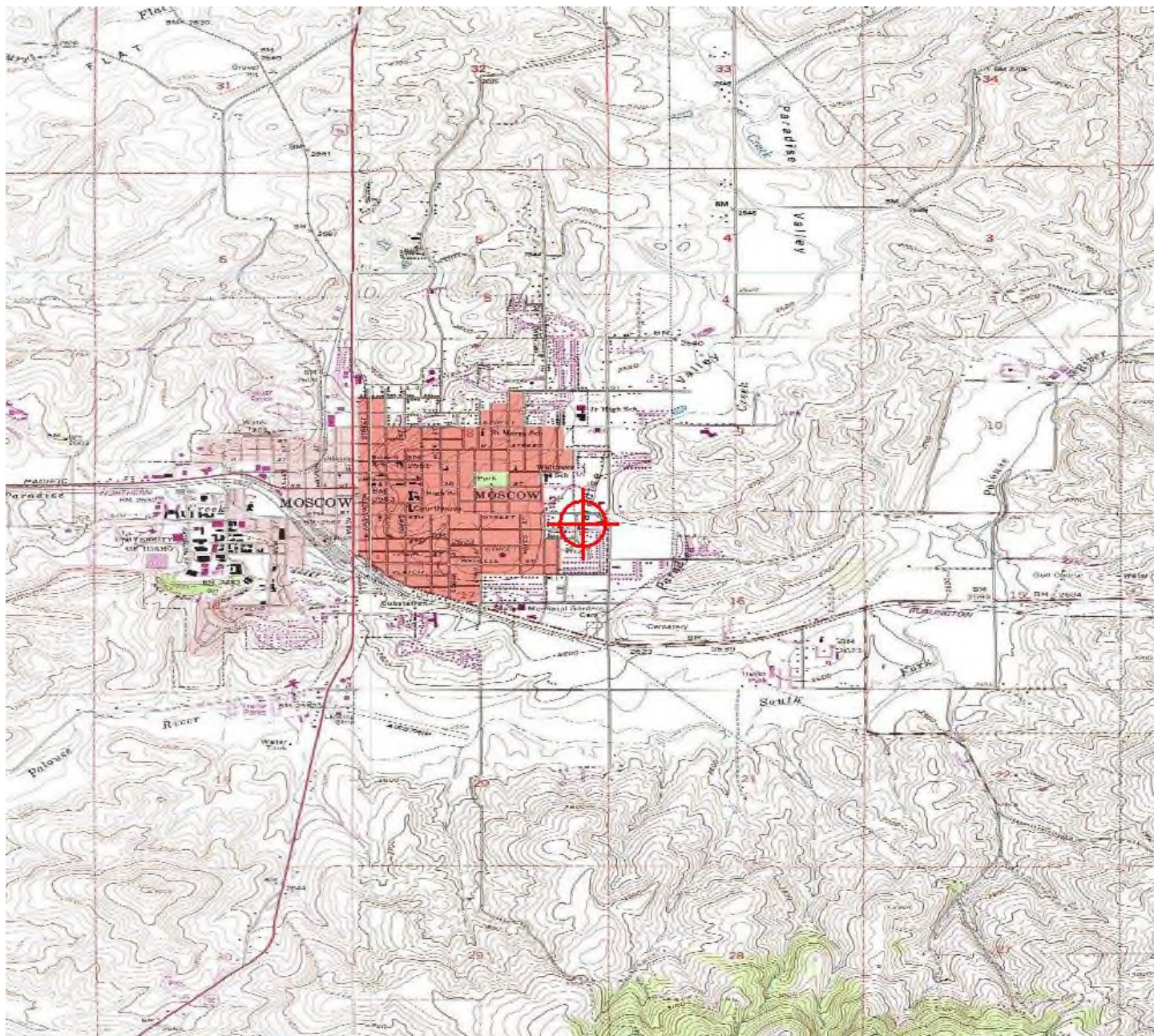
(DNE)

Paul Holmquist
Specialist

Attachment(s)
Frequency Data
Map(s)

cc: FCC

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W





Wednesday, February 17, 2021 at 12:54:50 Pacific Standard Time

Subject: FW: Cell Tower Proposal
Date: Thursday, February 4, 2021 at 2:01:42 PM Pacific Standard Time
From: John Silenzi
To: Gregg Busch
CC: William Castanares, Bryan Mullen
Attachments: PIID321 SE Moscow FZD Rev-2 11-19-2020.pdf

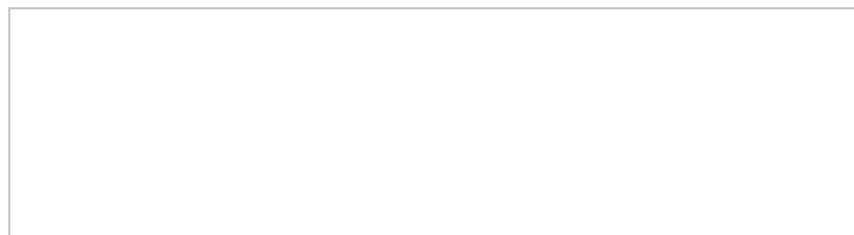
Hi Gregg,

Below is the emailed approval from Pastor Ed to proceed with the land use submittal for PIID321 SE Moscow.

Let me know if you need anything else.

Thanks,

John



From: Ed Eby <edeby@moscownaz.org>
Sent: Thursday, February 4, 2021 1:52 PM
To: John Silenzi <johns@5cpro.com>
Subject: RE: Cell Tower Proposal

John,

I have received a positive response from my Church Board, so this is your authorization to proceed with the Cell Tower proposal to the City of Moscow.

Let me know if you need any additional information.

Sincerely,

Pastor Ed Eby
Senior Pastor, Moscow Church of the Nazarene

Recieved 02-19-2021

City of Moscow
Community Planning & Design
PO Box 9203
Moscow, ID 83843

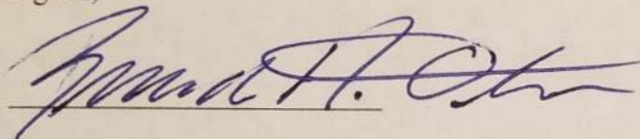
To the Department of Community Planning & Design,

I, Brandon Olsen, an authorized representative of Parallel Infrastructure LLC, submit this written commitment to shared use as required by Moscow City Code Section 4-3-5(H)(6).

Parallel Infrastructure LLC hereby commits to make the proposed antenna tower at 1400 E 7th St, Moscow, Idaho available for shared use by others subject to technical and structural limitations and reasonable financial terms.

Please contact me at (503) 951-7515 if you have questions regarding this commitment.

Signed,



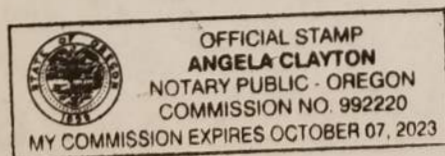
Brandon A. Olsen
Executive Director – Program Management RAN
Parallel Infrastructure LLC

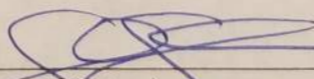
STATE OF OREGON)
)
COUNTY OF Clackamas) SS.

This instrument was acknowledged before me on February 2, 2021, by
Brandon Olsen as Authorized Representative of Parallel Infrastructure,
LLC.

DATED: February 2, 2021.

Notary Seal




(Signature of Notary)
Angela Clayton
(Legibly Print or Stamp Name of Notary)
Notary Public in and for the State of Oregon
My appointment expires: 10.7.2023



15105 John J. Delaney Drive | Suite D-3 | Charlotte, NC
T: 503.951.7515 | parallelinfrastructure.com

January 27, 2021

City of Moscow
Community Planning & Design
PO Box 9203
Moscow, ID 83843

VIA EMAIL

RE: Parallel Infrastructure – Applications for Tower and Wireless Facilities at 1400 E 7th Street
Letter of Authorization – Wireless Policy Group LLC

Dear Sir or Madam:

Please accept this letter as authorization for Wireless Policy Group to represent, file applications on behalf of, and serve as a contact for Parallel Infrastructure regarding applications for zoning, building, and other necessary permits for development of a proposed antenna tower and all associated wireless facilities and tenant collocations, at 1400 E 7th Street, Moscow, Idaho.

If you have any questions, please contact me at 503.951.7515.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brandon A. Olsen", written over a horizontal line.

Brandon A. Olsen
Executive Director – Program Management RAN
Parallel Infrastructure
Portland, OR
M 503.951.7515

Recieved 02-19-2021

Attention Wireless Providers

This letter is to notify you of an application for the installation of a new wireless telecommunications facility within the City of Moscow, ID and within your licensed area. Attached is the application and a description of the proposed wireless facility.

Summary of Site Details

Height: 80' AGL

Design: Stealth Site (Church Tower)

Location: 1400 E 7th Street, Moscow, ID 83823

Type and Frequency of Antennas: TBD; expected 3 RAD centers of up to 4 antennas each

Please provide any comments you have, including your desire to collocate, **within 10 days** of receipt of this notice to:

John Silenzi
(503) 804-4014
johns@5cpro.com



John Silenzi
Sr. Project Manager
503-804-4014

T-Mobile US, Inc
12920 SE 38th Street
Bellevue, WA 98006

Dish Wireless LLC
5701 S Santa Fe Drive
Littleton, CO 80120

Inland Cellular, LLC
PO Box 688
109 S. First Street
Roslyn, WA 98941

AT&T Mobility LLC
208 S. Akard Street
Dallas, TX 75202

Verizon Wireless
One Verizon Way
Basking Ridge, NJ 07920

US Cellular
8410 W Bryn Mawr Avenue
Suite 700
Chicago, IL 60631

TracFone Wireless, Inc
9700 NW 112th Avenue
Miami, FL 33178

OnStar, LLC
300 Renaissance Center
Detroit, MI 48265

Mint Mobile, LLC
1550 Scenic Avenue
Suite 100
Costa Mesa, CA 92626

Google North America, Inc
1600 Amphitheatre Parkway
Mountain View, CA 94043

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

T-Mobile US, Inc
12920 SE 38th St
Bellevue, WA 98006

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

Mint Mobile, LLC
1550 Science Ave
Ste 100
Costa Mesa, CA 92626

FROM

Greggory Burch, WP6
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

Google North America, Inc
1600 Amphitheatre Parkway
Mountain View, CA 94043

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

On Star, LLC
300 Renaissance Center
Detroit, MI 48265

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

TracFone Wireless, Inc
9700 NW 112th Ave
Miami, FL 33178

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

US Cellular
8410 W Byron Mawr Ave.
Ste 700
Chicago, IL 60631

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

Verizon Wireless
One Verizon Way
Basking Ridge, NJ 07920

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

AT&T Mobility LLC
208 S. Akard St.
Dallas, TX 75202

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd, Ste 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

Inland Cellular, LLC
PO Box 688
109 S. First Street
Poulsbo, WA 98041

FROM

Wireless Policy Group LLC
1420 NW Gilman Blvd 9030
Issaquah, WA 98027

Mail Clinic
ISSAQUAH

TO

Dish Wireless LLC
5701 S Santa Fe Dr
Littleton, CO 80120

and the Easement(s) surveyed and to obtain a title report or commitment for a leasehold title policy covering the Leased Premises and the Easement(s) from the title insurance company of its choice prior to the Rent Commencement Date. Lessor shall remove any survey or title defects, which will adversely affect Lessee's leasehold title or its ability to mortgage its leasehold interest. In the event Lessor shall fail to cure any such defects, Lessee shall have the right to terminate this Lease upon written notice to Lessor.

(c) In the event of a termination of the Lease pursuant to subparagraph 3(a) or 3(b) above or Paragraph 8 below, within thirty (30) days of such termination Lessee will file a release or other appropriate instrument with the local recording office to remove the Memorandum of Lease from the title record. If said removal is not performed by Lessee within such thirty (30) day period, Lessee appoints Lessor, as Lessee's agent and at Lessee's cost and expense, to file the necessary release or other instrument to cause the Memorandum of Lease to be released from title.

4. **Attorney-In-Fact and Cooperation.** Lessor hereby irrevocably appoints Lessee or Lessee's agent as Lessor's agent to file such applications on behalf of Lessor with federal, state and local governmental authorities which relate to Lessee's Intended Use of the Leased Premises, including, but not limited to, land use and zoning applications. Lessor agrees to cooperate with Lessee in obtaining, at Lessee's expense, all licenses and permits required for Lessee's use of the Leased Premises (the "Governmental Approval").

5. **Use.** The Leased Premises may be used by Lessee for the transmission and receipt of wireless communication signals in any and all frequencies and the construction and maintenance of a communications tower, antennas, buildings, and related facilities and activities, and all other uses permitted under applicable zoning regulations. Lessee may construct additional improvements, demolish and reconstruct improvements, or restore, replace and reconfigure improvements at any time during the Term (as herein defined) of this Lease.

6. **Initial Term.** The initial term of this Lease shall be **five (5) years** commencing on the Commencement Date and terminating on the fifth (5th) anniversary of the Commencement Date ("Initial Term"). The parties agree that a memorandum of lease in the form attached hereto as **Exhibit "D"**, evidencing the Commencement Date and other matters, shall be executed and recorded.

7. **Renewal Terms.** Lessee shall have the right to extend the Initial Term of this Lease for **five (5) additional five (5) year terms** ("Renewal Terms"). Each Renewal Term shall be on the same terms and conditions as set forth in this Lease. This Lease shall automatically be renewed for each successive Renewal Term unless Lessee notifies Lessor of Lessee's intention not to renew the Lease at least thirty (30) days prior to the expiration of the Initial Term or the Renewal Term which is then in effect. The Initial Term and each Renewal Term shall collectively be referred to herein as the "Term".

8. **Rent.**

(a) Commencing on the Rent Commencement Date, during the Term of this Lease, Lessee shall pay to Lessor an annual rental amount of [REDACTED]

("Rent"), which shall be deemed to include any applicable State, County or local sales or use tax. Rent shall be payable on or before the fifteenth (15th) day of each calendar month, and shall be remitted to the address shown for Lessor in this Lease, or such other address as Lessor may direct by written notice to Lessee. Lessor acknowledges the first such payment of Rent will be made within thirty (30) days of the Rent Commencement Date. Lessee shall have no obligation to make any Rent payments until such time as Lessee receives a completed Internal Revenue Service W-9 form from Lessor, setting forth the Federal tax identification number of Lessor or the person or entity to whom the Rent checks are to be made payable as directed in writing by Lessor (the "**Tax Credentials**"). From time to time during the Term and within fourteen (14) days of a written request from Lessee, Lessor agrees to provide updated Tax Credentials in a form reasonably acceptable to Lessee. The Tax Credentials shall be provided to Lessee in accordance with the provisions of, and at the address given in, Section 21 below. Within fifteen (15) days of obtaining an interest in the Property or this Lease, any assignee(s) or transferee(s) of Lessor shall provide to Lessee

David and Kerri Renner
1130 E 7th St
Moscow, Id 83843
Drenner80309@gmail.com

City of Moscow Board of Adjustment:

Please allow Kerri and I to go on record as firmly opposing permit application LUP2021-0004 for the installation of an 80-foot wireless communication facility at 1400 E 7th street. We would sincerely appreciate you carefully considering our concerns below:

1. Under item **General Information --> 6. Operating Characteristics** of the filing application AT&T indicates that it has "identified a need for improved service in East Moscow and the surrounding area". However, we have until just recently been AT&T customers for more than 10 years and have never had any issues with intermittent or degraded wireless service. I know of no other neighbors in the area that have, over the years, experienced degraded wireless service, regardless of carrier (i.e., AT&T, Verizon, etc.). In addition, applicant states that the site will be provided to enhance its 4G LTE technology, an older technology slower than "pure" 4G technology. In terms of community benefit/cost this represents marginal technology benefit to the community. Applicant should be installing 4G at the site at a minimum, not 4G LTE. New 5G technology represents maximum community benefit.
2. Under item **General Information → 7 → Criteria #2** of the filing application, applicant indicates "The proposed use will maintain the character of the Church of the Nazarene campus by incorporating design elements similar to the adjacent church". However, filing application drawings A-2 2 and A-2.1 2, as well as the pictures that follow, illustrate that that the proposed structure will significantly and drastically alter the visual character and aesthetic appeal of the Nazarene Church property. In particular, the proposed 80 foot tower height, approximately 15 feet higher than the property's landmark dome cross, completely dominates the visual and aesthetic character of the property from every direction and distracts from the original architectural focal point of the property: the dome and its visually prominent landmark cross.

The excessively tall and rectangular/square shape of the proposed tower, in addition to its location at the very periphery of the property, is not only inconsistent with the design features of the domes' curved profile but also results in glaring "horizontal and vertical spatial discontinuities" with the property's existing structures. This unfavorable change will be visible and prominent from all directions and all vantage points.

3. Under item **General Information → 7 → Criteria #3** of the filing application, applicant indicates "All ground equipment will be fully screened with existing landscaping and a six foot (6') tall fence. Construction will create some noise that will last approximately one month. Two diesel generators will run in the event of a power outage, and once a week for one hour for maintenance." Application drawings A-1.2 2 and following illustrate that no additional landscaping vegetation will be used to provide a visual barrier for the ground structures to be installed (e.g., diesel generators, etc.). Only existing Arborvitae vegetation will be used in addition to newly installed 6-foot cedar fencing (Drawing A-2 2). If not routinely maintained (i.e.,

stained) this fencing will wear with time to a brown, grey oxidized surface. Who would be legally responsible for maintaining this fencing ?? Unless taken care of, this would simply become unattractive (PS: I'm replacing my worn, faded fence this summer).

The existence of 2 diesel generators is very concerning, not only from the standpoint of noise pollution but also from the standpoint of hydrocarbon emissions pollution. Testing of such generators will need to occur during construction and final testing before the site "goes live". In looking at applicants filing I have not found any specifications for such generators regarding rated noise and hydrocarbon emissions. We believe providing emissions specifications for such equipment should be mandatory; we believe this is unacceptable otherwise. Generators would ostensibly run full-time for an unknown period of time in the event of a power outage. This would create significant changes in the surrounding neighborhood/area due to the increase in noise and hydrocarbon emissions. Living directly across the street from the proposed installation, we would be significantly impacted. In addition, applicant states that generators would routinely run once a week for one hour for maintenance purposes but does not state the time of day or times when such maintenance would occur. Weekly running/testing/maintenance of these generators would be very undesirable from our point of view and would surely be considered a nuisance for those residing in the areas immediately adjacent. Continual running in the event of a power outage would be even more so.

Applicant materials also state that the site will be a "co-location" site. We are very concerned about this. Vendors who will provide/install equipment and need to provide maintenance include the applicant (AT&T) as well as T-Mobile and Dish Network (Drawing A-1.3 2). However, applicant nowhere indicates what the T-Mobile "lease area" will be used for or what equipment will be installed (it only mentions "support equipment") and what maintenance will be required. Similarly, no specifications are provided for the Dish Network "lease area" in terms of what equipment will be installed and what maintenance will be required.

Will the AT&T diesel generator conform to the same use and maintenance schedules as the T-Mobile diesel generator ? Not likely as these vendors will have independent operational needs and objectives even though being co-located. Will the Dish lease area equipment, whatever it consists of, require an even different schedule of visits, testing and maintenance to satisfy their needs? Because this location is a "co-location" site it is inevitable that all 3 vendors will have unique and different requirements in terms of site visits, maintenance, testing and operational priorities. This will very likely lead to a situation where the vendors are in a continual process of coming and going to the site for any number of reasons. Having the proposed site be a single-vendor site (AT&T exclusively) is one thing but having the site house the equipment of three separate vendors will invariably result in a "high traffic footprint" at this site with activity potentially taking place at all times and days of the year.

The area immediately surrounding the proposed site, the church parking lot directly in the area to the north and east of the proposed site, is used extensively by children and young families riding bikes, teens and others transiting through the area, and what appear to be novice automobile and motorcycle drivers practicing their skills. Many times I can look out my kitchen window to the north-east and view the various activities taking place in this area. This proposed site will significantly alter the character of this area relative to these activities and potentially pose a public health risk to those in the immediate area in terms of a fence gate being left open/unlocked, curious teens desiring to get a better look at the area that has been fenced off

and inexperienced drivers “not making a necessary turn in time”.

Additionally, Park Avenue, the proposed access point for the site, is a very high pedestrian, pedestrian & pet and bicycle traffic area on both sides of the street. Addition of this proposed access, with its increase in vehicle and equipment traffic would significantly increase the safety risk for these individuals. This is something we believe is very undesirable

Finally, our family, and others I have talked to regarding this issue in the past week, are all very concerned about the effect this proposed site would have on our property values. Living directly across the street from the proposed site this is something that I believe will have a direct and significant detrimental financial impact on our family. Other families have expressed the same concern.

Our neighborhood, the neighborhood of this proposed site, is known for its pleasant, quiet and friendly atmosphere. The Nazarene Church with its spacious parking lot used by so many, Short's Funeral Chapel with its large bike-friendly and skate-friendly lot and its green field just to the south abutting our property, always being used for walks and dog walking, and “triangle park” just down the street give the neighborhood a spacious, open, residential, and cohesive feel, the dome and its cross standing as the landmark prominent and identifiable to all. Allowing the proposed site to be approved would significantly, and I believe detrimentally, affect all those who live in, visit and transit through the neighborhood.

For the reasons above we respectfully request that this permit be denied.

Thank You,

Dave & Kerri Renner

18 March 2021

Board of Adjustment
City of Moscow
City Hall
206 E Third Street
Moscow, Idaho 83843

I am writing to oppose the Conditional Use Permit Application LUP 2021-0004 submitted to the City of Moscow by PI Tower Development LLC (Proposed 80' Wireless Communication Facility at 1400 E. Seventh Street) on 19 February 2021.

I live at and own the home, jointly with my wife, at 1009 E. 7th Street in Moscow, one block from the proposed wireless tower.

I have reviewed the documents submitted by the original applicant (dated 30 July 2018) and the new documents submitted by the current applicant (dated 19 February 2021). Based on this review, I ask the Board of Adjustment to deny this application for a conditional use permit. The applicant has not provided any new information that would allow the Board of Adjustment to reach a different conclusion than it did in 2018.

I note that the only substantial difference between the original proposal and this new proposal is the nature of the proposed stealth tower. The original proposal was based on an 80 foot stealth tower in which the cell towers would be cloaked in a fir tree façade. The new proposal cloaks the tower within a church-like structure. But this new structure does little to hide the fact that the tower would become the predominant view from any location in our neighborhood, including from Triangle Park.

I note that the proposed tower is on the far west end of the church property, substantially away from the main church building. I also note that, based on the photographs provided in the application, the tower would be taller than the main church tower itself.

I encourage the Board of Adjustment to again deny the conditional use permit.

Michael Kyte
1009 E. 7th Street
Moscow, Idaho 83843

Date: March 12, 2021

To: Board of Adjustment, City of Moscow

From: Maury Wiese, 711 Park Drive, Moscow, ID
208-301-8116, mwiese@uidaho.edu



Re: Permit Application LUP 2021-0004
Proposed 80' Wireless Communication Facility at 1400 E. Seventh Street

I oppose this Conditional Use Permit and ask the Board of Adjustment to deny it. My opposition is based on the following:

Need:

The church might indeed need the revenue from this installation. However, in my long experience with my neighbors and this neighborhood, a complaint about the lack of cell or other wireless services has never surfaced. I judge the proposed services offered by this installation to be alternative rather than necessary.

Esthetics and Compatibility:

The proposed site of the tower is not `adjacent` to the church. If the tower was an integral part of the existing church structures or located on the eastern portion of the church property, it might be less concerning.

Instead, it's sited far from the church perhaps to minimize its unsightly fenced presence, the weekly noise and exhaust from its diesel powered generators and the negative impact of any accessory equipment stored or installed outside the proposed enclosure.

For these same reasons, I don't want this imposing tower across the street from my house. Furthermore, this 80' wireless communication facility would detract from the park focus of my Eastgate neighborhood let alone negatively affect the value and desirability of residences on and beyond E. Seventh Street and Park Drive.